Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	1	15	42.69	na	3.65	214.6	20.47	12.79
111	2007	1	30	42.78	na	3.664	195.2	20.12	12.79
111	2007	1	45	42.86	na	4.189	190.3	19.96	12.78
111	2007	1	100	42.88	na	4.149	190.9	15.61	12.77
111	2007	1	115	42.96	na	4.597	195.2	17.37	12.77
111	2007	1	130	43.09	na	4.092	190.4	19.63	12.77
111	2007	1	145	43.18	na	4.368	184.3	18.94	12.77
111	2007	1	200	43.39	na	4.499	192.5	18.56	12.75
111	2007	1	215	43.72	na	5.183	193.3	20	12.76
111	2007	1	230	43.91	na	4.901	190.8	17.51	12.75
111	2007	1	245	44.23	na	5.722	187.7	16.15	12.75
111	2007	1	300	44.63	na	5.954	191.2	17.3	12.73
111	2007	1	315	44.93	na	6.777	196.3	18.03	12.74
111	2007	1	330	45.11	na	6.487	197.1	20.77	12.73
111	2007	1	345	45.05	na	6.908	194.6	18.51	12.73
111	2007	1	400	44.82	na	7.67	186.8	19.43	12.71
111	2007	1	415	44.9	na	7.18	177.1	19.4	12.71
111	2007	1	430	45.08	na	7.14	188	20.06	12.71
111	2007	1	445	45.13	na	7.24	199	20.95	12.7
111	2007	1	500	45.17	na	7.37	188.6	15.91	12.68
111	2007	1	515	45.47	na	7.59	192.3	21.23	12.68
111	2007	1	530	45.4	na	6.054	192	19.59	12.68
111	2007	1	545	45.35	na	5.334	185.7	21.48	12.67
111	2007	1	600	45.58	na	0.694	177.7	12.35	12.65
111	2007	1	615	45.79	na	0.494	176	12.65	12.65
111	2007	1	630	45.79	na	0.503	171.3	10.07	12.65
111	2007	1	645	46.07	na	0.314	179.8	10.65	12.64
111	2007	1	700	46.42	na	0.26	175.3	10.36	12.63
111	2007	1	715	46.72	na	0.18	169.9	6.275	12.63
111	2007	1	730	47.02	na	0.171	172.2	8.63	12.63
111	2007	1	745	47.4	na	0.242	166.5	10.89	12.63
111	2007	1	800	48.15	na	0.099	165.9	4.96	12.62
111	2007	1	815	48.94	na	0.063	175.9	6.246	12.63
111	2007	1	830	49.38	na	na	na	na	12.63
111	2007	1	845	49.44	na	na	na	na	12.63
111	2007	1	900	49.62	na	0.009	184.9	0	12.62
111	2007	1	915	49.77	na	0.027	202	3.103	12.63
111	2007	1	930	50.06	na	0.045	204.5	5.145	12.63
111	2007	1	945	50.32	na	0.054	202.7	2.084	12.63
111	2007	1	1000	50.46	na	0.018	181.5	0.647	12.63
111	2007	1	1015	50.68	na	0.027	187.8	4.154	12.63
111	2007	1	1030	50.95	na	na	na	na	12.64
111	2007	1	1045	51.37	na	0.018	184	2.67	12.64
111	2007	1	1100	51.81	na	na	na	na	12.63
111	2007	1	1115	52.06	na	na	na	na	12.64
111	2007	1	1130	52.34	na	na	na	na	12.64
111	2007	1	1145	52.54	na	na	na	na	12.64
111	2007	1	1200	52.53	na	na	na	na	12.64
111	2007	1	1215	52.72	na	na	na	na	12.64
111	2007	1	1230	52.48	na	na	na	na	12.64
111	2007	1	1245	52.2	na	na	na	na	12.64
111	2007	1	1300	52.69	na	na	na	na	12.64
111	2007	1	1315	52.67	na	na	na	na	12.64
111	2007	1	1330	52.43	na	na	na	na	12.64
111	2007	1	1345	52.39	na	na	na	na	12.65
111	2007	1	1400	52.38	na	na	na	na	12.64
111	2007	1	1415	52.47	na	na	na	na	12.65
111	2007	1	1430	52.73	na	na	na	na	12.65
111	2007	1	1445	52.94	na	na	na	na	12.65
111	2007	1	1500	53.14	na	na	na	na	12.64

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	1	1515	53.08	na	na	na	na	12.65
111	2007	1	1530	53.13	na	na	na	na	12.65
111	2007	1	1545	52.86	na	na	na	na	12.65
111	2007	1	1600	52.69	na	0.009	263.9	0	12.64
111	2007	1	1615	52.5	na	0.018	263.6	5.848	12.65
111	2007	1	1630	52.36	na	na	na	na	12.64
111	2007	1	1645	52.04	na	na	na	na	12.64
111	2007	1	1700	52.05	na	na	na	na	12.64
111	2007	1	1715	52.06	na	0.009	216.7	0.002	12.64
111	2007	1	1730	51.95	na	na	na	na	12.64
111	2007	1	1745	52	na	na	na	na	12.64
111	2007	1	1800	52.34	na	na	na	na	12.63
111	2007	1	1815	52.83	na	na	na	na	12.64
111	2007	1	1830	52.76	na	0.009	254.5	0.007	12.64
111	2007	1	1845	52.57	na	0.009	291.9	0.007	12.64
111	2007	1	1900	52.53	na	na	na	na	12.64
111	2007	1	1915	52.78	na	na	na	na	12.64
111	2007	1	1930	52.97	na	0.009	275.7	0	12.64
111	2007	1	1945	52.9	na	na	na	na	12.64
111	2007	1	2000	52.43	na	0.018	262	0.632	12.63
111	2007	1	2015	52.21	na	na	na	na	12.64
111	2007	1	2030	51.89	na	0.009	293.6	0.006	12.64
111	2007	1	2045	51.53	na	0.063	270.3	5.82	12.64
111	2007	1	2100	51.68	na	0.242	274.8	28.82	12.63
111	2007	1	2115	52.76	na	0.449	311.4	17.31	12.64
111	2007	1	2130	53.32	na	0.476	325.5	25.12	12.64
111	2007	1	2145	53.28	na	0.449	340.8	23.21	12.64
111	2007	1	2200	52.81	na	0.521	1.24	29.93	12.63
111	2007	1	2215	51.84	na	1.628	349.9	23.29	12.64
111	2007	1	2230	51.32	na	4.378	0.426	24.74	12.63
111	2007	1	2245	51.11	na	4.553	350.3	27.84	12.64
111	2007	1	2300	51.15	na	4.865	346.6	29.65	12.63
111	2007	1	2315	51.11	na	4.925	340.1	29.09	12.64
111	2007	1	2330	50.88	na	4.622	337.3	24.36	12.64
111	2007	1	2345	50.71	na	4.227	336.7	27.45	12.63
111	2007	1	2400	50.42	na	4.36	338.5	28.46	12.63
111	2007	2	15	50.33	na	4.897	325.1	30.79	12.63
111	2007	2	30	50.34	na	5.078	319.5	23.25	12.63
111	2007	2	45	50.35	na	5.231	322.9	22.88	12.63
111	2007	2	100	50.36	na	5.457	331.1	24.97	12.61
111	2007	2	115	50.26	na	4.919	331.3	27.97	12.63
111	2007	2	130	50.02	na	4.67	329	31.08	12.63
111	2007	2	145	49.87	na	5.235	337.9	28.13	12.63
111	2007	2	200	49.69	na	5.459	328	31.79	12.61
111	2007	2	215	49.47	na	5.362	329.8	34.87	12.63
111	2007	2	230	49.16	na	6.123	340.7	30.23	12.63
111	2007	2	245	48.83	na	5.883	342.2	35.22	12.61
111	2007	2	300	48.22	na	5.439	347.6	31.11	12.61
111	2007	2	315	47.59	na	4.94	342.7	31.15	12.62
111	2007	2	330	47	na	4.998	323.3	21.7	12.61
111	2007	2	345	46.69	na	5.859	330.2	29.07	12.61
111	2007	2	400	46.53	na	5.809	339.8	23.75	12.6
111	2007	2	415	46.3	na	5.42	323.8	24.2	12.61
111	2007	2	430	46.09	na	5.286	336.9	30.04	12.6
111	2007	2	445	45.71	na	4.901	324.1	25.47	12.6
111	2007	2	500	45.72	na	5.177	320	30.12	12.59
111	2007	2	515	45.71	na	7.58	324.6	29.06	12.59
111	2007	2	530	45.12	na	6.646	324.4	29.5	12.59
111	2007	2	545	44.61	na	5.763	320.7	30.96	12.59
111	2007	2	600	44.28	na	6.68	315.6	25.08	12.58

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	2	615	43.95	na	6.054	319.7	29.69	12.59
111	2007	2	630	43.73	na	6.282	334.4	30.03	12.59
111	2007	2	645	43.58	na	5.748	321.9	28.46	12.59
111	2007	2	700	43.61	na	6.769	324.7	28.87	12.57
111	2007	2	715	43.63	na	6.918	328.5	30.69	12.58
111	2007	2	730	43.6	na	7.33	329.7	27.91	12.58
111	2007	2	745	43.65	na	7.85	330.1	33.37	12.57
111	2007	2	800	43.43	na	7.53	333.7	30.6	12.57
111	2007	2	815	43.37	na	8.59	336.6	31.67	12.57
111	2007	2	830	42.97	na	9.09	335.3	33.08	12.57
111	2007	2	845	42.63	na	8.06	340.1	30.91	12.72
111	2007	2	900	42.56	na	9.42	336	27.51	13.32
111	2007	2	915	42.35	na	8.99	337.4	27.02	13.75
111	2007	2	930	42.11	na	8.78	350.9	36.52	13.74
111	2007	2	945	42.14	na	8.74	340.1	36.55	13.73
111	2007	2	1000	42.27	na	8.52	341.4	29.96	13.72
111	2007	2	1015	42.1	na	10.37	354.6	33.37	13.72
111	2007	2	1030	42.06	na	10.55	349.2	26	13.72
111	2007	2	1045	41.93	na	11.22	347.7	36.83	13.72
111	2007	2	1100	42.38	na	9.16	348	31.45	13.71
111	2007	2	1115	42.72	na	9.22	347.8	37.26	13.71
111	2007	2	1130	42.57	na	10.95	0.248	34.6	13.71
111	2007	2	1145	43.14	na	8.29	358.2	31.01	13.71
111	2007	2	1200	43.36	na	9.91	348.6	31.47	13.7
111	2007	2	1215	43.44	na	9.66	346.3	32.93	13.7
111	2007	2	1230	43.63	na	9.04	340.6	31.88	13.7
111	2007	2	1245	43.82	na	10.75	347.4	34.42	13.7
111	2007	2	1300	44.05	na	11.1	348.9	27.53	13.7
111	2007	2	1315	44.95	na	8.83	347.6	35.88	13.7
111	2007	2	1330	44.98	na	8.06	341.6	31.62	13.71
111	2007	2	1345	45.22	na	8.91	347.1	33.7	13.71
111	2007	2	1400	44.99	na	9.73	350.6	33.51	13.7
111	2007	2	1415	45.44	na	8.44	341.8	31.2	13.71
111	2007	2	1430	45.72	na	8.22	358.3	27.04	13.71
111	2007	2	1445	46.27	na	8.3	351.5	38.76	13.7
111	2007	2	1500	45.9	na	7.57	344.5	35.25	13.69
111	2007	2	1515	46.35	na	7.43	347.6	37.01	13.69
111	2007	2	1530	46.07	na	8.97	346.3	36.4	13.69
111	2007	2	1545	45.96	na	8.94	354.1	29.5	13.69
111	2007	2	1600	45.97	na	8.79	345.4	31.49	13.68
111	2007	2	1615	45.61	na	9.39	336.3	29.53	13.69
111	2007	2	1630	45.44	na	7.79	346.4	30.49	13.7
111	2007	2	1645	45.1	na	7.75	342.5	34.66	13.7
111	2007	2	1700	44.79	na	7.14	352.7	35.15	13.71
111	2007	2	1715	44.46	na	7.99	347.2	33.27	13.72
111	2007	2	1730	43.95	na	8	344.7	33.51	13.25
111	2007	2	1745	43.48	na	7.49	353	30.62	13.11
111	2007	2	1800	43.11	na	7.2	349.9	29.03	13.04
111	2007	2	1815	42.83	na	6.215	342.6	34.21	13.01
111	2007	2	1830	42.32	na	3.807	329.1	28.9	12.97
111	2007	2	1845	41.94	na	3.881	320.8	22.2	12.95
111	2007	2	1900	41.5	na	3.629	311.6	21.06	12.92
111	2007	2	1915	41.39	na	4.177	327	29.8	12.91
111	2007	2	1930	41.25	na	3.859	321.5	29.61	12.9
111	2007	2	1945	40.93	na	3.326	315.9	24.76	12.89
111	2007	2	2000	40.76	na	2.812	312.7	30.68	12.87
111	2007	2	2015	40.5	na	2.865	311	23.28	12.87
111	2007	2	2030	40.11	na	3.289	285.5	12.42	12.86
111	2007	2	2045	39.75	na	2.657	310.7	21.77	12.85
111	2007	2	2100	39.69	na	3.499	292.2	22.32	12.83

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	2	2115	38.92	na	2.585	279.8	14.21	12.84
111	2007	2	2130	38.73	na	2.009	313.3	24.32	12.83
111	2007	2	2145	38.67	na	2.537	292.2	21.36	12.83
111	2007	2	2200	37.65	na	1.885	304.3	14.15	12.81
111	2007	2	2215	37.4	na	1.853	308.4	14.41	12.82
111	2007	2	2230	36.23	na	0.928	312.4	8.04	12.81
111	2007	2	2245	35.22	na	0.986	290	11.75	12.8
111	2007	2	2300	33.84	na	0.801	295.1	10.39	12.78
111	2007	2	2315	33.13	na	0.929	284.4	9.46	12.78
111	2007	2	2330	32.48	na	0.304	293	6.442	12.78
111	2007	2	2345	32.22	na	0.509	296.2	8.93	12.77
111	2007	2	2400	31.88	na	0.181	299.6	4.385	12.75
111	2007	3	15	31.74	na	0.766	328	22.31	12.76
111	2007	3	30	31.46	na	0.214	351.3	8.47	12.75
111	2007	3	45	30.66	na	0.018	289.1	0.331	12.75
111	2007	3	100	30.2	na	na	na	na	12.73
111	2007	3	115	30.03	na	na	na	na	12.74
111	2007	3	130	29.54	na	na	na	na	12.73
111	2007	3	145	30.03	na	0.221	358.3	4.98	12.73
111	2007	3	200	29.67	na	0.027	296.4	0.088	12.71
111	2007	3	215	29.55	na	0.63	295	39.6	12.72
111	2007	3	230	29.1	na	0.794	279.7	12.15	12.72
111	2007	3	245	28.95	na	na	na	na	12.71
111	2007	3	300	28.72	na	na	na	na	12.7
111	2007	3	315	28.8	na	0.222	41.9	5.051	12.71
111	2007	3	330	28.7	na	0.274	334	23.18	12.71
111	2007	3	345	28.21	na	na	na	na	12.7
111	2007	3	400	28.09	na	0.009	281.9	0	12.69
111	2007	3	415	27.86	na	0.009	257.4	0.005	12.69
111	2007	3	430	27.77	na	0.249	343.1	8.57	12.69
111	2007	3	445	27.57	na	0.054	340.3	8.44	12.69
111	2007	3	500	27.32	na	0.617	27.04	6.813	12.67
111	2007	3	515	27.3	na	na	na	na	12.68
111	2007	3	530	27.16	na	0.109	331.7	10.25	12.68
111	2007	3	545	27.16	na	0.132	47.44	1.196	12.68
111	2007	3	600	27.33	na	0.698	19.2	7.16	12.67
111	2007	3	615	27.66	na	0.775	326	47.65	12.67
111	2007	3	630	27.28	na	0.669	8.94	6.64	12.67
111	2007	3	645	27.29	na	na	na	na	12.67
111	2007	3	700	27.36	na	0.048	353.1	1.081	12.66
111	2007	3	715	26.97	na	0.085	294.8	1.993	12.67
111	2007	3	730	26.73	na	0.053	292.2	1.717	12.67
111	2007	3	745	26.84	na	0.931	286.9	8.9	12.67
111	2007	3	800	26.75	na	0.009	297.8	0.002	12.65
111	2007	3	815	26.96	na	na	na	na	12.67
111	2007	3	830	27.63	na	0.224	307.9	8.84	12.67
111	2007	3	845	28.56	na	0.157	314.7	6.224	12.67
111	2007	3	900	29.18	na	0.098	306.4	3.387	12.84
111	2007	3	915	30.63	na	0.39	310.1	11.68	13.27
111	2007	3	930	32.74	na	1.229	298.2	18.06	13.65
111	2007	3	945	34.33	na	0.853	290.4	24.24	14.01
111	2007	3	1000	35.39	na	1.728	279.9	17.69	13.99
111	2007	3	1015	36.41	na	3.12	274.1	15.69	13.98
111	2007	3	1030	37.54	na	3.565	264.8	18.8	13.96
111	2007	3	1045	38.97	na	4.712	278.2	16.98	13.93
111	2007	3	1100	40.48	na	4.213	267.2	21.48	13.9
111	2007	3	1115	41.71	na	4.835	258.4	22.73	13.88
111	2007	3	1130	42.74	na	4.931	261.4	21.33	13.85
111	2007	3	1145	43.98	na	6.72	262.7	20.73	13.83
111	2007	3	1200	44.61	na	6.656	261.3	22.7	13.8

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	3	1215	45.42	na	7.6	260.8	21.4	13.78
111	2007	3	1230	46.02	na	8.69	266	19.72	13.76
111	2007	3	1245	46.19	na	9.29	264.5	18.32	13.75
111	2007	3	1300	46.34	na	10.77	267.8	24.36	13.73
111	2007	3	1315	46.56	na	10.01	264.3	22.94	13.73
111	2007	3	1330	46.55	na	9.93	265.4	19.98	13.73
111	2007	3	1345	46.6	na	10.88	269.5	20.43	13.73
111	2007	3	1400	46.43	na	11.82	262	19.65	13.72
111	2007	3	1415	46.51	na	10.67	262.5	20.36	13.73
111	2007	3	1430	46.53	na	10.78	266.6	19.58	13.72
111	2007	3	1445	46.95	na	8.82	258.1	21.44	13.71
111	2007	3	1500	47.2	na	8.16	266	21.59	13.7
111	2007	3	1515	47.42	na	8.14	258.8	23.42	13.7
111	2007	3	1530	47.85	na	7.85	262.3	20.09	13.69
111	2007	3	1545	48.05	na	8.43	263.9	22.14	13.69
111	2007	3	1600	48.23	na	7.87	262.4	21.91	13.68
111	2007	3	1615	48.21	na	8.75	262.2	19.33	13.69
111	2007	3	1630	48.04	na	7.65	264.6	22.57	13.68
111	2007	3	1645	47.85	na	7.24	258.4	22.64	13.68
111	2007	3	1700	47.35	na	6.63	254	23.57	13.69
111	2007	3	1715	46.82	na	6.817	254.2	20.47	13.71
111	2007	3	1730	46.51	na	6.209	255.1	18.83	13.22
111	2007	3	1745	46.09	na	6.242	255.4	23.58	13.09
111	2007	3	1800	45.93	na	6.636	254.6	20.36	13.02
111	2007	3	1815	45.86	na	6.07	258.9	24.4	12.99
111	2007	3	1830	46.12	na	6.869	263.1	19.84	12.96
111	2007	3	1845	46.13	na	6.922	265.9	20.07	12.94
111	2007	3	1900	46.28	na	7.19	268.9	19.42	12.91
111	2007	3	1915	46.52	na	7.27	273.8	17.4	12.91
111	2007	3	1930	46.61	na	6.99	272.1	20.37	12.9
111	2007	3	1945	46.47	na	8.26	268.2	19.53	12.89
111	2007	3	2000	46.39	na	8.13	269.6	16.43	12.87
111	2007	3	2015	46.39	na	8.18	268.6	17.15	12.87
111	2007	3	2030	46.26	na	6.898	274	18.71	12.87
111	2007	3	2045	45.97	na	6.565	267.8	19.25	12.87
111	2007	3	2100	45.69	na	6.06	270.4	18.19	12.85
111	2007	3	2115	45.59	na	5.801	273.6	17.44	12.85
111	2007	3	2130	45.8	na	6.735	274.2	16.49	12.85

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	3	2145	45.68	na	6.582	272.4	16.93	12.85
111	2007	3	2200	45.55	na	6.724	273.1	15.13	12.83
111	2007	3	2215	45.35	na	6.646	272.6	16.99	12.84
111	2007	3	2230	45.18	na	7.09	274.7	16.79	12.83
111	2007	3	2245	45.11	na	7.44	278.9	16.93	12.83
111	2007	3	2300	44.96	na	7.1	276.4	17.04	12.81
111	2007	3	2315	44.5	na	5.825	276.5	16.18	12.82
111	2007	3	2330	44.07	na	5.746	275.2	16.14	12.81
111	2007	3	2345	43.63	na	5.435	268.7	16.26	12.81
111	2007	3	2400	43.59	na	5.213	274.4	20.18	12.79
111	2007	4	15	43.45	na	4.032	273	14.92	12.8
111	2007	4	30	43.11	na	4.499	273.6	17.48	12.79
111	2007	4	45	42.84	na	4.265	268	16.44	12.79
111	2007	4	100	42.34	na	3.126	269.8	16.46	12.77
111	2007	4	115	42.07	na	3.342	282.7	13.25	12.78
111	2007	4	130	41.75	na	2.955	281.7	12.19	12.77
111	2007	4	145	41.08	na	2.295	281.4	9.28	12.77
111	2007	4	200	40.23	na	1.716	283.6	10.48	12.75
111	2007	4	215	39.6	na	2.154	288.6	10.69	12.75
111	2007	4	230	40.01	na	3.215	290.7	17.03	12.75
111	2007	4	245	40.9	na	3.784	284.8	17.93	12.74
111	2007	4	300	41.61	na	4.408	282	20.96	12.73
111	2007	4	315	41.41	na	3.953	263.7	19.63	12.74
111	2007	4	330	41.25	na	4.68	266.1	18.54	12.73
111	2007	4	345	41.25	na	4.652	273.9	18.29	12.73
111	2007	4	400	41.04	na	4.181	279.6	18.15	12.72
111	2007	4	415	40.85	na	4.346	278.7	17.71	12.73
111	2007	4	430	40.67	na	4.135	282.5	14.44	12.73
111	2007	4	445	40.26	na	3.541	279.5	14.96	12.73
111	2007	4	500	39.93	na	3.309	283	13.12	12.71
111	2007	4	515	39.12	na	2.808	276.4	12.09	12.72
111	2007	4	530	38.76	na	2.647	280.3	11.97	12.71
111	2007	4	545	38.95	na	2.977	279.1	15.2	12.71
111	2007	4	600	39.26	na	2.788	265	18.74	12.69
111	2007	4	615	39.51	na	2.281	255.8	16.73	12.71
111	2007	4	630	39.77	na	3.577	266.5	16.94	12.7
111	2007	4	645	40.74	na	4.463	270.1	19.57	12.7
111	2007	4	700	41.04	na	4.678	271.1	16.89	12.69
111	2007	4	715	41.37	na	4.306	267	17.83	12.7
111	2007	4	730	41.31	na	4.114	273.3	16.74	12.7
111	2007	4	745	41.42	na	4.833	273.4	20.24	12.7
111	2007	4	800	41.98	na	5.328	272.4	17.6	12.69
111	2007	4	815	42.21	na	3.949	260.2	19.58	12.7
111	2007	4	830	42.44	na	4.177	252.1	21.27	12.7
111	2007	4	845	43.08	na	5.199	259.9	18.88	12.71
111	2007	4	900	43.81	na	5.35	259.2	20.1	12.71
111	2007	4	915	44.24	na	5.024	272.5	19.3	12.94
111	2007	4	930	44.69	na	5.455	272.4	17.29	13.79
111	2007	4	945	45.43	na	6.525	274.5	18.29	13.17
111	2007	4	1000	45.99	na	7.24	274.2	17.99	13.22
111	2007	4	1015	46.37	na	6.777	277	22.3	13.53
111	2007	4	1030	47.06	na	7.33	268.7	18.2	13.73
111	2007	4	1045	47.69	na	7.56	272.1	17.97	13.72
111	2007	4	1100	47.46	na	8.09	265.7	21.49	13.71
111	2007	4	1115	47.75	na	7.96	270	19.27	13.71
111	2007	4	1130	47.76	na	8.18	264.9	19.75	13.71
111	2007	4	1145	48.07	na	8.78	272.5	18.74	13.7
111	2007	4	1200	48.26	na	9.57	275.7	17.47	13.69
111	2007	4	1215	48.93	na	8.21	262.3	21.69	13.68
111	2007	4	1230	49.17	na	7.3	268.7	23.16	13.67

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	4	1245	49.13	na	8.51	256.3	21.44	13.67
111	2007	4	1300	49.9	na	8.24	263	25.51	13.65
111	2007	4	1315	50.02	na	8.29	268.1	21.85	13.66
111	2007	4	1330	51.07	na	7.23	255.1	21.71	13.65
111	2007	4	1345	51.12	na	7.01	262.6	22.83	13.65
111	2007	4	1400	50.89	na	7.23	272.3	20.43	13.64
111	2007	4	1415	51.67	na	7.88	275.9	19.72	13.65
111	2007	4	1430	52.39	na	7.7	265.8	20.5	13.64
111	2007	4	1445	52.46	na	7.86	257.1	22.83	13.63
111	2007	4	1500	52	na	7.94	267.6	20.39	13.62
111	2007	4	1515	52.17	na	7.23	253.3	21.91	13.62
111	2007	4	1530	51.93	na	7.99	256.4	22.69	13.62
111	2007	4	1545	51.99	na	6.682	253.5	19.79	13.62
111	2007	4	1600	52.06	na	6.66	258.4	23.35	13.62
111	2007	4	1615	52.24	na	5.62	254.8	23.76	13.62
111	2007	4	1630	52.03	na	6.405	266.5	22.29	13.62
111	2007	4	1645	51.95	na	4.849	250.9	22.67	13.62
111	2007	4	1700	50.47	na	5.086	251.9	23.33	13.63
111	2007	4	1715	49.13	na	3.638	248.7	23.29	13.65
111	2007	4	1730	48.03	na	3.69	254.2	17.8	13.18
111	2007	4	1745	47.47	na	3.627	265.5	19.51	13.07
111	2007	4	1800	47.23	na	3.462	269.5	21.67	13
111	2007	4	1815	46.98	na	3.472	262.4	15.77	12.97
111	2007	4	1830	46.89	na	3.481	275.9	13.91	12.95
111	2007	4	1845	46.89	na	3.219	277.4	16.13	12.92
111	2007	4	1900	46.78	na	3.04	281.6	13.98	12.9
111	2007	4	1915	46.99	na	4.412	280.8	14.19	12.89
111	2007	4	1930	47.03	na	3.64	270.1	20.13	12.88
111	2007	4	1945	47.19	na	3.434	270.6	19.23	12.87
111	2007	4	2000	47.27	na	3.74	276.6	14.45	12.85
111	2007	4	2015	47.21	na	2.923	269.5	17.64	12.85
111	2007	4	2030	46.93	na	2.615	276.4	14.9	12.85
111	2007	4	2045	46.68	na	2.09	270.6	21.55	12.85
111	2007	4	2100	46.46	na	2.156	274.6	16.9	12.83
111	2007	4	2115	46.66	na	2.913	282	17.18	12.83
111	2007	4	2130	46.8	na	1.836	279.3	14.24	12.83
111	2007	4	2145	46.42	na	1.215	267.8	23.41	12.83
111	2007	4	2200	45.89	na	1.887	257.5	15.61	12.81
111	2007	4	2215	46.08	na	3.14	273.9	16.15	12.81
111	2007	4	2230	46.5	na	3.277	259.8	16.49	12.81
111	2007	4	2245	46.78	na	2.794	259.2	18.34	12.81
111	2007	4	2300	46.93	na	2.211	256.8	22.26	12.8
111	2007	4	2315	46.93	na	3.136	255.1	18.16	12.81
111	2007	4	2330	47.19	na	2.748	257.1	19.68	12.8
111	2007	4	2345	47.52	na	2.414	261.7	19.75	12.8
111	2007	4	2400	47.61	na	2.992	262.8	18.65	12.79
111	2007	5	15	47.86	na	2.245	268.5	22.83	12.8
111	2007	5	30	48.46	na	3.271	253	22.14	12.79
111	2007	5	45	48.24	na	3.229	250.3	18.33	12.79
111	2007	5	100	47.85	na	3.122	247.2	19.66	12.78
111	2007	5	115	47.68	na	4.181	260.2	20.12	12.79
111	2007	5	130	47.75	na	3.845	259.5	20.46	12.79
111	2007	5	145	47.86	na	3.7	262.8	15.09	12.79
111	2007	5	200	47.87	na	3.287	259	19.73	12.77
111	2007	5	215	47.88	na	3.299	257.1	18.73	12.78
111	2007	5	230	47.7	na	2.493	254.2	23.5	12.77
111	2007	5	245	47.67	na	2.971	246.2	18.46	12.77
111	2007	5	300	47.47	na	1.956	241.5	16.22	12.76
111	2007	5	315	47.12	na	1.526	246	18.05	12.77
111	2007	5	330	46.92	na	1.227	253.6	15.31	12.76

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	5	345	46.92	na	2.057	253.7	19.01	12.75
111	2007	5	400	47.09	na	2.452	250.1	19.26	12.74
111	2007	5	415	47.6	na	3.474	257.8	18.46	12.75
111	2007	5	430	48.04	na	3.992	259.4	18.48	12.75
111	2007	5	445	48.48	na	3.976	255.5	23.43	12.75
111	2007	5	500	48.89	na	4.455	263.4	19.89	12.73
111	2007	5	515	49.41	na	4.628	253.2	18.12	12.74
111	2007	5	530	49.84	na	5.109	258.8	16.37	12.74
111	2007	5	545	50.3	na	5	267	20.48	12.74
111	2007	5	600	50.64	na	4.724	262.9	23.69	12.73
111	2007	5	615	50.73	na	4.12	260	19.88	12.74
111	2007	5	630	50.58	na	4.841	261.3	19.01	12.74
111	2007	5	645	50.49	na	4.467	258.4	19.25	12.74
111	2007	5	700	50.4	na	4.37	252.3	24.89	12.73
111	2007	5	715	50.43	na	4.102	242.8	21.43	12.74
111	2007	5	730	50.47	na	4.927	244.2	25.08	12.74
111	2007	5	745	50.68	na	4.879	249.9	21.82	12.74
111	2007	5	800	50.97	na	5.885	255.8	25.29	12.73
111	2007	5	815	51.06	na	5.867	265.5	21.48	12.74
111	2007	5	830	51.08	na	5.877	256.5	22.38	12.73
111	2007	5	845	51.25	na	6.221	253.6	20.52	12.73
111	2007	5	900	51.45	na	6.612	241.3	23.51	12.72
111	2007	5	915	51.87	na	6.821	246.9	22.51	12.74
111	2007	5	930	51.95	na	6.568	242.2	25.62	12.74
111	2007	5	945	51.95	na	7.67	245.9	22.91	12.78
111	2007	5	1000	52.08	na	7.72	251.9	23.17	12.81
111	2007	5	1015	52.37	na	7.75	252.4	26.22	12.85
111	2007	5	1030	52.66	na	7.87	257	24.97	12.94
111	2007	5	1045	52.72	na	7.3	260.8	23.52	13.08
111	2007	5	1100	52.79	na	7.66	257.6	21.56	13
111	2007	5	1115	52.7	na	7.55	263.7	19.71	13.16
111	2007	5	1130	52.85	na	6.767	273.6	18.94	13.41
111	2007	5	1145	53	na	7.66	269.7	19.51	13.62
111	2007	5	1200	52.92	na	6.735	270.6	19.13	13.61
111	2007	5	1215	52.93	na	7.08	269.8	20.46	13.62
111	2007	5	1230	52.87	na	5.523	265.6	22.2	13.46
111	2007	5	1245	52.68	na	5.571	263.6	19.63	13.44
111	2007	5	1300	52.56	na	5.155	258.5	21.51	13.3
111	2007	5	1315	52.17	na	6.62	258.2	19.98	13.52
111	2007	5	1330	52.19	na	5.443	263.8	19.96	13.62
111	2007	5	1345	52.68	na	4.777	260.5	22.62	13.62
111	2007	5	1400	52.72	na	5.127	258.1	21.32	13.49
111	2007	5	1415	52.51	na	4.978	262.6	19.27	13.62
111	2007	5	1430	52.48	na	5.996	263	21.99	13.6
111	2007	5	1445	52.63	na	5.086	266.4	21.62	13.34
111	2007	5	1500	52.99	na	4.652	264.2	21.46	13.62
111	2007	5	1515	53.41	na	4.779	270	21.05	13.62
111	2007	5	1530	53.73	na	5.708	264.4	19.36	13.61
111	2007	5	1545	54.02	na	5.771	260.5	20.37	13.2
111	2007	5	1600	53.7	na	5.243	255.5	19.62	13.06
111	2007	5	1615	53.46	na	4.467	254.6	24.47	13.02
111	2007	5	1630	53.2	na	4.607	258.2	23.24	12.98
111	2007	5	1645	52.83	na	5.149	250.8	21.17	12.96
111	2007	5	1700	52.19	na	6.026	252.4	20.27	12.93
111	2007	5	1715	51.83	na	6.097	257	20.98	12.92
111	2007	5	1730	51.69	na	5.01	252.6	22.24	12.91
111	2007	5	1745	51.41	na	4.056	251.2	23.17	12.9
111	2007	5	1800	51.4	na	3.33	257.7	21.28	12.88
111	2007	5	1815	51.37	na	4.851	244.1	22.78	12.89
111	2007	5	1830	51.24	na	4.243	248.4	29.43	12.88

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	5	1845	51.58	na	4.964	252.6	21.89	12.88
111	2007	5	1900	51.59	na	5.304	262.7	19.5	12.86
111	2007	5	1915	51.56	na	5.088	257.7	21.68	12.86
111	2007	5	1930	51.85	na	5.191	259.6	21.03	12.86
111	2007	5	1945	51.95	na	4.935	264.7	19.98	12.86
111	2007	5	2000	51.91	na	6.262	260.5	24.2	12.84
111	2007	5	2015	51.83	na	6.034	264.8	20.74	12.84
111	2007	5	2030	52	na	5.424	269.6	20.33	12.84
111	2007	5	2045	52	na	5.801	248.4	19.25	12.84
111	2007	5	2100	51.84	na	4.843	255.5	18	12.82
111	2007	5	2115	51.65	na	5.769	251.6	23.39	12.82
111	2007	5	2130	51.77	na	5.044	257.4	23.32	12.82
111	2007	5	2145	52.12	na	6.163	244.9	21.06	12.82
111	2007	5	2200	52.14	na	5.966	247	21.19	12.8
111	2007	5	2215	51.94	na	5.763	238.6	20.83	12.8
111	2007	5	2230	51.57	na	6.117	237.4	22.3	12.8
111	2007	5	2245	51.51	na	6.123	239.6	22.57	12.79
111	2007	5	2300	51.74	na	6.714	247.1	21.54	12.78
111	2007	5	2315	51.9	na	6.976	249.2	23.03	12.78
111	2007	5	2330	51.97	na	8.13	242.5	20.86	12.78
111	2007	5	2345	51.88	na	6.646	246.9	21.12	12.77
111	2007	5	2400	52.24	na	6.785	250.8	26.73	12.76
111	2007	6	15	52.33	na	6.904	248	21.88	12.76
111	2007	6	30	52.09	na	6.537	250.3	24.35	12.76
111	2007	6	45	51.79	na	4.563	254	27.02	12.75
111	2007	6	100	51.7	na	5.569	246.2	22.19	12.74
111	2007	6	115	51.54	na	5.004	255	22.34	12.74
111	2007	6	130	51.54	na	5.771	246.6	19.68	12.74
111	2007	6	145	51.67	na	6.449	237.8	20.57	12.73
111	2007	6	200	51.87	na	7.07	236.2	23.99	12.72
111	2007	6	215	52.74	na	7.32	240.5	24.31	12.73
111	2007	6	230	52.7	na	8.19	239.7	20.93	12.72
111	2007	6	245	52.34	na	6.523	249.1	24.1	12.72
111	2007	6	300	52.19	na	6.503	243.6	22.04	12.72
111	2007	6	315	52.04	na	7.28	242.7	23.47	12.72
111	2007	6	330	51.95	na	7.91	256.3	22.74	12.72
111	2007	6	345	52.34	na	8.29	254.6	24.66	12.72
111	2007	6	400	52.54	na	6.904	245.8	22.57	12.71
111	2007	6	415	52.75	na	9.02	243.5	21.5	12.72
111	2007	6	430	52.78	na	8.05	242	18.65	12.72
111	2007	6	445	53	na	9.01	256.6	21.73	12.72
111	2007	6	500	52.56	na	8.79	253.5	26.73	12.7
111	2007	6	515	52.43	na	7.86	257.7	20.05	12.72
111	2007	6	530	52.3	na	7.36	252.5	21.15	12.72
111	2007	6	545	52.21	na	6.618	249.3	21.36	12.71
111	2007	6	600	52.07	na	6.889	246.4	24.01	12.7
111	2007	6	615	52.62	na	6.576	242.3	21.15	12.71
111	2007	6	630	52.92	na	6.839	251.4	20.79	12.71
111	2007	6	645	52.82	na	8.33	251.5	23.16	12.71
111	2007	6	700	53.79	na	9.2	257	21.88	12.7
111	2007	6	715	54.38	na	8.23	251.9	24.64	12.71
111	2007	6	730	54.03	na	8.06	256.4	21.03	12.71
111	2007	6	745	54.13	na	8.67	248.8	23.24	12.71
111	2007	6	800	54.31	na	9.72	250.5	23.86	12.7
111	2007	6	815	54.19	na	8.23	257.7	22.15	12.71
111	2007	6	830	53.78	na	7.4	256.8	22.99	12.71
111	2007	6	845	53.49	na	6.726	260	29.09	12.71
111	2007	6	900	53.35	na	6.918	254.8	24.03	12.7
111	2007	6	915	53.35	na	7.19	251.1	24.08	12.71
111	2007	6	930	53.72	na	8.57	259.7	24.53	12.71

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	6	945	54.52	na	9.78	262.2	22.16	12.71
111	2007	6	1000	54.62	na	8.8	262.7	22.35	12.72
111	2007	6	1015	54.34	na	8.16	265.4	18.51	12.72
111	2007	6	1030	54.57	na	7.78	262.7	22.82	12.82
111	2007	6	1045	55	na	7.92	255.4	23.62	12.74
111	2007	6	1100	54.97	na	8.18	262.8	24.36	12.83
111	2007	6	1115	54.75	na	7.87	274	19.55	12.88
111	2007	6	1130	54.65	na	7.49	271.8	21.72	13.01
111	2007	6	1145	54.45	na	8.36	270.1	21.65	13.02
111	2007	6	1200	54.8	na	6.67	267.7	22.42	13.32
111	2007	6	1215	54.93	na	7.78	270	23.4	13.42
111	2007	6	1230	54.45	na	7.06	267.7	22.65	13.44
111	2007	6	1245	54.16	na	7.35	264.2	23.98	13.57
111	2007	6	1300	53.92	na	7.07	259.9	20.93	13.56
111	2007	6	1315	53.53	na	8.13	254.3	18.28	13.57
111	2007	6	1330	53.21	na	8.01	263.9	20.96	13.57
111	2007	6	1345	53.99	na	5.837	261.6	19.49	13.56
111	2007	6	1400	55.37	na	6.24	251.3	18.87	13.55
111	2007	6	1415	56.77	na	7.46	265.5	19.63	13.54
111	2007	6	1430	58.42	na	6.37	264	20.8	13.53
111	2007	6	1445	60	na	5.533	263.6	19.88	13.52
111	2007	6	1500	61.83	na	4.94	250.5	22.69	13.5
111	2007	6	1515	63.52	na	4.104	243.1	21.96	13.5
111	2007	6	1530	64.76	na	5.096	240.3	18.89	13.48
111	2007	6	1545	65.18	na	6.336	252.3	20.9	13.47
111	2007	6	1600	65.64	na	6.471	261.1	20.25	13.46
111	2007	6	1615	65.03	na	6.477	252.2	21.22	13.46
111	2007	6	1630	63.41	na	6.179	255.2	20.18	13.47
111	2007	6	1645	66	na	8.8	290.9	25.46	13.29
111	2007	6	1700	69.12	na	9.33	299.9	24.31	13.45
111	2007	6	1715	68.92	na	9.93	294.5	20.67	13.45
111	2007	6	1730	68.34	na	8.35	300.8	21.04	13.11
111	2007	6	1745	67.71	na	7.95	296.2	20.75	13.05
111	2007	6	1800	67.13	na	6.473	298.9	29.12	13
111	2007	6	1815	67.06	na	9.43	303.1	27.57	12.99
111	2007	6	1830	66.33	na	6.034	306.4	29.96	12.97
111	2007	6	1845	65.82	na	6.35	300.9	27.38	12.96
111	2007	6	1900	65.22	na	5.054	301.1	28.69	12.94
111	2007	6	1915	64.67	na	5.473	314.6	28.94	12.94
111	2007	6	1930	64.73	na	6.117	316.3	25.84	12.92
111	2007	6	1945	64.53	na	7.85	320.4	29.51	12.92
111	2007	6	2000	64.27	na	7.93	320	26.01	12.9
111	2007	6	2015	63.66	na	8.95	318.2	31.22	12.91
111	2007	6	2030	63.1	na	10.14	316	30.99	12.9
111	2007	6	2045	62.38	na	7.75	303.9	32.08	12.9
111	2007	6	2100	61.6	na	6.447	309.6	24.07	12.87
111	2007	6	2115	61.04	na	7.06	313.4	28.05	12.88
111	2007	6	2130	60.56	na	6.197	308.7	24.45	12.88
111	2007	6	2145	60.4	na	8.83	307.7	20.96	12.88
111	2007	6	2200	60.19	na	7.86	311.5	23.54	12.86
111	2007	6	2215	59.81	na	8.15	314.4	26.17	12.86
111	2007	6	2230	59.25	na	6.314	314.3	33.21	12.86
111	2007	6	2245	58.68	na	5.893	309	30.29	12.85
111	2007	6	2300	58.32	na	6.346	306.5	24.76	12.84
111	2007	6	2315	57.99	na	6.123	297.6	23.57	12.84
111	2007	6	2330	57.66	na	6.33	302.6	25.48	12.84
111	2007	6	2345	57.3	na	5.909	314.8	27.9	12.83
111	2007	6	2400	57.13	na	7.42	314.4	24.78	12.82
111	2007	7	15	56.7	na	4.438	309.9	25.68	12.82
111	2007	7	30	55.95	na	5.113	316.8	30.35	12.82

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	7	45	55.59	na	6.153	314.9	28.84	12.81
111	2007	7	100	55.59	na	6.956	323.1	27.6	12.8
111	2007	7	115	55.4	na	5.241	340.2	31.13	12.8
111	2007	7	130	55.19	na	5.616	333	32.81	12.8
111	2007	7	145	54.9	na	8.2	352.1	30.87	12.8
111	2007	7	200	53.72	na	6.916	353	31.69	12.78
111	2007	7	215	53.2	na	7.47	343.6	25.61	12.78
111	2007	7	230	52.95	na	7.03	325.1	33.42	12.78
111	2007	7	245	52.44	na	7.61	330.2	34.01	12.77
111	2007	7	300	52.01	na	8.62	337.3	34.62	12.75
111	2007	7	315	51.66	na	8.33	333.4	36.44	12.76
111	2007	7	330	51.23	na	7.29	339.7	29.42	12.74
111	2007	7	345	50.64	na	5.127	339.1	35.7	12.75
111	2007	7	400	50.02	na	5.233	334	26.76	12.73
111	2007	7	415	49.69	na	4.821	336.7	27.55	12.73
111	2007	7	430	49.28	na	4.634	329.2	33.46	12.72
111	2007	7	445	48.99	na	5.426	334.1	27.2	12.72
111	2007	7	500	48.94	na	6.622	342.7	29.02	12.7
111	2007	7	515	48.56	na	5.195	353.5	32.97	12.71
111	2007	7	530	48.09	na	4.434	343.4	31.43	12.7
111	2007	7	545	47.94	na	6.135	344.2	30.77	12.69
111	2007	7	600	47.76	na	4.869	347.4	30.1	12.67
111	2007	7	615	47.17	na	4.155	351.7	31.47	12.68
111	2007	7	630	46.83	na	6.976	357.5	25.28	12.67
111	2007	7	645	46.24	na	5.471	357.9	27.57	12.67
111	2007	7	700	45.54	na	5.624	358.1	26.38	12.65
111	2007	7	715	45.18	na	6.056	2.964	27.08	12.66
111	2007	7	730	44.6	na	3.784	350.9	29	12.65
111	2007	7	745	44.12	na	5.511	348	27.28	12.65
111	2007	7	800	43.74	na	5.044	358	29.97	12.63
111	2007	7	815	43.41	na	5.145	0.686	26.61	12.64
111	2007	7	830	43.01	na	3.418	357.2	29.72	12.63
111	2007	7	845	42.78	na	3.11	357.6	33.14	12.67
111	2007	7	900	43.15	na	2.728	354.2	29.33	13.79
111	2007	7	915	43.77	na	3.133	358.6	32.93	13.77
111	2007	7	930	44.29	na	3.925	21.76	24.77	13.75
111	2007	7	945	44.77	na	4.706	17.41	33.08	13.74
111	2007	7	1000	45.21	na	5.078	32.08	20.45	13.72
111	2007	7	1015	45.3	na	5.394	7.54	26.55	13.71
111	2007	7	1030	45.29	na	6.491	7.38	25.91	13.71
111	2007	7	1045	45.42	na	5.602	26.81	25.61	13.71
111	2007	7	1100	45.65	na	5.008	28.44	26.72	13.69
111	2007	7	1115	45.84	na	4.308	10.32	33.99	13.69
111	2007	7	1130	46.11	na	4.298	49.95	33.98	13.69
111	2007	7	1145	46.22	na	4.505	13.3	24.87	13.69
111	2007	7	1200	46.57	na	4.076	61.26	31.38	13.67
111	2007	7	1215	46.66	na	4.4	36.13	22.79	13.67
111	2007	7	1230	46.75	na	4.475	60.03	32.31	13.67
111	2007	7	1245	47.36	na	3.285	46.2	69	13.66
111	2007	7	1300	47.53	na	3.694	31.06	39.39	13.65
111	2007	7	1315	47.95	na	4.11	47.22	49.57	13.65
111	2007	7	1330	48.52	na	3.084	33.25	57.58	13.65
111	2007	7	1345	47.89	na	3.932	66.92	28.8	13.66
111	2007	7	1400	48.9	na	2.646	31.21	54.38	13.65
111	2007	7	1415	48.65	na	2.93	64.65	72.8	13.66
111	2007	7	1430	48.61	na	2.634	31.03	24.49	13.65
111	2007	7	1445	48.93	na	3.623	207.2	30.71	13.65
111	2007	7	1500	48.55	na	4.742	217	27.77	13.64
111	2007	7	1515	48.61	na	4.618	203.9	22.96	13.65
111	2007	7	1530	48.2	na	5.06	201.5	18.97	13.65

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	7	1545	47.25	na	5.416	214.2	25	13.66
111	2007	7	1600	46.98	na	5.036	212.3	22.37	13.66
111	2007	7	1615	46.97	na	4.597	223.6	22.75	13.67
111	2007	7	1630	46.62	na	4.372	214.1	26.27	13.68
111	2007	7	1645	46.34	na	4.73	214.6	23.83	13.68
111	2007	7	1700	45.68	na	4.322	207.1	18.65	13.69
111	2007	7	1715	45.14	na	3.696	226.4	17.09	13.18
111	2007	7	1730	44.7	na	3.581	209.1	22.42	13.06
111	2007	7	1745	44.51	na	3.686	210.2	19.86	13
111	2007	7	1800	44.41	na	4.414	202.1	16.91	12.95
111	2007	7	1815	44.42	na	4.809	226.7	22.35	12.93
111	2007	7	1830	44.53	na	3.591	214.5	20.73	12.91
111	2007	7	1845	44.62	na	3.835	205.2	24.84	12.89
111	2007	7	1900	44.76	na	5.147	216.4	24.71	12.87
111	2007	7	1915	44.68	na	3.161	217.3	20.53	12.87
111	2007	7	1930	44.46	na	1.892	237.4	19.12	12.86
111	2007	7	1945	44.39	na	1.472	225.8	25.91	12.85
111	2007	7	2000	44.77	na	2.75	193.6	28.38	12.83
111	2007	7	2015	45.02	na	2.79	171.5	24.01	12.84
111	2007	7	2030	45.09	na	2.382	192.9	24.51	12.83
111	2007	7	2045	45.09	na	2.609	173.3	20.05	12.83
111	2007	7	2100	45.13	na	3.798	161.8	16.71	12.81
111	2007	7	2115	45.2	na	4.779	149.5	14.68	12.82
111	2007	7	2130	45.27	na	5.231	140.3	14.77	12.82
111	2007	7	2145	45.17	na	5.545	141.4	15.48	12.81
111	2007	7	2200	45.19	na	7.42	140.6	13.96	12.8
111	2007	7	2215	45.11	na	6.805	140	17.41	12.81
111	2007	7	2230	44.84	na	5.65	135.7	19.14	12.81
111	2007	7	2245	44.66	na	5.243	140.6	21.06	12.8
111	2007	7	2300	44.74	na	4.642	146	18.1	12.78
111	2007	7	2315	45.09	na	4.048	125.5	16.22	12.79
111	2007	7	2330	45.2	na	3.67	91.1	17.37	12.79
111	2007	7	2345	45.19	na	2.641	132.1	25.17	12.79
111	2007	7	2400	45.83	na	3.835	121.9	18.99	12.77
111	2007	8	15	46.3	na	4.68	131.5	18.64	12.78
111	2007	8	30	46.98	na	6.398	161.3	21.04	12.77
111	2007	8	45	47.36	na	8.27	148.3	18.73	12.77
111	2007	8	100	47.26	na	8.42	145.4	15.76	12.76
111	2007	8	115	47.21	na	9.23	145.2	18.04	12.77
111	2007	8	130	47.18	na	9.17	144.9	19.16	12.77
111	2007	8	145	47.21	na	10.79	141.7	16.16	12.76
111	2007	8	200	47.18	na	10.54	144.8	17.73	12.75
111	2007	8	215	47.16	na	10.35	145.9	18.1	12.75
111	2007	8	230	47.18	na	10.91	143.8	19.32	12.74
111	2007	8	245	47.27	na	11.05	142.5	15	12.74
111	2007	8	300	47.22	na	10.96	140.5	17.86	12.72
111	2007	8	315	47.14	na	10.71	140.7	16.04	12.72
111	2007	8	330	47.17	na	10.83	133.7	17.88	12.71
111	2007	8	345	47.12	na	10.62	134.4	18.39	12.71
111	2007	8	400	47.2	na	8.9	135.4	17.29	12.69
111	2007	8	415	47.49	na	8.58	136.7	17.72	12.69
111	2007	8	430	47.94	na	8.7	140.6	18.79	12.69
111	2007	8	445	48.78	na	6.57	144.9	19.78	12.68
111	2007	8	500	49.96	na	8.46	148.4	18.55	12.67
111	2007	8	515	50.41	na	2.088	170.9	13.55	12.68
111	2007	8	530	51.34	na	na	na	na	12.68
111	2007	8	545	53.36	na	4.812	218.9	15.83	12.69
111	2007	8	600	53.28	na	4.644	215.6	19.57	12.66
111	2007	8	615	52.99	na	3.587	226.9	23.6	12.68
111	2007	8	630	52.88	na	4.173	255.3	23.34	12.68

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	8	645	52.9	na	4.875	266.6	24.16	12.68
111	2007	8	700	52.51	na	5.145	264.9	18.47	12.67
111	2007	8	715	52.16	na	4.038	263.1	21	12.68
111	2007	8	730	52.09	na	5.942	279.5	14.87	12.68
111	2007	8	745	52.32	na	3.722	274.8	19.75	12.68
111	2007	8	800	52.57	na	4.233	276.2	17.51	12.67
111	2007	8	815	52.55	na	3.249	254.8	24.95	12.68
111	2007	8	830	52.14	na	4.603	258.4	21.94	12.68
111	2007	8	845	51.96	na	3.334	273.4	19.99	12.68
111	2007	8	900	51.97	na	2.07	250.7	23.53	12.66
111	2007	8	915	52.12	na	2.36	261.6	22.81	12.68
111	2007	8	930	52.31	na	2.333	265.9	17.48	12.68
111	2007	8	945	52.54	na	2.583	256.6	20.29	12.68
111	2007	8	1000	52.91	na	2.806	257.6	21.83	12.66
111	2007	8	1015	52.85	na	4.046	264	19.61	12.67
111	2007	8	1030	52.73	na	3.591	250.5	22.14	12.68
111	2007	8	1045	52.73	na	3.827	244.5	20.77	12.67
111	2007	8	1100	52.86	na	4.35	249.2	22.13	12.66
111	2007	8	1115	53.43	na	5.326	247.2	20.93	12.68
111	2007	8	1130	53.72	na	5.561	236.8	20.98	12.68
111	2007	8	1145	53.02	na	5.479	233.5	19.65	12.68
111	2007	8	1200	52.85	na	5.451	251.7	23.88	12.68
111	2007	8	1215	53.27	na	6.205	256.4	22.78	12.68
111	2007	8	1230	53.34	na	8.26	258	18.14	12.68
111	2007	8	1245	53.5	na	9.13	258.3	23.69	12.68
111	2007	8	1300	53.25	na	8.34	258.1	22.78	12.67
111	2007	8	1315	53.13	na	8.34	269.8	22.19	12.67
111	2007	8	1330	52.75	na	10.49	279.2	17.98	12.68
111	2007	8	1345	52.83	na	10.19	291.5	20.61	12.67
111	2007	8	1400	51.58	na	10.05	310.6	25.56	12.66
111	2007	8	1415	50.98	na	7.44	313.9	26.61	12.66
111	2007	8	1430	50.68	na	6.735	318.9	29.68	12.66
111	2007	8	1445	50.07	na	6.94	319.3	31.69	12.66
111	2007	8	1500	49.31	na	5.6	312	25.61	12.64
111	2007	8	1515	49.17	na	4.032	299.2	23.2	12.77
111	2007	8	1530	49.57	na	5.461	292.7	25.74	12.85
111	2007	8	1545	49.83	na	6.664	290	16.62	12.85
111	2007	8	1600	50	na	6.306	303.7	22.92	12.8
111	2007	8	1615	50.13	na	7.35	310.5	26.72	12.77
111	2007	8	1630	50.05	na	7.26	315.4	28.51	13.66
111	2007	8	1645	49.94	na	9.57	308.1	28.74	13.63
111	2007	8	1700	49.72	na	6.223	304.7	29.81	13.64
111	2007	8	1715	49.36	na	8.08	306.2	24	13.65
111	2007	8	1730	49.01	na	7.33	309.5	28.61	13.5
111	2007	8	1745	48.4	na	6.06	310.7	28.3	13.14
111	2007	8	1800	48.22	na	6.702	300.2	27.04	13.04
111	2007	8	1815	47.78	na	6.294	291.6	22.86	12.99
111	2007	8	1830	47.26	na	7.03	282.6	15.77	12.96
111	2007	8	1845	47.71	na	11.59	286	16.08	12.93
111	2007	8	1900	47.66	na	10.7	293.3	19.98	12.89
111	2007	8	1915	47.1	na	10.01	296.2	25.45	12.88
111	2007	8	1930	46.38	na	10.25	302.5	29.31	12.87
111	2007	8	1945	45.42	na	10.84	313.6	31.44	12.85
111	2007	8	2000	44.56	na	10.52	305.7	25.07	12.82
111	2007	8	2015	43.84	na	10.04	309.6	24.25	12.81
111	2007	8	2030	43.3	na	8.12	306.9	33.23	12.79
111	2007	8	2045	43.07	na	9.41	306.2	27.34	12.77
111	2007	8	2100	42.73	na	8.54	301.4	24.61	12.74
111	2007	8	2115	42.2	na	7.3	299.7	24.23	12.73
111	2007	8	2130	41.8	na	6.809	299.8	27.23	12.72

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	8	2145	41.59	na	7.81	303.4	26.46	12.7
111	2007	8	2200	41.46	na	8.53	309.7	26.24	12.67
111	2007	8	2215	41.1	na	7.7	301.7	27.75	12.67
111	2007	8	2230	40.94	na	8.23	313	30.26	12.65
111	2007	8	2245	40.48	na	6.712	304.7	25.54	12.64
111	2007	8	2300	40.31	na	7.64	308.3	26.71	12.62
111	2007	8	2315	39.93	na	8.44	309.7	31.18	12.62
111	2007	8	2330	39.61	na	7.04	312	26.59	12.61
111	2007	8	2345	39.3	na	9.05	307.5	26.85	12.61
111	2007	8	2400	39	na	7.61	312.4	29.66	12.59
111	2007	9	15	38.69	na	6.594	307.5	31.12	12.6
111	2007	9	30	38.32	na	6.934	304.6	26.39	12.59
111	2007	9	45	38.14	na	8.19	311	25.69	12.58
111	2007	9	100	37.82	na	7.11	308	34.94	12.57
111	2007	9	115	37.56	na	7.78	316.9	26.35	12.58
111	2007	9	130	37.22	na	7.39	315	25.73	12.57
111	2007	9	145	36.78	na	6.96	313.4	32.01	12.57
111	2007	9	200	36.53	na	6.996	317.9	25.12	12.56
111	2007	9	215	36.39	na	7.29	313.5	29.35	12.56
111	2007	9	230	36.22	na	7.37	317.6	28.98	12.56
111	2007	9	245	36.01	na	7.16	306.7	29.8	12.56
111	2007	9	300	35.96	na	7.98	311.3	27.91	12.54
111	2007	9	315	35.85	na	7.29	307.1	27.77	12.55
111	2007	9	330	35.68	na	7.17	305.2	26.18	12.55
111	2007	9	345	35.56	na	7.76	303.6	25.53	12.55
111	2007	9	400	35.42	na	6.932	310.2	28.16	12.54
111	2007	9	415	35.32	na	7.21	301.8	25.42	12.55
111	2007	9	430	35.15	na	7.68	299.4	26.42	12.54
111	2007	9	445	34.94	na	6.487	304.1	26.68	12.54
111	2007	9	500	34.75	na	6.244	302.4	31.08	12.53
111	2007	9	515	34.65	na	5.777	301.2	30.78	12.54
111	2007	9	530	34.61	na	6.405	298.6	24.76	12.54
111	2007	9	545	34.45	na	5.978	298.3	20.95	12.54
111	2007	9	600	34.14	na	5.342	290.6	18.97	12.53
111	2007	9	615	34.11	na	5.392	296.4	21.35	12.54
111	2007	9	630	34.03	na	5.622	295.1	21.31	12.53
111	2007	9	645	33.99	na	4.94	288.8	17.43	12.53
111	2007	9	700	33.8	na	5.515	282	15.98	12.52
111	2007	9	715	33.61	na	4.789	288.9	19.45	12.53
111	2007	9	730	33.45	na	4.939	287.6	16.83	12.53
111	2007	9	745	33.4	na	5.551	286.3	17.58	12.52
111	2007	9	800	33.42	na	6.006	285.2	16.15	12.52
111	2007	9	815	33.44	na	5.589	282.8	12.65	12.52
111	2007	9	830	33.29	na	5.384	280.4	15.48	12.52
111	2007	9	845	33.57	na	5.946	282.6	15.4	12.57
111	2007	9	900	34.5	na	7.02	285.5	17.66	13.84
111	2007	9	915	35.47	na	6.35	291.6	19.6	13.91
111	2007	9	930	36.1	na	5.841	285.9	20.7	13.89
111	2007	9	945	36.77	na	7.47	284.9	18.06	13.88
111	2007	9	1000	37.45	na	7.72	285.2	20.54	13.86
111	2007	9	1015	38.24	na	6.409	292.5	28.58	13.84
111	2007	9	1030	38.37	na	8.17	291.8	24.27	13.83
111	2007	9	1045	38.68	na	7.8	288.3	26.71	13.83
111	2007	9	1100	39.38	na	7.07	290.6	25.06	13.81
111	2007	9	1115	39.96	na	7.21	289.7	22.75	13.81
111	2007	9	1130	39.34	na	7.98	284.4	20.48	13.81
111	2007	9	1145	39.3	na	8.51	290.9	20.58	13.81
111	2007	9	1200	39.66	na	8.87	294.5	21.97	13.79
111	2007	9	1215	40.01	na	9.59	292.5	24.14	13.79
111	2007	9	1230	40.82	na	10.16	288.4	20.31	13.78

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	9	1245	41.31	na	9.79	294.4	20.54	13.77
111	2007	9	1300	41.98	na	10.86	287.6	20.7	13.76
111	2007	9	1315	42.22	na	10.83	290.6	22.03	13.77
111	2007	9	1330	42.58	na	9.85	287.5	20.51	13.76
111	2007	9	1345	42.99	na	9.79	289	21.87	13.75
111	2007	9	1400	43.51	na	9.33	284.6	24.78	13.74
111	2007	9	1415	42.82	na	11.42	282.1	21.02	13.75
111	2007	9	1430	42.83	na	10.44	289.8	23.41	13.75
111	2007	9	1445	43.49	na	13.67	287	21.15	13.75
111	2007	9	1500	43.75	na	11.02	271	20.14	13.74
111	2007	9	1515	43.82	na	10.46	272.9	18.02	13.75
111	2007	9	1530	43.66	na	9.79	275.5	20.34	13.75
111	2007	9	1545	44.18	na	10.43	275	16.83	13.74
111	2007	9	1600	44.49	na	8.8	291.4	22.06	13.73
111	2007	9	1615	44.25	na	9.22	287.1	24.49	13.73
111	2007	9	1630	44.24	na	7.28	289.7	24.19	13.74
111	2007	9	1645	43.84	na	6.934	295.1	24.82	13.74
111	2007	9	1700	43.18	na	6.521	305.7	30.39	13.75
111	2007	9	1715	42.89	na	5.028	295.9	22.65	13.76
111	2007	9	1730	42.21	na	6.256	300.1	23.14	13.16
111	2007	9	1745	41.77	na	4.62	304.9	24.84	13.07
111	2007	9	1800	41.55	na	3.875	314.3	30.84	13.01
111	2007	9	1815	41.41	na	4.167	313.1	25.61	12.98
111	2007	9	1830	41.27	na	3.428	323.4	31.44	12.95
111	2007	9	1845	41.18	na	5.179	301.1	26.66	12.93
111	2007	9	1900	41.15	na	5.465	292.1	26.65	12.91
111	2007	9	1915	40.84	na	5.111	303.3	25.01	12.9
111	2007	9	1930	40.46	na	4.207	312.5	26.41	12.89
111	2007	9	1945	40.12	na	4.779	312.4	23.38	12.87
111	2007	9	2000	39.68	na	3.126	313.6	25.26	12.85
111	2007	9	2015	39.01	na	2.482	315.5	21.12	12.85
111	2007	9	2030	38.47	na	2.581	313.5	22.83	12.85
111	2007	9	2045	38.04	na	2.511	303.1	18.46	12.84
111	2007	9	2100	37.65	na	2.492	308.6	19.95	12.82
111	2007	9	2115	37.34	na	2.659	307.8	22.86	12.82
111	2007	9	2130	37.08	na	2.525	307.4	25.19	12.82
111	2007	9	2145	36.63	na	2.651	299	16.55	12.81
111	2007	9	2200	36.21	na	2.537	290.4	16.21	12.79
111	2007	9	2215	35.85	na	2.575	288.1	13.35	12.8
111	2007	9	2230	35.46	na	2.589	286.2	15.29	12.79
111	2007	9	2245	35.57	na	2.784	293.8	19.44	12.78
111	2007	9	2300	35.73	na	2.36	305	23.52	12.77
111	2007	9	2315	35.57	na	2.17	317.2	22.71	12.78
111	2007	9	2330	35.79	na	3.519	314.8	21.4	12.77
111	2007	9	2345	36.16	na	4.356	323.4	26.98	12.76
111	2007	9	2400	36.2	na	4.179	333.2	33.48	12.75
111	2007	10	15	36.08	na	4.241	337.8	32.28	12.76
111	2007	10	30	36.01	na	5.113	349.8	34.96	12.76
111	2007	10	45	35.64	na	4.776	357.2	25.69	12.76
111	2007	10	100	35.17	na	4.756	357.9	28.64	12.74
111	2007	10	115	34.57	na	3.742	356.8	27.77	12.74
111	2007	10	130	33.91	na	3.819	351.2	26.31	12.74
111	2007	10	145	33.62	na	4.849	352.7	29.3	12.74
111	2007	10	200	33.52	na	5.31	357.6	27.33	12.72
111	2007	10	215	33.74	na	6.326	353.6	28.74	12.73
111	2007	10	230	33.64	na	6.227	1.183	30.17	12.72
111	2007	10	245	33.51	na	6.511	8.27	27.54	12.72
111	2007	10	300	33.41	na	6.284	5.857	29.69	12.7
111	2007	10	315	33.31	na	5.779	357.5	27.35	12.72
111	2007	10	330	33.03	na	4.37	359.1	26.82	12.71

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	10	345	32.86	na	3.678	359.5	30.25	12.7
111	2007	10	400	32.43	na	2.845	358.8	26.59	12.69
111	2007	10	415	32.15	na	2.557	352.6	32.35	12.7
111	2007	10	430	31.67	na	2.223	342.1	29.18	12.69
111	2007	10	445	31.11	na	1.747	312.6	20.15	12.68
111	2007	10	500	30.31	na	1.481	317.9	20.28	12.67
111	2007	10	515	30.31	na	1.798	318.2	25.99	12.67
111	2007	10	530	30.24	na	1.861	307.2	18.28	12.67
111	2007	10	545	29.94	na	1.554	298.1	16.97	12.66
111	2007	10	600	29.74	na	2.315	302.5	23.29	12.65
111	2007	10	615	29.96	na	2.132	307.1	25.54	12.65
111	2007	10	630	30.08	na	2.72	313.5	24.41	12.65
111	2007	10	645	30.18	na	2.621	300.5	20.97	12.64
111	2007	10	700	30.21	na	3.02	293.7	14.34	12.63
111	2007	10	715	30.22	na	2.78	306.4	22.86	12.63
111	2007	10	730	30.49	na	2.808	314.1	28.01	12.63
111	2007	10	745	30.37	na	2.716	318.2	23.57	12.63
111	2007	10	800	30.09	na	2.239	313.4	18.23	12.61
111	2007	10	815	29.97	na	2.565	318.5	25.98	12.62
111	2007	10	830	30.14	na	3.635	312.9	27.99	12.62
111	2007	10	845	30.68	na	4.404	324.9	30.49	12.65
111	2007	10	900	31.39	na	6.042	323.4	27.44	14.01
111	2007	10	915	32.02	na	6.662	330.9	29.2	13.98
111	2007	10	930	32.41	na	7.16	330	31.59	13.96
111	2007	10	945	32.56	na	6.469	340.2	33.12	13.94
111	2007	10	1000	32.81	na	8.82	331.5	28.45	13.92
111	2007	10	1015	33.01	na	8.53	343.1	33.64	13.92
111	2007	10	1030	33.39	na	7.77	350.2	34.18	13.91
111	2007	10	1045	33.74	na	8.54	351.3	36.27	13.9
111	2007	10	1100	33.73	na	9.36	343.5	27.16	13.84
111	2007	10	1115	33.42	na	8.77	332.1	29.28	13.89
111	2007	10	1130	34.27	na	8.12	329.1	37.87	13.88
111	2007	10	1145	34.1	na	10.04	339.8	34.13	13.87
111	2007	10	1200	34.47	na	8.48	341.1	40.16	13.86
111	2007	10	1215	34.24	na	10.07	328.9	29.92	13.86
111	2007	10	1230	34.49	na	9.66	330.7	33.64	13.86
111	2007	10	1245	34.25	na	10.06	337.4	30.69	13.87
111	2007	10	1300	34.82	na	8.86	351.1	34.84	13.86
111	2007	10	1315	33.79	na	8.62	340.2	29.89	13.88
111	2007	10	1330	33.35	na	8.95	329.6	40.06	13.88
111	2007	10	1345	34.49	na	9.38	339.4	38.38	13.88
111	2007	10	1400	34.26	na	10.25	355.8	30.16	13.86
111	2007	10	1415	33.49	na	8.65	344.1	32.81	13.88
111	2007	10	1430	33.68	na	10.49	335.1	30.45	13.88
111	2007	10	1445	33.62	na	9.21	345.3	35.94	13.88
111	2007	10	1500	34.06	na	9.04	346.3	36.74	13.87
111	2007	10	1515	32.8	na	8.81	5.794	27.22	13.89
111	2007	10	1530	33.49	na	9.35	0.316	32.24	13.88
111	2007	10	1545	33.87	na	9.87	358.5	24.98	13.88
111	2007	10	1600	33.85	na	7.45	354.1	31.52	13.87
111	2007	10	1615	34.07	na	7.95	332.3	35.44	13.88
111	2007	10	1630	33.53	na	8.88	337	32.57	13.88
111	2007	10	1645	33.33	na	7.84	349.6	31.74	13.89
111	2007	10	1700	33.15	na	7.16	356.9	30.36	13.89
111	2007	10	1715	33.12	na	7.34	338	32.91	13.9
111	2007	10	1730	32.85	na	6.739	336.3	32.02	13.92
111	2007	10	1745	32.47	na	6.374	335.1	31.14	13.14
111	2007	10	1800	32.2	na	4.746	337.9	31.87	13.04
111	2007	10	1815	31.96	na	4.328	331.9	38.82	12.99
111	2007	10	1830	31.97	na	5.42	337	32.76	12.95

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	10	1845	31.89	na	6.354	343.2	33.16	12.92
111	2007	10	1900	31.79	na	7.38	336.7	28.98	12.88
111	2007	10	1915	31.58	na	6.566	336.7	32.91	12.88
111	2007	10	1930	31.35	na	6.028	339.9	32.22	12.86
111	2007	10	1945	31.18	na	5.98	325.5	31.83	12.84
111	2007	10	2000	31.06	na	8.28	329.6	32.52	12.82
111	2007	10	2015	30.86	na	7.29	329.9	29.78	12.82
111	2007	10	2030	30.66	na	7.69	334.2	27.27	12.81
111	2007	10	2045	30.55	na	7.67	329.8	31.33	12.8
111	2007	10	2100	30.26	na	6.441	338.7	32.17	12.78
111	2007	10	2115	30.23	na	7.26	333.3	35.41	12.79
111	2007	10	2130	30.16	na	8.5	335.3	37.68	12.78
111	2007	10	2145	30.02	na	6.936	328.1	35.44	12.78
111	2007	10	2200	29.85	na	6.662	339.7	34.39	12.76
111	2007	10	2215	29.73	na	6.231	334.4	34.9	12.76
111	2007	10	2230	29.61	na	8.14	325.9	29.59	12.76
111	2007	10	2245	29.33	na	7.11	328.3	34.72	12.76
111	2007	10	2300	29	na	6.97	340.7	27.17	12.74
111	2007	10	2315	28.67	na	5.932	336.4	28.29	12.74
111	2007	10	2330	28.6	na	6.875	343	31.49	12.74
111	2007	10	2345	28.43	na	5.567	341.4	30.14	12.73
111	2007	10	2400	28.28	na	5.394	326.1	24.32	12.72
111	2007	11	15	28.22	na	5.42	340.9	26.36	12.73
111	2007	11	30	28.01	na	4.791	336.5	29.84	12.72
111	2007	11	45	27.98	na	5.31	322.5	27.77	12.72
111	2007	11	100	27.96	na	5.123	330.4	32.39	12.7
111	2007	11	115	27.84	na	5.048	337.4	30.19	12.71
111	2007	11	130	27.65	na	4.579	332.8	27.77	12.7
111	2007	11	145	27.68	na	5.541	330.1	31.27	12.69
111	2007	11	200	27.61	na	5.565	335.3	30.71	12.68
111	2007	11	215	27.4	na	3.887	331	30.48	12.69
111	2007	11	230	27.26	na	3.975	332.4	32.37	12.68
111	2007	11	245	27.07	na	3.909	344.3	31.85	12.67
111	2007	11	300	27.05	na	4.04	328.9	28.98	12.66
111	2007	11	315	26.85	na	3.867	333.7	32.51	12.67
111	2007	11	330	26.68	na	3.893	334.9	24.85	12.66
111	2007	11	345	26.56	na	4.028	333.5	27.12	12.65
111	2007	11	400	26.41	na	4.414	4.158	25.47	12.63
111	2007	11	415	26.2	na	3.627	357	27.95	12.64
111	2007	11	430	26	na	3.314	349.2	33.02	12.63
111	2007	11	445	25.91	na	3.37	340.9	24.12	12.63
111	2007	11	500	25.65	na	2.777	334.1	30.93	12.61
111	2007	11	515	25.6	na	2.923	329.5	27.6	12.61
111	2007	11	530	25.4	na	2.835	336.6	33.97	12.61
111	2007	11	545	25.19	na	1.973	0.365	27.25	12.61
111	2007	11	600	25.06	na	2.496	350.5	27.04	12.59
111	2007	11	615	24.8	na	0.823	301.5	24.59	12.59
111	2007	11	630	24.59	na	2.14	307.4	17.41	12.58
111	2007	11	645	24.19	na	1.29	238.1	31.25	12.57
111	2007	11	700	23.71	na	0.356	152.8	52.58	12.55
111	2007	11	715	23.32	na	1.425	165	58.41	12.56
111	2007	11	730	22.88	na	1.498	292.3	11.67	12.55
111	2007	11	745	22.26	na	0.606	281.8	21.92	12.55
111	2007	11	800	22.18	na	1.16	297.8	16.05	12.53
111	2007	11	815	22.19	na	1.288	305.9	17.69	12.53
111	2007	11	830	22.61	na	0.807	339	16.06	12.53
111	2007	11	845	23.13	na	0.561	199.6	18.01	12.57
111	2007	11	900	24	na	0.742	275.6	16.04	14.14
111	2007	11	915	25.61	na	1.79	281.9	16.55	14.11
111	2007	11	930	26.82	na	2.768	272	15.34	14.08

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	11	945	27.98	na	2.72	292.5	29.99	14.05
111	2007	11	1000	28.98	na	2.764	291.4	27.13	14.02
111	2007	11	1015	29.32	na	3.36	290.1	36.25	14
111	2007	11	1030	30.05	na	3.026	281.6	32.58	13.98
111	2007	11	1045	30.45	na	1.715	352.3	61.74	13.96
111	2007	11	1100	31.15	na	2.545	207.4	65.6	13.93
111	2007	11	1115	31.4	na	2.05	277.7	67.83	13.92
111	2007	11	1130	31.43	na	2.483	308.8	58.62	13.91
111	2007	11	1145	31.47	na	4.253	178	28.89	13.9
111	2007	11	1200	31.27	na	4.424	175.7	29.11	13.9
111	2007	11	1215	31.23	na	4.215	205.5	24.68	13.9
111	2007	11	1230	31.99	na	4.342	231.4	36.69	13.9
111	2007	11	1245	32.5	na	4.658	266.5	29.77	13.89
111	2007	11	1300	33.16	na	4.76	260.3	34.39	13.88
111	2007	11	1315	33.14	na	5.416	253.4	23.62	13.89
111	2007	11	1330	33.34	na	5.877	261.2	28.14	13.89
111	2007	11	1345	33.6	na	6.185	265.9	26.82	13.89
111	2007	11	1400	34.15	na	5.759	253.7	31.78	13.89
111	2007	11	1415	34.6	na	6.141	260.5	27.85	13.89
111	2007	11	1430	34.52	na	6.523	266.2	24.51	13.88
111	2007	11	1445	34.91	na	6.107	259.3	20.76	13.88
111	2007	11	1500	34.66	na	6.181	241.4	28.76	13.87
111	2007	11	1515	35.09	na	5.712	255.1	26.58	13.87
111	2007	11	1530	35.51	na	6.606	256	21.69	13.87
111	2007	11	1545	35.52	na	6.656	253	23.64	13.86
111	2007	11	1600	35.65	na	6.29	253.5	26.15	13.85
111	2007	11	1615	35.59	na	6.181	255.5	27.22	13.87
111	2007	11	1630	35.18	na	7.31	262.8	22.38	13.87
111	2007	11	1645	34.98	na	6.326	252.8	24.79	13.87
111	2007	11	1700	34.84	na	6.209	257.9	21.89	13.87
111	2007	11	1715	34.59	na	5.268	249.8	21.74	13.89
111	2007	11	1730	34.04	na	5.42	242.4	24.54	13.59
111	2007	11	1745	33.69	na	5.296	241.3	22.81	13.1
111	2007	11	1800	33.67	na	5.31	249.5	22.05	13.02
111	2007	11	1815	33.75	na	4.813	250.3	17	12.98
111	2007	11	1830	33.91	na	4.919	247.7	20.8	12.94
111	2007	11	1845	33.99	na	4.764	250.2	23.37	12.92
111	2007	11	1900	34.34	na	5.33	251.2	21.29	12.88
111	2007	11	1915	34.73	na	5.704	254.5	21.18	12.88
111	2007	11	1930	34.94	na	5.31	249.5	22.41	12.86
111	2007	11	1945	35.17	na	6.229	251.5	21.72	12.86
111	2007	11	2000	35.59	na	6.465	256.1	20.92	12.84
111	2007	11	2015	35.75	na	5.823	258	23.44	12.84
111	2007	11	2030	35.77	na	5.761	251.6	22.98	12.83
111	2007	11	2045	36.07	na	6.875	254.6	22.03	12.83
111	2007	11	2100	36.42	na	7.05	256	21.35	12.81
111	2007	11	2115	36.69	na	8.32	262.7	22.21	12.82
111	2007	11	2130	36.65	na	8.39	267.6	19.93	12.81
111	2007	11	2145	36.43	na	7.52	267.6	21.44	12.8
111	2007	11	2200	36.57	na	8.4	271.9	20.45	12.79
111	2007	11	2215	36.71	na	9.67	276.5	16	12.8
111	2007	11	2230	36.64	na	7.71	277.3	17.15	12.8
111	2007	11	2245	36.82	na	6.863	278.1	17.6	12.8
111	2007	11	2300	37.02	na	7.08	270.6	20.07	12.78
111	2007	11	2315	37.21	na	6.543	273.9	17.28	12.79
111	2007	11	2330	37.17	na	6.817	274.4	20.41	12.78
111	2007	11	2345	37.13	na	7.65	276.7	16.87	12.78
111	2007	11	2400	37.09	na	6.03	273.4	19.25	12.76
111	2007	12	15	37.33	na	6.847	263.3	20.06	12.78
111	2007	12	30	37.93	na	7.47	265.8	21.98	12.77

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	12	45	38.41	na	7.88	269.7	21.01	12.76
111	2007	12	100	38.71	na	8.58	265.4	18.71	12.75
111	2007	12	115	38.98	na	7.42	264	22.46	12.76
111	2007	12	130	39.23	na	8.1	264.4	22.21	12.76
111	2007	12	145	39.39	na	8.05	265.4	19.74	12.75
111	2007	12	200	39.26	na	7.97	265.1	22	12.73
111	2007	12	215	39.37	na	8.05	266.5	23.01	12.74
111	2007	12	230	39.51	na	8.17	266.8	22.59	12.74
111	2007	12	245	39.59	na	7.28	264.2	20.44	12.73
111	2007	12	300	39.73	na	7.93	266.8	21.25	12.72
111	2007	12	315	39.98	na	8.23	269.2	16.53	12.72
111	2007	12	330	40.2	na	7.97	268.5	20.63	12.72
111	2007	12	345	40.35	na	8.46	269.9	18.55	12.71
111	2007	12	400	40.67	na	9.49	266.2	22.01	12.7
111	2007	12	415	41.28	na	9.36	267.9	24.69	12.71
111	2007	12	430	41.72	na	10.53	264.5	18.63	12.71
111	2007	12	445	41.87	na	9.49	265	23.1	12.7
111	2007	12	500	42.24	na	9.83	266.6	19.28	12.69
111	2007	12	515	42.43	na	9.88	258.6	19.2	12.69
111	2007	12	530	42.58	na	9.65	260.9	22.55	12.69
111	2007	12	545	42.85	na	10.13	256	22.44	12.69
111	2007	12	600	43.05	na	10.25	260.4	25.63	12.67
111	2007	12	615	43.25	na	10.73	264.2	19.19	12.67
111	2007	12	630	43.09	na	9.84	261.6	22.71	12.67
111	2007	12	645	43.2	na	8.92	261.9	20.63	12.67
111	2007	12	700	43.44	na	9.32	260.1	21.01	12.66
111	2007	12	715	43.63	na	8.06	266.4	26.49	12.67
111	2007	12	730	43.67	na	8.86	264.2	23.67	12.67
111	2007	12	745	43.62	na	8.08	267	21.03	12.66
111	2007	12	800	43.75	na	9.94	260.7	19.31	12.65
111	2007	12	815	43.73	na	8.74	258.2	20.5	12.66
111	2007	12	830	43.87	na	10.46	267.8	21.13	12.66
111	2007	12	845	43.85	na	10.82	272	19.11	12.65
111	2007	12	900	43.68	na	10.19	270.8	23.09	12.64
111	2007	12	915	43.58	na	10.94	272.1	19.96	12.65
111	2007	12	930	43.43	na	9.99	269.9	22.75	12.65
111	2007	12	945	43.29	na	10.4	268.1	19.34	12.69
111	2007	12	1000	43.22	na	9.02	271.2	19.65	12.74
111	2007	12	1015	43.21	na	9.88	273	18.01	12.81
111	2007	12	1030	43.27	na	10.58	279.9	19.87	12.96
111	2007	12	1045	43.09	na	10.45	278.9	16.09	12.98
111	2007	12	1100	42.8	na	8.8	277.5	18.5	12.86
111	2007	12	1115	41.87	na	7.47	289	25.68	12.85
111	2007	12	1130	41.72	na	7.68	286.7	17.46	12.99
111	2007	12	1145	42.15	na	8.01	281	18	13.12
111	2007	12	1200	42.47	na	8.03	279.6	17.95	13.34
111	2007	12	1215	42.95	na	8.69	281.1	20.04	13.43
111	2007	12	1230	43.11	na	10.47	280	18.81	13.31
111	2007	12	1245	43.22	na	10.05	278.6	18.12	13.4
111	2007	12	1300	43.43	na	10.27	281.6	15.93	13.39
111	2007	12	1315	43.6	na	8.42	282.2	15.75	13.31
111	2007	12	1330	43.66	na	7.36	278.9	20.61	13.25
111	2007	12	1345	43.75	na	6.972	280.7	15.75	13.25
111	2007	12	1400	43.89	na	6.761	287.1	20.15	13.25
111	2007	12	1415	43.84	na	8.12	281.9	16.53	13.29
111	2007	12	1430	43.93	na	7.48	283.6	21.07	13.3
111	2007	12	1445	44.16	na	6.67	289.1	23.33	13.38
111	2007	12	1500	44.53	na	6.902	274.8	18.26	13.73
111	2007	12	1515	44.8	na	7.58	281	13.78	13.65
111	2007	12	1530	45.13	na	5.984	286	16.91	13.73

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	12	1545	45.65	na	5.775	269.7	21.68	13.73
111	2007	12	1600	46	na	6.718	269.7	21.2	13.71
111	2007	12	1615	46.97	na	8.05	279.1	16.56	13.71
111	2007	12	1630	47.18	na	7.5	278.8	15.06	13.71
111	2007	12	1645	46.51	na	5.992	270	19.55	13.72
111	2007	12	1700	46.24	na	5.469	270.7	16.81	13.3
111	2007	12	1715	45.55	na	5.012	269	17.2	13.12
111	2007	12	1730	44.94	na	4.356	268.9	17.84	13.05
111	2007	12	1745	44.46	na	4.185	268.2	20.12	13
111	2007	12	1800	44.21	na	4.318	269.8	18.09	12.96
111	2007	12	1815	44.22	na	4.014	278.2	14.53	12.94
111	2007	12	1830	44.17	na	4.004	272.5	15.84	12.93
111	2007	12	1845	43.88	na	3.165	275.6	14.4	12.91
111	2007	12	1900	43.49	na	2.442	265.4	17.18	12.88
111	2007	12	1915	42.94	na	2.829	272.2	15.75	12.88
111	2007	12	1930	42.63	na	3.263	276.5	14.61	12.87
111	2007	12	1945	42.63	na	3.293	272.4	15.09	12.86
111	2007	12	2000	42.53	na	1.846	282.5	20.71	12.84
111	2007	12	2015	42.33	na	2.464	279.3	12.76	12.84
111	2007	12	2030	42.11	na	2.315	284.8	16.22	12.83
111	2007	12	2045	42.19	na	3.018	285.1	14.92	12.83
111	2007	12	2100	42.62	na	2.279	277.4	18.74	12.81
111	2007	12	2115	42.42	na	1.936	270	17.42	12.81
111	2007	12	2130	42.04	na	2.68	265.5	17.58	12.8
111	2007	12	2145	42.64	na	3.477	281	12.1	12.79
111	2007	12	2200	42.53	na	2.12	271.7	14.35	12.78
111	2007	12	2215	42.23	na	2.148	255.9	21.3	12.78
111	2007	12	2230	42.24	na	3.14	264.4	16.6	12.77
111	2007	12	2245	42.76	na	3.738	277.6	11.76	12.77
111	2007	12	2300	42.96	na	3.094	274.5	18.07	12.75
111	2007	12	2315	43.15	na	3.422	280.7	16.38	12.75
111	2007	12	2330	43.46	na	3.239	288	14.6	12.75
111	2007	12	2345	43.18	na	2.44	272.4	16.3	12.75
111	2007	12	2400	43.16	na	2.44	259.7	18.11	12.73
111	2007	13	15	43.12	na	3.112	268.5	13.71	12.73
111	2007	13	30	43.06	na	3.593	263.2	16.48	12.72
111	2007	13	45	42.88	na	2.752	263.9	22.54	12.71
111	2007	13	100	42.89	na	2.565	246	20.01	12.7
111	2007	13	115	43.26	na	3.237	239.7	20.13	12.7
111	2007	13	130	43.32	na	3.428	257	21.18	12.69
111	2007	13	145	43.39	na	3.124	258	19.29	12.69
111	2007	13	200	43.45	na	2.804	265.2	21.57	12.67
111	2007	13	215	43.87	na	2.918	270.4	19.37	12.67
111	2007	13	230	44.19	na	3.462	277.6	16.97	12.67
111	2007	13	245	44.31	na	4.66	281.9	12.08	12.67
111	2007	13	300	44.56	na	4.213	271.5	17.35	12.65
111	2007	13	315	45.23	na	4.235	267.4	21.31	12.66
111	2007	13	330	45.34	na	4.658	273.3	17.3	12.65
111	2007	13	345	45.59	na	4.376	260	22.99	12.65
111	2007	13	400	45.8	na	4.223	259.9	19.29	12.64
111	2007	13	415	45.92	na	4.7	263.1	21.51	12.65
111	2007	13	430	45.92	na	4.742	268.5	19.3	12.65
111	2007	13	445	46.02	na	4.4	279.2	17.97	12.65
111	2007	13	500	45.94	na	4.342	265.4	20.48	12.63
111	2007	13	515	45.95	na	4.382	265.2	19.59	12.64
111	2007	13	530	46.1	na	5.376	265.5	18.46	12.64
111	2007	13	545	46.17	na	5.368	269.3	19.7	12.65
111	2007	13	600	46.24	na	4.539	263.5	21.89	12.63
111	2007	13	615	46.53	na	5.73	272.6	18.4	12.64
111	2007	13	630	46.81	na	4.442	287.3	20.86	12.64

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	13	645	46.77	na	3.432	280.1	17.05	12.64
111	2007	13	700	46.68	na	3.016	277.1	17.17	12.63
111	2007	13	715	46.46	na	2.473	277.7	17.25	12.64
111	2007	13	730	46.26	na	2.674	253.5	17.33	12.64
111	2007	13	745	46.1	na	1.425	262	18.39	12.63
111	2007	13	800	45.86	na	2.122	256.4	18.46	12.63
111	2007	13	815	45.74	na	2.529	259.8	20.42	12.63
111	2007	13	830	45.64	na	2.983	262.9	16.86	12.63
111	2007	13	845	45.62	na	2.637	265.3	20.36	12.63
111	2007	13	900	45.62	na	3.376	276.5	20.21	12.62
111	2007	13	915	45.96	na	4.265	284.2	17.72	12.63
111	2007	13	930	46.29	na	4.38	282	16.48	12.63
111	2007	13	945	46.72	na	5.036	276.7	13.16	12.64
111	2007	13	1000	47.12	na	4.263	277	19.36	12.66
111	2007	13	1015	47.29	na	4.632	272.2	18.62	12.64
111	2007	13	1030	47.1	na	4.674	275.5	17.59	12.65
111	2007	13	1045	47.39	na	3.968	279.4	14.09	12.66
111	2007	13	1100	47.9	na	3.511	265.4	18.94	12.79
111	2007	13	1115	48.04	na	3.968	257	18.5	12.82
111	2007	13	1130	47.96	na	4.777	260.3	20.58	13.14
111	2007	13	1145	48.43	na	4.38	266.2	17.27	13.29
111	2007	13	1200	48.71	na	4.772	268.9	22.6	13.67
111	2007	13	1215	49.28	na	4.881	264.9	22.45	13.33
111	2007	13	1230	49.41	na	4.587	268.9	16.27	13.4
111	2007	13	1245	49.78	na	5.227	280.1	16.54	13.27
111	2007	13	1300	50.13	na	5.006	277.4	18.49	13.11
111	2007	13	1315	50.17	na	4.201	274.4	21.38	13.05
111	2007	13	1330	50.34	na	3.8	277.9	14.89	13.17
111	2007	13	1345	50.92	na	3.855	278.4	19.27	13.13
111	2007	13	1400	51.39	na	4.467	277.9	18.46	13.18
111	2007	13	1415	51.67	na	4.189	275.9	16.74	13.16
111	2007	13	1430	51.76	na	3.805	284.1	14.97	13.3
111	2007	13	1445	52.27	na	4.356	288.1	18.03	13.54
111	2007	13	1500	52.68	na	3.165	283.9	18.16	13.4
111	2007	13	1515	52.32	na	2.72	252.4	21.98	13.38
111	2007	13	1530	51.81	na	3.362	261	17.96	13.23
111	2007	13	1545	51.45	na	3.148	264	19.5	13.17
111	2007	13	1600	51.37	na	3.446	266.9	18.07	13.2
111	2007	13	1615	51.67	na	3.638	269.7	16.09	13.18
111	2007	13	1630	51.84	na	2.288	256	19.75	13.06
111	2007	13	1645	51.79	na	2.194	265.7	19.03	13
111	2007	13	1700	51.68	na	1.314	264	18.24	12.96
111	2007	13	1715	51.51	na	0.209	294.5	12.05	12.94
111	2007	13	1730	51.57	na	0.142	309.6	7.31	12.92
111	2007	13	1745	51.5	na	0.228	278.8	7.82	12.9
111	2007	13	1800	51.26	na	0.213	255.4	8.64	12.88
111	2007	13	1815	51.25	na	0.387	286.9	12.22	12.88
111	2007	13	1830	51.56	na	0.47	281.4	10.94	12.86
111	2007	13	1845	51.63	na	0.027	286.4	2.192	12.86
111	2007	13	1900	51.8	na	1.313	292.2	13.81	12.84
111	2007	13	1915	51.87	na	0.997	300.5	14.3	12.84
111	2007	13	1930	52.12	na	1.659	13.8	49.22	12.83
111	2007	13	1945	51.64	na	5.684	59.06	18.46	12.82
111	2007	13	2000	50.72	na	4.925	63.81	18.05	12.8
111	2007	13	2015	50.42	na	4.12	64.24	20.51	12.8
111	2007	13	2030	50.17	na	3.909	62.25	16.62	12.78
111	2007	13	2045	49.87	na	4.09	50.97	18.91	12.78
111	2007	13	2100	49.57	na	5.268	60.04	17.47	12.76
111	2007	13	2115	49.24	na	3.277	71.1	18.34	12.76
111	2007	13	2130	49.26	na	4.012	59.6	15.87	12.75

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	13	2145	49.16	na	3.146	53.64	20.01	12.74
111	2007	13	2200	49.07	na	2.684	49.22	16.17	12.72
111	2007	13	2215	48.84	na	3.79	51.81	16.51	12.72
111	2007	13	2230	48.69	na	3.798	61.94	18.53	12.72
111	2007	13	2245	48.48	na	4.432	58.02	22.33	12.71
111	2007	13	2300	48.21	na	4.825	61.36	19.73	12.69
111	2007	13	2315	47.96	na	4.768	61.95	18.97	12.69
111	2007	13	2330	47.66	na	4.622	62.09	20.17	12.69
111	2007	13	2345	47.39	na	4.744	63.36	18.28	12.67
111	2007	13	2400	47.16	na	5.195	64.22	18.75	12.65
111	2007	14	15	46.42	na	4.521	59.72	16.86	12.66
111	2007	14	30	45.6	na	4.68	60.32	13.47	12.65
111	2007	14	45	44.86	na	4.781	65.7	18.14	12.65
111	2007	14	100	44.3	na	5.08	82.4	17.51	12.63
111	2007	14	115	43.95	na	4.271	81.8	17.35	12.63
111	2007	14	130	43.65	na	4.245	85.5	17.62	12.63
111	2007	14	145	43.49	na	2.994	95	17.99	12.63
111	2007	14	200	43.54	na	3.666	115.9	18.91	12.61
111	2007	14	215	43.87	na	5.863	136.9	20.9	12.62
111	2007	14	230	43.88	na	6.684	125.4	16.15	12.61
111	2007	14	245	43.85	na	6.954	122.3	16.25	12.61
111	2007	14	300	43.82	na	7.32	126.1	16.71	12.6
111	2007	14	315	43.82	na	5.958	121.8	19.95	12.61
111	2007	14	330	43.92	na	5.129	110.2	23.26	12.61
111	2007	14	345	43.94	na	4.712	104.5	17.91	12.61
111	2007	14	400	43.97	na	4.678	108.1	17.25	12.59
111	2007	14	415	43.99	na	3.953	102.8	19.78	12.61
111	2007	14	430	44.09	na	4.937	104.4	18.18	12.61
111	2007	14	445	44.22	na	4.678	101.4	20.9	12.6
111	2007	14	500	44.26	na	4.217	98.5	17.02	12.59
111	2007	14	515	44.34	na	4.302	107.4	20.28	12.6
111	2007	14	530	44.53	na	4.791	118.2	18.82	12.6
111	2007	14	545	44.76	na	4.877	118.8	21.27	12.6
111	2007	14	600	44.88	na	5.185	119.5	19.98	12.59
111	2007	14	615	44.97	na	4.05	90.2	18.46	12.6
111	2007	14	630	44.95	na	3.45	83.5	20.3	12.6
111	2007	14	645	44.83	na	3.525	72	17.72	12.6
111	2007	14	700	44.59	na	3.185	70	15.17	12.59
111	2007	14	715	44.47	na	3.283	77	17.8	12.6
111	2007	14	730	44.42	na	3.221	80.9	19.25	12.6
111	2007	14	745	44.4	na	4.102	73.6	14.52	12.6
111	2007	14	800	44.12	na	3.227	79.1	18.73	12.59
111	2007	14	815	43.85	na	3.611	81.9	16.1	12.6
111	2007	14	830	43.85	na	2.381	47.31	24.86	12.6
111	2007	14	845	43.69	na	3.903	60.9	16.82	12.6
111	2007	14	900	43.44	na	4.418	64.52	18.02	12.59
111	2007	14	915	43.42	na	3.994	68.07	17.68	12.6
111	2007	14	930	43.37	na	3.314	71.2	19.27	12.59
111	2007	14	945	43.46	na	3.004	82.8	18.64	12.59
111	2007	14	1000	43.63	na	3.247	74.9	20.76	12.58
111	2007	14	1015	43.82	na	3.213	63.39	20.52	12.59
111	2007	14	1030	43.9	na	3.714	67.27	18.81	12.6
111	2007	14	1045	43.98	na	3.752	59.34	17.84	12.61
111	2007	14	1100	43.9	na	3.917	51.05	17.73	12.6
111	2007	14	1115	43.86	na	3.666	49.57	21.21	12.6
111	2007	14	1130	43.82	na	3.537	66.23	16.91	12.68
111	2007	14	1145	43.81	na	3.326	71.5	21.31	12.71
111	2007	14	1200	43.94	na	3.348	52.54	21.22	12.74
111	2007	14	1215	43.98	na	3.933	51.59	18.62	12.77
111	2007	14	1230	44.14	na	3.623	40.9	12.12	12.83

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	14	1245	44.26	na	3.583	52.06	19.49	12.91
111	2007	14	1300	44.43	na	2.939	54.46	21.23	13.05
111	2007	14	1315	44.61	na	2.971	62.16	17.77	13.11
111	2007	14	1330	44.8	na	3.74	38.53	14.92	13
111	2007	14	1345	44.53	na	3.046	42.61	20.7	12.97
111	2007	14	1400	44.67	na	3.416	46.35	19.44	12.99
111	2007	14	1415	44.59	na	3.43	46.51	21.48	13.12
111	2007	14	1430	44.74	na	3.652	44.24	17.97	13.13
111	2007	14	1445	44.46	na	3.585	49.68	20.85	13.2
111	2007	14	1500	44.39	na	3.704	46.76	21.88	13.03
111	2007	14	1515	44.37	na	3.311	31.58	22.07	12.94
111	2007	14	1530	43.8	na	3.559	20.34	21.58	12.89
111	2007	14	1545	43.37	na	2.957	23.6	27.06	12.91
111	2007	14	1600	43.27	na	2.766	50.88	19.69	12.86
111	2007	14	1615	43.13	na	3.976	31.14	17	12.81
111	2007	14	1630	42.79	na	4.239	40.55	23.86	12.77
111	2007	14	1645	42.44	na	4.398	45.38	17.85	12.73
111	2007	14	1700	42.02	na	5.302	50.06	21.16	12.7
111	2007	14	1715	41.78	na	3.849	55.32	19.38	12.69
111	2007	14	1730	41.57	na	4.352	53.5	19.71	12.67
111	2007	14	1745	41.46	na	4.288	40.99	16.65	12.65
111	2007	14	1800	41.3	na	3.712	53.53	19.05	12.62
111	2007	14	1815	41.23	na	3.271	66.34	16.59	12.62
111	2007	14	1830	41.3	na	3.579	49.05	18.09	12.61
111	2007	14	1845	41.14	na	4.217	56.68	19.75	12.61
111	2007	14	1900	41.08	na	4.024	52.12	21.45	12.59
111	2007	14	1915	41.11	na	3.809	57.99	18.75	12.59
111	2007	14	1930	40.91	na	5.547	55.56	19.27	12.59
111	2007	14	1945	40.58	na	5.489	52.86	18.16	12.58
111	2007	14	2000	40.34	na	5.233	57.89	16.87	12.57
111	2007	14	2015	40.21	na	3.937	70.7	17.67	12.58
111	2007	14	2030	40.19	na	4.233	63.25	20.05	12.57
111	2007	14	2045	40.23	na	4.288	72.1	17.97	12.57
111	2007	14	2100	40.31	na	3.917	64.66	17.74	12.56
111	2007	14	2115	40.32	na	3.37	82	21.84	12.57
111	2007	14	2130	40.29	na	3.352	66.12	19.89	12.57
111	2007	14	2145	40.23	na	3.153	54.21	17.53	12.57
111	2007	14	2200	40.22	na	3.171	56	16.22	12.56
111	2007	14	2215	40.22	na	3.438	59.86	13.33	12.57
111	2007	14	2230	40.17	na	3.197	62.68	22.02	12.57
111	2007	14	2245	40.14	na	3.09	66.38	26.93	12.57
111	2007	14	2300	40.03	na	4.561	41.7	15.97	12.56
111	2007	14	2315	39.88	na	4.3	59.32	19.42	12.57
111	2007	14	2330	39.88	na	3.589	60.09	18.89	12.57
111	2007	14	2345	39.88	na	3.533	70.8	21.42	12.57
111	2007	14	2400	39.97	na	4.12	45.48	16.59	12.55
111	2007	15	15	39.9	na	4.215	62.29	22.48	12.57
111	2007	15	30	39.8	na	4.185	61.26	19.79	12.57
111	2007	15	45	39.7	na	4.237	73	20.63	12.56
111	2007	15	100	39.73	na	3.251	84.3	23.71	12.55
111	2007	15	115	39.78	na	4.386	73.2	17.36	12.56
111	2007	15	130	39.75	na	4.871	81.4	16.08	12.56
111	2007	15	145	39.71	na	4.453	67.52	16.81	12.56
111	2007	15	200	39.67	na	4.062	82	20.04	12.55
111	2007	15	215	39.63	na	4.285	79.9	19.67	12.56
111	2007	15	230	39.51	na	4.674	81.8	16.88	12.56
111	2007	15	245	39.4	na	4.754	79	16.62	12.56
111	2007	15	300	39.32	na	4.613	74.9	16.24	12.55
111	2007	15	315	39.33	na	4.835	82.1	17.92	12.56
111	2007	15	330	39.33	na	5.296	88.7	18.99	12.56

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	15	345	39.4	na	4.996	84.3	18	12.56
111	2007	15	400	39.5	na	4.334	88.4	18.5	12.55
111	2007	15	415	39.58	na	4.165	84.6	17.78	12.55
111	2007	15	430	39.61	na	4.457	89	14.57	12.55
111	2007	15	445	39.69	na	3.925	98.9	18.73	12.55
111	2007	15	500	39.7	na	4.378	103.4	16.94	12.54
111	2007	15	515	39.68	na	4.873	107.7	17.75	12.55
111	2007	15	530	39.45	na	6.304	112.7	19.88	12.55
111	2007	15	545	39.32	na	4.247	102.1	19.93	12.55
111	2007	15	600	39.21	na	4.3	99.2	18.61	12.54
111	2007	15	615	39.17	na	4.167	93.2	18.29	12.55
111	2007	15	630	39.24	na	4.173	97.4	18.67	12.55
111	2007	15	645	39.19	na	4.696	88.7	16.12	12.55
111	2007	15	700	39.27	na	3.823	80.6	20.73	12.54
111	2007	15	715	39.4	na	3.988	83.7	23.21	12.55
111	2007	15	730	39.48	na	4.728	88	20.35	12.55
111	2007	15	745	39.52	na	5.268	89.2	16.08	12.55
111	2007	15	800	39.66	na	5.638	93.5	16.34	12.54
111	2007	15	815	39.77	na	5.404	94	15.45	12.55
111	2007	15	830	39.92	na	5.34	84.7	18.32	12.55
111	2007	15	845	40.17	na	5.255	91.9	18.51	12.55
111	2007	15	900	40.27	na	5.881	84.4	20.39	12.54
111	2007	15	915	40.34	na	5.493	85.3	14.91	12.55
111	2007	15	930	40.27	na	5.491	93.1	17.35	12.55
111	2007	15	945	40.39	na	5.253	92	16.18	12.55
111	2007	15	1000	40.7	na	4.219	82.4	17.32	12.55
111	2007	15	1015	41.02	na	4.122	77.3	19	12.55
111	2007	15	1030	41.37	na	3.801	80.3	19.45	12.55
111	2007	15	1045	41.75	na	3.945	76.9	18.06	12.56
111	2007	15	1100	42.07	na	2.893	78.5	19.62	12.55
111	2007	15	1115	42.34	na	2.742	60.6	29.81	12.56
111	2007	15	1130	42.66	na	3.843	51.39	24.08	12.57
111	2007	15	1145	42.84	na	3.316	49.19	23.77	12.59
111	2007	15	1200	42.94	na	3.817	31.35	22.31	12.58
111	2007	15	1215	42.86	na	3.696	47.95	23.42	12.58
111	2007	15	1230	42.91	na	3.165	47.12	18.65	12.59
111	2007	15	1245	43.03	na	3.35	59.54	23.14	12.63
111	2007	15	1300	43.12	na	4.179	45.35	20.36	12.65
111	2007	15	1315	42.83	na	4.402	40.26	22.57	12.81
111	2007	15	1330	42.51	na	4.883	25.12	24.88	12.79
111	2007	15	1345	42.39	na	3.998	39.54	34.94	12.75
111	2007	15	1400	42.61	na	2.67	69.36	24.62	12.89
111	2007	15	1415	43.05	na	1.192	78.1	21.47	13.07
111	2007	15	1430	43.71	na	0.358	212.8	43	13.19
111	2007	15	1445	44.3	na	1.232	16.69	23.06	13.15
111	2007	15	1500	44.63	na	1.796	27.51	26.96	13.29
111	2007	15	1515	45.07	na	1.423	23.84	22.54	13.17
111	2007	15	1530	45.2	na	0.89	11.83	58.52	13.06
111	2007	15	1545	45.58	na	1.726	229.1	48.01	13.03
111	2007	15	1600	45.89	na	2.429	257.6	23.68	12.93
111	2007	15	1615	45.86	na	1.905	255.5	19.31	12.87
111	2007	15	1630	45.77	na	1.612	253	22.32	12.83
111	2007	15	1645	45.9	na	2.83	277.7	18.51	12.79
111	2007	15	1700	45.9	na	2.764	256.8	21.56	12.75
111	2007	15	1715	45.77	na	2.2	277.1	18.64	12.73
111	2007	15	1730	45.76	na	2.019	266.3	28.46	12.71
111	2007	15	1745	45.66	na	1.937	233.7	22.41	12.69
111	2007	15	1800	45.47	na	2.072	209	33.43	12.66
111	2007	15	1815	45.37	na	2.81	251.9	48.88	12.65
111	2007	15	1830	45.33	na	2.388	257.7	25.55	12.64

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	15	1845	45.37	na	1.783	252.1	18.54	12.63
111	2007	15	1900	45.56	na	2.798	244.3	23.13	12.6
111	2007	15	1915	45.54	na	2.702	252.1	21.57	12.61
111	2007	15	1930	45.5	na	2.819	263.1	21.09	12.61
111	2007	15	1945	45.58	na	3.68	263.4	29.65	12.6
111	2007	15	2000	45.67	na	1.661	238.5	35.25	12.59
111	2007	15	2015	45.83	na	2.8	263.8	26.98	12.59
111	2007	15	2030	45.98	na	2.534	261.4	27.4	12.59
111	2007	15	2045	46.28	na	2.015	246.6	25.83	12.59
111	2007	15	2100	46.58	na	2.951	277.7	27.4	12.57
111	2007	15	2115	46.96	na	3.125	250.8	24.43	12.59
111	2007	15	2130	47.42	na	4.7	254.8	25.27	12.59
111	2007	15	2145	47.49	na	3.416	257.5	19.36	12.59
111	2007	15	2200	47.86	na	4.281	247.8	21.88	12.57
111	2007	15	2215	48.6	na	4.024	262.9	23.35	12.59
111	2007	15	2230	49.18	na	4.08	283.5	25.51	12.59
111	2007	15	2245	49.79	na	4.161	266	22.13	12.59
111	2007	15	2300	50.87	na	4.809	262.6	18.64	12.58
111	2007	15	2315	51.28	na	5.006	268.4	21.98	12.59
111	2007	15	2330	51.68	na	6.574	274.1	20.6	12.59
111	2007	15	2345	51.91	na	7.12	281.2	15.03	12.6
111	2007	15	2400	52.26	na	6.085	296.7	24.45	12.58
111	2007	16	15	52.87	na	4.907	292	27.08	12.6
111	2007	16	30	52.98	na	4.738	286	14.39	12.6
111	2007	16	45	53	na	3.491	264.7	18.87	12.6
111	2007	16	100	52.76	na	2.233	254.8	21.85	12.58
111	2007	16	115	51.92	na	3.233	254.6	26.63	12.6
111	2007	16	130	51.27	na	2.162	261	20.62	12.6
111	2007	16	145	50.95	na	1.399	239.5	16.43	12.6
111	2007	16	200	50.54	na	2.996	266.7	46.79	12.59
111	2007	16	215	51.83	na	4.607	339.1	32.13	12.6
111	2007	16	230	52.38	na	4.485	333	29.76	12.6
111	2007	16	245	53.07	na	6.292	328.1	32.91	12.6
111	2007	16	300	53.81	na	6.769	335.5	29.61	12.59
111	2007	16	315	53.93	na	6.252	329.1	30.37	12.6
111	2007	16	330	53.77	na	5.656	348.7	27.81	12.6
111	2007	16	345	53.45	na	6.161	329.6	28.22	12.61
111	2007	16	400	52.46	na	4.463	327.9	25.64	12.6
111	2007	16	415	52.12	na	3.607	326.4	31.31	12.6
111	2007	16	430	52.1	na	3.205	331.2	26.53	12.6
111	2007	16	445	52.13	na	3.221	302.8	22.36	12.6
111	2007	16	500	52.15	na	2.547	311.8	28.63	12.59
111	2007	16	515	51.88	na	1.439	342.6	40.77	12.6
111	2007	16	530	51.47	na	1.149	321.1	42.54	12.6
111	2007	16	545	51.26	na	1.215	6.384	17.65	12.6
111	2007	16	600	51.26	na	2.425	0.601	27.25	12.59
111	2007	16	615	51.21	na	2.467	355.2	34.24	12.6
111	2007	16	630	50.94	na	3.543	348.6	26.49	12.6
111	2007	16	645	50.52	na	5.117	6.429	29.59	12.6
111	2007	16	700	49.76	na	7.9	9.03	28.03	12.58
111	2007	16	715	48.28	na	10.2	17.63	25.33	12.59
111	2007	16	730	46.93	na	7.68	6.097	24.14	12.59
111	2007	16	745	46.12	na	6.477	353.1	28.19	12.58
111	2007	16	800	45.49	na	7.26	18.95	26.1	12.57
111	2007	16	815	44.63	na	8.64	2.476	28.61	12.58
111	2007	16	830	43.89	na	8.33	357	32.12	12.58
111	2007	16	845	43.45	na	7.5	3.893	29.37	12.57
111	2007	16	900	43.23	na	6.368	1.635	28.87	12.56
111	2007	16	915	43	na	5.414	2.48	26.66	12.57
111	2007	16	930	42.82	na	8.67	2.398	27.22	12.57

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	16	945	42.42	na	8.33	358.9	35.76	12.56
111	2007	16	1000	42.1	na	8.83	3.729	24.92	12.57
111	2007	16	1015	41.96	na	7.5	2.388	27.76	12.67
111	2007	16	1030	41.81	na	7.8	357	31.58	12.84
111	2007	16	1045	41.4	na	10.53	6.792	29.69	13.06
111	2007	16	1100	41.01	na	8.38	350.6	33.67	13.27
111	2007	16	1115	40.66	na	7.76	342.6	35.17	13.38
111	2007	16	1130	40.2	na	8.66	348.9	28.8	13.49
111	2007	16	1145	39.9	na	7.23	351.8	32.54	13.52
111	2007	16	1200	39.58	na	8.6	2.905	30.63	13.58
111	2007	16	1215	38.74	na	9.92	341.9	33.36	13.46
111	2007	16	1230	38.2	na	8.62	351.7	31.37	13.78
111	2007	16	1245	37.75	na	7.97	351.4	27.62	13.78
111	2007	16	1300	37.45	na	7.97	350.9	27.49	13.78
111	2007	16	1315	36.96	na	8.72	3.097	27.85	13.79
111	2007	16	1330	36.81	na	8.44	351.9	30.41	13.79
111	2007	16	1345	36.48	na	8.76	349.8	27.59	13.81
111	2007	16	1400	36.36	na	7.78	1.262	30.77	13.81
111	2007	16	1415	35.89	na	7.69	355.9	30.78	13.83
111	2007	16	1430	35.55	na	9.6	2.485	32.76	13.83
111	2007	16	1445	35.53	na	7.96	346.7	31.31	13.84
111	2007	16	1500	35.51	na	7.54	355.5	32.53	13.84
111	2007	16	1515	35.26	na	8.06	357.7	26.71	13.84
111	2007	16	1530	35.35	na	8.98	354.6	33.42	13.84
111	2007	16	1545	35.3	na	7.88	345.7	36.59	13.84
111	2007	16	1600	35.08	na	8.38	334.2	30.07	13.84
111	2007	16	1615	34.56	na	8.14	344.5	31.9	13.86
111	2007	16	1630	34.09	na	8.89	335.8	36.66	13.87
111	2007	16	1645	33.55	na	8.6	336	27.63	13.28
111	2007	16	1700	33.23	na	8.16	351.9	29.54	13.12
111	2007	16	1715	32.74	na	9.77	330	24.33	13.04
111	2007	16	1730	32.33	na	9.44	341.9	29	13
111	2007	16	1745	32.07	na	7.74	332.5	35.37	12.97
111	2007	16	1800	31.8	na	8.3	325.1	30.02	12.94
111	2007	16	1815	31.49	na	7.15	339.5	31.27	12.93
111	2007	16	1830	31.31	na	8.35	345.5	31.93	12.91
111	2007	16	1845	31.21	na	8.35	350.8	33.56	12.9
111	2007	16	1900	31.04	na	7.81	342.8	34.18	12.88
111	2007	16	1915	30.72	na	9.04	348.5	31.64	12.88
111	2007	16	1930	30.44	na	7.65	339.1	33.19	12.87
111	2007	16	1945	30.28	na	7.4	350.1	28.99	12.86
111	2007	16	2000	30.06	na	8.03	356.4	34.58	12.84
111	2007	16	2015	29.67	na	9.25	358.4	25.96	12.84
111	2007	16	2030	29.26	na	6.553	353.7	32.18	12.84
111	2007	16	2045	28.89	na	6.447	348.5	34.76	12.83
111	2007	16	2100	28.67	na	6.716	345.6	32.24	12.81
111	2007	16	2115	28.44	na	6.559	335.5	34.62	12.82
111	2007	16	2130	28.35	na	7.92	355.5	24.67	12.81
111	2007	16	2145	28.18	na	8.4	344.1	24.63	12.8
111	2007	16	2200	27.8	na	8.44	345.1	29.88	12.78
111	2007	16	2215	27.44	na	6.185	351.6	29.77	12.79
111	2007	16	2230	27.02	na	9.92	5.519	30.22	12.79
111	2007	16	2245	26.56	na	7.91	13.28	24.34	12.78
111	2007	16	2300	26.19	na	7.55	5.079	28.59	12.77
111	2007	16	2315	25.91	na	6.25	2.946	27.72	12.77
111	2007	16	2330	25.65	na	7.48	356.5	29.28	12.77
111	2007	16	2345	25.21	na	7.51	345.5	31.36	12.76
111	2007	16	2400	24.66	na	7.43	338.7	34.21	12.74
111	2007	17	15	24.1	na	8.94	350.2	32.7	12.75
111	2007	17	30	23.65	na	8.37	347.2	32.09	12.75

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	17	45	23.17	na	9.3	336.6	31.91	12.73
111	2007	17	100	22.8	na	8.96	355.6	31.68	12.72
111	2007	17	115	22.29	na	9.01	11.27	25.27	12.73
111	2007	17	130	21.9	na	8.93	353.5	33.47	12.72
111	2007	17	145	21.6	na	9.17	359.7	29.36	12.71
111	2007	17	200	21.3	na	9.1	9.37	23.75	12.7
111	2007	17	215	21.05	na	8.31	4.48	27.83	12.7
111	2007	17	230	20.75	na	7.75	3.855	27.86	12.7
111	2007	17	245	20.39	na	7.07	343.1	31.65	12.69
111	2007	17	300	20.02	na	5.565	347.3	31.24	12.68
111	2007	17	315	19.91	na	8.14	354.8	25.77	12.69
111	2007	17	330	19.64	na	6.626	358.8	28.98	12.68
111	2007	17	345	19.48	na	5.825	358.8	31.26	12.67
111	2007	17	400	19.38	na	8.76	3.878	30.53	12.66
111	2007	17	415	19.24	na	9.32	3.024	30.96	12.67
111	2007	17	430	19.06	na	8.72	11.37	30.23	12.67
111	2007	17	445	18.93	na	8.92	11.77	30.13	12.66
111	2007	17	500	18.9	na	10.21	9.78	24.4	12.65
111	2007	17	515	18.82	na	9.01	11.26	27.76	12.65
111	2007	17	530	18.69	na	9	5.012	25.65	12.65
111	2007	17	545	18.54	na	8.31	0.279	31.47	12.65
111	2007	17	600	18.39	na	6.755	10.85	28.38	12.63
111	2007	17	615	18.27	na	6.958	7.76	27.37	12.64
111	2007	17	630	18.16	na	7.7	4.725	29.12	12.64
111	2007	17	645	18.02	na	6.201	7.47	26.18	12.64
111	2007	17	700	17.94	na	6.237	3.94	28.66	12.62
111	2007	17	715	17.78	na	4.756	354.9	35.43	12.63
111	2007	17	730	17.67	na	5.272	358.2	25.87	12.62
111	2007	17	745	17.53	na	4.925	359.3	27.33	12.62
111	2007	17	800	17.41	na	4.175	359.6	24.59	12.6
111	2007	17	815	17.32	na	4.11	359.4	27.17	12.62
111	2007	17	830	17.26	na	3.728	343.8	29.39	12.61
111	2007	17	845	17.47	na	3.871	354.8	29.11	12.72
111	2007	17	900	18.07	na	4.964	356.2	27.31	14.19
111	2007	17	915	18.64	na	4.815	9.97	27.18	14.17
111	2007	17	930	19.01	na	6.392	16.64	21.72	14.15
111	2007	17	945	19.72	na	5.94	13.56	27.69	14.13
111	2007	17	1000	19.79	na	6.811	8.76	25.32	14.11
111	2007	17	1015	20.01	na	7.08	355.9	29.64	14.11
111	2007	17	1030	20.14	na	6.193	355.3	30.02	14.09
111	2007	17	1045	20.72	na	5.493	3.045	32.98	14.08
111	2007	17	1100	21.1	na	5.642	351.2	34.66	14.06
111	2007	17	1115	21.33	na	5.98	348.4	31.15	14.05
111	2007	17	1130	21.6	na	5.698	5.331	35.95	14.05
111	2007	17	1145	22.07	na	5.28	340.9	45.89	14.04
111	2007	17	1200	22.4	na	5.125	332.8	38.99	14.03
111	2007	17	1215	22.43	na	5.523	351.5	36.93	14.02
111	2007	17	1230	22.71	na	6.745	345.5	33.99	14.02
111	2007	17	1245	23.36	na	5.809	15	30.75	14.02
111	2007	17	1300	23.66	na	6.724	17.6	26.62	14.01
111	2007	17	1315	24.05	na	7.09	27.03	27.45	14.01
111	2007	17	1330	24.16	na	5.471	352.1	46.58	14.01
111	2007	17	1345	24.49	na	5.123	1.617	41.03	14.01
111	2007	17	1400	25	na	6.189	24.54	27.4	14
111	2007	17	1415	25.13	na	6.924	6.512	35.39	14
111	2007	17	1430	24.94	na	6.869	12.34	39.18	14.01
111	2007	17	1445	25.37	na	5.561	356.9	36.45	14
111	2007	17	1500	25.85	na	5.286	348.2	43.46	13.99
111	2007	17	1515	26.09	na	5.298	2.488	28.4	13.98
111	2007	17	1530	26.18	na	5.398	347.5	39.28	13.98

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	17	1545	26.25	na	5.984	331.6	45.83	13.98
111	2007	17	1600	26.29	na	5.722	32.7	23.71	13.96
111	2007	17	1615	26.23	na	5.215	1.841	36.59	13.97
111	2007	17	1630	26.63	na	5.372	354.9	35.91	13.97
111	2007	17	1645	26.41	na	5.579	8.53	30.44	13.98
111	2007	17	1700	26.38	na	4.781	355.5	28.88	13.98
111	2007	17	1715	26.11	na	5.064	19.29	27.34	13.99
111	2007	17	1730	26.11	na	4.42	22.39	22.87	14
111	2007	17	1745	25.97	na	3.865	21.02	24.23	13.57
111	2007	17	1800	25.83	na	3.177	15.12	32.05	13.12
111	2007	17	1815	25.73	na	3.309	40.53	23.07	13.04
111	2007	17	1830	25.54	na	1.864	5.193	35.8	12.99
111	2007	17	1845	25.47	na	1.926	324.1	25.72	12.95
111	2007	17	1900	25.06	na	1.227	271.5	23.53	12.91
111	2007	17	1915	24.84	na	0.954	312	24.72	12.89
111	2007	17	1930	24.37	na	1.069	336.8	35.29	12.87
111	2007	17	1945	24.07	na	0.435	332.4	15.05	12.85
111	2007	17	2000	23.86	na	0.962	291.2	25.56	12.83
111	2007	17	2015	23.19	na	0.018	44.52	0.1	12.83
111	2007	17	2030	23.36	na	1.307	84.6	38.88	12.81
111	2007	17	2045	23.18	na	0.157	9.84	9.42	12.8
111	2007	17	2100	22.85	na	0	0	0	12.78
111	2007	17	2115	22.88	na	0.178	12.77	2.262	12.78
111	2007	17	2130	22.56	na	0.08	284.2	4.437	12.77
111	2007	17	2145	21.96	na	0	0	0	12.76
111	2007	17	2200	21.68	na	0.14	303.3	4.578	12.74
111	2007	17	2215	21.58	na	0.009	120.4	0	12.75
111	2007	17	2230	21.69	na	1.048	87.9	18.94	12.74
111	2007	17	2245	22.22	na	1.727	98.2	21.77	12.73
111	2007	17	2300	22.62	na	2.396	88	19.55	12.72
111	2007	17	2315	22.3	na	2.158	77.8	18.87	12.73
111	2007	17	2330	22	na	1.43	85.9	30.84	12.72
111	2007	17	2345	21.79	na	1.972	68.95	21.16	12.72
111	2007	17	2400	21.53	na	1.265	72.3	29.8	12.69
111	2007	18	15	21.17	na	0.665	296.9	40.84	12.71
111	2007	18	30	20.69	na	1.175	319.5	15.83	12.71
111	2007	18	45	20.08	na	0.458	3.611	28.22	12.7
111	2007	18	100	19.76	na	0.726	79.1	26.12	12.68
111	2007	18	115	19.62	na	0.197	349.4	39.71	12.69
111	2007	18	130	19.29	na	0.647	320.4	22.83	12.68
111	2007	18	145	19.22	na	0.792	108.2	34.12	12.68
111	2007	18	200	19.19	na	0.04	30.86	2.526	12.66
111	2007	18	215	18.95	na	0.607	85.3	16.83	12.67
111	2007	18	230	19.56	na	1.431	72	23.07	12.67
111	2007	18	245	20	na	1.176	62.29	21.11	12.66
111	2007	18	300	19.87	na	1.07	75.3	17.07	12.65
111	2007	18	315	20	na	1.441	77.2	20.92	12.66
111	2007	18	330	20.27	na	2.44	133.1	25.28	12.66
111	2007	18	345	20.94	na	1.982	105.2	19.12	12.66
111	2007	18	400	21.11	na	1.835	105.9	25.08	12.64
111	2007	18	415	20.91	na	2.011	76.5	21.11	12.65
111	2007	18	430	20.69	na	2.513	72.6	17.27	12.65
111	2007	18	445	20.45	na	1.692	61.33	20.28	12.65
111	2007	18	500	20.44	na	2.668	85	14.97	12.63
111	2007	18	515	20.37	na	2.881	86.1	16.69	12.65
111	2007	18	530	20.34	na	2.529	79.4	19.56	12.65
111	2007	18	545	20.4	na	2.293	77.4	15.66	12.65
111	2007	18	600	20.38	na	2.432	84.3	17.56	12.63
111	2007	18	615	20.36	na	2.468	89.5	17.35	12.64
111	2007	18	630	20.4	na	2.645	90	14.96	12.64

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	18	645	20.66	na	2.617	85.3	17.96	12.63
111	2007	18	700	20.77	na	2.563	77.7	16.04	12.62
111	2007	18	715	20.95	na	1.941	74.9	18.06	12.63
111	2007	18	730	21.26	na	1.793	66.48	25.12	12.63
111	2007	18	745	21.69	na	1.673	65.34	26.64	12.63
111	2007	18	800	22.14	na	2.674	90.6	16.94	12.62
111	2007	18	815	22.61	na	3.118	88.8	19.03	12.63
111	2007	18	830	23.49	na	3.921	95	15.45	12.63
111	2007	18	845	23.96	na	3.573	98	21.44	12.63
111	2007	18	900	24.53	na	3.796	108.9	17.67	12.7
111	2007	18	915	25.06	na	3.738	99.1	19.54	13.29
111	2007	18	930	25.51	na	3.452	88.4	21.96	13.37
111	2007	18	945	26.45	na	2.316	96.5	21.1	13.47
111	2007	18	1000	29.58	na	5.59	167.8	50.03	13.35
111	2007	18	1015	32.4	na	6.258	192.1	20.05	13.25
111	2007	18	1030	33.06	na	6.038	206	20.47	13.85
111	2007	18	1045	33.81	na	6.596	213.8	20.04	13.5
111	2007	18	1100	34.24	na	6.563	215.9	22.2	13.96
111	2007	18	1115	34.91	na	5.946	223.6	22.73	13.94
111	2007	18	1130	35.43	na	6.062	223.3	22.51	13.92
111	2007	18	1145	35.67	na	6.026	228.1	24.43	13.91
111	2007	18	1200	36.21	na	6.69	223.8	20.91	13.89
111	2007	18	1215	36.76	na	6.867	217.8	22.92	13.88
111	2007	18	1230	36.47	na	6.646	214	21.57	13.88
111	2007	18	1245	36.73	na	6.511	213.2	22.23	13.87
111	2007	18	1300	37.17	na	5.668	215.7	20.65	13.31
111	2007	18	1315	36.88	na	5.791	212.5	20.53	13.26
111	2007	18	1330	37.05	na	4.589	220.5	21.99	13.17
111	2007	18	1345	37.22	na	4.181	215.5	22.62	13.08
111	2007	18	1400	37.39	na	5.424	215.4	18.48	13
111	2007	18	1415	37.55	na	5.28	221.4	22.19	13.03
111	2007	18	1430	37.62	na	5.463	213.3	22.07	13.61
111	2007	18	1445	37.61	na	5.829	222	18.36	13.19
111	2007	18	1500	37.75	na	5.533	215.4	21.1	13.11
111	2007	18	1515	37.73	na	3.348	218.1	23.21	13.05
111	2007	18	1530	37.9	na	3.414	216.6	20.23	12.98
111	2007	18	1545	38.46	na	4.104	213.9	22.17	12.95
111	2007	18	1600	38.93	na	4.493	210.3	19.57	12.91
111	2007	18	1615	38.88	na	4.984	216.9	19.35	12.91
111	2007	18	1630	38.46	na	4.921	215.7	20.32	12.9
111	2007	18	1645	37.92	na	5.1	219.1	19.36	12.89
111	2007	18	1700	37.63	na	4.402	219.7	18.33	12.87
111	2007	18	1715	37.44	na	4.056	227.2	24.2	12.87
111	2007	18	1730	37.5	na	2.452	234.5	22.38	12.86
111	2007	18	1745	37.48	na	1.672	218.8	28.09	12.85
111	2007	18	1800	37.51	na	0.795	220	22.75	12.83
111	2007	18	1815	37.57	na	0.32	230.3	32.22	12.84
111	2007	18	1830	37.68	na	0.984	8.75	33.29	12.83
111	2007	18	1845	37.69	na	1.555	41.48	14.65	12.82
111	2007	18	1900	37.74	na	2.235	58.48	12.42	12.81
111	2007	18	1915	37.63	na	2.201	64.7	15.4	12.81
111	2007	18	1930	37.49	na	2.752	50.01	16.06	12.79
111	2007	18	1945	37.36	na	2.844	58.16	17.25	12.79
111	2007	18	2000	37.21	na	1.834	49.63	15.96	12.77
111	2007	18	2015	36.27	na	0.441	36.69	11.15	12.77
111	2007	18	2030	35.15	na	4.239	43.83	27.86	12.77
111	2007	18	2045	34.83	na	4.418	28.21	24.51	12.76
111	2007	18	2100	34.73	na	3.822	26.06	24.81	12.73
111	2007	18	2115	34.69	na	3.994	358	29.78	12.74
111	2007	18	2130	34.41	na	5.575	6.209	27.37	12.74

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	18	2145	34.46	na	4.95	19.17	22.64	12.74
111	2007	18	2200	34.56	na	3.786	29.34	16.53	12.72
111	2007	18	2215	34.71	na	3.422	21.19	27	12.72
111	2007	18	2230	34.77	na	3.235	6.312	26.33	12.72
111	2007	18	2245	34.69	na	2.223	1.097	30.36	12.71
111	2007	18	2300	34.59	na	2.429	349.8	27.12	12.7
111	2007	18	2315	34.55	na	1.342	343	26.26	12.7
111	2007	18	2330	34.55	na	1.868	19.15	27.56	12.7
111	2007	18	2345	34.7	na	1.59	30.22	22.93	12.7
111	2007	18	2400	34.75	na	0.674	31.22	13.33	12.68
111	2007	19	15	34.85	na	0.831	294.2	15.72	12.69
111	2007	19	30	34.78	na	0.488	259.5	11.45	12.69
111	2007	19	45	34.76	na	0.078	221.3	8.3	12.69
111	2007	19	100	34.71	na	0.489	255.7	8.98	12.68
111	2007	19	115	34.69	na	0.25	238.6	7.3	12.68
111	2007	19	130	34.59	na	0.04	195.2	1.293	12.68
111	2007	19	145	34.54	na	1.793	214.6	16.37	12.68
111	2007	19	200	34.48	na	1.386	232	27.95	12.67
111	2007	19	215	34.42	na	0.532	250.5	11.93	12.68
111	2007	19	230	34.37	na	na	na	na	12.68
111	2007	19	245	34.44	na	na	na	na	12.68
111	2007	19	300	34.6	na	0.887	3.808	9.31	12.66
111	2007	19	315	34.67	na	0.844	45.3	17.92	12.67
111	2007	19	330	34.7	na	1.59	47.28	14.03	12.67
111	2007	19	345	34.7	na	1.182	31.16	17.66	12.67
111	2007	19	400	34.67	na	1.726	21.87	15.21	12.66
111	2007	19	415	34.72	na	0.946	6.512	22.5	12.66
111	2007	19	430	34.71	na	1.178	5.078	20.11	12.66
111	2007	19	445	34.75	na	0.895	305.8	28.13	12.66
111	2007	19	500	34.86	na	1.693	296.3	25.33	12.65
111	2007	19	515	34.91	na	2.343	292	14.55	12.66
111	2007	19	530	34.81	na	1.833	288.2	26.15	12.66
111	2007	19	545	34.81	na	1.315	303.1	14.89	12.66
111	2007	19	600	34.76	na	1.959	284.1	15.17	12.64
111	2007	19	615	34.72	na	1.389	286.5	19.44	12.66
111	2007	19	630	34.66	na	2.049	312.6	21.59	12.65
111	2007	19	645	34.65	na	3.275	325.1	24.15	12.65
111	2007	19	700	34.55	na	2.807	298.2	24.74	12.64
111	2007	19	715	34.35	na	2.741	309.4	23.02	12.64
111	2007	19	730	34.24	na	3.328	329.3	23.77	12.64
111	2007	19	745	34.1	na	3.744	326.6	25.28	12.64
111	2007	19	800	33.64	na	4.487	330.8	31.51	12.63
111	2007	19	815	32.34	na	4.254	333.3	34.99	12.64
111	2007	19	830	31.67	na	3.026	318.8	29.48	12.63
111	2007	19	845	31.58	na	3.557	302	20.92	12.63
111	2007	19	900	31.55	na	3.396	303.5	19.52	12.61
111	2007	19	915	31.49	na	3.676	302.6	23.37	12.62
111	2007	19	930	31.56	na	2.42	281.1	28.12	12.62
111	2007	19	945	31.65	na	2.432	323	22.21	12.74
111	2007	19	1000	31.86	na	3.865	315	23.37	12.79
111	2007	19	1015	32.18	na	3.644	306.1	27.04	13.11
111	2007	19	1030	32.64	na	4.563	311.6	26.88	13.91
111	2007	19	1045	33.36	na	5.666	330.7	29.21	13.9
111	2007	19	1100	34.14	na	5.926	316.1	29.8	13.88
111	2007	19	1115	35.35	na	5.183	313.9	28.76	13.86
111	2007	19	1130	36.27	na	6.392	317.8	27.29	13.84
111	2007	19	1145	37.3	na	7.25	309.3	24.92	13.84
111	2007	19	1200	37.98	na	7	327	31.99	13.81
111	2007	19	1215	38.48	na	6.887	331.3	29.52	13.81
111	2007	19	1230	39.33	na	6.431	334.8	35.66	13.8

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	19	1245	39.37	na	8.28	328.2	36.48	13.79
111	2007	19	1300	39.9	na	8.36	335	33.44	13.78
111	2007	19	1315	39.91	na	7.54	333.7	30.79	13.79
111	2007	19	1330	40.25	na	9.63	339.2	31.25	13.78
111	2007	19	1345	40.26	na	10.05	332.3	35.34	13.78
111	2007	19	1400	40.3	na	10.27	340.9	35.36	13.77
111	2007	19	1415	40.44	na	8.25	342.9	38.1	13.78
111	2007	19	1430	41.35	na	11.37	325.3	29.45	13.77
111	2007	19	1445	41.76	na	9.59	328.9	25.54	13.76
111	2007	19	1500	40.98	na	9.62	343.3	33.33	13.75
111	2007	19	1515	40.98	na	9.7	355.8	27.95	13.76
111	2007	19	1530	41.37	na	10.18	320.8	36.24	13.75
111	2007	19	1545	40.79	na	9.09	338.9	32.6	13.76
111	2007	19	1600	40.75	na	10.48	333.2	36.79	13.76
111	2007	19	1615	40.73	na	9.16	332	30.73	13.76
111	2007	19	1630	40.35	na	11.3	342.7	29.64	13.77
111	2007	19	1645	40.3	na	9.47	343.7	34.46	13.77
111	2007	19	1700	40.04	na	10.56	330	36.13	13.77
111	2007	19	1715	39.74	na	9.42	337.1	39.05	13.79
111	2007	19	1730	39.51	na	9.33	337.4	35.12	13.8
111	2007	19	1745	38.98	na	7.51	336.7	31.6	13.17
111	2007	19	1800	38.47	na	6.638	330.5	31.78	13.05
111	2007	19	1815	38.12	na	6.35	321.8	30.6	13.01
111	2007	19	1830	37.88	na	5.801	331.4	27.36	12.97
111	2007	19	1845	37.67	na	5.008	329.2	33.14	12.95
111	2007	19	1900	37.46	na	5.402	328.4	26.86	12.91
111	2007	19	1915	37.44	na	6.292	334.8	31.77	12.91
111	2007	19	1930	37.59	na	9.13	334	31.04	12.9
111	2007	19	1945	37.33	na	7.43	340.2	31.77	12.89
111	2007	19	2000	37.16	na	7.83	336.2	26.3	12.88
111	2007	19	2015	36.77	na	9.43	324.7	32.45	12.88
111	2007	19	2030	36.29	na	7.77	308.7	34.06	12.87
111	2007	19	2045	35.98	na	7.01	311.8	29.58	12.86
111	2007	19	2100	35.72	na	8.32	311.6	24.79	12.84
111	2007	19	2115	34.98	na	6.61	300.2	24.96	12.84
111	2007	19	2130	34.26	na	6.477	309.3	24.04	12.84
111	2007	19	2145	34.39	na	6.463	318.6	29.85	12.83
111	2007	19	2200	34.79	na	6.61	326.9	29.44	12.82
111	2007	19	2215	34.79	na	6.175	331.4	30.86	12.81
111	2007	19	2230	34.6	na	6.954	330.1	30.69	12.8
111	2007	19	2245	34.34	na	5.952	324.6	32.05	12.81
111	2007	19	2300	34.14	na	8.85	324.5	34.23	12.8
111	2007	19	2315	33.91	na	8.77	327.2	30.82	12.8
111	2007	19	2330	33.59	na	7.81	315.5	28.44	12.79
111	2007	19	2345	33.2	na	7.72	317.9	29.43	12.79
111	2007	19	2400	32.92	na	7.24	320.2	27.81	12.77
111	2007	20	15	32.75	na	8.71	325	29.76	12.78
111	2007	20	30	32.55	na	8.19	322.7	29.97	12.78
111	2007	20	45	32.23	na	7.66	317.5	33.86	12.77
111	2007	20	100	32	na	8.25	315.7	27.55	12.75
111	2007	20	115	31.64	na	8	318.9	28.31	12.76
111	2007	20	130	31.48	na	7.41	312.6	26.23	12.76
111	2007	20	145	31.33	na	7.33	313.5	28.85	12.75
111	2007	20	200	31.22	na	7.82	319.4	26.47	12.73
111	2007	20	215	31.05	na	7.47	324.9	30.73	12.74
111	2007	20	230	30.97	na	6.785	323.8	31.4	12.74
111	2007	20	245	30.89	na	7.03	309.5	29.3	12.74
111	2007	20	300	30.79	na	7.88	331.9	30.8	12.72
111	2007	20	315	30.54	na	6.511	327.1	33.27	12.73
111	2007	20	330	30.43	na	7.31	328.5	30.32	12.72

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	20	345	30.41	na	6.537	325.6	26.18	12.72
111	2007	20	400	30.42	na	7.67	321.7	31.86	12.71
111	2007	20	415	30.15	na	7.23	322.2	26.68	12.72
111	2007	20	430	30.03	na	7.77	326	32.44	12.72
111	2007	20	445	29.86	na	5.706	319.6	32.94	12.71
111	2007	20	500	29.48	na	6.342	308.4	29.03	12.7
111	2007	20	515	29.25	na	5.616	318.6	30.81	12.7
111	2007	20	530	29.08	na	5.903	312	27.43	12.7
111	2007	20	545	28.88	na	6.159	320.4	34.8	12.7
111	2007	20	600	28.94	na	7.88	319.9	35.25	12.68
111	2007	20	615	28.96	na	9.02	313.6	29.37	12.69
111	2007	20	630	28.85	na	7.2	305.3	34.13	12.68
111	2007	20	645	28.78	na	8.19	323.1	28.65	12.68
111	2007	20	700	28.63	na	7.73	338.5	35.33	12.67
111	2007	20	715	28.35	na	7.78	328.1	34.14	12.68
111	2007	20	730	28.08	na	6.233	325.3	31.57	12.67
111	2007	20	745	27.82	na	6.612	326.8	31.97	12.67
111	2007	20	800	27.72	na	7.75	325.1	32.38	12.64
111	2007	20	815	27.52	na	6.7	323.3	33.33	12.66
111	2007	20	830	27.28	na	7.78	325.1	27.96	12.66
111	2007	20	845	27.36	na	8.67	329	31.33	12.7
111	2007	20	900	27.63	na	10.13	325.6	33.45	14.03
111	2007	20	915	27.84	na	10.13	327.1	28.71	14.01
111	2007	20	930	27.98	na	9.76	333.5	29.04	14
111	2007	20	945	28.18	na	10.01	336.2	30.3	13.98
111	2007	20	1000	28.41	na	10	329.2	35.54	13.97
111	2007	20	1015	28.56	na	9.92	323.6	25.5	13.96
111	2007	20	1030	28.8	na	9.9	331.1	35.4	13.96
111	2007	20	1045	28.72	na	8.44	342.1	35.64	13.97
111	2007	20	1100	28.52	na	10.88	333.5	37.28	13.96
111	2007	20	1115	28.69	na	10.62	328.9	35.89	13.96
111	2007	20	1130	29.28	na	9.15	327.9	33.9	13.95
111	2007	20	1145	29.6	na	10.66	335.9	38.31	13.94
111	2007	20	1200	30.16	na	8.66	329.5	31.16	13.94
111	2007	20	1215	30.2	na	11.16	343.1	36.34	13.94
111	2007	20	1230	30.28	na	10.28	332.6	30.38	13.94
111	2007	20	1245	30.07	na	12.98	337	29.37	13.94
111	2007	20	1300	30.36	na	12.4	333.1	33.94	13.93
111	2007	20	1315	29.96	na	13.77	332.6	32.19	13.94
111	2007	20	1330	30.66	na	11.3	342.2	32.24	13.94
111	2007	20	1345	31.05	na	11.25	334.5	35.15	13.94
111	2007	20	1400	30.86	na	10.83	347.4	38.76	13.94
111	2007	20	1415	30.46	na	12.54	331.8	36.56	13.94
111	2007	20	1430	30.36	na	10.51	333.5	32.71	13.94
111	2007	20	1445	30.42	na	11.78	338	29.95	13.94
111	2007	20	1500	30.33	na	11.77	338.8	35.45	13.93
111	2007	20	1515	30.3	na	12.6	330.2	32.39	13.94
111	2007	20	1530	30.17	na	13.23	335.5	31.47	13.94
111	2007	20	1545	30.14	na	11.97	353.7	35.04	13.94
111	2007	20	1600	29.94	na	11.51	344.9	30.73	13.93
111	2007	20	1615	29.51	na	12.2	331.7	27.83	13.94
111	2007	20	1630	28.79	na	12.6	343.6	35.03	13.94
111	2007	20	1645	28.56	na	11.79	346.5	34.01	13.95
111	2007	20	1700	28.25	na	11.15	343.3	32.47	13.95
111	2007	20	1715	27.95	na	9.37	343.6	30.15	13.96
111	2007	20	1730	27.43	na	10.46	343.2	31.94	13.98
111	2007	20	1745	26.82	na	12.07	344.8	28.21	13.74
111	2007	20	1800	26.26	na	10.98	346.6	28.72	13.12
111	2007	20	1815	25.97	na	8.15	356.4	32.33	13.04
111	2007	20	1830	25.52	na	8.47	342.1	27.99	12.98

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	20	1845	25.18	na	7.68	331.9	35.2	12.94
111	2007	20	1900	24.8	na	10.57	348.5	26.91	12.89
111	2007	20	1915	24.49	na	9.65	345.7	28.96	12.88
111	2007	20	1930	24.2	na	10.62	341.1	34.42	12.85
111	2007	20	1945	23.9	na	9.51	348.2	34.92	12.85
111	2007	20	2000	23.51	na	9.18	344.1	33.63	12.81
111	2007	20	2015	23.16	na	9.57	350.4	33.09	12.81
111	2007	20	2030	22.93	na	10.27	3.349	31.96	12.8
111	2007	20	2045	22.67	na	8.03	338.7	33.45	12.79
111	2007	20	2100	22.31	na	11.26	343.3	35.25	12.77
111	2007	20	2115	22.15	na	10.29	345	33.53	12.77
111	2007	20	2130	21.85	na	8.52	357.5	28.44	12.77
111	2007	20	2145	21.57	na	10.46	337.9	30.17	12.76
111	2007	20	2200	21.18	na	8.69	346	27.11	12.74
111	2007	20	2215	21.05	na	9.01	342.6	33.76	12.75
111	2007	20	2230	20.87	na	8.49	340.5	35.33	12.74
111	2007	20	2245	20.62	na	8.5	338.4	28.78	12.73
111	2007	20	2300	20.48	na	9.19	339.3	38.43	12.71
111	2007	20	2315	20.38	na	7.71	348.9	30.14	12.72
111	2007	20	2330	20.26	na	6.239	348.8	33.52	12.71
111	2007	20	2345	20.24	na	6.767	340.5	24.58	12.71
111	2007	20	2400	20.14	na	6.801	342.1	35.65	12.69
111	2007	21	15	20.17	na	6.531	338.2	29.15	12.69
111	2007	21	30	20.19	na	5.952	335.5	34.1	12.69
111	2007	21	45	20.19	na	4.994	339.6	30.64	12.69
111	2007	21	100	20.06	na	5.348	339.1	30.6	12.67
111	2007	21	115	20.05	na	5.159	344.8	33.33	12.68
111	2007	21	130	19.88	na	3.053	320.8	40.64	12.67
111	2007	21	145	19.88	na	4.915	337	25.29	12.67
111	2007	21	200	19.97	na	4.122	342.8	33.72	12.65
111	2007	21	215	19.76	na	4.251	340	27.06	12.66
111	2007	21	230	19.6	na	3.024	324.8	30.93	12.66
111	2007	21	245	19.41	na	3.283	328.3	21.1	12.65
111	2007	21	300	19.33	na	3.322	323	24.89	12.63
111	2007	21	315	19.22	na	3.326	310.1	30.11	12.64
111	2007	21	330	19.16	na	3.521	322.4	30.81	12.63
111	2007	21	345	19.13	na	3.442	322.5	31.83	12.63
111	2007	21	400	19.07	na	4.607	315.3	24.39	12.61
111	2007	21	415	19.12	na	5.101	332.6	29.82	12.62
111	2007	21	430	19.16	na	5.366	322.6	24.98	12.62
111	2007	21	445	19.09	na	5.873	323.6	22.38	12.61
111	2007	21	500	18.97	na	4.815	322	25.95	12.6
111	2007	21	515	18.89	na	4.756	320.5	22.62	12.61
111	2007	21	530	18.91	na	5.098	324.3	25.86	12.61
111	2007	21	545	18.84	na	4.974	332.2	32.12	12.59
111	2007	21	600	18.77	na	4.688	332.8	32.08	12.59
111	2007	21	615	18.71	na	4.772	335.1	29.84	12.59
111	2007	21	630	18.57	na	4.698	336.2	30.82	12.59
111	2007	21	645	18.44	na	5.354	334.8	28.39	12.59
111	2007	21	700	18.32	na	5.507	328.5	24.41	12.57
111	2007	21	715	18.27	na	4.823	325.4	30.08	12.57
111	2007	21	730	18.2	na	3.889	342.5	35.52	12.57
111	2007	21	745	18.08	na	2.347	342.1	32.1	12.57
111	2007	21	800	17.91	na	2.919	0.163	31.8	12.55
111	2007	21	815	17.78	na	2.859	339.5	22.53	12.56
111	2007	21	830	17.7	na	3.487	345.2	31.6	12.56
111	2007	21	845	18.02	na	4.287	328.9	22.89	12.64
111	2007	21	900	18.25	na	4.525	342.9	28.5	12.64
111	2007	21	915	18.64	na	2.621	10.45	40.63	14.18
111	2007	21	930	19.71	na	3.052	15.93	31.7	14.14

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	21	945	20.47	na	4.366	16.1	28.1	14.12
111	2007	21	1000	20.77	na	6.58	359.3	28.78	14.09
111	2007	21	1015	21.23	na	5.791	350.7	31.14	14.09
111	2007	21	1030	21.91	na	6.153	0.798	35.8	14.07
111	2007	21	1045	22.18	na	6.936	19.14	23.84	14.07
111	2007	21	1100	22.55	na	5.755	22.25	29.23	14.04
111	2007	21	1115	22.9	na	6.435	21.27	25.87	14.03
111	2007	21	1130	23.31	na	7.64	32.64	19	14.03
111	2007	21	1145	23.3	na	7.56	26.59	22.36	14.02
111	2007	21	1200	24.04	na	7.5	21.43	23.25	14
111	2007	21	1215	24.39	na	6.658	15.19	29.84	14
111	2007	21	1230	24.67	na	6.036	25.24	36.5	14
111	2007	21	1245	25.09	na	6.181	38.91	23.65	14
111	2007	21	1300	24.72	na	7.18	31.49	21.54	13.99
111	2007	21	1315	24.85	na	5.827	21.19	27.15	14
111	2007	21	1330	25.31	na	5.726	7.68	33.52	14
111	2007	21	1345	25.09	na	5.35	339	37.58	14
111	2007	21	1400	24.66	na	5.692	356.6	36.29	14
111	2007	21	1415	25.08	na	5.38	5.433	30.46	14
111	2007	21	1430	25.42	na	4.807	11.77	35.64	14
111	2007	21	1445	25.32	na	4.354	26.33	33.44	14
111	2007	21	1500	25.61	na	4.243	358.3	29.26	14
111	2007	21	1515	25.5	na	5.143	19.81	32.71	14
111	2007	21	1530	25.98	na	3.943	12.28	35.64	14
111	2007	21	1545	25.9	na	4.495	350.5	36.14	14
111	2007	21	1600	26.11	na	4.599	10.33	41.99	14
111	2007	21	1615	26.02	na	4.223	7.78	43.63	14.01
111	2007	21	1630	25.91	na	4.801	7.95	31.84	14.02
111	2007	21	1645	25.77	na	3.468	15.88	32.37	13.38
111	2007	21	1700	25.77	na	2.414	5.894	42.52	13.12
111	2007	21	1715	25.56	na	2.744	347.7	35.96	13.04
111	2007	21	1730	25.61	na	3.366	359.9	34.44	12.99
111	2007	21	1745	25.39	na	2.748	332.5	35.15	12.95
111	2007	21	1800	25.27	na	2.988	346	32.66	12.91
111	2007	21	1815	25.34	na	2.573	342.1	44.66	12.89
111	2007	21	1830	25.28	na	3.173	322.1	28.45	12.88
111	2007	21	1845	25.28	na	2.829	334.6	32.31	12.87
111	2007	21	1900	25.23	na	2.778	324.8	29.47	12.84
111	2007	21	1915	25.18	na	1.78	341.6	37.27	12.84
111	2007	21	1930	25.24	na	2.302	304	33.09	12.83
111	2007	21	1945	25.4	na	2.843	311	28.88	12.82
111	2007	21	2000	25.37	na	1.865	328.7	37.9	12.79
111	2007	21	2015	25.46	na	2.195	358	31.03	12.8
111	2007	21	2030	25.57	na	3.197	5.887	21.74	12.8
111	2007	21	2045	25.65	na	3.448	24.49	21.33	12.79
111	2007	21	2100	25.83	na	3.905	36.1	19.32	12.78
111	2007	21	2115	25.86	na	3.098	49.37	17.34	12.79
111	2007	21	2130	25.86	na	2.577	76.6	18.8	12.78
111	2007	21	2145	25.84	na	1.927	108.3	26.36	12.77
111	2007	21	2200	25.91	na	1.698	128.5	20.74	12.76
111	2007	21	2215	25.95	na	0.884	125.3	16.08	12.76
111	2007	21	2230	25.94	na	2.069	160.9	23.65	12.76
111	2007	21	2245	25.95	na	2.391	119.4	19.03	12.75
111	2007	21	2300	26.03	na	2.08	96.6	30.7	12.74
111	2007	21	2315	26.04	na	2.225	105.1	20.64	12.74
111	2007	21	2330	26.04	na	2.392	108.9	17.19	12.75
111	2007	21	2345	26.11	na	2.537	84.2	21.01	12.74
111	2007	21	2400	26.15	na	2.971	93.5	16.47	12.72
111	2007	22	15	26.15	na	3.054	79.4	18.56	12.72
111	2007	22	30	26.16	na	2.408	88.4	20.57	12.72

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	22	45	26.19	na	2.205	107.6	23.45	12.72
111	2007	22	100	26.12	na	3.499	109.1	14.35	12.7
111	2007	22	115	26.17	na	2.708	99.5	14.75	12.7
111	2007	22	130	26.13	na	2.738	92.9	18.75	12.7
111	2007	22	145	26.15	na	2.835	105.7	19.89	12.7
111	2007	22	200	26.23	na	2.696	122.1	22.61	12.68
111	2007	22	215	26.21	na	2.766	116.8	24.57	12.68
111	2007	22	230	26.19	na	2.543	100.2	22.79	12.68
111	2007	22	245	26.22	na	2.672	116.2	17.89	12.68
111	2007	22	300	26.28	na	3.026	135.4	20.04	12.66
111	2007	22	315	26.2	na	2.981	136.3	18.09	12.66
111	2007	22	330	26.29	na	2.661	109	26.05	12.66
111	2007	22	345	26.31	na	2.42	86.6	23.22	12.65
111	2007	22	400	26.21	na	2.802	96.9	15.59	12.64
111	2007	22	415	26.19	na	2.183	90.3	18.53	12.64
111	2007	22	430	26.15	na	2.364	77.8	17.1	12.64
111	2007	22	445	26.13	na	1.773	63.15	17.26	12.64
111	2007	22	500	26.17	na	2.323	75.4	14.19	12.62
111	2007	22	515	26.19	na	2.34	91.3	19.57	12.63
111	2007	22	530	25.89	na	3.448	120	17.04	12.62
111	2007	22	545	25.78	na	2.539	147.2	25.35	12.62
111	2007	22	600	25.72	na	1.483	158.5	19.84	12.6
111	2007	22	615	25.9	na	1.222	23.2	8.39	12.62
111	2007	22	630	26.14	na	2.291	26.3	15.52	12.61
111	2007	22	645	26.17	na	2.056	37.75	16.52	12.61
111	2007	22	700	26.22	na	1.907	51.61	17.82	12.6
111	2007	22	715	26.29	na	1.987	45.87	24.24	12.61
111	2007	22	730	26.46	na	1.867	34.68	17.56	12.61
111	2007	22	745	26.53	na	1.973	53.8	21.6	12.6
111	2007	22	800	26.63	na	1.467	56.15	19.51	12.6
111	2007	22	815	26.82	na	2.338	63.76	21.01	12.61
111	2007	22	830	27.02	na	2.136	84.5	16.5	12.6
111	2007	22	845	27.12	na	1.692	92.7	22.27	12.6
111	2007	22	900	27.26	na	2.676	78.2	14.78	12.59
111	2007	22	915	27.5	na	3.525	61.41	16.71	12.6
111	2007	22	930	27.63	na	3.364	56.79	19.46	12.6
111	2007	22	945	27.87	na	3.714	69.53	17.07	12.6
111	2007	22	1000	28.06	na	2.139	73.1	28.14	12.59
111	2007	22	1015	28.34	na	2.804	58.82	21.81	12.6
111	2007	22	1030	28.36	na	3.161	47.56	20.02	12.6
111	2007	22	1045	28.53	na	3.557	46.9	20.54	12.64
111	2007	22	1100	28.66	na	3.47	63.14	20.25	12.69
111	2007	22	1115	28.85	na	3.161	75.6	22.79	12.77
111	2007	22	1130	29.06	na	3.742	58.96	17.03	12.9
111	2007	22	1145	29.12	na	4.404	75.8	23.21	12.98
111	2007	22	1200	28.68	na	4.503	57.68	18.52	13.17
111	2007	22	1215	28.62	na	3.676	78.1	24.37	13.44
111	2007	22	1230	28.78	na	4.461	103.4	17.17	13.96
111	2007	22	1245	29.23	na	3.39	99.3	23.6	13.96
111	2007	22	1300	29.72	na	2.762	105.7	44.92	13.94
111	2007	22	1315	30.1	na	2.863	120.9	38.16	13.94
111	2007	22	1330	30.44	na	2.813	138.8	55.34	13.94
111	2007	22	1345	30.89	na	2.293	70.6	32.26	13.92
111	2007	22	1400	31.37	na	2.332	74.1	28.76	13.92
111	2007	22	1415	31.6	na	1.694	91	52.3	13.88
111	2007	22	1430	31.55	na	2.566	106.3	42.26	13.64
111	2007	22	1445	31.77	na	3.004	49.34	24.85	13.42
111	2007	22	1500	31.91	na	2.794	21.03	30.57	13.34
111	2007	22	1515	32.11	na	3.159	22.87	30.16	13.32
111	2007	22	1530	32.09	na	3.305	19.57	27.43	13.28

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	22	1545	32.06	na	3.778	357.6	27.7	13.25
111	2007	22	1600	32.09	na	3.416	18.15	30.2	13.23
111	2007	22	1615	32.04	na	3.08	51.54	28.35	13.11
111	2007	22	1630	32.05	na	1.639	351.1	32.74	13.03
111	2007	22	1645	31.98	na	1.977	334.4	46.3	12.98
111	2007	22	1700	31.98	na	2.06	355.4	35.92	12.94
111	2007	22	1715	31.83	na	1.791	352.9	29.41	12.92
111	2007	22	1730	31.81	na	2.438	13.83	34	12.9
111	2007	22	1745	31.73	na	2.126	9.96	35.01	12.89
111	2007	22	1800	31.71	na	2.144	63	38.72	12.86
111	2007	22	1815	31.66	na	2.166	54.12	25.59	12.86
111	2007	22	1830	31.61	na	2.585	49.47	23.48	12.85
111	2007	22	1845	31.47	na	3.336	39.33	22.69	12.84
111	2007	22	1900	31.21	na	3.76	62.64	18.74	12.82
111	2007	22	1915	31	na	2.678	56.39	21.22	12.81
111	2007	22	1930	30.74	na	2.935	61.05	19.85	12.81
111	2007	22	1945	30.72	na	1.96	78.8	23.8	12.8
111	2007	22	2000	30.66	na	1.975	73	20.95	12.78
111	2007	22	2015	30.61	na	2.078	68.66	18.24	12.78
111	2007	22	2030	30.53	na	2.714	76.4	16.97	12.78
111	2007	22	2045	30.49	na	3.301	48.87	22.31	12.77
111	2007	22	2100	30.48	na	2.668	54.68	17.66	12.75
111	2007	22	2115	30.4	na	1.962	41.99	31.26	12.75
111	2007	22	2130	30.39	na	2.049	41.35	28.92	12.74
111	2007	22	2145	30.28	na	2.255	41.84	25.36	12.74
111	2007	22	2200	29.88	na	2.957	38.91	17.13	12.72
111	2007	22	2215	29.47	na	2.229	54.12	21.38	12.72
111	2007	22	2230	29.25	na	2.533	52.38	19.24	12.71
111	2007	22	2245	29.13	na	3.066	51.21	15.31	12.7
111	2007	22	2300	29.05	na	2.945	48.37	18.47	12.68
111	2007	22	2315	28.98	na	3.505	47.9	15.19	12.68
111	2007	22	2330	28.98	na	3.635	52.33	20.65	12.67
111	2007	22	2345	28.94	na	3.474	47.42	18.6	12.66
111	2007	22	2400	28.93	na	2.788	45.7	20.06	12.64
111	2007	23	15	28.89	na	2.591	54.15	19.73	12.65
111	2007	23	30	28.88	na	2.474	43.09	22.46	12.64
111	2007	23	45	28.91	na	2.022	48.11	23.3	12.64
111	2007	23	100	28.86	na	2.305	42.5	18.54	12.62
111	2007	23	115	28.85	na	2.742	15.99	23.33	12.62
111	2007	23	130	28.77	na	2.085	15.61	25.32	12.61
111	2007	23	145	28.77	na	1.754	358.2	20.75	12.61
111	2007	23	200	28.68	na	1.875	342.6	28.34	12.6
111	2007	23	215	28.65	na	1.472	328.7	26.44	12.6
111	2007	23	230	28.68	na	1.612	333.7	22.95	12.6
111	2007	23	245	28.72	na	1.727	330.7	23.8	12.6
111	2007	23	300	28.7	na	1.218	317.3	22.81	12.58
111	2007	23	315	28.76	na	1.488	313.8	20.37	12.59
111	2007	23	330	28.81	na	1.787	337.6	27.57	12.59
111	2007	23	345	28.86	na	1.579	346.4	26.48	12.58
111	2007	23	400	28.88	na	1.477	332.9	23.66	12.57
111	2007	23	415	28.87	na	2.05	325.3	21.21	12.58
111	2007	23	430	28.85	na	2.127	323.1	27.53	12.58
111	2007	23	445	29.04	na	3.125	348.4	29.84	12.58
111	2007	23	500	29.41	na	3.857	0.208	33.44	12.56
111	2007	23	515	29.74	na	3.978	353.1	33.54	12.58
111	2007	23	530	29.79	na	5.169	0.777	28.26	12.58
111	2007	23	545	29.74	na	4.76	7.13	30.58	12.58
111	2007	23	600	29.69	na	4.873	11.91	24.77	12.56
111	2007	23	615	29.6	na	5.598	16.2	22.33	12.58
111	2007	23	630	29.47	na	5.585	22.27	22.08	12.57

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	23	645	29.22	na	5.547	25.25	21.36	12.58
111	2007	23	700	28.73	na	6.509	26.96	25.1	12.56
111	2007	23	715	28.36	na	7.98	14.24	25.05	12.57
111	2007	23	730	28.24	na	6.254	21.57	25.12	12.56
111	2007	23	745	28.05	na	6.221	24.53	23.18	12.57
111	2007	23	800	27.85	na	6.368	25.9	21.37	12.55
111	2007	23	815	27.72	na	6.014	20.06	22.07	12.56
111	2007	23	830	27.55	na	5.62	22.16	29.17	12.56
111	2007	23	845	27.36	na	5.823	22.8	19.63	12.57
111	2007	23	900	27.27	na	6.079	21.34	22.82	12.8
111	2007	23	915	27.63	na	5.06	13	31.5	14
111	2007	23	930	27.88	na	6.902	17.4	25.99	13.98
111	2007	23	945	28.14	na	6.306	11.98	33.52	13.96
111	2007	23	1000	27.8	na	7.58	6.211	24.97	13.98
111	2007	23	1015	27.98	na	6.944	4.839	30.93	13.97
111	2007	23	1030	28.74	na	6.759	8.05	25.62	13.95
111	2007	23	1045	29.07	na	7.18	14.59	31.07	13.94
111	2007	23	1100	29.44	na	7.45	30.1	24.51	13.92
111	2007	23	1115	30.22	na	7.07	19.52	22.42	13.91
111	2007	23	1130	30.75	na	6.179	20.42	30.78	13.9
111	2007	23	1145	31.08	na	6.272	6.47	31.42	13.9
111	2007	23	1200	31.28	na	7.12	2.991	32.37	13.88
111	2007	23	1215	31.81	na	6.326	0.076	32.79	13.88
111	2007	23	1230	32.44	na	5.99	349	36.96	13.88
111	2007	23	1245	32.34	na	6.678	0.461	32.85	13.87
111	2007	23	1300	32.76	na	5.27	360	39.77	13.86
111	2007	23	1315	33.19	na	4.597	6.144	40.68	13.86
111	2007	23	1330	33.38	na	6.026	359.3	38.93	13.87
111	2007	23	1345	33.81	na	5.473	354.7	35.68	13.87
111	2007	23	1400	34.04	na	5.662	9.69	30.3	13.86
111	2007	23	1415	34.48	na	5.555	342.4	38.46	13.86
111	2007	23	1430	34.51	na	5.97	12.4	32.81	13.86
111	2007	23	1445	34.74	na	6.179	353.8	32.33	13.85
111	2007	23	1500	34.28	na	6.813	338.6	34.45	13.85
111	2007	23	1515	34.78	na	5.724	354	33.41	13.85
111	2007	23	1530	35.1	na	6.308	358.4	33.36	13.84
111	2007	23	1545	34.96	na	6.197	356.5	34.2	13.83
111	2007	23	1600	34.81	na	5.402	354	33.15	13.84
111	2007	23	1615	35.23	na	5.648	3.118	38.61	13.85
111	2007	23	1630	34.93	na	5.155	0.786	36.44	13.85
111	2007	23	1645	34.77	na	5.865	16.53	29.99	13.85
111	2007	23	1700	34.71	na	6.052	6.501	28.71	13.85
111	2007	23	1715	34.53	na	4.654	338	33.42	13.86
111	2007	23	1730	34.29	na	4.618	2.512	31.36	13.87
111	2007	23	1745	33.99	na	3.654	338.3	31.88	13.8
111	2007	23	1800	33.71	na	3.706	329.7	29.93	13.12
111	2007	23	1815	33.22	na	3.04	351.2	30.52	13.05
111	2007	23	1830	32.81	na	2.605	352.8	26.62	12.99
111	2007	23	1845	32.33	na	1.716	321.3	21.94	12.96
111	2007	23	1900	31.84	na	1.284	350.6	22.74	12.92
111	2007	23	1915	31.24	na	0.302	309.6	9.8	12.9
111	2007	23	1930	30.61	na	1.338	308.7	16.76	12.88
111	2007	23	1945	30.12	na	0.385	322.4	13.89	12.86
111	2007	23	2000	30.11	na	1.242	306.4	19.39	12.84
111	2007	23	2015	30.27	na	1.218	306.2	17.97	12.84
111	2007	23	2030	30.33	na	0.606	304.5	10.4	12.83
111	2007	23	2045	30.1	na	0.109	315.8	4.74	12.82
111	2007	23	2100	29.97	na	0.831	296.1	11.1	12.8
111	2007	23	2115	29.69	na	0.25	296.9	5.777	12.8
111	2007	23	2130	29.03	na	0.606	268.1	7.45	12.8

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	23	2145	28.83	na	1.07	286.4	10.16	12.79
111	2007	23	2200	29.06	na	1.119	284.5	8.11	12.77
111	2007	23	2215	28.98	na	1.375	283.6	9.95	12.78
111	2007	23	2230	28.69	na	0.464	294.4	9.15	12.78
111	2007	23	2245	28.32	na	na	na	na	12.77
111	2007	23	2300	27.95	na	0.196	299.2	3.406	12.75
111	2007	23	2315	27.7	na	0.216	316	8.19	12.75
111	2007	23	2330	27.8	na	1.584	289.6	14.1	12.75
111	2007	23	2345	27.29	na	0.79	293.5	9.72	12.75
111	2007	23	2400	27.38	na	1.115	301.2	14.85	12.73
111	2007	24	15	28.37	na	0.543	309.6	10.17	12.73
111	2007	24	30	27.93	na	0.389	292.6	11.14	12.73
111	2007	24	45	27.24	na	0.812	294.8	9.98	12.72
111	2007	24	100	27.19	na	0.869	306.9	12.85	12.69
111	2007	24	115	26.49	na	1.029	306.3	9.67	12.71
111	2007	24	130	26.83	na	1.314	309.8	11.81	12.71
111	2007	24	145	26.14	na	0.28	287.7	6.585	12.7
111	2007	24	200	25.36	na	0.16	281.4	7.27	12.69
111	2007	24	215	26.01	na	0.888	339.3	15	12.69
111	2007	24	230	27.16	na	0.46	328.6	9.55	12.69
111	2007	24	245	25.88	na	1.257	301.8	14.62	12.68
111	2007	24	300	25.82	na	0.501	314.9	9.8	12.67
111	2007	24	315	25.57	na	1.132	303.3	16.76	12.67
111	2007	24	330	25.51	na	0.412	29.29	15.3	12.67
111	2007	24	345	24.67	na	0.427	255.2	5.551	12.67
111	2007	24	400	24.25	na	0.125	271.2	2.293	12.64
111	2007	24	415	24.91	na	0.928	316.6	7.25	12.65
111	2007	24	430	24.81	na	1.147	302.3	12.93	12.65
111	2007	24	445	23.64	na	0.664	277	5.611	12.65
111	2007	24	500	23.23	na	1.5	284.6	5.617	12.63
111	2007	24	515	23.12	na	1.445	287.2	6.984	12.65
111	2007	24	530	23.07	na	1.263	292.3	4.609	12.64
111	2007	24	545	23.27	na	0.759	298.8	10.21	12.63
111	2007	24	600	23.38	na	1.42	293.4	9.28	12.62
111	2007	24	615	23.54	na	1.681	288.3	7.1	12.63
111	2007	24	630	23.87	na	1.694	302.1	12.98	12.63
111	2007	24	645	24.71	na	1.077	301.3	12.33	12.63
111	2007	24	700	24.9	na	0.845	311.3	11.02	12.61
111	2007	24	715	24.95	na	0.804	317	13.64	12.61
111	2007	24	730	25.79	na	1.65	309.8	15.01	12.61
111	2007	24	745	25.84	na	2.197	328.1	19.51	12.61
111	2007	24	800	26.32	na	1.33	351.5	27.81	12.6
111	2007	24	815	26.24	na	1.763	344.8	31.22	12.61
111	2007	24	830	26.3	na	1.819	324.5	18.93	12.61
111	2007	24	845	26.73	na	1.433	337.8	31.23	12.61
111	2007	24	900	27.11	na	2.138	320.9	21.35	12.61
111	2007	24	915	27.73	na	2.042	324.1	19.58	13.07
111	2007	24	930	28.78	na	2.547	319.9	28.67	14.08
111	2007	24	945	30.21	na	3.34	310.5	29.36	14.05
111	2007	24	1000	31.04	na	3.823	319.7	23.45	14.03
111	2007	24	1015	31.7	na	3.774	328	29.11	14.03
111	2007	24	1030	32.4	na	3.078	322.7	30.08	14
111	2007	24	1045	34.27	na	5.976	340.1	32.39	13.96
111	2007	24	1100	34.82	na	5.668	332.2	35.75	13.93
111	2007	24	1115	35.22	na	6.409	339.2	29.14	13.92
111	2007	24	1130	35.46	na	6.477	335.8	36.16	13.9
111	2007	24	1145	36.11	na	5.535	342.9	33.73	13.88
111	2007	24	1200	36.73	na	5.535	6.611	37.92	13.85
111	2007	24	1215	36.91	na	5.887	359.9	33.08	13.85
111	2007	24	1230	37.62	na	5.187	351.1	35.25	13.84

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	24	1245	37.84	na	5.513	329.2	35.13	13.83
111	2007	24	1300	37.94	na	5.581	6.971	31.75	13.82
111	2007	24	1315	38.19	na	5.92	11.38	32.47	13.82
111	2007	24	1330	38.15	na	5.555	15.33	31.59	13.83
111	2007	24	1345	38.22	na	6.527	2.238	32.28	13.83
111	2007	24	1400	38.14	na	6.835	7.12	27.58	13.82
111	2007	24	1415	38.7	na	5.396	347.7	33.28	13.82
111	2007	24	1430	37.71	na	5.455	348.2	37.87	13.83
111	2007	24	1445	37.8	na	4.867	317.8	33	13.83
111	2007	24	1500	37.85	na	4.609	320.5	36.44	13.82
111	2007	24	1515	38.73	na	4.668	319.9	32.78	13.82
111	2007	24	1530	38.4	na	5.672	5.523	31.97	13.81
111	2007	24	1545	39.01	na	4.076	326.4	41.85	13.8
111	2007	24	1600	39.29	na	4.102	327.5	44.73	13.79
111	2007	24	1615	39.27	na	5.052	13.32	37.4	13.79
111	2007	24	1630	38.63	na	4.285	348.8	34.21	13.8
111	2007	24	1645	38.58	na	4.77	329.4	31.37	13.81
111	2007	24	1700	38.51	na	5.151	303.8	25.2	13.81
111	2007	24	1715	38.07	na	4.251	319.9	24.95	13.83
111	2007	24	1730	37.19	na	4.626	341.1	31.48	13.15
111	2007	24	1745	36.59	na	4.124	329.2	31.68	13.05
111	2007	24	1800	36.16	na	4.126	308.1	24.7	12.99
111	2007	24	1815	35.63	na	3.014	312.9	23.33	12.96
111	2007	24	1830	35.41	na	3.551	320.3	24.26	12.94
111	2007	24	1845	35.17	na	3.877	321.4	26.44	12.91
111	2007	24	1900	34.82	na	4.265	313.2	25.87	12.88
111	2007	24	1915	34.52	na	4.006	314.8	23.35	12.88
111	2007	24	1930	34.31	na	4.241	300.2	17.88	12.86
111	2007	24	1945	34.19	na	3.646	300.7	21.98	12.86
111	2007	24	2000	34.24	na	3.869	317.5	29.85	12.84
111	2007	24	2015	34.24	na	3.165	330.8	30.83	12.84
111	2007	24	2030	34.09	na	3.072	318.4	26.84	12.83
111	2007	24	2045	34.04	na	2.774	320	26.84	12.83
111	2007	24	2100	33.93	na	2.474	324.9	27.14	12.81
111	2007	24	2115	33.91	na	2.68	313.9	24.09	12.82
111	2007	24	2130	33.74	na	3.348	327.7	23.95	12.81
111	2007	24	2145	33.54	na	2.824	319.6	21.93	12.8
111	2007	24	2200	33.29	na	1.697	315.4	23.35	12.79
111	2007	24	2215	32.82	na	1.433	299.6	15.52	12.78
111	2007	24	2230	32.39	na	0.776	309.9	14.34	12.79
111	2007	24	2245	32.23	na	0.886	305.6	16.88	12.78
111	2007	24	2300	32.13	na	1.592	302.4	17.25	12.77
111	2007	24	2315	32.25	na	1.473	305.5	19.35	12.77
111	2007	24	2330	32.41	na	1.591	352.2	24.5	12.77
111	2007	24	2345	32.4	na	1.314	340.6	24.59	12.76
111	2007	24	2400	32.22	na	1.141	336.5	26.02	12.75
111	2007	25	15	32.04	na	1.714	326.6	25.96	12.76
111	2007	25	30	31.86	na	1.848	342.5	29.62	12.75
111	2007	25	45	32.1	na	2.72	4.765	29.62	12.75
111	2007	25	100	32.18	na	2.529	20.3	18.2	12.74
111	2007	25	115	32.13	na	2.502	34.41	23.27	12.74
111	2007	25	130	32.27	na	3.024	60.09	18.48	12.74
111	2007	25	145	32.42	na	2.466	69.9	16.69	12.74
111	2007	25	200	32.24	na	3.221	44.74	18.67	12.72
111	2007	25	215	32.05	na	4	37.35	17.65	12.73
111	2007	25	230	31.8	na	3.241	54.42	16.5	12.72
111	2007	25	245	31.6	na	2.543	60.26	19.26	12.72
111	2007	25	300	31.41	na	2.213	47.84	14.37	12.71
111	2007	25	315	31.09	na	2.4	78.8	20.12	12.7
111	2007	25	330	30.66	na	2.494	119.5	19.88	12.71

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	25	345	30.33	na	1.965	84.7	26.6	12.7
111	2007	25	400	29.74	na	0.202	55.44	9.53	12.68
111	2007	25	415	28.52	na	1.146	326.3	50.98	12.68
111	2007	25	430	28.13	na	0.769	61.49	11.95	12.68
111	2007	25	445	27.84	na	0.009	66.22	0.007	12.67
111	2007	25	500	27.07	na	0.221	29.26	2.245	12.65
111	2007	25	515	26.73	na	0.009	290.9	0.007	12.65
111	2007	25	530	26.49	na	0.009	290.8	0.007	12.65
111	2007	25	545	26.64	na	1.028	295.2	3.077	12.64
111	2007	25	600	26.97	na	na	na	na	12.63
111	2007	25	615	27.3	na	0.251	33.1	5.54	12.63
111	2007	25	630	27.49	na	0.385	55.15	5.355	12.63
111	2007	25	645	28.27	na	1.3	58.21	7.3	12.63
111	2007	25	700	28.81	na	1.551	53.26	12.38	12.61
111	2007	25	715	29.22	na	2.517	64.2	19.12	12.62
111	2007	25	730	29.32	na	2.941	70.6	16.76	12.62
111	2007	25	745	29.21	na	5.102	72	15.65	12.62
111	2007	25	800	28.43	na	5.831	74.4	22.55	12.6
111	2007	25	815	27.93	na	5.958	54.64	18.27	12.61
111	2007	25	830	27.04	na	6.561	44.1	21.68	12.61
111	2007	25	845	26.57	na	6.308	42.77	18.39	12.61
111	2007	25	900	26.39	na	4.002	38.54	21.12	12.58
111	2007	25	915	26.09	na	4.36	53.29	20.6	12.6
111	2007	25	930	25.97	na	3.603	54.07	16.01	12.64
111	2007	25	945	26.28	na	2.488	81.1	29.25	14.02
111	2007	25	1000	26.78	na	2.521	126.2	31.35	13.99
111	2007	25	1015	27.29	na	1.84	130.5	45.65	13.78
111	2007	25	1030	27.51	na	3.026	24.3	34.59	13.32
111	2007	25	1045	27.42	na	2.904	356.6	38.77	13.26
111	2007	25	1100	27.31	na	2.613	348.5	38.96	14
111	2007	25	1115	27.46	na	1.099	31.21	45.07	13.98
111	2007	25	1130	28.38	na	2.945	344.1	37.74	13.96
111	2007	25	1145	29.05	na	4.62	353.9	34.91	13.94
111	2007	25	1200	30.1	na	4.135	9.65	31.12	13.93
111	2007	25	1215	30.86	na	5.29	14.11	27.15	13.92
111	2007	25	1230	31.14	na	5.457	5.112	31.05	13.91
111	2007	25	1245	31.46	na	5.046	341.5	44.22	13.91
111	2007	25	1300	32.17	na	5.471	351	42.79	13.9
111	2007	25	1315	31.63	na	5.777	329.3	39.5	13.9
111	2007	25	1330	31.58	na	5.905	9.24	32.64	13.91
111	2007	25	1345	30.55	na	7.82	17.02	21.75	13.92
111	2007	25	1400	29.52	na	5.918	359.7	26.49	13.92
111	2007	25	1415	29.82	na	5.268	326.4	31.87	13.92
111	2007	25	1430	30.38	na	5.612	8.32	36.89	13.27
111	2007	25	1445	28.1	na	6.423	5.218	32.53	13.2
111	2007	25	1500	28.25	na	5.569	327.6	33.42	13.94
111	2007	25	1515	30.64	na	5.384	322	37.75	13.94
111	2007	25	1530	30.64	na	8.13	5.002	28.61	13.93
111	2007	25	1545	31.2	na	8.32	2.449	25.71	13.92
111	2007	25	1600	31.44	na	8.78	9.94	27.55	13.92
111	2007	25	1615	31.4	na	8.73	9.86	27.67	13.92
111	2007	25	1630	30.57	na	8.38	358.4	37.82	13.93
111	2007	25	1645	30.3	na	8.49	356.6	33.78	13.94
111	2007	25	1700	30.26	na	9.12	359.1	24.42	13.93
111	2007	25	1715	29.7	na	8.84	2.286	33.96	13.94
111	2007	25	1730	28.83	na	9.32	3.174	24.74	13.95
111	2007	25	1745	28.42	na	8.27	9.14	31.26	13.96
111	2007	25	1800	27.44	na	7.84	27.98	22.83	13.14
111	2007	25	1815	26.86	na	7.37	23.42	22.48	13.05
111	2007	25	1830	26.2	na	8.56	25.8	22.6	12.99

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	25	1845	25.69	na	6.276	21.52	26.25	12.94
111	2007	25	1900	25.46	na	7.38	14.33	28.63	12.9
111	2007	25	1915	25.24	na	6.543	15.41	24.91	12.88
111	2007	25	1930	25.01	na	6.72	19	22.6	12.86
111	2007	25	1945	24.72	na	4.911	19.36	22.9	12.85
111	2007	25	2000	24.36	na	5.101	9.94	29.25	12.82
111	2007	25	2015	24.08	na	6.68	16.67	23.03	12.81
111	2007	25	2030	23.85	na	6.847	16.3	23.61	12.8
111	2007	25	2045	23.63	na	7.03	10.79	28.98	12.79
111	2007	25	2100	23.33	na	6.684	18.23	27.23	12.77
111	2007	25	2115	23.02	na	6.958	11.52	30.45	12.77
111	2007	25	2130	22.75	na	8.01	16.36	23.5	12.76
111	2007	25	2145	22.35	na	6.517	15.56	24.09	12.75
111	2007	25	2200	21.83	na	7.41	25.59	22.17	12.73
111	2007	25	2215	21.33	na	7.9	19.31	26.42	12.73
111	2007	25	2230	20.86	na	8.39	14.53	30.29	12.73
111	2007	25	2245	20.26	na	7.33	4.069	27.18	12.72
111	2007	25	2300	19.73	na	6.811	2.143	29.4	12.7
111	2007	25	2315	19.26	na	7.25	8.96	32.72	12.71
111	2007	25	2330	18.8	na	7.57	17.42	26.56	12.7
111	2007	25	2345	18.47	na	6.688	13.64	27.72	12.69
111	2007	25	2400	18.21	na	5.457	356.7	31.52	12.67
111	2007	26	15	17.72	na	9.82	7.7	29.26	12.68
111	2007	26	30	16.88	na	9.69	2.219	28.13	12.67
111	2007	26	45	16.48	na	9.31	6.693	28.3	12.67
111	2007	26	100	16.14	na	10	0.229	25.27	12.65
111	2007	26	115	15.32	na	12.43	0.588	31.42	12.65
111	2007	26	130	13.75	na	11.12	4.771	29.56	12.65
111	2007	26	145	13.16	na	9.48	360	28.97	12.64
111	2007	26	200	12.4	na	9.72	2.071	30.82	12.62
111	2007	26	215	11.59	na	11.27	9.65	24.25	12.62
111	2007	26	230	11.12	na	10.41	9.52	31.04	12.61
111	2007	26	245	10.53	na	11.51	354.5	29.21	12.6
111	2007	26	300	10.11	na	10.18	359.8	29.3	12.57
111	2007	26	315	9.9	na	9.84	357.7	29.82	12.58
111	2007	26	330	9.61	na	8.83	6.505	29.08	12.57
111	2007	26	345	9.38	na	9.71	5.426	29.44	12.56
111	2007	26	400	9.03	na	7.77	4.499	28.11	12.54
111	2007	26	415	8.77	na	8.44	2.046	32.38	12.54
111	2007	26	430	8.59	na	8.55	1.922	33.68	12.54
111	2007	26	445	8.33	na	8.83	9.98	26.04	12.53
111	2007	26	500	8.15	na	8.98	2.937	28.51	12.51
111	2007	26	515	8.04	na	8.91	357.6	29.04	12.51
111	2007	26	530	7.82	na	7.12	359.8	32.88	12.51
111	2007	26	545	7.64	na	7.34	4.391	28.08	12.5
111	2007	26	600	7.6	na	7.48	8.46	28.21	12.48
111	2007	26	615	7.57	na	6.608	356.7	33.88	12.48
111	2007	26	630	7.63	na	7.1	4.363	29.72	12.47
111	2007	26	645	7.61	na	6.555	0.423	30.55	12.47
111	2007	26	700	7.53	na	4.793	1.038	25.82	12.45
111	2007	26	715	7.55	na	4.008	343.1	36.93	12.45
111	2007	26	730	7.81	na	5.73	349.3	30.41	12.45
111	2007	26	745	7.81	na	3.796	343.7	28.59	12.45
111	2007	26	800	7.78	na	3.487	346.6	34.69	12.43
111	2007	26	815	7.96	na	6.27	348.2	30.78	12.44
111	2007	26	830	8.02	na	5.402	333.6	39.38	12.43
111	2007	26	845	8.28	na	6.35	342.6	34.15	12.97
111	2007	26	900	8.6	na	7.71	336.5	27.87	14.32
111	2007	26	915	8.82	na	8.41	330.5	28.48	14.3
111	2007	26	930	9.16	na	8.18	342.9	31.65	14.29

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	26	945	9.59	na	7.32	345.2	39.71	14.28
111	2007	26	1000	10.07	na	8.36	355.4	33.99	14.25
111	2007	26	1015	10.65	na	7.7	348.6	30.18	14.25
111	2007	26	1030	11.22	na	8.16	325.9	30.54	14.25
111	2007	26	1045	11.71	na	8.64	336.3	30.52	14.23
111	2007	26	1100	12.6	na	6.92	337.2	35.24	14.22
111	2007	26	1115	12.94	na	6.628	354.1	36.44	14.21
111	2007	26	1130	13.25	na	6.71	329.9	39.61	14.2
111	2007	26	1145	13.77	na	8.05	330.3	36.6	14.19
111	2007	26	1200	14.35	na	8.71	343.8	36.34	14.17
111	2007	26	1215	14.75	na	9.27	333.6	36.49	14.17
111	2007	26	1230	15.23	na	8.65	327.3	35.27	14.16
111	2007	26	1245	15.91	na	10.58	350.9	31.98	14.15
111	2007	26	1300	16	na	11.11	355.4	30.95	14.15
111	2007	26	1315	16.69	na	9.98	330.1	34.45	14.15
111	2007	26	1330	17.08	na	10.6	354.8	30.83	14.15
111	2007	26	1345	17.81	na	11.4	0.962	33.82	14.15
111	2007	26	1400	17.98	na	8.97	339.3	41.11	14.14
111	2007	26	1415	18.19	na	9.9	345.3	33.2	14.14
111	2007	26	1430	18.05	na	11.73	343.3	32.41	14.15
111	2007	26	1445	18.36	na	9.72	335.8	33.62	14.14
111	2007	26	1500	19.16	na	9.8	345.6	33.34	14.12
111	2007	26	1515	18.88	na	9.79	348.7	29.16	14.12
111	2007	26	1530	18.73	na	9.87	343.6	33.77	14.12
111	2007	26	1545	18.83	na	10.47	325.7	32.22	14.13
111	2007	26	1600	18.69	na	9	344.5	33.73	14.13
111	2007	26	1615	18.62	na	7	347.4	26.38	14.13
111	2007	26	1630	19.32	na	10.19	352.2	28.02	14.13
111	2007	26	1645	19.35	na	8.92	338.8	39.8	14.13
111	2007	26	1700	19.5	na	10.89	342.4	32.72	14.13
111	2007	26	1715	19.44	na	9.66	352.8	35.45	14.13
111	2007	26	1730	19.59	na	8.11	355.3	29.26	14.13
111	2007	26	1745	19.47	na	7.8	356.9	26.24	14.14
111	2007	26	1800	19.23	na	9.39	355.9	32.25	13.18
111	2007	26	1815	18.99	na	9.1	356	29.79	13.09
111	2007	26	1830	18.86	na	7.62	344.4	29.52	13.01
111	2007	26	1845	18.77	na	7.45	351.6	33.58	12.95
111	2007	26	1900	18.71	na	6.93	348.9	34.36	12.9
111	2007	26	1915	18.68	na	7.26	356.9	34.12	12.88
111	2007	26	1930	18.63	na	7.1	354.4	31.69	12.85
111	2007	26	1945	18.45	na	6.936	359.5	27.46	12.83
111	2007	26	2000	18.19	na	4.716	356.1	31.05	12.81
111	2007	26	2015	17.83	na	4.263	359.9	31.72	12.81
111	2007	26	2030	17.84	na	5.891	1.251	27.47	12.79
111	2007	26	2045	17.62	na	4.805	354.6	28.98	12.78
111	2007	26	2100	17.55	na	4.968	356	32.93	12.75
111	2007	26	2115	17.39	na	3.972	353.8	30.74	12.76
111	2007	26	2130	17.25	na	5.082	354.2	25.19	12.75
111	2007	26	2145	17.09	na	2.887	0.288	35.93	12.73
111	2007	26	2200	17.04	na	3.929	343.4	32.15	12.72
111	2007	26	2215	17.26	na	5.342	341.5	32.01	12.72
111	2007	26	2230	17.17	na	4.861	339.9	32.47	12.72
111	2007	26	2245	17.05	na	4.994	353	32.83	12.72
111	2007	26	2300	17.07	na	5.972	339.8	28.97	12.7
111	2007	26	2315	17.04	na	4.829	334	31.23	12.7
111	2007	26	2330	16.97	na	2.758	345.7	35.76	12.7
111	2007	26	2345	16.93	na	3.215	341.7	32.86	12.69
111	2007	26	2400	17.08	na	4.829	326.4	27.4	12.67
111	2007	27	15	17.19	na	4.942	345	38.42	12.67
111	2007	27	30	17.26	na	4.36	349.8	31.17	12.67

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	27	45	17.36	na	4.555	4.35	33.26	12.67
111	2007	27	100	17.46	na	3.197	348	32.63	12.65
111	2007	27	115	17.59	na	4.473	356.4	28.48	12.65
111	2007	27	130	17.69	na	4.112	357.7	33.56	12.65
111	2007	27	145	17.84	na	4.11	8.68	32.26	12.64
111	2007	27	200	17.96	na	4.457	1.557	26.91	12.63
111	2007	27	215	18.06	na	3.758	16.62	23.61	12.63
111	2007	27	230	18.28	na	3.179	1.444	35.73	12.63
111	2007	27	245	18.39	na	3.217	347.1	33.35	12.62
111	2007	27	300	18.47	na	2.932	0.247	32.16	12.6
111	2007	27	315	18.67	na	3.219	34.4	23.76	12.6
111	2007	27	330	18.73	na	2.227	30.82	27.28	12.59
111	2007	27	345	18.68	na	1.816	358	32.44	12.58
111	2007	27	400	18.71	na	1.708	2.553	36.17	12.56
111	2007	27	415	18.79	na	1.176	324.8	34.64	12.57
111	2007	27	430	18.83	na	0.696	289.8	14.65	12.57
111	2007	27	445	18.95	na	2.062	305.5	24.54	12.56
111	2007	27	500	19.02	na	1.929	344.4	56	12.55
111	2007	27	515	19.07	na	1.598	70.4	24.6	12.55
111	2007	27	530	19.11	na	0.889	49.86	27.74	12.55
111	2007	27	545	19.06	na	0.752	134.1	15.51	12.54
111	2007	27	600	19.1	na	0.395	157.2	27.59	12.53
111	2007	27	615	19.26	na	0.088	319.4	12.1	12.54
111	2007	27	630	19.3	na	0.159	271.4	5.889	12.54
111	2007	27	645	19.35	na	0.435	257.3	14.15	12.53
111	2007	27	700	19.46	na	0.731	225.3	16.86	12.53
111	2007	27	715	19.61	na	1.537	190.3	13.93	12.53
111	2007	27	730	19.75	na	2.01	200.7	23.1	12.53
111	2007	27	745	19.84	na	2.028	188.7	21.74	12.53
111	2007	27	800	20.05	na	1.913	161.3	17.99	12.52
111	2007	27	815	20.31	na	2.831	148.3	17.28	12.53
111	2007	27	830	20.46	na	2.619	148	15.43	12.53
111	2007	27	845	20.8	na	2.507	129	19.61	12.53
111	2007	27	900	20.73	na	2.987	111.7	13.48	12.51
111	2007	27	915	21.05	na	3.106	127.2	15.23	12.56
111	2007	27	930	21.46	na	2.474	130	25.34	12.62
111	2007	27	945	21.98	na	3.15	120.1	19.76	12.78
111	2007	27	1000	22.8	na	2.018	114.3	22.65	13.05
111	2007	27	1015	23.69	na	2.175	108.1	19.38	13.33
111	2007	27	1030	24.45	na	2.104	74.2	19.42	14.07
111	2007	27	1045	25.1	na	2.905	96.8	16.77	14.05
111	2007	27	1100	26.15	na	2.585	111.7	27.59	14.02
111	2007	27	1115	27.84	na	2.101	149.1	36.08	14
111	2007	27	1130	30.26	na	3.233	199.8	38.53	13.97
111	2007	27	1145	32.96	na	5.857	231.9	18.98	13.96
111	2007	27	1200	33.49	na	4.7	241.9	25.04	13.94
111	2007	27	1215	34.04	na	4.386	260.6	20.46	13.94
111	2007	27	1230	34.33	na	4.137	264.7	20.94	13.94
111	2007	27	1245	34.87	na	3.672	266.2	15.57	13.61
111	2007	27	1300	35.2	na	3.012	253.6	26.73	13.57
111	2007	27	1315	35.42	na	3.267	284.9	21.45	13.62
111	2007	27	1330	35.8	na	2.145	267.6	28.87	13.9
111	2007	27	1345	36.21	na	1.549	292.2	23.3	13.89
111	2007	27	1400	36	na	3.037	330	49.03	13.75
111	2007	27	1415	33.76	na	4.062	27.4	23.88	13.89
111	2007	27	1430	33.14	na	4.292	28.07	25.16	13.9
111	2007	27	1445	32.74	na	3.537	19.12	30.21	13.9
111	2007	27	1500	32.83	na	2.706	13.05	28.31	13.9
111	2007	27	1515	33.3	na	3.034	20	21.37	13.88
111	2007	27	1530	33.46	na	2.463	3.734	30.12	13.36

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	27	1545	34	na	2.901	321.2	36.93	13.2
111	2007	27	1600	34.41	na	3.509	303.4	27.11	13.09
111	2007	27	1615	34.44	na	2.99	300.3	27.05	13.03
111	2007	27	1630	34.57	na	3.42	295.4	22.4	12.99
111	2007	27	1645	34.7	na	3.159	287.2	19.71	12.95
111	2007	27	1700	34.62	na	3.066	260.7	21.85	12.93
111	2007	27	1715	34.85	na	5.052	282.4	15.39	12.92
111	2007	27	1730	34.8	na	4.444	276	20.12	12.9
111	2007	27	1745	33.82	na	3.456	252.9	20.35	12.9
111	2007	27	1800	33.29	na	3.014	256.1	20.31	12.86
111	2007	27	1815	33.16	na	3.676	271.9	20.75	12.87
111	2007	27	1830	33.31	na	4.74	284.3	16.9	12.86
111	2007	27	1845	33.56	na	4.577	290.2	17.05	12.86
111	2007	27	1900	33.75	na	3.964	288	17.87	12.84
111	2007	27	1915	33.97	na	2.384	293.9	22.37	12.84
111	2007	27	1930	34.11	na	2.758	300.1	22.78	12.84
111	2007	27	1945	34.38	na	1.782	318.4	35.12	12.83
111	2007	27	2000	34.53	na	1.848	320.4	28.66	12.81
111	2007	27	2015	34.59	na	1.938	320.9	37.26	12.81
111	2007	27	2030	34.45	na	3.519	269.5	17.16	12.81
111	2007	27	2045	34.75	na	4.292	280.6	17.36	12.8
111	2007	27	2100	35.46	na	4.933	281.8	16.8	12.78
111	2007	27	2115	35.8	na	4.422	288.6	22.58	12.79
111	2007	27	2130	35.98	na	4.535	287.5	15.57	12.79
111	2007	27	2145	36.21	na	5.471	285.7	17.87	12.79
111	2007	27	2200	36.33	na	4.603	286.7	11.59	12.77
111	2007	27	2215	36.35	na	3.654	279	14.22	12.77
111	2007	27	2230	36.31	na	2.033	294.8	20.12	12.77
111	2007	27	2245	36.19	na	1.662	288.9	18.18	12.76
111	2007	27	2300	36.06	na	1.156	283	15.24	12.75
111	2007	27	2315	36.03	na	1.456	270.3	13.52	12.75
111	2007	27	2330	35.88	na	0.776	254.6	14.96	12.75
111	2007	27	2345	36	na	1.171	261.5	16.64	12.74
111	2007	27	2400	36.1	na	1.151	257.3	13.94	12.72
111	2007	28	15	36.11	na	2.098	264.5	17.25	12.73
111	2007	28	30	35.93	na	1.929	277.9	15.06	12.72
111	2007	28	45	35.84	na	1.949	274.3	29.17	12.71
111	2007	28	100	36.25	na	2.597	306	23.91	12.69
111	2007	28	115	36.31	na	1.938	306.7	20.72	12.7
111	2007	28	130	36.1	na	2.659	299.9	23.56	12.69
111	2007	28	145	36	na	2.762	299.5	19.4	12.68
111	2007	28	200	35.94	na	2.452	298.7	22.5	12.67
111	2007	28	215	35.92	na	2.39	295.3	21.03	12.67
111	2007	28	230	35.95	na	2.311	296.8	23.74	12.66
111	2007	28	245	36.07	na	2.507	293.5	21.83	12.66
111	2007	28	300	36.13	na	3.108	290.2	18.03	12.64
111	2007	28	315	36.17	na	2.971	273.5	18.18	12.65
111	2007	28	330	36.12	na	2.867	280.6	13.42	12.64
111	2007	28	345	36.15	na	2.756	282.4	16.48	12.64
111	2007	28	400	36.15	na	2.327	285.3	16.03	12.63
111	2007	28	415	36.23	na	2.235	292.4	14.41	12.63
111	2007	28	430	36.22	na	2.103	287	15.49	12.63
111	2007	28	445	35.96	na	1.245	264.7	16.13	12.63
111	2007	28	500	35.86	na	1.213	254.1	14.62	12.61
111	2007	28	515	35.8	na	0.986	279.2	13.48	12.62
111	2007	28	530	35.79	na	2.185	272.7	14.3	12.62
111	2007	28	545	35.78	na	2.426	255.4	21.48	12.62
111	2007	28	600	35.83	na	3.084	270.7	16.53	12.61
111	2007	28	615	35.99	na	2.668	280.8	13.74	12.61
111	2007	28	630	35.93	na	1.055	290.4	11.99	12.62

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	28	645	35.81	na	0.418	263.2	8.35	12.61
111	2007	28	700	35.76	na	0.562	303.6	15.71	12.6
111	2007	28	715	35.81	na	1.893	283.8	11.42	12.61
111	2007	28	730	35.78	na	1.867	292.7	14.65	12.6
111	2007	28	745	35.86	na	1.676	325.2	19.54	12.61
111	2007	28	800	35.79	na	1.579	332	25.26	12.59
111	2007	28	815	35.68	na	1.444	314	18.97	12.61
111	2007	28	830	35.49	na	1.376	310.1	16.74	12.6
111	2007	28	845	35.37	na	1.348	311.4	22.01	12.6
111	2007	28	900	35.3	na	1.357	318	20.16	12.59
111	2007	28	915	35.32	na	2.011	318	19.57	12.6
111	2007	28	930	35.03	na	2.444	331.1	25.09	12.66
111	2007	28	945	34.67	na	2.418	346.5	29.7	12.87
111	2007	28	1000	34.67	na	2.158	13.3	23.51	13.24
111	2007	28	1015	35.09	na	2.738	20.76	21.58	13.9
111	2007	28	1030	35.52	na	3.961	13.01	22.28	13.89
111	2007	28	1045	36.3	na	4.257	20.77	27.06	13.86
111	2007	28	1100	37.33	na	5.827	28.83	16.94	13.84
111	2007	28	1115	37.21	na	5.976	28.45	22.71	13.85
111	2007	28	1130	36.67	na	6.461	45.8	19.69	13.85
111	2007	28	1145	36.61	na	5.781	43.49	23.88	13.85
111	2007	28	1200	36.53	na	5.676	52.84	20.12	13.84
111	2007	28	1215	36.73	na	5.652	50	17.8	13.83
111	2007	28	1230	36.87	na	5.734	50.2	19.81	13.83
111	2007	28	1245	37.47	na	5.364	64.91	25.11	13.82
111	2007	28	1300	37.69	na	5.698	61.59	30.53	13.81
111	2007	28	1315	38.43	na	5.29	31.66	21.6	13.81
111	2007	28	1330	37.73	na	5.332	33.85	23.4	13.81
111	2007	28	1345	38.3	na	3.559	29.7	41.32	13.81
111	2007	28	1400	38.78	na	4.527	58.84	27.18	13.8
111	2007	28	1415	38.96	na	3.265	52.52	41.45	13.79
111	2007	28	1430	39.4	na	5.024	57.72	31.65	13.79
111	2007	28	1445	38.47	na	5.07	58.45	19.58	13.8
111	2007	28	1500	38.27	na	3.663	53.11	20.96	13.8
111	2007	28	1515	38.39	na	3.144	48.18	24.41	13.81
111	2007	28	1530	38.1	na	3.726	73.7	18.35	13.82
111	2007	28	1545	38.13	na	3.368	85.4	24.85	13.78
111	2007	28	1600	38.02	na	3.267	88.7	18.46	13.22
111	2007	28	1615	38.14	na	2.686	83.6	30.31	13.15
111	2007	28	1630	38.09	na	1.942	126.5	32.09	13.05
111	2007	28	1645	38	na	1.353	129.1	20.15	13.01
111	2007	28	1700	37.91	na	0.602	67.86	23.71	12.96
111	2007	28	1715	37.94	na	1.144	97.9	19.26	12.94
111	2007	28	1730	37.96	na	1.961	101.1	21.94	12.92
111	2007	28	1745	37.82	na	1.081	84.5	13.81	12.91
111	2007	28	1800	37.59	na	0.06	114.6	2.978	12.88
111	2007	28	1815	37.29	na	0.375	267.3	17.47	12.88
111	2007	28	1830	36.92	na	0.925	279	14.42	12.87
111	2007	28	1845	36.49	na	0.973	225.6	29.05	12.86
111	2007	28	1900	35.41	na	2.274	243.7	32.72	12.84
111	2007	28	1915	35.27	na	1.897	285.6	52.44	12.84
111	2007	28	1930	35.64	na	1.865	131.3	47.53	12.84
111	2007	28	1945	35.25	na	1.062	274.2	15.82	12.83
111	2007	28	2000	35.51	na	1.475	276.7	56.78	12.82
111	2007	28	2015	35.65	na	0.756	228.9	28.8	12.82
111	2007	28	2030	35.66	na	0.405	220	54.05	12.82
111	2007	28	2045	35.75	na	0.846	267.6	21	12.81
111	2007	28	2100	35.12	na	1.002	22.26	72.9	12.79
111	2007	28	2115	35.47	na	0.241	174.8	17.7	12.8
111	2007	28	2130	35.47	na	1.447	152.2	12.68	12.8

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	28	2145	35.68	na	1.389	136.6	29.48	12.79
111	2007	28	2200	35.49	na	1.321	116.1	34.22	12.77
111	2007	28	2215	35.62	na	3.289	63.86	34.26	12.78
111	2007	28	2230	35.11	na	2.295	65.31	23.8	12.78
111	2007	28	2245	34.56	na	2.393	63.62	12.84	12.77
111	2007	28	2300	33.38	na	3.245	80.2	14.82	12.75
111	2007	28	2315	32.75	na	3.742	60.2	19.21	12.76
111	2007	28	2330	32	na	3.964	49.3	14.5	12.76
111	2007	28	2345	31.14	na	1.856	50.25	12.73	12.74
111	2007	28	2400	30.69	na	na	na	na	12.72
111	2007	29	15	30.34	na	na	na	na	12.74
111	2007	29	30	30	na	na	na	na	12.73
111	2007	29	45	29.97	na	na	na	na	12.72
111	2007	29	100	30.18	na	na	na	na	12.7
111	2007	29	115	30.64	na	na	na	na	12.7
111	2007	29	130	30.72	na	na	na	na	12.7
111	2007	29	145	31.27	na	6.882	46.62	18.5	12.69
111	2007	29	200	31.31	na	8.63	45.17	17.67	12.68
111	2007	29	215	31.34	na	8.45	47.44	24.56	12.68
111	2007	29	230	31.42	na	7.15	50.59	18.48	12.67
111	2007	29	245	31.31	na	7.58	39.09	18.81	12.66
111	2007	29	300	31.15	na	6.94	39.16	18.05	12.64
111	2007	29	315	30.9	na	6.471	35.65	19.57	12.66
111	2007	29	330	30.46	na	6.829	24.8	19.44	12.65
111	2007	29	345	29.88	na	7.03	24.3	23.54	12.64
111	2007	29	400	29.54	na	7.22	14.26	23.93	12.62
111	2007	29	415	29.19	na	7.7	19.14	23.49	12.63
111	2007	29	430	28.95	na	7.34	19.27	22.71	12.62
111	2007	29	445	28.71	na	7.3	17.68	26.28	12.61
111	2007	29	500	28.17	na	7.06	17.51	26.16	12.59
111	2007	29	515	27.76	na	6.62	28.16	16.39	12.6
111	2007	29	530	27.19	na	6.773	2.372	28.54	12.59
111	2007	29	545	26.59	na	7.27	359.2	32.28	12.58
111	2007	29	600	25.98	na	8.03	6.434	36.46	12.56
111	2007	29	615	25.34	na	9.75	13.59	28.25	12.57
111	2007	29	630	24.76	na	9.42	20.06	26.45	12.56
111	2007	29	645	24.51	na	6.328	13.15	28.69	12.56
111	2007	29	700	24.06	na	8.71	7.36	27.74	12.54
111	2007	29	715	23.56	na	8.64	7.78	29.95	12.55
111	2007	29	730	23.32	na	9.19	17.26	24.89	12.55
111	2007	29	745	23.14	na	8.36	8.39	27.17	12.54
111	2007	29	800	23.08	na	7.64	5.249	28.54	12.53
111	2007	29	815	22.98	na	8.57	0.59	23.87	12.53
111	2007	29	830	22.85	na	7.63	3.145	28.12	12.52
111	2007	29	845	22.72	na	8.64	359.1	32.74	12.53
111	2007	29	900	22.45	na	9.26	1.143	34.28	12.51
111	2007	29	915	22.33	na	8.06	358.4	28.94	12.65
111	2007	29	930	22.46	na	9.76	2.07	27.85	14.07
111	2007	29	945	23.16	na	7.98	7.17	28.82	14.04
111	2007	29	1000	23.86	na	7.27	8.91	28.05	14.03
111	2007	29	1015	24.22	na	7.33	4.903	29.13	14.03
111	2007	29	1030	24.36	na	7.89	352.9	32.48	14.02
111	2007	29	1045	24.32	na	8.82	347	30.92	14
111	2007	29	1100	24.54	na	8.92	351.9	38.02	14
111	2007	29	1115	24.72	na	9.25	5.505	31.72	14
111	2007	29	1130	25.1	na	7.88	5.787	30.92	13.99
111	2007	29	1145	25.48	na	7.26	348.1	33.11	13.98
111	2007	29	1200	25.59	na	8.91	344	35.96	13.97
111	2007	29	1215	25.68	na	8.42	353	39.35	13.98
111	2007	29	1230	26.08	na	7.48	343.4	40.66	13.97

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	29	1245	26.43	na	8.39	356.2	32.35	13.97
111	2007	29	1300	26.08	na	8.77	344.3	33.82	13.97
111	2007	29	1315	26.33	na	10.15	359.1	32.6	13.97
111	2007	29	1330	26.44	na	8.86	348.5	34.74	13.98
111	2007	29	1345	26.77	na	8.97	347.2	30.4	13.99
111	2007	29	1400	26.87	na	9.52	338.6	36.04	13.98
111	2007	29	1415	26.71	na	9.97	336.5	33.01	13.99
111	2007	29	1430	26.85	na	9.35	343.6	29.93	13.99
111	2007	29	1445	27.12	na	9.73	359.2	33.02	13.98
111	2007	29	1500	26.69	na	8.79	354.4	36.79	13.98
111	2007	29	1515	27.16	na	9.28	1.835	31.06	13.98
111	2007	29	1530	27.03	na	10.12	347.6	34.69	13.98
111	2007	29	1545	26.74	na	8.87	343.3	34.02	13.98
111	2007	29	1600	26.96	na	8.03	359.6	33.84	13.98
111	2007	29	1615	27.16	na	7.79	352.4	30.57	13.97
111	2007	29	1630	27.22	na	7.94	337	40.18	13.98
111	2007	29	1645	26.8	na	7.61	332.5	35.78	13.98
111	2007	29	1700	26.52	na	8.5	345.9	36.29	13.98
111	2007	29	1715	26.19	na	8.84	344.5	34.62	14
111	2007	29	1730	25.94	na	8.03	343.2	36.35	14.02
111	2007	29	1745	25.68	na	7.94	338.5	32.93	14.02
111	2007	29	1800	25.62	na	7.09	355.3	27.78	13.16
111	2007	29	1815	25.44	na	6.227	359.2	28.19	13.06
111	2007	29	1830	25.28	na	5.821	343.6	35.21	13
111	2007	29	1845	25.23	na	6.857	332.3	32.55	12.95
111	2007	29	1900	25.18	na	6.775	344.3	33.83	12.9
111	2007	29	1915	24.95	na	3.794	343.5	34.35	12.88
111	2007	29	1930	24.76	na	3.637	329.1	30.82	12.87
111	2007	29	1945	24.65	na	3.285	316.2	24.67	12.85
111	2007	29	2000	24.59	na	4.279	317.5	24.94	12.81
111	2007	29	2015	24.66	na	3.895	327.9	36.69	12.82
111	2007	29	2030	24.57	na	3.935	324.3	30.86	12.81
111	2007	29	2045	24.61	na	4.277	322.8	31.7	12.8
111	2007	29	2100	24.53	na	4.567	323.2	25.59	12.77
111	2007	29	2115	24.42	na	4.32	328.6	28.51	12.78
111	2007	29	2130	24.18	na	3.523	319.7	25.75	12.77
111	2007	29	2145	23.96	na	3.146	304.1	28.61	12.76
111	2007	29	2200	24.04	na	4.954	302.7	24.82	12.73
111	2007	29	2215	24.09	na	5.368	299	27.13	12.75
111	2007	29	2230	23.83	na	5.767	302	24.92	12.74
111	2007	29	2245	23.69	na	6.016	308.8	26.9	12.74
111	2007	29	2300	23.55	na	5.521	308.5	25.52	12.71
111	2007	29	2315	23.28	na	3.742	308.8	30.34	12.73
111	2007	29	2330	23.24	na	5.177	317.5	28.47	12.72
111	2007	29	2345	23.02	na	3.523	308	25.55	12.72
111	2007	29	2400	22.79	na	3.474	310	29.44	12.7
111	2007	30	15	22.53	na	3.084	300.9	27.07	12.7
111	2007	30	30	22.53	na	3.336	312.4	29.29	12.69
111	2007	30	45	22.27	na	3.207	295.3	25.76	12.69
111	2007	30	100	22.08	na	3.46	287.7	17.78	12.67
111	2007	30	115	21.71	na	3.477	281.3	13.57	12.67
111	2007	30	130	21.72	na	4.889	280.8	15.97	12.66
111	2007	30	145	21.87	na	5.799	284.5	15.81	12.67
111	2007	30	200	21.99	na	6.36	286.7	16.98	12.65
111	2007	30	215	22	na	6.686	289	14.56	12.65
111	2007	30	230	21.78	na	5.501	290.8	19.33	12.65
111	2007	30	245	21.61	na	5.286	288.6	19.28	12.65
111	2007	30	300	21.48	na	4.762	287.3	18.77	12.62
111	2007	30	315	21.31	na	4.539	288.7	17.46	12.63
111	2007	30	330	21.26	na	5.322	289.7	20.02	12.63

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	30	345	21.2	na	5.219	288.8	15.43	12.61
111	2007	30	400	21.01	na	4.221	292.3	19.63	12.6
111	2007	30	415	20.88	na	3.869	291.4	15.97	12.59
111	2007	30	430	20.63	na	3.273	288.4	15.5	12.59
111	2007	30	445	20.31	na	3.114	288.8	14.65	12.59
111	2007	30	500	20.06	na	2.454	302.6	23.49	12.57
111	2007	30	515	19.97	na	2.611	300.8	22.27	12.57
111	2007	30	530	19.97	na	2.525	305.9	24.77	12.56
111	2007	30	545	20.06	na	2.436	309.6	28.13	12.55
111	2007	30	600	20.09	na	2.645	299.7	25.15	12.52
111	2007	30	615	20.02	na	2.664	294.7	24.58	12.53
111	2007	30	630	19.99	na	2.219	307.7	22.26	12.53
111	2007	30	645	20.07	na	2.128	295.6	20.29	12.51
111	2007	30	700	19.99	na	2.283	304	17.97	12.5
111	2007	30	715	19.75	na	1.946	296.5	15.82	12.5
111	2007	30	730	19.3	na	1.535	295.3	20.3	12.5
111	2007	30	745	19.14	na	2.187	294.1	16.68	12.49
111	2007	30	800	18.92	na	1.812	289.4	18.4	12.47
111	2007	30	815	18.82	na	2.071	286.6	17.77	12.48
111	2007	30	830	19.44	na	3.595	290.9	20.62	12.49
111	2007	30	845	20.41	na	4.185	290.1	20.12	12.79
111	2007	30	900	21.25	na	5.231	290.4	19.05	14.15
111	2007	30	915	21.98	na	6.034	290.1	17.77	14.13
111	2007	30	930	22.59	na	5.533	293.3	21.6	14.11
111	2007	30	945	23.22	na	5.583	288.9	29.12	14.09
111	2007	30	1000	23.98	na	5.495	285.7	23.23	14.07
111	2007	30	1015	24.59	na	5.946	296.7	25.43	14.06
111	2007	30	1030	25.22	na	5.984	280.5	18.23	14.04
111	2007	30	1045	25.55	na	5.414	309.4	29.12	14.03
111	2007	30	1100	26.06	na	5.59	306.9	38.35	14
111	2007	30	1115	26.58	na	6.612	290.9	23.41	14
111	2007	30	1130	27.3	na	6.292	286.2	23.03	13.99
111	2007	30	1145	27.68	na	6.696	293.3	23.05	13.98
111	2007	30	1200	28.01	na	7.31	288.1	23.76	13.96
111	2007	30	1215	28.49	na	6.755	286.6	24.87	13.96
111	2007	30	1230	29.17	na	6.439	280.2	29.81	13.96
111	2007	30	1245	29.52	na	7.57	287.7	28.29	13.95
111	2007	30	1300	29.57	na	7.75	302.6	28.68	13.94
111	2007	30	1315	29.8	na	6.998	293.3	32.25	13.95
111	2007	30	1330	30.37	na	7.01	295.4	31.16	13.95
111	2007	30	1345	29.52	na	9.4	283.2	20.67	13.95
111	2007	30	1400	30.08	na	9.27	284.2	20.76	13.96
111	2007	30	1415	30.31	na	10.79	288.5	15.29	13.96
111	2007	30	1430	30.27	na	10.89	286.4	19.54	13.96
111	2007	30	1445	31.25	na	9.01	281.8	21.4	13.95
111	2007	30	1500	32.13	na	8.27	279.7	19.34	13.94
111	2007	30	1515	33.42	na	9	269	19.25	13.92
111	2007	30	1530	32.88	na	8.11	270.5	21.53	13.92
111	2007	30	1545	33.26	na	8.09	269.9	20.84	13.91
111	2007	30	1600	33.19	na	8.29	280.8	21.26	13.9
111	2007	30	1615	32.93	na	8	270.8	19.89	13.91
111	2007	30	1630	32.73	na	7.81	266.1	23.68	13.92
111	2007	30	1645	32.4	na	6.131	233.7	22	13.91
111	2007	30	1700	32.42	na	5.553	239.7	21.84	13.92
111	2007	30	1715	32.31	na	4.835	234.4	27.47	13.92
111	2007	30	1730	32.05	na	4.772	231.9	23.43	13.93
111	2007	30	1745	31.77	na	2.742	236.1	22.27	13.17
111	2007	30	1800	31.54	na	1.921	226.6	23.15	13.05
111	2007	30	1815	31.16	na	0.259	73.4	23.68	13
111	2007	30	1830	31.07	na	0.717	85.2	12.16	12.96

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	30	1845	31.26	na	0.689	88	11.95	12.93
111	2007	30	1900	31.06	na	0.664	47.21	14.5	12.89
111	2007	30	1915	31.13	na	1.089	346.9	33.51	12.89
111	2007	30	1930	31.36	na	1.117	341.4	44.17	12.88
111	2007	30	1945	31.3	na	0.884	31.15	49.44	12.86
111	2007	30	2000	31.47	na	0.946	107.2	46.35	12.84
111	2007	30	2015	31.21	na	1.143	17.45	18.25	12.84
111	2007	30	2030	30.77	na	0.861	105.1	29.08	12.83
111	2007	30	2045	30.51	na	0.692	78.8	10.42	12.82
111	2007	30	2100	30.2	na	1.8	100.1	17.19	12.8
111	2007	30	2115	30	na	0.607	109.7	11.77	12.8
111	2007	30	2130	30.19	na	1.122	54.52	35.6	12.8
111	2007	30	2145	30.32	na	0.25	16.04	21.61	12.79
111	2007	30	2200	30.02	na	0.38	110.8	7.61	12.78
111	2007	30	2215	29.55	na	0.741	60.5	19.61	12.78
111	2007	30	2230	29.33	na	0.208	63.38	4.1	12.76
111	2007	30	2245	28.7	na	0.048	41.09	3.318	12.76
111	2007	30	2300	28.39	na	0.701	29.19	8.53	12.75
111	2007	30	2315	28.96	na	0.889	20.81	13.46	12.74
111	2007	30	2330	28.9	na	0.887	28.29	7.86	12.74
111	2007	30	2345	28.96	na	2.921	38.58	14.36	12.74
111	2007	30	2400	28.82	na	1.973	34.88	18.37	12.72
111	2007	31	15	28.57	na	0.635	55.42	7.75	12.73
111	2007	31	30	28.36	na	0.33	18.7	10.34	12.73
111	2007	31	45	28.28	na	0.769	359.8	19.65	12.72
111	2007	31	100	28.27	na	1.948	18.92	37.34	12.7
111	2007	31	115	28.25	na	2.084	15.28	18.85	12.71
111	2007	31	130	28.4	na	3.094	24.92	19.59	12.71
111	2007	31	145	28.46	na	2.615	20.16	21.01	12.7
111	2007	31	200	28.39	na	2.323	18.02	26.64	12.68
111	2007	31	215	28.44	na	3.66	2.848	29.59	12.69
111	2007	31	230	28.52	na	3.77	356.6	29.62	12.69
111	2007	31	245	28.89	na	3.843	350.7	31.05	12.68
111	2007	31	300	28.93	na	3.911	355	29.52	12.66
111	2007	31	315	28.78	na	3.474	359.1	29.26	12.68
111	2007	31	330	28.61	na	3.446	13.65	29.74	12.67
111	2007	31	345	28.64	na	3.328	13.2	26.72	12.67
111	2007	31	400	28.74	na	3.472	355.5	31.35	12.65
111	2007	31	415	28.85	na	3.334	6.613	28.21	12.65
111	2007	31	430	28.86	na	5.133	17.31	31.18	12.65
111	2007	31	445	28.7	na	5.559	19.77	23.18	12.64
111	2007	31	500	28.4	na	5.115	17.85	31.16	12.62
111	2007	31	515	28.18	na	5.018	10.67	33.11	12.62
111	2007	31	530	27.87	na	4.607	17.15	28.02	12.62
111	2007	31	545	27.42	na	5.557	18.13	24.14	12.62
111	2007	31	600	27.1	na	5.934	20.7	23.23	12.6
111	2007	31	615	26.93	na	5.231	11.63	28.83	12.6
111	2007	31	630	26.62	na	5.845	14.14	25.84	12.59
111	2007	31	645	26.31	na	5.344	16.2	25.73	12.58
111	2007	31	700	26.04	na	5.652	18	22.18	12.56
111	2007	31	715	25.76	na	4.722	14.65	26.53	12.56
111	2007	31	730	25.55	na	4.897	21.48	21.19	12.56
111	2007	31	745	25.22	na	4.632	12.85	21.36	12.55
111	2007	31	800	24.89	na	3.974	13.78	23.85	12.53
111	2007	31	815	25.09	na	5.443	16.53	21.9	12.54
111	2007	31	830	25.03	na	5.632	7.85	27.46	12.54
111	2007	31	845	25.5	na	6.735	12.78	23.75	12.83
111	2007	31	900	25.89	na	6.342	11.34	30.92	14.05
111	2007	31	915	26.32	na	5.175	359.6	28.1	14.04
111	2007	31	930	26.71	na	5.163	351.8	34.65	14.02

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	31	945	26.75	na	7.09	348.8	39.9	14.01
111	2007	31	1000	26.88	na	8.01	356.1	31.64	14
111	2007	31	1015	27.52	na	6.698	352.8	33.51	13.98
111	2007	31	1030	27.7	na	8.14	0.238	26.95	13.98
111	2007	31	1045	27.6	na	8.41	0.776	30.55	13.97
111	2007	31	1100	27.74	na	7.49	347.7	34.73	13.96
111	2007	31	1115	27.55	na	8.45	331.5	31.26	13.96
111	2007	31	1130	27.81	na	8.75	352.7	34.13	13.95
111	2007	31	1145	27.82	na	10.39	348	37.8	13.95
111	2007	31	1200	28.17	na	8.81	351.8	31.94	13.94
111	2007	31	1215	28.87	na	8.57	2.612	32.67	13.94
111	2007	31	1230	29.29	na	7.44	341.4	36.02	13.94
111	2007	31	1245	29.51	na	8.54	358.5	30.63	13.93
111	2007	31	1300	29.59	na	7.86	327.7	36.82	13.93
111	2007	31	1315	29.68	na	8.95	344.8	35.68	13.93
111	2007	31	1330	29.88	na	8.09	336.1	39.26	13.94
111	2007	31	1345	30.23	na	8.78	353.7	32.02	13.94
111	2007	31	1400	30.05	na	10.05	344.9	32.28	13.94
111	2007	31	1415	30.07	na	9.9	8.03	29.53	13.94
111	2007	31	1430	30.28	na	9.67	4.203	23.89	13.94
111	2007	31	1445	30.84	na	7.66	355.8	38.75	13.93
111	2007	31	1500	31.26	na	7.93	343	37.95	13.92
111	2007	31	1515	31.37	na	7.57	346	37.13	13.92
111	2007	31	1530	31.79	na	7.35	346	37.79	13.92
111	2007	31	1545	32.01	na	7.65	312.8	30.84	13.91
111	2007	31	1600	31.91	na	7.86	320	36.73	13.89
111	2007	31	1615	32.16	na	6.712	330.3	35.08	13.91
111	2007	31	1630	31.86	na	7.05	322.1	37.53	13.9
111	2007	31	1645	31.7	na	7.23	325.6	34.6	13.91
111	2007	31	1700	31.5	na	6.797	327.7	34.78	13.91
111	2007	31	1715	31.66	na	6.443	307.6	25.53	13.92
111	2007	31	1730	31.25	na	6.415	330.3	24.75	13.94
111	2007	31	1745	31.13	na	4.682	324.9	39.13	13.83
111	2007	31	1800	30.87	na	5.42	315.4	33.77	13.14
111	2007	31	1815	30.58	na	4.509	304.5	31.29	13.06
111	2007	31	1830	30.26	na	3.875	301.8	28.86	12.99
111	2007	31	1845	30.07	na	3.227	303.2	21.85	12.95
111	2007	31	1900	29.95	na	2.696	305	21.18	12.9
111	2007	31	1915	29.63	na	2.332	304.6	25.88	12.89
111	2007	31	1930	29.46	na	2.662	304.9	25.28	12.86
111	2007	31	1945	29.02	na	1.521	273.5	26.41	12.85
111	2007	31	2000	28.24	na	1.103	261.6	22.12	12.83
111	2007	31	2015	27.74	na	2.177	292	18.98	12.82
111	2007	31	2030	28.1	na	3.288	289.2	22.95	12.8
111	2007	31	2045	28.28	na	4.018	291.2	17.17	12.8
111	2007	31	2100	28.15	na	3.722	295.8	19.35	12.78
111	2007	31	2115	28.05	na	3.688	297.2	22.07	12.79
111	2007	31	2130	27.89	na	3.7	306.2	32.64	12.78
111	2007	31	2145	27.73	na	4.491	317.6	24.72	12.77
111	2007	31	2200	27.57	na	4.388	308.8	30.63	12.76
111	2007	31	2215	27.34	na	4.285	315.8	25.77	12.76
111	2007	31	2230	27.06	na	4.018	306.4	25.89	12.76
111	2007	31	2245	26.77	na	3.173	311	29.41	12.75
111	2007	31	2300	26.49	na	3.243	293.4	21.9	12.73
111	2007	31	2315	26.27	na	2.635	303.8	25.96	12.74
111	2007	31	2330	25.94	na	2.71	294.3	25.61	12.73
111	2007	31	2345	25.88	na	2.425	304.7	24.64	12.73
111	2007	31	2400	25.58	na	1.841	317.8	25.46	12.71
111	2007	32	15	25.34	na	1.841	314	22.76	12.71
111	2007	32	30	25.11	na	1.638	324.8	23.91	12.7

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	32	45	25.01	na	1.78	303.7	28.53	12.7
111	2007	32	100	24.89	na	1.955	319.2	29.29	12.68
111	2007	32	115	24.75	na	1.331	336.6	25.26	12.69
111	2007	32	130	24.57	na	1.169	323.6	29.18	12.69
111	2007	32	145	24.07	na	0.294	250.7	9.27	12.68
111	2007	32	200	23.63	na	0.047	281.1	1.149	12.66
111	2007	32	215	23.29	na	0.814	263.8	26.73	12.67
111	2007	32	230	23.23	na	0.442	158	12.4	12.67
111	2007	32	245	23.39	na	na	na	na	12.66
111	2007	32	300	23.6	na	2.211	289.7	13.05	12.64
111	2007	32	315	24.23	na	1.121	256	23.54	12.64
111	2007	32	330	24.26	na	1.622	280.3	15.13	12.64
111	2007	32	345	24.74	na	3.589	287.5	14.19	12.64
111	2007	32	400	25.22	na	2.583	296.7	22.99	12.61
111	2007	32	415	25.24	na	3.297	288.6	18.84	12.63
111	2007	32	430	25.29	na	3.395	294.9	24.22	12.63
111	2007	32	445	25.28	na	2.718	269.3	28.48	12.62
111	2007	32	500	25.25	na	3.296	274.8	22.47	12.61
111	2007	32	515	25.53	na	3.801	295.9	20.85	12.61
111	2007	32	530	25.64	na	4.507	304.4	27.11	12.61
111	2007	32	545	25.66	na	3.929	295.7	18.98	12.6
111	2007	32	600	25.59	na	3.016	285.6	21.38	12.58
111	2007	32	615	25.51	na	1.563	295.6	20.42	12.58
111	2007	32	630	25.38	na	1.875	289.9	19.21	12.58
111	2007	32	645	25.34	na	1.828	290.1	21.1	12.58
111	2007	32	700	25.38	na	1.303	299.8	22.55	12.56
111	2007	32	715	25.49	na	1.304	278.1	16.2	12.57
111	2007	32	730	25.37	na	0.219	276	4.312	12.57
111	2007	32	745	25.44	na	0.832	283.3	20.41	12.56
111	2007	32	800	25.63	na	0.713	283.8	15.6	12.53
111	2007	32	815	25.62	na	0.033	255.6	2.597	12.55
111	2007	32	830	25.84	na	1.121	113	14.32	12.54
111	2007	32	845	26.26	na	0.444	151	8.5	12.54
111	2007	32	900	26.68	na	1.458	134.8	13.11	12.53
111	2007	32	915	27.25	na	0.135	156	10.06	12.59
111	2007	32	930	28.48	na	2.21	282.7	26.73	12.74
111	2007	32	945	30.98	na	4.513	266.7	21.81	12.96
111	2007	32	1000	31.95	na	5.159	256	20.48	13.04
111	2007	32	1015	32.49	na	7.07	264.3	23.09	13.19
111	2007	32	1030	32.89	na	7.65	263.4	21.91	13.28
111	2007	32	1045	33.23	na	7.69	260.8	20.72	13.96
111	2007	32	1100	33.91	na	9.18	261.4	23.56	13.94
111	2007	32	1115	34.48	na	9.09	267.8	23.16	13.93
111	2007	32	1130	34.58	na	8.55	268	20.3	13.92
111	2007	32	1145	34.66	na	10.02	267.7	19.42	13.91
111	2007	32	1200	34.55	na	12.21	269	22.74	13.88
111	2007	32	1215	33.94	na	11.25	277.7	21.22	13.89
111	2007	32	1230	34.09	na	10.62	282.7	17.41	13.89
111	2007	32	1245	35.16	na	7.03	286.7	26.97	13.88
111	2007	32	1300	35.41	na	9.85	279.6	18.94	13.87
111	2007	32	1315	35.38	na	9.28	271.9	21.37	13.87
111	2007	32	1330	35.61	na	8.72	275.2	18.85	13.86
111	2007	32	1345	35.18	na	8.86	277.8	17.42	13.87
111	2007	32	1400	34.97	na	9.39	273.6	16.61	13.86
111	2007	32	1415	34.87	na	9.39	273.6	19.04	13.87
111	2007	32	1430	35.21	na	9.25	285.1	21.65	13.87
111	2007	32	1445	35.44	na	7.4	263.7	24.62	13.87
111	2007	32	1500	35.03	na	8.61	273.8	20.18	13.87
111	2007	32	1515	35.1	na	7.79	273.7	21.25	13.87
111	2007	32	1530	34.65	na	8.71	269.7	18.32	13.88

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	32	1545	34.55	na	6.59	273.2	19.58	13.89
111	2007	32	1600	34.21	na	7.96	278.2	22.01	13.88
111	2007	32	1615	34.09	na	7.28	276.9	20.91	13.9
111	2007	32	1630	34.01	na	6.99	275.2	21.6	13.14
111	2007	32	1645	33.76	na	6.372	262.9	22.17	13.05
111	2007	32	1700	33.7	na	6.471	273.5	21.18	12.99
111	2007	32	1715	33.61	na	6.394	272.4	18.17	12.96
111	2007	32	1730	33.47	na	5.078	275.2	19.04	12.94
111	2007	32	1745	33.43	na	4.074	270.8	16.11	12.92
111	2007	32	1800	33.41	na	2.634	279.5	19.16	12.88
111	2007	32	1815	33.35	na	2.391	284	23.81	12.88
111	2007	32	1830	33.26	na	2.426	252.7	20.18	12.88
111	2007	32	1845	33.05	na	2.196	245.8	22.12	12.86
111	2007	32	1900	32.96	na	2.258	247.3	18.25	12.84
111	2007	32	1915	32.61	na	2.014	249	17.32	12.84
111	2007	32	1930	32.08	na	1.069	250.6	15.6	12.83
111	2007	32	1945	31.66	na	0.606	229	12.2	12.82
111	2007	32	2000	31.63	na	0.909	220.3	18.66	12.8
111	2007	32	2015	31.83	na	1.191	252	19.62	12.8
111	2007	32	2030	32.09	na	2.26	249.5	18.37	12.8
111	2007	32	2045	32.73	na	3.368	243.8	19.23	12.8
111	2007	32	2100	33.31	na	3.732	237.5	20.76	12.78
111	2007	32	2115	33.57	na	3.76	243.3	19.24	12.79
111	2007	32	2130	33.62	na	3.726	248.1	22.59	12.78
111	2007	32	2145	33.7	na	4.306	251.1	18.44	12.78
111	2007	32	2200	33.66	na	3.758	261.8	17.8	12.76
111	2007	32	2215	33.64	na	3.322	270.9	20.33	12.78
111	2007	32	2230	33.67	na	3.462	274.2	14.76	12.77
111	2007	32	2245	33.71	na	2.843	271.5	16.24	12.76
111	2007	32	2300	33.76	na	2.454	288.9	28.71	12.75
111	2007	32	2315	33.81	na	2.179	311.2	21.22	12.76
111	2007	32	2330	33.78	na	1.883	329.6	25.31	12.74
111	2007	32	2345	33.66	na	1.403	323.6	28.3	12.74
111	2007	32	2400	33.57	na	2.053	312.6	18.77	12.73
111	2007	33	15	33.52	na	1.834	301.9	24.71	12.74
111	2007	33	30	33.39	na	2.171	310	26.69	12.73
111	2007	33	45	33.29	na	1.305	315.8	23.46	12.72
111	2007	33	100	33.1	na	1.298	315.9	26.85	12.7
111	2007	33	115	32.92	na	0.606	5.305	20.28	12.71
111	2007	33	130	32.78	na	1.185	0.115	24.27	12.7
111	2007	33	145	32.72	na	1.122	345.8	22.95	12.69
111	2007	33	200	32.66	na	1.258	18.44	22.9	12.67
111	2007	33	215	32.62	na	0.765	25.41	14.52	12.67
111	2007	33	230	32.58	na	1.795	46.87	14.89	12.67
111	2007	33	245	32.49	na	2.428	58.4	15.62	12.66
111	2007	33	300	32.39	na	3.151	54.63	15.62	12.64
111	2007	33	315	32.37	na	1.78	73.2	21.57	12.64
111	2007	33	330	32.37	na	1.229	112.5	26.26	12.64
111	2007	33	345	32.47	na	1.545	76.2	18.22	12.64
111	2007	33	400	32.49	na	1.675	79.8	20.35	12.62
111	2007	33	415	32.5	na	2.088	92.4	19	12.62
111	2007	33	430	32.4	na	2.363	88.5	26.21	12.62
111	2007	33	445	32.29	na	2.092	90.4	21.59	12.61
111	2007	33	500	32.24	na	2.794	73.4	15.91	12.6
111	2007	33	515	32.21	na	2.923	73.5	18.41	12.6
111	2007	33	530	32.23	na	3.338	67.11	17.35	12.6
111	2007	33	545	32.33	na	2.384	79.4	19.84	12.59
111	2007	33	600	32.38	na	3.436	90.9	15.06	12.58
111	2007	33	615	32.35	na	3.159	83.5	18.96	12.59
111	2007	33	630	32.03	na	2.574	93.7	19.61	12.59

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	33	645	31.66	na	2.428	89.1	19.89	12.59
111	2007	33	700	31.41	na	3.002	72.4	16.17	12.56
111	2007	33	715	31.24	na	2.885	75.1	15.11	12.58
111	2007	33	730	31.27	na	3.165	57.66	16.46	12.58
111	2007	33	745	31.41	na	3.585	63.77	18.34	12.58
111	2007	33	800	31.56	na	3.599	70.7	20.64	12.56
111	2007	33	815	31.74	na	2.674	74.2	21.26	12.58
111	2007	33	830	31.87	na	2.702	64.14	19.79	12.57
111	2007	33	845	31.9	na	2.167	85.1	15.66	12.57
111	2007	33	900	31.83	na	2.183	58.27	18.08	12.56
111	2007	33	915	31.81	na	1.694	77.1	21	12.59
111	2007	33	930	31.84	na	2.672	90	18.11	12.62
111	2007	33	945	32.04	na	2.338	83.4	21.41	12.72
111	2007	33	1000	32.26	na	1.878	71.8	28.84	12.66
111	2007	33	1015	32.5	na	1.169	67.19	29.61	12.74
111	2007	33	1030	32.69	na	1.818	60.75	19.25	12.69
111	2007	33	1045	32.93	na	2.158	56.18	16.64	12.91
111	2007	33	1100	33.3	na	1.975	82.7	21.28	13.92
111	2007	33	1115	33.75	na	3.968	100.9	17.29	13.9
111	2007	33	1130	34.2	na	4.694	100.3	20.95	13.9
111	2007	33	1145	34.37	na	5.889	98.5	14.69	13.89
111	2007	33	1200	34.69	na	4.923	92.7	16.53	13.88
111	2007	33	1215	35.08	na	4.815	99.2	20.25	13.87
111	2007	33	1230	35.44	na	4.686	90.7	18.04	13.86
111	2007	33	1245	35.94	na	4.35	70.9	25.34	13.85
111	2007	33	1300	36.26	na	3.662	79.6	23.41	13.85
111	2007	33	1315	36.57	na	2.629	65.02	61.17	13.47
111	2007	33	1330	36.59	na	2.19	55.37	23.11	13.41
111	2007	33	1345	36.72	na	2.199	47.86	27.92	13.38
111	2007	33	1400	36.75	na	2.611	52.53	21.61	13.32
111	2007	33	1415	36.74	na	2.904	45.81	34.85	13.21
111	2007	33	1430	36.57	na	2.754	13.5	27.25	13.1
111	2007	33	1445	36.13	na	3.79	30.55	21.19	13.13
111	2007	33	1500	36.04	na	3.544	22.62	26.77	13.13
111	2007	33	1515	35.92	na	3.964	28.68	24.02	13.03
111	2007	33	1530	35.78	na	2.813	39.56	22.85	12.99
111	2007	33	1545	35.61	na	3.869	32.77	21.2	12.98
111	2007	33	1600	35.66	na	3.01	56.05	21.62	12.95
111	2007	33	1615	35.63	na	3.219	67.8	17.49	12.91
111	2007	33	1630	35.71	na	3.73	78.1	17.32	12.91
111	2007	33	1645	35.88	na	3.468	70.7	18.19	12.89
111	2007	33	1700	36.09	na	2.118	89.8	18.18	12.86
111	2007	33	1715	36.31	na	1.791	84.6	23.09	12.85
111	2007	33	1730	36.39	na	3.018	129.7	20.29	12.85
111	2007	33	1745	36.49	na	3.124	151.9	20.82	12.84
111	2007	33	1800	36.12	na	2.891	143.8	29.2	12.82
111	2007	33	1815	35.72	na	2.861	135.5	25.71	12.82
111	2007	33	1830	35.57	na	1.127	190.6	24.69	12.81
111	2007	33	1845	35.41	na	2.695	136	20.9	12.8
111	2007	33	1900	35.29	na	2.122	129.3	26.28	12.78
111	2007	33	1915	35.26	na	3.378	128.7	17.2	12.77
111	2007	33	1930	35.23	na	2.673	139	19.12	12.77
111	2007	33	1945	35.23	na	1.615	122.2	25.57	12.77
111	2007	33	2000	35.34	na	na	na	na	12.74
111	2007	33	2015	35.49	na	0.588	341.6	31.08	12.73
111	2007	33	2030	35.59	na	1.291	2.042	26.85	12.73
111	2007	33	2045	35.69	na	2.863	351.6	31.84	12.72
111	2007	33	2100	35.71	na	3.571	336.3	28.43	12.7
111	2007	33	2115	35.69	na	3.835	359.2	43.2	12.7
111	2007	33	2130	35.52	na	4.078	342.4	36.31	12.69

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	33	2145	35.24	na	4.227	338.8	33.83	12.68
111	2007	33	2200	35.06	na	3.062	356.6	27.79	12.65
111	2007	33	2215	34.88	na	3.239	355.5	31.46	12.66
111	2007	33	2230	34.77	na	3.581	355.1	32.02	12.66
111	2007	33	2245	34.74	na	4.41	329	27.98	12.63
111	2007	33	2300	34.36	na	4.686	333.3	30.81	12.62
111	2007	33	2315	33.95	na	3.065	322.3	31.78	12.63
111	2007	33	2330	33.75	na	3.171	308.4	20.27	12.62
111	2007	33	2345	33.73	na	2.375	307.6	25.23	12.62
111	2007	33	2400	33.89	na	2.706	318.4	27.77	12.6
111	2007	34	15	34.04	na	3.327	314.3	24	12.6
111	2007	34	30	34.14	na	3.668	313.9	29.39	12.6
111	2007	34	45	34.28	na	4.706	315.9	26.41	12.6
111	2007	34	100	34.25	na	4.879	307.5	26.23	12.58
111	2007	34	115	34.07	na	5.225	309.9	23.76	12.59
111	2007	34	130	33.99	na	5.678	309.9	25.78	12.58
111	2007	34	145	33.87	na	5.203	304.1	28.44	12.58
111	2007	34	200	33.73	na	5.332	303.5	23.12	12.56
111	2007	34	215	33.63	na	5.304	306.8	25.69	12.57
111	2007	34	230	33.66	na	5.759	306	26.19	12.56
111	2007	34	245	33.71	na	5.805	307	26.32	12.56
111	2007	34	300	33.63	na	5.829	303.1	25.14	12.56
111	2007	34	315	33.57	na	5.622	303.3	21.11	12.56
111	2007	34	330	33.27	na	7.47	294.7	23.61	12.56
111	2007	34	345	33.23	na	8.13	310	28.93	12.56
111	2007	34	400	32.82	na	8.21	310.7	27.87	12.54
111	2007	34	415	32.3	na	8.3	308.9	30.87	12.56
111	2007	34	430	31.91	na	8.58	307	29.36	12.56
111	2007	34	445	31.27	na	9.86	300.2	24.66	12.55
111	2007	34	500	30.64	na	9.08	308.7	27.43	12.54
111	2007	34	515	30.31	na	7.84	309.9	24.67	12.55
111	2007	34	530	29.92	na	8.43	308.9	25.73	12.54
111	2007	34	545	29.52	na	7.09	302.8	30.33	12.54
111	2007	34	600	29.02	na	6.847	302.9	23.62	12.53
111	2007	34	615	28.65	na	4.545	295.2	17.27	12.53
111	2007	34	630	28.24	na	na	na	na	12.52
111	2007	34	645	27.91	na	na	na	na	12.53
111	2007	34	700	27.5	na	na	na	na	12.52
111	2007	34	715	27.09	na	na	na	na	12.52
111	2007	34	730	26.66	na	na	na	na	12.52
111	2007	34	745	26.27	na	na	na	na	12.52
111	2007	34	800	25.92	na	na	na	na	12.5
111	2007	34	815	25.63	na	na	na	na	12.51
111	2007	34	830	25.61	na	na	na	na	12.6
111	2007	34	845	25.63	na	na	na	na	13.2
111	2007	34	900	25.12	na	na	na	na	13.08
111	2007	34	915	24.77	na	na	na	na	14.03
111	2007	34	930	25.04	na	na	na	na	14.02
111	2007	34	945	25.18	na	na	na	na	14
111	2007	34	1000	25.71	na	na	na	na	13.99
111	2007	34	1015	25.74	na	na	na	na	13.99
111	2007	34	1030	25.75	na	na	na	na	13.98
111	2007	34	1045	26.08	na	na	na	na	13.97
111	2007	34	1100	26.21	na	0.009	334.5	0.006	13.96
111	2007	34	1115	26.06	na	na	na	na	13.96
111	2007	34	1130	26.11	na	na	na	na	13.96
111	2007	34	1145	26.16	na	4.894	311	26.83	13.96
111	2007	34	1200	26.27	na	8.08	301.8	33.18	13.95
111	2007	34	1215	26.53	na	7.37	311.4	32.12	13.96
111	2007	34	1230	26.59	na	7.24	307.7	27.57	13.96

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	34	1245	27.09	na	6.056	309.6	36.12	13.96
111	2007	34	1300	27.08	na	7.9	304.4	26.49	13.96
111	2007	34	1315	27.45	na	8.16	299.7	28.61	13.96
111	2007	34	1330	27.05	na	7.8	306.2	29.87	13.97
111	2007	34	1345	27.38	na	8.04	317	27.66	13.98
111	2007	34	1400	27.9	na	7.75	302.5	31.1	13.98
111	2007	34	1415	28.14	na	7.89	302.9	27.87	13.98
111	2007	34	1430	27.8	na	8.62	307	27.9	13.98
111	2007	34	1445	28.11	na	8.07	309.3	37.65	13.98
111	2007	34	1500	28.33	na	7.64	320.2	39.51	13.96
111	2007	34	1515	28.53	na	8.93	291.7	23.04	13.96
111	2007	34	1530	28.27	na	9.6	283.8	21.24	13.96
111	2007	34	1545	28.26	na	8.93	293	22.51	13.96
111	2007	34	1600	28.35	na	8.74	308	31.07	13.95
111	2007	34	1615	28.1	na	8.93	299	23.85	13.96
111	2007	34	1630	27.66	na	10.66	295.4	22.78	13.96
111	2007	34	1645	27.46	na	10.63	287.8	23.26	13.97
111	2007	34	1700	27.11	na	10.75	286	24.37	13.98
111	2007	34	1715	26.77	na	10.6	295.1	20.81	13.99
111	2007	34	1730	26.5	na	9.51	293	21.12	14
111	2007	34	1745	26.05	na	11.1	284.6	21.57	14
111	2007	34	1800	25.58	na	11.39	284.7	19.24	14.02
111	2007	34	1815	25.24	na	9.69	289.4	19.76	13.13
111	2007	34	1830	25.13	na	9.94	285.7	17.1	13.04
111	2007	34	1845	25.05	na	9.94	286.8	19.52	12.98
111	2007	34	1900	24.91	na	8.42	289.4	21.78	12.93
111	2007	34	1915	24.96	na	8.41	289.4	19.39	12.91
111	2007	34	1930	24.98	na	7.41	286.7	19.16	12.88
111	2007	34	1945	25	na	7.8	289.8	27.86	12.87
111	2007	34	2000	25.03	na	6.63	288.4	22.82	12.84
111	2007	34	2015	25.07	na	6.298	286.3	18.21	12.83
111	2007	34	2030	24.94	na	4.777	289.7	26.31	12.83
111	2007	34	2045	24.86	na	4.815	289.7	18.18	12.81
111	2007	34	2100	25.03	na	4.889	287.5	21.58	12.79
111	2007	34	2115	25.05	na	4.318	286.7	15.01	12.79
111	2007	34	2130	24.78	na	2.021	301.6	28.3	12.79
111	2007	34	2145	24.18	na	1.064	292.5	24.6	12.77
111	2007	34	2200	23.4	na	0.42	280.4	8.96	12.75
111	2007	34	2215	22.82	na	0.586	270.5	20.2	12.75
111	2007	34	2230	23.8	na	3.01	276.3	21.64	12.75
111	2007	34	2245	26.53	na	6.684	266.1	21.7	12.74
111	2007	34	2300	28.51	na	7.65	276.9	20.54	12.73
111	2007	34	2315	29.23	na	8.69	268.4	20.27	12.74
111	2007	34	2330	29.65	na	8.63	271.6	20.03	12.75
111	2007	34	2345	30.03	na	9.13	278.6	19.38	12.74
111	2007	34	2400	30.63	na	10.08	278.2	16.49	12.74
111	2007	35	15	30.99	na	9.88	276.9	17.93	12.74
111	2007	35	30	31.05	na	8.73	276.3	18.91	12.74
111	2007	35	45	31.25	na	8.23	270.9	21.16	12.75
111	2007	35	100	31.53	na	9.77	279.8	18.96	12.74
111	2007	35	115	31.69	na	11.81	277.7	16.16	12.74
111	2007	35	130	31.59	na	10.71	280.8	21.24	12.74
111	2007	35	145	31.38	na	8.48	287.2	24.35	12.74
111	2007	35	200	31.22	na	9.68	293.2	27.79	12.73
111	2007	35	215	30.66	na	6.726	303.5	28.38	12.74
111	2007	35	230	30.1	na	7.69	301.3	24.84	12.73
111	2007	35	245	29.46	na	6.207	311.4	26.66	12.72
111	2007	35	300	28.58	na	6.541	306.5	28.79	12.71
111	2007	35	315	27.88	na	6.499	317.2	24.09	12.71
111	2007	35	330	27.32	na	5.942	323.7	29.82	12.7

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	35	345	26.73	na	6.173	332.6	28.87	12.7
111	2007	35	400	26.12	na	6.01	318.8	30	12.67
111	2007	35	415	25.68	na	6.99	315.7	25.61	12.68
111	2007	35	430	25.27	na	6.417	314.6	30.39	12.67
111	2007	35	445	25.09	na	8.24	315.6	31.83	12.66
111	2007	35	500	24.56	na	6.608	308.1	30.66	12.64
111	2007	35	515	24.34	na	7.5	304	27.15	12.65
111	2007	35	530	24.07	na	8.79	301.5	28.28	12.64
111	2007	35	545	23.94	na	8.2	303.4	24.81	12.63
111	2007	35	600	23.69	na	13.35	298.6	24.47	12.61
111	2007	35	615	22.94	na	11.67	303.9	24.47	12.61
111	2007	35	630	22.2	na	11.98	298.7	25.81	12.61
111	2007	35	645	21.54	na	12.05	304.1	25.9	12.59
111	2007	35	700	21.1	na	10.06	299.3	25.94	12.57
111	2007	35	715	20.76	na	10.06	296	24.58	12.57
111	2007	35	730	20.17	na	10.59	293	23.56	12.57
111	2007	35	745	19.65	na	11.25	292.8	24.65	12.55
111	2007	35	800	19.23	na	10.11	289.6	26.98	12.53
111	2007	35	815	18.9	na	10.18	290.1	16.28	12.53
111	2007	35	830	18.83	na	8.98	294.9	27.49	12.63
111	2007	35	845	18.85	na	10.65	292.7	20.42	13.31
111	2007	35	900	19.02	na	9.69	293.1	23.13	14.13
111	2007	35	915	19.04	na	10.98	286.5	18.89	14.12
111	2007	35	930	19.01	na	11.5	288.7	16.71	14.11
111	2007	35	945	19.1	na	10.4	290.3	21.69	14.11
111	2007	35	1000	19.06	na	10.56	294.7	25.23	14.1
111	2007	35	1015	19.14	na	10.28	290	22.73	14.1
111	2007	35	1030	19.5	na	10.33	288.5	26.69	14.09
111	2007	35	1045	19.81	na	9.8	298.2	27.62	14.09
111	2007	35	1100	19.36	na	8.89	315.6	32.32	14.08
111	2007	35	1115	19.74	na	8.68	303.6	28.5	14.08
111	2007	35	1130	19.82	na	9.49	308.9	29.22	14.08
111	2007	35	1145	20.07	na	10.16	302.3	29.09	14.07
111	2007	35	1200	20.66	na	8.49	302.9	27.29	14.07
111	2007	35	1215	20.56	na	9.45	310.6	28.79	14.07
111	2007	35	1230	20.59	na	10.13	292.7	25.79	14.06
111	2007	35	1245	21.31	na	10.34	289.9	17.08	14.07
111	2007	35	1300	21.15	na	10.2	295.7	28.19	14.07
111	2007	35	1315	21.54	na	8.97	299	30.09	14.07
111	2007	35	1330	21.83	na	9.22	302.2	25.78	14.08
111	2007	35	1345	22.14	na	8.76	315.5	34.42	14.08
111	2007	35	1400	22.57	na	9.57	302.4	32.38	14.07
111	2007	35	1415	22.71	na	11.21	294.6	23.1	14.08
111	2007	35	1430	22.78	na	9.31	307.6	31.13	14.07
111	2007	35	1445	23.19	na	8.82	307.6	28.1	14.06
111	2007	35	1500	23.29	na	9.83	295.4	28.58	14.06
111	2007	35	1515	23.45	na	8.18	297.5	30.18	14.05
111	2007	35	1530	23.73	na	8.67	302.8	31.22	14.04
111	2007	35	1545	24.04	na	8.66	294.8	33.15	14.04
111	2007	35	1600	24.08	na	10.18	296.5	24.54	14.03
111	2007	35	1615	24	na	8.89	301.7	32.26	14.04
111	2007	35	1630	24.22	na	10.29	289.3	20.94	14.04
111	2007	35	1645	24.21	na	7.92	307.4	25.16	14.04
111	2007	35	1700	23.91	na	8.93	299.1	27.83	14.04
111	2007	35	1715	23.79	na	8.76	306.3	30.3	14.04
111	2007	35	1730	23.63	na	9.66	294.6	23.13	14.06
111	2007	35	1745	23.7	na	7.63	304.8	26.14	14.06
111	2007	35	1800	23.18	na	7.14	306.6	25.07	14.07
111	2007	35	1815	22.83	na	6.837	304.1	29.13	13.14
111	2007	35	1830	22.51	na	5.688	311.2	30.26	13.05

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	35	1845	22.3	na	6.012	307.3	27.56	12.98
111	2007	35	1900	22.2	na	5.97	306.3	29.48	12.93
111	2007	35	1915	22.14	na	4.962	316.2	33.67	12.9
111	2007	35	1930	21.77	na	3.259	322.2	33.34	12.87
111	2007	35	1945	21.53	na	3.694	309.2	29.19	12.85
111	2007	35	2000	21.43	na	3.142	304.8	27.34	12.82
111	2007	35	2015	21.08	na	1.841	309.3	23.12	12.82
111	2007	35	2030	20.7	na	1.631	309	24.13	12.8
111	2007	35	2045	20.59	na	1.791	330	36.27	12.79
111	2007	35	2100	20.48	na	2.573	322.4	28.13	12.77
111	2007	35	2115	20.46	na	2.657	307.1	21.94	12.77
111	2007	35	2130	20.54	na	2.967	325.4	26.49	12.75
111	2007	35	2145	20.75	na	4.38	327.3	27.37	12.74
111	2007	35	2200	21.34	na	6.435	328.6	25.95	12.72
111	2007	35	2215	21.25	na	5.6	313.6	28.99	12.73
111	2007	35	2230	21.19	na	5.115	307.8	33.62	12.73
111	2007	35	2245	21.02	na	8.1	333.5	34.54	12.73
111	2007	35	2300	20.57	na	10.26	330.2	35.94	12.71
111	2007	35	2315	20.3	na	9.94	324.9	29.29	12.72
111	2007	35	2330	19.98	na	9.19	318.8	25.67	12.71
111	2007	35	2345	19.53	na	10.76	327.5	35.77	12.71
111	2007	35	2400	19.01	na	10.38	319.7	33.31	12.69
111	2007	36	15	18.52	na	10.09	322.7	34.7	12.69
111	2007	36	30	17.92	na	9.92	327.1	32.04	12.69
111	2007	36	45	17.49	na	9.98	318.5	26.55	12.67
111	2007	36	100	17.16	na	8.77	320.6	29.46	12.67
111	2007	36	115	16.73	na	7.9	321.4	29.66	12.66
111	2007	36	130	16.38	na	7.22	320	33.87	12.66
111	2007	36	145	16.09	na	7.66	305.7	28.94	12.65
111	2007	36	200	15.78	na	8.22	315.1	30.82	12.63
111	2007	36	215	15.35	na	8.58	316.9	31.94	12.63
111	2007	36	230	14.96	na	7.82	310.4	32.62	12.63
111	2007	36	245	14.58	na	7.37	301.5	27.35	12.62
111	2007	36	300	14.28	na	8.64	315.8	28.52	12.6
111	2007	36	315	13.81	na	8.27	308.2	28.68	12.6
111	2007	36	330	13.45	na	7.71	305.5	30.65	12.6
111	2007	36	345	13.1	na	9.15	308.3	30.11	12.59
111	2007	36	400	12.75	na	8.05	309.3	32.56	12.56
111	2007	36	415	12.46	na	7.81	307.4	26.88	12.57
111	2007	36	430	12.11	na	8.28	319.8	30.33	12.56
111	2007	36	445	11.74	na	7.9	313.5	31.71	12.54
111	2007	36	500	11.31	na	8.67	315.2	24.22	12.53
111	2007	36	515	10.93	na	7.25	310.9	27.78	12.53
111	2007	36	530	10.66	na	7.33	308.8	28.39	12.52
111	2007	36	545	10.41	na	7.96	313.9	27.42	12.51
111	2007	36	600	10.17	na	6.4	319.1	31.06	12.48
111	2007	36	615	10.02	na	7.44	313.5	28.63	12.48
111	2007	36	630	9.65	na	7.54	307.5	27.45	12.48
111	2007	36	645	9.4	na	6.865	311.4	29.71	12.47
111	2007	36	700	9.11	na	6.058	305.1	37.76	12.44
111	2007	36	715	8.96	na	7.74	305.6	27.74	12.44
111	2007	36	730	8.76	na	6.213	301.5	25.77	12.45
111	2007	36	745	8.57	na	6.678	309.3	25.31	12.44
111	2007	36	800	8.47	na	7.96	306.1	25.59	12.42
111	2007	36	815	8.43	na	8.15	306.7	20.51	12.42
111	2007	36	830	8.59	na	9.04	302.9	22.99	12.55
111	2007	36	845	8.98	na	10.08	313	25.83	13.61
111	2007	36	900	9.28	na	8.57	330.8	32.7	14.29
111	2007	36	915	9.48	na	8.24	323.2	34.45	14.27
111	2007	36	930	9.71	na	8.73	318.8	32.95	14.27

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	36	945	9.96	na	8.5	317.7	34.33	14.27
111	2007	36	1000	10.04	na	9.01	326.7	31.59	14.25
111	2007	36	1015	10.27	na	9.4	337.4	37.22	14.25
111	2007	36	1030	10.32	na	9.39	321.1	31.29	14.24
111	2007	36	1045	10.23	na	10.73	327.9	28.95	14.23
111	2007	36	1100	10.83	na	10.25	318.3	29.46	14.23
111	2007	36	1115	11.2	na	8.75	332.2	35.2	14.23
111	2007	36	1130	11.5	na	10.36	315.5	30.88	14.22
111	2007	36	1145	11.83	na	8.66	321.4	27.36	14.21
111	2007	36	1200	12.6	na	8.5	305.4	30.23	14.2
111	2007	36	1215	13.16	na	8.92	299.9	26.81	14.2
111	2007	36	1230	13.34	na	9.48	302.3	21.6	14.19
111	2007	36	1245	13.95	na	8.78	310.1	27.03	14.19
111	2007	36	1300	14.57	na	8.97	302.8	32.91	14.17
111	2007	36	1315	14.93	na	10.6	301.7	27.83	14.18
111	2007	36	1330	15.15	na	10.02	304	27.52	14.19
111	2007	36	1345	15.73	na	9.62	307.3	25.88	14.19
111	2007	36	1400	16.33	na	8.93	308	31.19	14.18
111	2007	36	1415	16.77	na	9.47	308.9	30.91	14.18
111	2007	36	1430	16.5	na	11.56	299.6	24.14	14.17
111	2007	36	1445	16.71	na	10.56	315.9	31.61	14.17
111	2007	36	1500	16.81	na	10.07	310.1	29.32	14.15
111	2007	36	1515	17.03	na	9.98	320.4	29.65	14.16
111	2007	36	1530	16.57	na	10.37	315.1	28.89	14.15
111	2007	36	1545	16.55	na	10.78	310	29.67	14.15
111	2007	36	1600	16.89	na	8.79	307.1	28.24	14.14
111	2007	36	1615	16.99	na	9.13	312	35.34	14.15
111	2007	36	1630	17.09	na	8.67	313.9	30.54	14.15
111	2007	36	1645	17.09	na	9.35	306	27.29	14.15
111	2007	36	1700	16.98	na	9.04	310.8	28.99	14.15
111	2007	36	1715	16.85	na	9.04	316.1	30.56	14.15
111	2007	36	1730	16.61	na	9.42	314.3	30.72	14.16
111	2007	36	1745	16.39	na	8.49	311.9	32.85	14.17
111	2007	36	1800	16.14	na	8.54	313.8	25.79	14.17
111	2007	36	1815	15.89	na	6.95	316.6	28.24	13.17
111	2007	36	1830	15.78	na	7.19	307.6	23.8	13.07
111	2007	36	1845	15.64	na	8.68	307.4	26.92	13
111	2007	36	1900	15.59	na	7.7	302.9	25.76	12.93
111	2007	36	1915	15.44	na	6.803	301.9	24.12	12.9
111	2007	36	1930	15.31	na	7.07	310.5	24.9	12.87
111	2007	36	1945	15.31	na	6.789	304	26.17	12.85
111	2007	36	2000	15.22	na	5.04	302.5	25.85	12.82
111	2007	36	2015	15.1	na	7.58	301.6	27.12	12.81
111	2007	36	2030	14.74	na	7.77	305.7	26.38	12.79
111	2007	36	2045	14.53	na	8.17	305	23.18	12.78
111	2007	36	2100	14.39	na	7.34	307.2	28.18	12.76
111	2007	36	2115	14.22	na	7.9	299.4	20.51	12.76
111	2007	36	2130	14.1	na	7.76	315.6	25.74	12.75
111	2007	36	2145	13.92	na	6.225	304	29.49	12.74
111	2007	36	2200	13.78	na	7.35	305.2	30.5	12.72
111	2007	36	2215	13.73	na	7.72	307.4	23.98	12.72
111	2007	36	2230	13.64	na	7.72	303.3	24.66	12.72
111	2007	36	2245	13.54	na	8.03	308.5	27.41	12.7
111	2007	36	2300	13.42	na	6.724	311	25.66	12.68
111	2007	36	2315	13.35	na	7.59	309.3	28.18	12.69
111	2007	36	2330	13.21	na	6.252	309.7	29.78	12.68
111	2007	36	2345	13.06	na	6.072	304.8	28.41	12.67
111	2007	36	2400	12.94	na	6.322	305.9	27.98	12.64
111	2007	37	15	12.83	na	6.604	302.4	27.76	12.66
111	2007	37	30	12.72	na	5.924	310.4	29.48	12.64

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	37	45	12.56	na	6.064	311.2	36.15	12.64
111	2007	37	100	12.48	na	6.984	308	23.15	12.62
111	2007	37	115	12.39	na	7.12	303.3	25.64	12.62
111	2007	37	130	12.24	na	6.437	303.3	25.48	12.62
111	2007	37	145	12.18	na	7.88	319.1	29.2	12.6
111	2007	37	200	12.11	na	7.23	315.7	29.42	12.58
111	2007	37	215	12.05	na	7.81	315.5	28.95	12.59
111	2007	37	230	11.93	na	7.45	308.1	22.89	12.58
111	2007	37	245	11.84	na	6.902	304.9	25.74	12.56
111	2007	37	300	11.77	na	7.55	312	25.98	12.55
111	2007	37	315	11.77	na	8.52	312.2	30.2	12.55
111	2007	37	330	11.64	na	8.68	312.4	28.72	12.54
111	2007	37	345	11.53	na	7.88	306	23.53	12.53
111	2007	37	400	11.38	na	8.33	309.4	29.48	12.51
111	2007	37	415	11.29	na	8.65	311.6	23.96	12.51
111	2007	37	430	11.18	na	8.58	314.9	25.6	12.5
111	2007	37	445	11.12	na	8.33	314.8	27.06	12.5
111	2007	37	500	10.98	na	7.24	314.2	31.5	12.46
111	2007	37	515	10.87	na	7.55	310.5	22.96	12.48
111	2007	37	530	10.78	na	7.47	307.7	30.3	12.47
111	2007	37	545	10.78	na	7.17	311.3	26.96	12.46
111	2007	37	600	10.78	na	7.37	313.8	23.65	12.44
111	2007	37	615	10.74	na	6.952	315.8	31.73	12.45
111	2007	37	630	10.66	na	6.366	314.1	25.8	12.44
111	2007	37	645	10.57	na	7.63	318.3	25.54	12.44
111	2007	37	700	10.54	na	6.986	316.3	29.93	12.42
111	2007	37	715	10.5	na	7.38	321.3	25.01	12.43
111	2007	37	730	10.56	na	6.99	315.4	31.98	12.42
111	2007	37	745	10.52	na	7.36	313.4	28.62	12.42
111	2007	37	800	10.5	na	6.429	320.5	31.4	12.41
111	2007	37	815	10.61	na	7.11	313.8	28	12.42
111	2007	37	830	10.92	na	8.14	318.3	26.43	12.52
111	2007	37	845	11.41	na	8.11	319.1	25.46	13.19
111	2007	37	900	11.94	na	8.75	317.1	26.34	14.27
111	2007	37	915	12.45	na	9.14	315.5	30.57	14.25
111	2007	37	930	12.7	na	9.29	324.7	30.44	14.23
111	2007	37	945	13.3	na	8.68	326.7	34.03	14.23
111	2007	37	1000	13.59	na	9.88	323	25.69	14.21
111	2007	37	1015	14.22	na	9.84	326.5	36.01	14.2
111	2007	37	1030	14.68	na	9.57	328	30.3	14.19
111	2007	37	1045	15.42	na	8.99	320.6	32.84	14.17
111	2007	37	1100	15.94	na	8.51	317.9	32.65	14.16
111	2007	37	1115	16.71	na	8.32	314.7	24.27	14.15
111	2007	37	1130	17.34	na	8.08	300	27.62	14.14
111	2007	37	1145	17.93	na	8.54	314	30.23	14.13
111	2007	37	1200	18.05	na	8.54	317.6	29.9	14.11
111	2007	37	1215	19.02	na	8.4	308.5	29.99	14.11
111	2007	37	1230	19.51	na	8.7	306.9	27.51	14.11
111	2007	37	1245	19.89	na	8.78	307.9	26.85	14.1
111	2007	37	1300	20.5	na	8.49	312.5	30.87	14.09
111	2007	37	1315	20.99	na	8.84	303	20.21	14.09
111	2007	37	1330	21.38	na	8.45	310.1	29.35	14.09
111	2007	37	1345	21.56	na	7.94	312.7	31.75	14.09
111	2007	37	1400	21.84	na	7.7	324.7	34.5	14.09
111	2007	37	1415	21.96	na	7.77	319.1	36.1	14.09
111	2007	37	1430	22.87	na	5.33	334.9	52.09	14.07
111	2007	37	1445	23.03	na	6.646	324.2	40.19	14.07
111	2007	37	1500	23.18	na	6.97	316.1	34.06	14.04
111	2007	37	1515	23.42	na	6.034	334.5	37.57	14.05
111	2007	37	1530	23.27	na	7.32	313.6	35.5	14.04

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	37	1545	23.59	na	7.7	316.6	32.9	14.04
111	2007	37	1600	23.79	na	6.932	304.3	26.79	14.03
111	2007	37	1615	23.92	na	7	316.5	42.12	14.03
111	2007	37	1630	23.92	na	6.916	307.6	29.69	14.04
111	2007	37	1645	23.45	na	7.08	320.6	29.92	14.04
111	2007	37	1700	23.45	na	7.23	321.6	31.63	14.04
111	2007	37	1715	23.5	na	7.22	315.8	34.08	14.04
111	2007	37	1730	23.19	na	6.131	307.1	27.1	14.06
111	2007	37	1745	22.97	na	7.03	305.4	29.59	14.06
111	2007	37	1800	22.6	na	6.427	310.7	31.09	13.18
111	2007	37	1815	22.21	na	5.535	284.6	21.79	13.09
111	2007	37	1830	21.35	na	8.21	280.3	17	13.01
111	2007	37	1845	20.75	na	6.787	269.9	20.45	12.96
111	2007	37	1900	20.44	na	7.22	282.4	19.18	12.91
111	2007	37	1915	20.06	na	7.56	288.5	22.79	12.89
111	2007	37	1930	19.54	na	7.66	288.6	20.09	12.87
111	2007	37	1945	19.21	na	6.98	286.8	20.96	12.85
111	2007	37	2000	18.93	na	6.692	291.6	18.14	12.81
111	2007	37	2015	18.64	na	7.07	293.5	19	12.82
111	2007	37	2030	18.31	na	7.39	290.8	21.4	12.81
111	2007	37	2045	18.02	na	7.27	293.6	21.22	12.79
111	2007	37	2100	17.75	na	5.427	298.4	22.72	12.77
111	2007	37	2115	17.59	na	6.091	304.9	26.02	12.77
111	2007	37	2130	17.41	na	5.626	302.7	25.25	12.76
111	2007	37	2145	17.17	na	4.795	302.1	22.42	12.75
111	2007	37	2200	16.86	na	4.352	297.8	19.65	12.72
111	2007	37	2215	16.52	na	3.251	302.4	24.4	12.74
111	2007	37	2230	16.29	na	5.109	305.6	27.8	12.72
111	2007	37	2245	16.18	na	5.569	308.2	25.74	12.72
111	2007	37	2300	16.05	na	5.541	316.4	25.36	12.7
111	2007	37	2315	15.76	na	6.199	313.3	24.27	12.7
111	2007	37	2330	15.53	na	5.107	308.4	26.14	12.7
111	2007	37	2345	15.29	na	5.447	320.6	25.1	12.68
111	2007	37	2400	15	na	4.459	317.8	27.21	12.66
111	2007	38	15	14.82	na	4.994	314	24.02	12.67
111	2007	38	30	14.65	na	3.718	313.1	31.51	12.66
111	2007	38	45	14.5	na	4.235	315.6	28.2	12.65
111	2007	38	100	14.25	na	3.466	302.5	26.73	12.64
111	2007	38	115	14.06	na	4.227	299.6	20.64	12.64
111	2007	38	130	14.08	na	4.549	304.2	24.23	12.64
111	2007	38	145	14.24	na	5.149	303.3	24.26	12.63
111	2007	38	200	14.42	na	4.95	311.9	22.46	12.6
111	2007	38	215	14.47	na	5.016	309	28.49	12.62
111	2007	38	230	14.4	na	4.541	312.9	28.14	12.62
111	2007	38	245	14.4	na	4.298	319.6	26.91	12.61
111	2007	38	300	14.42	na	3.179	317.2	30.41	12.59
111	2007	38	315	14.43	na	2.521	337.3	31.39	12.6
111	2007	38	330	14.37	na	3.835	309.9	27.71	12.59
111	2007	38	345	14.31	na	3.863	345.2	33.65	12.58
111	2007	38	400	14.22	na	4.406	341.7	37.68	12.56
111	2007	38	415	14.13	na	5.189	330.3	35.23	12.56
111	2007	38	430	14.1	na	4.533	333.7	31.1	12.56
111	2007	38	445	14.06	na	3.625	322.2	30.23	12.55
111	2007	38	500	14.04	na	3.648	336.6	30.31	12.54
111	2007	38	515	14.04	na	5.157	4.974	27.72	12.54
111	2007	38	530	13.86	na	5.934	353.6	32.64	12.53
111	2007	38	545	13.63	na	5.726	3.314	26.98	12.52
111	2007	38	600	13.57	na	4.819	352.6	28.21	12.49
111	2007	38	615	13.43	na	4.394	352.9	32.72	12.5
111	2007	38	630	13.45	na	3.883	338	35.41	12.5

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	38	645	13.1	na	4.271	327.3	31.81	12.49
111	2007	38	700	12.89	na	3.602	326.1	27.69	12.48
111	2007	38	715	12.93	na	3.694	318.1	22.76	12.48
111	2007	38	730	12.95	na	3.964	324.9	36.16	12.47
111	2007	38	745	12.97	na	3.01	323.3	28.92	12.47
111	2007	38	800	13.08	na	3.374	330.1	29.25	12.45
111	2007	38	815	13.21	na	3.105	340.3	32.38	12.46
111	2007	38	830	13.4	na	3.366	336.5	35.77	12.48
111	2007	38	845	13.6	na	4.384	356.7	34.24	12.76
111	2007	38	900	13.72	na	5.068	341	28.06	12.82
111	2007	38	915	13.88	na	4.31	342.5	36.71	14.23
111	2007	38	930	14.2	na	4.845	346.8	29.46	14.21
111	2007	38	945	14.8	na	5.227	354.1	30.07	14.2
111	2007	38	1000	15.38	na	4.579	357.9	33.53	14.18
111	2007	38	1015	16.11	na	5.183	336.9	39.58	14.16
111	2007	38	1030	16.32	na	7.59	6.723	33.44	14.15
111	2007	38	1045	17.09	na	6.568	19.21	28.63	14.13
111	2007	38	1100	17.19	na	6.865	354.6	29.8	14.12
111	2007	38	1115	17.54	na	7.92	10.76	28.11	14.11
111	2007	38	1130	17.79	na	8.16	5.769	26.27	14.11
111	2007	38	1145	18.21	na	7.56	347	36.64	14.1
111	2007	38	1200	18.12	na	7.75	345.6	37.43	14.09
111	2007	38	1215	18.93	na	6.781	352.4	43.41	14.09
111	2007	38	1230	19.02	na	6.372	338.4	36.49	14.08
111	2007	38	1245	19.12	na	6.936	351.6	35.05	14.08
111	2007	38	1300	19.38	na	7.37	358	32.77	14.08
111	2007	38	1315	19.89	na	6.648	346.8	39.9	14.09
111	2007	38	1330	20.23	na	6.906	9.52	29.43	14.09
111	2007	38	1345	20.79	na	7.23	333.4	37.36	14.09
111	2007	38	1400	21.37	na	7.61	352.4	36.56	14.09
111	2007	38	1415	21.5	na	7.98	352.7	36.14	14.08
111	2007	38	1430	22.21	na	8.19	357.5	37.72	14.08
111	2007	38	1445	22.17	na	7.69	334.4	39.2	14.07
111	2007	38	1500	22.87	na	7.83	343.8	37.85	14.06
111	2007	38	1515	23.2	na	7.51	342.7	36.33	14.05
111	2007	38	1530	23.25	na	7.69	338.6	38.79	14.04
111	2007	38	1545	23.37	na	6.896	341.2	32.2	14.04
111	2007	38	1600	23.98	na	7.39	334.4	37.78	14.03
111	2007	38	1615	23.66	na	7.43	331.8	36.53	14.03
111	2007	38	1630	23.51	na	7.7	329.3	33.29	14.03
111	2007	38	1645	23.49	na	8.14	339.1	38.89	14.04
111	2007	38	1700	23.74	na	6.077	324.1	32.01	14.02
111	2007	38	1715	23.55	na	7.65	350.3	38.43	14.04
111	2007	38	1730	23.36	na	7.37	339.5	34.57	14.05
111	2007	38	1745	23.07	na	7.67	339.2	29.12	14.06
111	2007	38	1800	22.95	na	6.169	335.1	34.09	14.07
111	2007	38	1815	22.83	na	6.27	311.8	25.36	13.14
111	2007	38	1830	22.59	na	6.187	319.2	30.91	13.05
111	2007	38	1845	22.41	na	4.891	320.5	35.27	12.99
111	2007	38	1900	22.43	na	5.946	306.4	23.39	12.93
111	2007	38	1915	22.29	na	4.821	317.4	28.94	12.91
111	2007	38	1930	22.21	na	5.326	310.6	28.28	12.88
111	2007	38	1945	22.01	na	4.579	313.4	27.86	12.86
111	2007	38	2000	21.72	na	3.609	310.3	27.33	12.83
111	2007	38	2015	21.52	na	2.988	321.8	25.34	12.83
111	2007	38	2030	21.41	na	3.959	316	28.17	12.81
111	2007	38	2045	21.41	na	4.839	309.5	27.98	12.8
111	2007	38	2100	21.24	na	4.34	292.6	21.92	12.77
111	2007	38	2115	20.89	na	6.117	283.3	15.46	12.78
111	2007	38	2130	20.61	na	5.998	290.5	18.19	12.77

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	38	2145	20.52	na	6	289.9	18.96	12.76
111	2007	38	2200	20.38	na	6.519	286.9	22.61	12.75
111	2007	38	2215	20.3	na	6.789	286.3	19.28	12.75
111	2007	38	2230	20.17	na	6.487	294.9	19.57	12.75
111	2007	38	2245	20.02	na	6.883	291.5	21.27	12.73
111	2007	38	2300	19.75	na	5.215	291.7	19.6	12.72
111	2007	38	2315	19.54	na	5.072	298.4	22.57	12.72
111	2007	38	2330	19.28	na	5.074	295.5	23.36	12.72
111	2007	38	2345	19.06	na	5.314	299.3	23.99	12.71
111	2007	38	2400	18.94	na	5.392	303.9	20.79	12.68
111	2007	39	15	18.67	na	4.706	304.7	26.69	12.69
111	2007	39	30	18.54	na	4.392	295.3	27.94	12.68
111	2007	39	45	18.43	na	4.632	302.9	30.33	12.68
111	2007	39	100	18.31	na	4.106	300.2	26.68	12.66
111	2007	39	115	18.23	na	4.811	304	25.74	12.67
111	2007	39	130	18.02	na	4.702	308.5	26.85	12.65
111	2007	39	145	17.79	na	4.471	303.2	25.16	12.65
111	2007	39	200	17.63	na	5.694	304.8	24.65	12.63
111	2007	39	215	17.65	na	5.66	310.9	26.54	12.63
111	2007	39	230	17.48	na	6.191	298.9	21.43	12.63
111	2007	39	245	17.28	na	5.948	300.9	29.52	12.61
111	2007	39	300	16.97	na	5.577	303.5	26.65	12.59
111	2007	39	315	16.84	na	5.521	303.1	27.9	12.6
111	2007	39	330	16.53	na	5.261	298.6	23.2	12.59
111	2007	39	345	16.3	na	5.296	306.3	26.17	12.59
111	2007	39	400	16.18	na	5.247	306.7	28.32	12.56
111	2007	39	415	15.91	na	4.658	299.6	22.79	12.57
111	2007	39	430	15.77	na	4.688	297.4	27.65	12.56
111	2007	39	445	15.6	na	5.771	302.8	26.8	12.55
111	2007	39	500	15.45	na	5.098	307.8	26.01	12.53
111	2007	39	515	15.22	na	4.348	307	27.98	12.54
111	2007	39	530	15.17	na	5.426	305.7	24.74	12.53
111	2007	39	545	15.11	na	5.972	308.5	23.82	12.52
111	2007	39	600	15.02	na	5.443	305.7	27.04	12.5
111	2007	39	615	14.9	na	3.976	312.3	30.29	12.5
111	2007	39	630	14.74	na	4.211	308.5	29.5	12.49
111	2007	39	645	14.57	na	4.972	310.6	25.85	12.48
111	2007	39	700	14.57	na	5.97	318.1	25.68	12.46
111	2007	39	715	14.51	na	5.638	311	25.43	12.47
111	2007	39	730	14.46	na	6.469	306.3	24.93	12.47
111	2007	39	745	14.33	na	6.366	302.3	25.48	12.46
111	2007	39	800	14.28	na	5.412	307.4	29.44	12.44
111	2007	39	815	14.43	na	6.39	308	29.3	12.46
111	2007	39	830	14.84	na	6.755	314.4	28.08	12.58
111	2007	39	845	15.31	na	6.555	322.2	29.87	13.37
111	2007	39	900	15.84	na	6.968	314.6	28.55	14.2
111	2007	39	915	16.45	na	7.7	317.6	31.11	14.18
111	2007	39	930	16.95	na	8.19	316.8	28.25	14.18
111	2007	39	945	17.48	na	7.89	321	26.44	14.15
111	2007	39	1000	18.17	na	8.18	324.8	30.61	14.14
111	2007	39	1015	18.43	na	9.15	323	29.7	14.13
111	2007	39	1030	18.99	na	8.03	319.7	32.99	14.12
111	2007	39	1045	19.19	na	8.62	313.9	33.24	14.11
111	2007	39	1100	19.38	na	8.34	328.2	30.55	14.1
111	2007	39	1115	20.12	na	7.94	308.7	31.73	14.09
111	2007	39	1130	20.59	na	7.96	326.5	32.04	14.08
111	2007	39	1145	20.99	na	8.09	332.7	36.64	14.07
111	2007	39	1200	20.67	na	8.6	334.4	31.91	14.06
111	2007	39	1215	20.93	na	10.38	325.7	31.07	14.07
111	2007	39	1230	21.5	na	8.54	317.9	29.66	14.06

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	39	1245	22.4	na	8.67	321	27.44	14.06
111	2007	39	1300	22.56	na	9.25	314.7	28.46	14.05
111	2007	39	1315	23.34	na	7.22	327.3	32.71	14.05
111	2007	39	1330	23.11	na	10.71	309	31.9	14.06
111	2007	39	1345	23.49	na	10.6	315.5	31.26	14.06
111	2007	39	1400	24.22	na	9.5	315.5	36.56	14.06
111	2007	39	1415	24.2	na	11.87	315.1	26.2	14.06
111	2007	39	1430	24.8	na	9.77	312.6	30.3	14.05
111	2007	39	1445	25.53	na	9.24	329.7	35.98	14.04
111	2007	39	1500	25.56	na	9.93	334.1	33.51	14.02
111	2007	39	1515	25.6	na	9.56	328.9	33.68	14.02
111	2007	39	1530	25.71	na	9.07	335.1	37.09	14.01
111	2007	39	1545	26.25	na	8.98	318.6	34	14
111	2007	39	1600	25.9	na	9.87	321.6	26.87	14
111	2007	39	1615	26.3	na	9.23	328.7	36.24	14.01
111	2007	39	1630	26.74	na	8.31	319.5	29.59	14
111	2007	39	1645	26.96	na	8.82	340.6	35.36	14
111	2007	39	1700	26.82	na	9.02	336.4	33.11	14
111	2007	39	1715	26.96	na	9.33	322.4	34.84	14.01
111	2007	39	1730	26.82	na	8.91	325.2	32.91	14.01
111	2007	39	1745	26.57	na	9.93	336.1	31.93	14.02
111	2007	39	1800	26.28	na	9.97	336.2	29.27	14.02
111	2007	39	1815	26.08	na	8.14	337.1	31.93	13.14
111	2007	39	1830	25.8	na	8.29	333.7	30.88	13.05
111	2007	39	1845	25.52	na	6.561	335.2	39.4	12.99
111	2007	39	1900	25.28	na	6.191	330.7	32.13	12.94
111	2007	39	1915	25.1	na	5.585	326.8	32.31	12.91
111	2007	39	1930	24.92	na	6.358	324.1	31.06	12.89
111	2007	39	1945	24.79	na	6.125	321.1	34.26	12.87
111	2007	39	2000	24.66	na	7	317.2	24.75	12.85
111	2007	39	2015	24.49	na	5.429	321.5	28.73	12.84
111	2007	39	2030	24.08	na	4.446	315	31.36	12.83
111	2007	39	2045	24.07	na	5.427	313.1	29.29	12.81
111	2007	39	2100	23.91	na	5.427	318	26.41	12.79
111	2007	39	2115	23.83	na	4.889	310.3	27.82	12.79
111	2007	39	2130	23.46	na	2.97	286.5	22.56	12.79
111	2007	39	2145	23.01	na	2.442	284.4	16.61	12.77
111	2007	39	2200	22.26	na	1.728	267.3	20.01	12.75
111	2007	39	2215	21.96	na	3.955	286.7	25.91	12.75
111	2007	39	2230	22.44	na	6.034	284.6	22.7	12.75
111	2007	39	2245	22.48	na	6.284	286.3	21.51	12.74
111	2007	39	2300	22.33	na	6.696	282.5	17.33	12.73
111	2007	39	2315	22.03	na	5.608	278.5	18.8	12.73
111	2007	39	2330	21.57	na	6.302	279.5	21.59	12.71
111	2007	39	2345	21.45	na	7.07	280.3	19.97	12.72
111	2007	39	2400	21.27	na	7.44	288.8	20.48	12.7
111	2007	40	15	21.12	na	8.83	288.3	19.83	12.7
111	2007	40	30	20.87	na	7.58	293	21.16	12.7
111	2007	40	45	20.54	na	6.682	292	19.35	12.69
111	2007	40	100	20.35	na	7.65	290.6	17.26	12.67
111	2007	40	115	20.14	na	8.76	287.7	17.94	12.68
111	2007	40	130	19.89	na	8.4	288.5	19.14	12.67
111	2007	40	145	19.74	na	8.23	287.8	22.76	12.66
111	2007	40	200	19.6	na	7.78	298.5	19.35	12.64
111	2007	40	215	19.66	na	7.84	302	23.94	12.65
111	2007	40	230	19.59	na	7.45	302.1	24.96	12.64
111	2007	40	245	19.5	na	7.6	302.2	21.36	12.64
111	2007	40	300	19.33	na	6.974	301.8	27.11	12.62
111	2007	40	315	19.37	na	7.72	305.5	23.26	12.63
111	2007	40	330	19.25	na	7.38	309.7	28.34	12.61

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	40	345	19.17	na	8.88	312.3	27.15	12.61
111	2007	40	400	19.02	na	7.97	309.3	26.4	12.58
111	2007	40	415	18.94	na	7.93	314.9	31.89	12.59
111	2007	40	430	18.83	na	8.26	310	28.93	12.58
111	2007	40	445	18.67	na	8.44	310.9	31.27	12.58
111	2007	40	500	18.42	na	6.519	306.3	25.32	12.55
111	2007	40	515	18.3	na	6.821	310.5	25.34	12.56
111	2007	40	530	18.15	na	6.324	308.4	26.51	12.55
111	2007	40	545	17.99	na	6.06	302.3	25.94	12.53
111	2007	40	600	17.89	na	5.424	313.6	26.59	12.52
111	2007	40	615	17.91	na	6.316	315.3	31.78	12.53
111	2007	40	630	18.03	na	7.01	317.1	29.17	12.52
111	2007	40	645	18.07	na	8.28	318.6	28.57	12.51
111	2007	40	700	18	na	8.08	315.8	28.69	12.49
111	2007	40	715	17.88	na	9.1	323.4	28.48	12.5
111	2007	40	730	17.67	na	7.52	323.9	27.12	12.5
111	2007	40	745	17.53	na	6.662	319.6	26.4	12.49
111	2007	40	800	17.46	na	6.873	316.8	26.85	12.47
111	2007	40	815	17.47	na	6.03	313.3	31.97	12.48
111	2007	40	830	17.82	na	5.821	306.1	29.46	12.59
111	2007	40	845	18.24	na	7.69	305.5	23.48	13.17
111	2007	40	900	18.72	na	7.06	310.8	30.46	14.15
111	2007	40	915	19.31	na	7.49	309	28.84	14.14
111	2007	40	930	19.82	na	7.95	305.4	24.6	14.13
111	2007	40	945	20.55	na	7.51	308.2	26.12	14.11
111	2007	40	1000	20.89	na	9.97	312.6	29.04	14.1
111	2007	40	1015	21.33	na	9.52	306.6	28.99	14.09
111	2007	40	1030	21.78	na	8.83	306.7	28.64	14.08
111	2007	40	1045	22.1	na	10.74	306.4	29.35	14.07
111	2007	40	1100	22.46	na	10.2	303.8	26.43	14.05
111	2007	40	1115	23.22	na	8.39	312.8	28.65	14.05
111	2007	40	1130	23.11	na	11.31	314	27.29	14.03
111	2007	40	1145	23.7	na	9.47	320.5	32.38	14.03
111	2007	40	1200	23.85	na	10.23	313.3	28.61	14.02
111	2007	40	1215	24.63	na	9.01	312.4	28.93	14.02
111	2007	40	1230	25.16	na	8.58	338.5	34.86	14.01
111	2007	40	1245	25.72	na	9.88	325	37.58	14
111	2007	40	1300	26.1	na	10.24	339.5	33.14	14
111	2007	40	1315	27.18	na	9.3	332.3	33.88	14
111	2007	40	1330	27.45	na	9.88	319	36.12	14
111	2007	40	1345	27.16	na	10.31	337.2	36.06	14
111	2007	40	1400	27.77	na	10	347.1	33.26	14
111	2007	40	1415	28	na	9.74	322.5	30.53	14
111	2007	40	1430	28.31	na	9.4	326	35.31	13.99
111	2007	40	1445	28.15	na	9.79	347.5	38.47	13.98
111	2007	40	1500	28.6	na	9.13	350	35.12	13.97
111	2007	40	1515	28.88	na	9.68	318.4	33.68	13.96
111	2007	40	1530	29.07	na	10.22	315.6	33.69	13.96
111	2007	40	1545	29.68	na	8.59	335.7	32.25	13.95
111	2007	40	1600	29.89	na	9.58	330	36	13.94
111	2007	40	1615	29.65	na	9.41	336.8	41.39	13.95
111	2007	40	1630	29.43	na	10.3	339.2	33.72	13.95
111	2007	40	1645	29.22	na	9.39	344.5	38.82	13.95
111	2007	40	1700	29.31	na	10	332.8	34.98	13.95
111	2007	40	1715	29.33	na	9.37	319.9	26.94	13.96
111	2007	40	1730	29.01	na	8.73	340.9	32.32	13.96
111	2007	40	1745	28.73	na	7.81	353.6	33.94	13.97
111	2007	40	1800	27.97	na	8.77	359.5	31.12	13.98
111	2007	40	1815	27.09	na	8.68	353.5	29.49	13.14
111	2007	40	1830	26.53	na	9.68	343.9	38.6	13.05

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	40	1845	26.03	na	8.31	338.1	36.33	12.99
111	2007	40	1900	25.73	na	6.787	334.1	37.99	12.93
111	2007	40	1915	25.44	na	8.13	337.5	33.96	12.91
111	2007	40	1930	25.18	na	8.82	331	29.77	12.88
111	2007	40	1945	24.98	na	8.26	332.5	27.26	12.87
111	2007	40	2000	24.84	na	7.59	335.2	25.91	12.84
111	2007	40	2015	24.64	na	7.07	326.3	27.11	12.84
111	2007	40	2030	24.57	na	6.457	328.4	30.07	12.83
111	2007	40	2045	24.48	na	6.815	335.6	31.46	12.81
111	2007	40	2100	24.43	na	6	337.7	31.19	12.79
111	2007	40	2115	24.39	na	5.899	335.9	33.25	12.79
111	2007	40	2130	24.3	na	6.35	324.1	31.51	12.79
111	2007	40	2145	24.31	na	6.298	331	31.55	12.77
111	2007	40	2200	24.28	na	6.115	325.4	28.16	12.75
111	2007	40	2215	24.22	na	4.666	336.7	33.66	12.77
111	2007	40	2230	24.2	na	4.591	332	34.82	12.76
111	2007	40	2245	24.07	na	3.704	305.7	28.27	12.75
111	2007	40	2300	23.84	na	2.889	299.7	24.68	12.73
111	2007	40	2315	23.67	na	3.159	302.8	24.26	12.73
111	2007	40	2330	23.52	na	3.38	304	22.83	12.73
111	2007	40	2345	23.43	na	4.161	293.3	19.38	12.73
111	2007	40	2400	23.56	na	4.529	321.2	26.99	12.71
111	2007	41	15	23.53	na	3.114	320.7	37.09	12.71
111	2007	41	30	23.38	na	2.649	320.5	28.32	12.71
111	2007	41	45	23.37	na	4.94	320.2	27.36	12.7
111	2007	41	100	23.37	na	5.296	319	27.55	12.69
111	2007	41	115	23.29	na	4.887	312.7	31.32	12.69
111	2007	41	130	23.08	na	3.607	303.7	34.73	12.68
111	2007	41	145	22.99	na	3.633	308.2	23.62	12.68
111	2007	41	200	22.73	na	3.165	314.8	21.53	12.65
111	2007	41	215	22.48	na	3.607	318.3	27.37	12.67
111	2007	41	230	22.41	na	3.97	331.1	32.27	12.66
111	2007	41	245	22.06	na	3.015	317.6	37.94	12.65
111	2007	41	300	21.67	na	2.549	300.1	22.42	12.64
111	2007	41	315	21.43	na	2.207	305.9	26.3	12.64
111	2007	41	330	21.28	na	1.602	317.1	26.04	12.63
111	2007	41	345	21.03	na	1.078	284.6	31.34	12.62
111	2007	41	400	20.09	na	1.542	284.4	28.98	12.6
111	2007	41	415	19.76	na	1.724	288	30.61	12.6
111	2007	41	430	20.11	na	2.482	298.8	23.19	12.59
111	2007	41	445	20.15	na	1.754	294.6	17.36	12.59
111	2007	41	500	19.93	na	1.095	312.6	29.3	12.57
111	2007	41	515	19.31	na	1.281	274.2	17.03	12.57
111	2007	41	530	18.71	na	1.112	324.7	16.6	12.56
111	2007	41	545	18.98	na	1.031	289.1	38.62	12.55
111	2007	41	600	18.67	na	0.97	295.8	39.03	12.53
111	2007	41	615	17.8	na	0.754	279.5	9.94	12.53
111	2007	41	630	17.3	na	0.772	320.7	11.67	12.52
111	2007	41	645	18.26	na	0.041	347.9	3.793	12.52
111	2007	41	700	18.34	na	na	na	na	12.48
111	2007	41	715	18.41	na	na	na	na	12.5
111	2007	41	730	18.43	na	0.031	335.1	2.179	12.49
111	2007	41	745	18.49	na	na	na	na	12.49
111	2007	41	800	18.44	na	na	na	na	12.47
111	2007	41	815	18.73	na	na	na	na	12.48
111	2007	41	830	19.08	na	1.695	280.4	16.05	12.48
111	2007	41	845	19.9	na	2.203	280.8	16.26	12.5
111	2007	41	900	20.95	na	1.379	293.3	22	12.63
111	2007	41	915	21.75	na	2.212	269.1	18.1	12.83
111	2007	41	930	22.49	na	1.142	250.3	22.22	14.12

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	41	945	23.19	na	2.181	276.7	25.79	14.13
111	2007	41	1000	23.94	na	2.038	295.2	24.62	14.11
111	2007	41	1015	24.57	na	3.424	326.6	38.95	14.08
111	2007	41	1030	25.2	na	3.376	277	23.75	14.06
111	2007	41	1045	26.09	na	3.597	263.8	28.25	14.04
111	2007	41	1100	26.36	na	4.37	290.2	21.17	14.02
111	2007	41	1115	26.51	na	4.008	295.9	41.38	14.02
111	2007	41	1130	26.92	na	3.798	285.3	52.02	14
111	2007	41	1145	27.85	na	3.013	277.1	65.47	13.98
111	2007	41	1200	28.04	na	3.099	306.5	40.09	13.96
111	2007	41	1215	29.01	na	3.291	293.2	62.1	13.95
111	2007	41	1230	29.06	na	4.901	297.6	47.24	13.94
111	2007	41	1245	28.81	na	4.485	357.4	54.91	13.94
111	2007	41	1300	29.98	na	5.27	321	50.35	13.92
111	2007	41	1315	30.3	na	6.016	290.9	27.75	13.94
111	2007	41	1330	30.59	na	5.102	314.7	32.57	13.94
111	2007	41	1345	31.23	na	5.115	342.5	50.77	13.93
111	2007	41	1400	31.24	na	5.753	313.5	30.54	13.93
111	2007	41	1415	31.89	na	5.857	306.3	44.61	13.94
111	2007	41	1430	31.84	na	6.57	319.7	34.13	13.92
111	2007	41	1445	31.13	na	6.902	324.3	30.77	13.92
111	2007	41	1500	30.72	na	6.306	334.5	33.97	13.93
111	2007	41	1515	31.25	na	5.922	340	37.28	13.93
111	2007	41	1530	30.61	na	5.374	313.3	35.35	13.93
111	2007	41	1545	31.26	na	4.966	313.8	33.35	13.94
111	2007	41	1600	32.05	na	7.52	309.2	31.85	13.91
111	2007	41	1615	31.47	na	7.2	330.3	36.63	13.93
111	2007	41	1630	31.77	na	6.473	336.5	36.66	13.93
111	2007	41	1645	31.64	na	7.52	357.3	31.05	13.92
111	2007	41	1700	31.89	na	6.934	339.6	30.63	13.92
111	2007	41	1715	31.33	na	7.2	350.7	34.26	13.92
111	2007	41	1730	30.63	na	7.92	2.409	35.4	13.93
111	2007	41	1745	30.13	na	7.78	3.674	31.21	13.94
111	2007	41	1800	29.44	na	7.78	1.104	28.08	13.96
111	2007	41	1815	28.79	na	6.535	352.3	33.36	13.16
111	2007	41	1830	28.21	na	6.823	357.3	37.52	13.06
111	2007	41	1845	27.66	na	6.809	5.399	30.47	13
111	2007	41	1900	27.15	na	7.11	0.345	29.25	12.94
111	2007	41	1915	26.79	na	6.777	2.553	28.31	12.92
111	2007	41	1930	26.5	na	5.861	357.1	33.59	12.89
111	2007	41	1945	26.35	na	7.24	350.2	32.91	12.87
111	2007	41	2000	26.19	na	7.71	353.8	28.03	12.84
111	2007	41	2015	25.89	na	5.08	337.5	30.25	12.84
111	2007	41	2030	25.66	na	5.813	346.9	30.29	12.82
111	2007	41	2045	25.36	na	4.438	343.1	34.4	12.81
111	2007	41	2100	25.3	na	5.165	340	34.97	12.78
111	2007	41	2115	25.07	na	6.135	338.4	32.91	12.79
111	2007	41	2130	24.95	na	4.897	335.5	35.49	12.78
111	2007	41	2145	24.81	na	6.447	338.3	32.11	12.78
111	2007	41	2200	24.65	na	5.692	344.2	35.45	12.76
111	2007	41	2215	24.57	na	6.463	354.3	25.97	12.75
111	2007	41	2230	24.39	na	4.966	348.2	31.11	12.75
111	2007	41	2245	24.11	na	5.05	351.6	29.35	12.74
111	2007	41	2300	24.01	na	5.203	353.4	30.55	12.73
111	2007	41	2315	23.83	na	4.752	344.8	28.24	12.73
111	2007	41	2330	23.55	na	3.327	332.8	36.25	12.72
111	2007	41	2345	23.29	na	4.231	343.6	32.94	12.72
111	2007	41	2400	23.29	na	4.99	332.9	31.35	12.7
111	2007	42	15	23.11	na	4.108	329.1	29.31	12.71
111	2007	42	30	22.97	na	4.644	331.2	29.24	12.7

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	42	45	22.95	na	5.086	326.6	29.56	12.7
111	2007	42	100	22.9	na	5.306	339.4	35.66	12.67
111	2007	42	115	22.7	na	4.251	329.8	33.77	12.69
111	2007	42	130	22.55	na	4.513	334.7	28.58	12.68
111	2007	42	145	22.25	na	3.444	344.6	32.89	12.67
111	2007	42	200	22.12	na	5.032	338.3	25.49	12.66
111	2007	42	215	22.06	na	4.618	330.3	24.09	12.67
111	2007	42	230	21.84	na	4.642	327.8	18.76	12.66
111	2007	42	245	21.64	na	3.798	333.5	29.01	12.65
111	2007	42	300	21.31	na	4.223	331.9	25.14	12.63
111	2007	42	315	21.18	na	4.254	336.6	31.42	12.63
111	2007	42	330	21.13	na	3.901	336.8	32.85	12.63
111	2007	42	345	20.77	na	3.481	336.4	33.12	12.63
111	2007	42	400	20.7	na	3.798	335.1	33.19	12.61
111	2007	42	415	20.5	na	3.555	343.9	32.05	12.61
111	2007	42	430	20.31	na	3.468	341.9	32.64	12.6
111	2007	42	445	20.03	na	3.14	337.1	26.75	12.59
111	2007	42	500	19.79	na	3.066	325	29.41	12.57
111	2007	42	515	19.56	na	2.799	326.9	27.92	12.58
111	2007	42	530	19.39	na	3.97	334.2	27.68	12.57
111	2007	42	545	19.41	na	3.635	333.2	33.44	12.56
111	2007	42	600	19.19	na	3.185	326.7	25.8	12.54
111	2007	42	615	19.01	na	3.4	336.3	28.31	12.55
111	2007	42	630	18.89	na	2.923	339.6	35.65	12.53
111	2007	42	645	18.65	na	2.42	342.2	29.41	12.52
111	2007	42	700	18.32	na	2.257	357.5	27.19	12.51
111	2007	42	715	17.95	na	1.486	344.7	27.38	12.51
111	2007	42	730	17.45	na	1.067	329.9	22.11	12.5
111	2007	42	745	16.76	na	0.456	312.4	16.21	12.5
111	2007	42	800	16.29	na	1.268	307.8	17.68	12.48
111	2007	42	815	16.7	na	1.894	321.2	18.24	12.48
111	2007	42	830	17.69	na	2.782	319.3	24.39	12.63
111	2007	42	845	18.61	na	2.412	323.3	28.52	13.02
111	2007	42	900	19.33	na	2.506	336.7	31.12	14.16
111	2007	42	915	20.13	na	3.424	335.6	30.13	14.15
111	2007	42	930	21.11	na	2.987	335.1	38.21	14.12
111	2007	42	945	21.74	na	3.739	353.6	40.05	14.1
111	2007	42	1000	22.49	na	3.668	335.8	41.55	14.07
111	2007	42	1015	22.93	na	3.726	338.2	34.63	14.06
111	2007	42	1030	23.94	na	3.112	310.2	43.86	14.04
111	2007	42	1045	24.44	na	3.315	326.8	43.19	14.02
111	2007	42	1100	25.09	na	2.377	304.6	53.59	14
111	2007	42	1115	25.82	na	2.714	305.9	27.85	13.98
111	2007	42	1130	26.2	na	2.458	253.8	73.5	13.97
111	2007	42	1145	26.12	na	3.758	200.3	81.3	13.96
111	2007	42	1200	25.76	na	5.284	175.2	19.71	13.95
111	2007	42	1215	25.73	na	5.958	195.2	30.74	13.96
111	2007	42	1230	25.73	na	5.614	216.6	25.59	13.97
111	2007	42	1245	27.32	na	5.221	245.7	48.1	13.96
111	2007	42	1300	27.6	na	6.501	240.3	25.2	13.95
111	2007	42	1315	27.28	na	4.678	240.7	41.48	13.96
111	2007	42	1330	27.6	na	4.996	240.5	25.46	13.96
111	2007	42	1345	28.17	na	6.608	245.9	25.78	13.95
111	2007	42	1400	28.81	na	6.966	237	27.93	13.95
111	2007	42	1415	28.99	na	7.33	242.6	23.9	13.96
111	2007	42	1430	29.08	na	7.28	241.7	21.94	13.96
111	2007	42	1445	29.33	na	8.3	237.5	20.76	13.96
111	2007	42	1500	29.58	na	7.61	247.8	23.09	13.94
111	2007	42	1515	29.31	na	8.97	252.8	27.48	13.94
111	2007	42	1530	29.33	na	7.71	249.9	24.37	13.94

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	42	1545	29.26	na	9.65	253.7	24.31	13.94
111	2007	42	1600	28.77	na	9.38	262	20.12	13.94
111	2007	42	1615	28.81	na	8.5	247.5	24.03	13.95
111	2007	42	1630	28.8	na	8.74	253	24.12	13.95
111	2007	42	1645	28.77	na	8.85	261.5	21.79	13.96
111	2007	42	1700	28.62	na	7.97	256.7	19.4	13.96
111	2007	42	1715	28.68	na	7.47	262	22.65	13.96
111	2007	42	1730	28.48	na	7.51	255.2	19.33	13.97
111	2007	42	1745	28.47	na	6.127	258	17.84	13.98
111	2007	42	1800	28.51	na	4.696	267.2	22.54	13.99
111	2007	42	1815	28.48	na	5.08	274.4	17.19	13.16
111	2007	42	1830	28.06	na	4.072	267.2	18.46	13.06
111	2007	42	1845	27.77	na	3.495	264.9	17.76	13
111	2007	42	1900	27.56	na	2.963	269.3	22.45	12.94
111	2007	42	1915	27.83	na	3.851	288.7	17.03	12.92
111	2007	42	1930	28.13	na	5.205	291	19.9	12.88
111	2007	42	1945	28.34	na	4.801	294.2	22.39	12.87
111	2007	42	2000	28.42	na	4.877	289.2	15.92	12.84
111	2007	42	2015	28.46	na	5.058	282.9	13.81	12.84
111	2007	42	2030	28.4	na	5.648	284.4	17.77	12.83
111	2007	42	2045	28.68	na	7.08	283.1	17.49	12.82
111	2007	42	2100	28.78	na	7.57	281.4	17.8	12.8
111	2007	42	2115	28.84	na	7.77	286.8	17.09	12.8
111	2007	42	2130	28.67	na	7.25	280.4	18.77	12.8
111	2007	42	2145	28.47	na	6.288	292.6	17.69	12.8
111	2007	42	2200	28.32	na	6.31	288.8	20.75	12.78
111	2007	42	2215	28.22	na	5.926	283.5	16.11	12.78
111	2007	42	2230	28.15	na	5.694	289.9	20.44	12.78
111	2007	42	2245	28.22	na	5.404	298.6	20.54	12.77
111	2007	42	2300	28	na	3.533	295.7	21.94	12.75
111	2007	42	2315	27.69	na	2.87	295.8	22.96	12.76
111	2007	42	2330	27.57	na	3.917	290.4	19.97	12.75
111	2007	42	2345	27.7	na	5.076	287.3	18.4	12.74
111	2007	42	2400	27.54	na	5.461	283.4	18.43	12.73
111	2007	43	15	27.55	na	4.861	296.6	19.97	12.74
111	2007	43	30	27.41	na	4.451	285.3	22.58	12.73
111	2007	43	45	27.16	na	4.99	279.7	15.93	12.72
111	2007	43	100	27.26	na	5.724	288.2	17.92	12.71
111	2007	43	115	27.25	na	5.257	288.1	17.33	12.72
111	2007	43	130	26.98	na	4.62	289.3	16.66	12.71
111	2007	43	145	26.9	na	5.141	288.6	21.5	12.7
111	2007	43	200	27.05	na	5.231	288.5	17.48	12.68
111	2007	43	215	27.35	na	6.111	290.3	20.9	12.7
111	2007	43	230	27.38	na	5.418	288.2	17.15	12.68
111	2007	43	245	27.24	na	5.592	287.5	17.16	12.68
111	2007	43	300	27.03	na	5.105	288.4	19.44	12.67
111	2007	43	315	26.78	na	4.02	290.3	23.04	12.67
111	2007	43	330	26.71	na	3.817	287.8	25.03	12.66
111	2007	43	345	26.69	na	3.776	283.8	17.38	12.65
111	2007	43	400	26.25	na	2.655	283.1	21.17	12.63
111	2007	43	415	26.27	na	3.513	293.6	23.48	12.64
111	2007	43	430	26.29	na	3.316	287.6	20.4	12.64
111	2007	43	445	25.99	na	3.267	269.9	19.03	12.63
111	2007	43	500	25.51	na	1.919	276.5	15.83	12.61
111	2007	43	515	25.35	na	2.297	285.6	18.02	12.61
111	2007	43	530	25.67	na	3.732	289.2	14.44	12.61
111	2007	43	545	26.09	na	4.479	282.6	15.72	12.6
111	2007	43	600	26.19	na	5.414	286.3	15.32	12.58
111	2007	43	615	26.24	na	5.278	285	16.18	12.58
111	2007	43	630	26.25	na	5.338	288.4	14.74	12.58

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	43	645	26.41	na	5.199	289.6	17.98	12.58
111	2007	43	700	26.52	na	5.179	287.6	18.2	12.56
111	2007	43	715	26.52	na	5.368	287	17.2	12.56
111	2007	43	730	26.56	na	4.867	289.2	17.13	12.56
111	2007	43	745	26.63	na	4.406	297.3	18.5	12.56
111	2007	43	800	26.56	na	3.143	300.6	23.8	12.54
111	2007	43	815	26.5	na	2.708	298.5	25.86	12.55
111	2007	43	830	26.58	na	2.106	300.6	29.97	12.55
111	2007	43	845	26.9	na	3.857	288.4	15.22	12.58
111	2007	43	900	27.2	na	2.921	297.4	24.51	12.69
111	2007	43	915	27.55	na	2.983	309.1	23.18	13.1
111	2007	43	930	28.14	na	3.229	301.6	22.15	14.03
111	2007	43	945	29.23	na	3.803	311.1	25.16	14
111	2007	43	1000	30.58	na	5.386	317	25.06	13.97
111	2007	43	1015	31.15	na	6.378	321	38.21	13.96
111	2007	43	1030	31.57	na	7.29	322	32.65	13.95
111	2007	43	1045	31.65	na	7.79	316.5	32.87	13.94
111	2007	43	1100	31.58	na	7.12	315.8	33.86	13.94
111	2007	43	1115	31.56	na	5.928	327.4	35.33	13.94
111	2007	43	1130	31.91	na	6.368	325.2	35.16	13.94
111	2007	43	1145	32.3	na	6.199	314.8	29.17	13.92
111	2007	43	1200	32.73	na	5.626	325.5	45.95	13.91
111	2007	43	1215	32.98	na	5.394	330.9	32.95	13.9
111	2007	43	1230	33.02	na	5.728	308.8	30.11	13.9
111	2007	43	1245	32.94	na	6.491	314.4	27.7	13.89
111	2007	43	1300	33.05	na	7.2	312.3	25.39	13.89
111	2007	43	1315	33.55	na	6.201	309.9	26.28	13.89
111	2007	43	1330	33.91	na	6.574	308.9	23.8	13.88
111	2007	43	1345	34.43	na	6.994	313	36.9	13.87
111	2007	43	1400	34.84	na	7.47	305.3	26.01	13.85
111	2007	43	1415	35.66	na	6.497	317.5	35.04	13.84
111	2007	43	1430	35.94	na	7.09	310	35.46	13.84
111	2007	43	1445	36.39	na	6.097	331.6	37.63	13.85
111	2007	43	1500	36.51	na	6.964	330.6	38.78	13.83
111	2007	43	1515	36.81	na	6.006	329.4	35.92	13.83
111	2007	43	1530	37.33	na	7.51	301.2	37.21	13.81
111	2007	43	1545	37.66	na	6.38	298.6	30.77	13.81
111	2007	43	1600	37.88	na	7.07	300.2	31.74	13.81
111	2007	43	1615	37.69	na	5.871	332.2	38.61	13.81
111	2007	43	1630	38.34	na	6.535	295.7	23.4	13.81
111	2007	43	1645	38.93	na	5.543	304.6	37.85	13.81
111	2007	43	1700	38.98	na	5.165	334.7	38.61	13.81
111	2007	43	1715	38.72	na	5.767	328.5	35.99	13.81
111	2007	43	1730	38.62	na	5.096	322.1	36.78	13.83
111	2007	43	1745	38.67	na	4.531	309.6	30.81	13.83
111	2007	43	1800	38.55	na	3.941	323.3	30.97	13.83
111	2007	43	1815	38.15	na	4.831	341.2	37.06	13.1
111	2007	43	1830	37.68	na	5.153	336.6	33.3	13.03
111	2007	43	1845	37.36	na	3.567	8.14	32.48	12.99
111	2007	43	1900	36.98	na	3.084	8.09	26.8	12.94
111	2007	43	1915	36.75	na	2.655	344.7	30.14	12.93
111	2007	43	1930	36.65	na	3.646	351.7	33.51	12.91
111	2007	43	1945	36.37	na	3.207	357	31.19	12.89
111	2007	43	2000	36.07	na	3.924	6.741	29.02	12.87
111	2007	43	2015	35.71	na	3.776	10.56	25.92	12.87
111	2007	43	2030	35.36	na	3.472	9.35	28.25	12.86
111	2007	43	2045	35.1	na	3.599	6.247	24.75	12.85
111	2007	43	2100	34.9	na	3.376	349.4	32.08	12.83
111	2007	43	2115	34.67	na	3.545	6.46	25.81	12.84
111	2007	43	2130	34.44	na	3.456	0.068	24.21	12.82

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	43	2145	34.24	na	3.247	347	31.71	12.82
111	2007	43	2200	34.04	na	3.048	350.5	32.68	12.8
111	2007	43	2215	33.84	na	2.794	345.1	38.73	12.8
111	2007	43	2230	33.51	na	2.82	0.129	29.39	12.8
111	2007	43	2245	33.09	na	2.201	1.947	28.85	12.8
111	2007	43	2300	32.32	na	0.373	10.08	16.22	12.78
111	2007	43	2315	32.04	na	1.602	17.78	23.51	12.78
111	2007	43	2330	31.82	na	2.378	9.64	21.48	12.77
111	2007	43	2345	31.29	na	2.102	31.32	22.49	12.77
111	2007	43	2400	31.01	na	3.426	39.4	16.05	12.75
111	2007	44	15	31.25	na	4.473	29.6	20.62	12.75
111	2007	44	30	31.43	na	5.201	28.17	20.8	12.75
111	2007	44	45	31.3	na	4.698	24.02	24.28	12.74
111	2007	44	100	30.87	na	3.986	22.77	17.44	12.72
111	2007	44	115	30.47	na	3.581	14.61	27.36	12.73
111	2007	44	130	30.27	na	3.127	25.81	23.34	12.73
111	2007	44	145	30.24	na	3.509	24.63	20.51	12.72
111	2007	44	200	30.3	na	4.221	21.07	18.14	12.7
111	2007	44	215	30.29	na	3.712	25.08	22.27	12.7
111	2007	44	230	30.18	na	6.121	46.36	16.71	12.71
111	2007	44	245	29.43	na	6.052	46.55	22.09	12.7
111	2007	44	300	28.95	na	6.211	47.28	18.6	12.69
111	2007	44	315	28.7	na	5.557	43.16	19.32	12.7
111	2007	44	330	28.47	na	6.159	42.63	18.73	12.69
111	2007	44	345	28.18	na	7.89	47.61	19.76	12.68
111	2007	44	400	27.81	na	8.48	47.17	17.7	12.67
111	2007	44	415	27.49	na	6.334	50.83	18.07	12.67
111	2007	44	430	26.86	na	7.79	55.16	19.3	12.66
111	2007	44	445	26.34	na	8.48	50.25	18.89	12.66
111	2007	44	500	26.01	na	8.5	49.64	17.69	12.64
111	2007	44	515	25.86	na	8.73	46.01	16.58	12.64
111	2007	44	530	25.41	na	10.08	60.33	18.52	12.64
111	2007	44	545	24.92	na	8.76	59.72	18.14	12.63
111	2007	44	600	24.61	na	8.96	53.89	15.72	12.61
111	2007	44	615	24.27	na	8.26	58.2	19	12.61
111	2007	44	630	23.93	na	8.78	49.81	18.82	12.6
111	2007	44	645	23.77	na	8.1	51.04	20.38	12.6
111	2007	44	700	23.51	na	8.58	55.93	17.78	12.57
111	2007	44	715	23.47	na	6.998	51.18	21.75	12.58
111	2007	44	730	23.26	na	7.32	65.75	18.98	12.58
111	2007	44	745	22.97	na	7.33	56.17	23.06	12.57
111	2007	44	800	22.73	na	6.932	59.56	16.54	12.54
111	2007	44	815	22.67	na	7.46	53.94	17.95	12.56
111	2007	44	830	22.39	na	7.7	57.41	19.37	12.55
111	2007	44	845	22.16	na	8.06	57.98	18.51	12.55
111	2007	44	900	22.01	na	7.69	50.13	23.32	12.53
111	2007	44	915	21.88	na	8.19	56.88	18.64	12.59
111	2007	44	930	21.74	na	8.28	66.97	21.17	12.71
111	2007	44	945	21.34	na	9.26	66.43	19.07	12.89
111	2007	44	1000	21.19	na	8.53	65.26	18.6	13.24
111	2007	44	1015	21.12	na	8.34	64.84	18.07	14.08
111	2007	44	1030	20.65	na	8.68	63.29	18.61	14.09
111	2007	44	1045	20.56	na	8.12	60.08	19.24	14.09
111	2007	44	1100	20.36	na	9.14	52.74	18.93	14.09
111	2007	44	1115	20.25	na	9.08	48.97	16.95	14.09
111	2007	44	1130	20.2	na	8.14	43.85	20.1	14.09
111	2007	44	1145	20.6	na	7.31	53.2	21.15	14.09
111	2007	44	1200	21.06	na	7.04	53.15	24.62	14.07
111	2007	44	1215	21.25	na	8.24	41.81	22.7	14.07
111	2007	44	1230	21.3	na	8.27	53.42	21.08	14.07

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	44	1245	21.85	na	6.932	43.54	22.03	14.05
111	2007	44	1300	22.26	na	6.437	58.24	21.85	14.04
111	2007	44	1315	22.21	na	6.716	51.36	20.67	14.05
111	2007	44	1330	22.27	na	6.875	68.65	22.21	14.05
111	2007	44	1345	22.75	na	6.549	68.19	25.08	14.04
111	2007	44	1400	23.5	na	6.847	42.28	22.03	14.02
111	2007	44	1415	23.24	na	6.628	40.82	21.92	14.03
111	2007	44	1430	23.78	na	5.535	42.52	29.24	14.02
111	2007	44	1445	24.16	na	6.342	56.99	25.57	14.02
111	2007	44	1500	23.92	na	5.652	69.52	25.96	14.02
111	2007	44	1515	24.11	na	5.183	71.7	23.94	14.02
111	2007	44	1530	24.11	na	5.583	59.13	26.49	14.02
111	2007	44	1545	24.28	na	4.726	49.43	22.3	14.02
111	2007	44	1600	24.42	na	5.28	45.14	22.4	14.02
111	2007	44	1615	24.15	na	4.99	75.3	25.26	14.03
111	2007	44	1630	24.14	na	4.845	73	27.87	13.64
111	2007	44	1645	24.16	na	4.851	49.61	27.58	13.19
111	2007	44	1700	23.97	na	5.368	50.45	21.66	13.12
111	2007	44	1715	23.99	na	4.388	61.19	21.17	13.04
111	2007	44	1730	23.86	na	5.209	76.4	19.63	12.98
111	2007	44	1745	23.72	na	4.569	76	23.1	12.93
111	2007	44	1800	23.71	na	5.006	78.6	21.28	12.9
111	2007	44	1815	23.62	na	4.432	88	20.79	12.88
111	2007	44	1830	23.47	na	4.71	90.7	21.27	12.86
111	2007	44	1845	23.47	na	5.205	88.9	20.59	12.84
111	2007	44	1900	23.47	na	5.239	83.7	19.26	12.82
111	2007	44	1915	23.41	na	6.392	80.7	14.43	12.82
111	2007	44	1930	23.31	na	5.851	87	17.16	12.81
111	2007	44	1945	23.36	na	5.533	84.2	17.38	12.8
111	2007	44	2000	23.42	na	5.962	88.4	19.81	12.78
111	2007	44	2015	23.61	na	5.286	85.5	17	12.78
111	2007	44	2030	23.8	na	6.566	85	18.99	12.78
111	2007	44	2045	23.94	na	6.801	85.3	16.08	12.77
111	2007	44	2100	24.09	na	4.889	84.7	20.08	12.74
111	2007	44	2115	24.1	na	5.545	98.4	17.09	12.76
111	2007	44	2130	23.96	na	5.714	93.1	14.73	12.74
111	2007	44	2145	23.75	na	6.298	101.8	17.84	12.74
111	2007	44	2200	23.41	na	6.076	89.6	22.26	12.72
111	2007	44	2215	23.32	na	6.898	95.8	20.89	12.72
111	2007	44	2230	23.38	na	6.541	98.2	22.28	12.72
111	2007	44	2245	23.18	na	7.52	104.6	18.32	12.71
111	2007	44	2300	23.09	na	8.6	107.7	18.45	12.68
111	2007	44	2315	23.05	na	8.67	101.3	16.3	12.69
111	2007	44	2330	23.07	na	8.01	98.8	17.41	12.68
111	2007	44	2345	23.22	na	7.75	91.7	17.94	12.67
111	2007	44	2400	23.38	na	7.81	93.6	19.03	12.65
111	2007	45	15	23.43	na	7.26	88.5	18.75	12.65
111	2007	45	30	23.24	na	8.56	90.8	14.38	12.64
111	2007	45	45	23.05	na	8.3	94.4	19.43	12.63
111	2007	45	100	22.92	na	9.17	96.6	17.95	12.61
111	2007	45	115	22.99	na	7.91	91.5	17.29	12.61
111	2007	45	130	22.98	na	8.44	94.4	18.03	12.61
111	2007	45	145	22.93	na	9.05	98.8	17.44	12.59
111	2007	45	200	22.89	na	8.36	92.3	17.09	12.57
111	2007	45	215	22.93	na	9.21	92.6	17.37	12.58
111	2007	45	230	22.97	na	9.59	91.1	16.7	12.57
111	2007	45	245	23.04	na	8.64	93.6	20.37	12.57
111	2007	45	300	23.04	na	7.86	92.5	15.81	12.54
111	2007	45	315	23.11	na	9.14	92.5	17.26	12.55
111	2007	45	330	23.11	na	10.06	90.9	18.97	12.55

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	45	345	23.26	na	9.95	87.2	20.06	12.55
111	2007	45	400	23.28	na	10.44	90	19.87	12.53
111	2007	45	415	23.2	na	11.23	90.5	18.1	12.54
111	2007	45	430	23.14	na	10.56	92.6	20.24	12.53
111	2007	45	445	23.15	na	9.76	92.6	17.53	12.53
111	2007	45	500	23.29	na	10	89.3	18.95	12.52
111	2007	45	515	23.41	na	8.75	92.4	20.07	12.53
111	2007	45	530	23.58	na	10.31	93.3	16.46	12.53
111	2007	45	545	23.76	na	9.95	87.2	19.24	12.53
111	2007	45	600	24.01	na	8.94	87.4	17.43	12.51
111	2007	45	615	24.2	na	8.37	80.6	18.09	12.52
111	2007	45	630	24.34	na	7.63	78.9	18.36	12.52
111	2007	45	645	24.27	na	8.24	80.3	18.26	12.52
111	2007	45	700	24.38	na	9.91	81.3	17.46	12.51
111	2007	45	715	24.56	na	9.7	80.1	18.01	12.52
111	2007	45	730	25.09	na	9.19	82.3	17.39	12.52
111	2007	45	745	25.98	na	9.99	82.9	15.31	12.52
111	2007	45	800	26.65	na	9.86	83	18.31	12.52
111	2007	45	815	26.71	na	9.02	81.6	14.66	12.53
111	2007	45	830	27.01	na	2.17	73.4	8.72	12.53
111	2007	45	845	27.9	na	na	na	na	12.53
111	2007	45	900	29.12	na	na	na	na	12.53
111	2007	45	915	30.53	na	na	na	na	12.55
111	2007	45	930	31.09	na	na	na	na	12.55
111	2007	45	945	31.31	na	na	na	na	12.54
111	2007	45	1000	31.5	na	na	na	na	12.54
111	2007	45	1015	31.64	na	na	na	na	12.56
111	2007	45	1030	31.67	na	na	na	na	12.55
111	2007	45	1045	31.55	na	na	na	na	12.56
111	2007	45	1100	31.58	na	na	na	na	12.56
111	2007	45	1115	31.76	na	na	na	na	12.64
111	2007	45	1130	31.9	na	na	na	na	12.7
111	2007	45	1145	31.95	na	na	na	na	12.7
111	2007	45	1200	32.33	na	na	na	na	12.69
111	2007	45	1215	32.6	na	na	na	na	12.77
111	2007	45	1230	32.56	na	3.03	88.1	10.46	12.72
111	2007	45	1245	32.82	na	9.24	88.5	21.61	12.67
111	2007	45	1300	32.98	na	14.3	84.4	16.3	12.65
111	2007	45	1315	33.22	na	12.46	79.8	18.43	12.61
111	2007	45	1330	33.67	na	12.94	82	18.72	12.66
111	2007	45	1345	33.92	na	15.39	83.1	16.87	12.71
111	2007	45	1400	34.05	na	14.76	81.4	16.01	12.72
111	2007	45	1415	33.9	na	11.39	75	14.97	12.74
111	2007	45	1430	34.17	na	9.86	75.5	19.19	12.68
111	2007	45	1445	34.46	na	10.53	72.9	17.47	12.67
111	2007	45	1500	34.45	na	8.91	47.22	18.72	12.61
111	2007	45	1515	31.25	na	7.85	32.95	19.03	12.62
111	2007	45	1530	28.12	na	na	na	na	12.6
111	2007	45	1545	28.52	na	na	na	na	12.62
111	2007	45	1600	29.68	na	na	na	na	12.58
111	2007	45	1615	29.01	na	na	na	na	12.67
111	2007	45	1630	26.32	na	na	na	na	12.79
111	2007	45	1645	22.24	na	na	na	na	12.79
111	2007	45	1700	20.86	na	na	na	na	12.78
111	2007	45	1715	20.5	na	na	na	na	12.72
111	2007	45	1730	20.61	na	na	na	na	12.64
111	2007	45	1745	21.17	na	na	na	na	12.59
111	2007	45	1800	21.74	na	na	na	na	12.56
111	2007	45	1815	21.93	na	na	na	na	12.54
111	2007	45	1830	22.03	na	na	na	na	12.53

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	45	1845	22.35	na	na	na	na	12.52
111	2007	45	1900	22.89	na	na	na	na	12.51
111	2007	45	1915	23.21	na	na	na	na	12.51
111	2007	45	1930	23.42	na	na	na	na	12.51
111	2007	45	1945	23.81	na	na	na	na	12.51
111	2007	45	2000	23.57	na	na	na	na	12.49
111	2007	45	2015	23.23	na	na	na	na	12.5
111	2007	45	2030	23.01	na	na	na	na	12.5
111	2007	45	2045	22.87	na	na	na	na	12.49
111	2007	45	2100	22.99	na	na	na	na	12.48
111	2007	45	2115	22.94	na	na	na	na	12.49
111	2007	45	2130	22.66	na	na	na	na	12.49
111	2007	45	2145	22.62	na	na	na	na	12.49
111	2007	45	2200	22.77	na	na	na	na	12.47
111	2007	45	2215	22.81	na	na	na	na	12.49
111	2007	45	2230	21.9	na	na	na	na	12.49
111	2007	45	2245	20.6	na	na	na	na	12.49
111	2007	45	2300	19.28	na	na	na	na	12.47
111	2007	45	2315	18.3	na	na	na	na	12.48
111	2007	45	2330	17.67	na	na	na	na	12.48
111	2007	45	2345	16.78	na	na	na	na	12.48
111	2007	45	2400	16.29	na	na	na	na	12.46
111	2007	46	15	16.13	na	na	na	na	12.47
111	2007	46	30	16.04	na	na	na	na	12.47
111	2007	46	45	15.83	na	na	na	na	12.46
111	2007	46	100	15.65	na	na	na	na	12.45
111	2007	46	115	15.49	na	na	na	na	12.45
111	2007	46	130	15.38	na	na	na	na	12.45
111	2007	46	145	15.14	na	na	na	na	12.44
111	2007	46	200	15.28	na	na	na	na	12.42
111	2007	46	215	15.32	na	na	na	na	12.44
111	2007	46	230	15.3	na	na	na	na	12.44
111	2007	46	245	15.44	na	na	na	na	12.44
111	2007	46	300	15.38	na	na	na	na	12.42
111	2007	46	315	15.35	na	na	na	na	12.44
111	2007	46	330	15.31	na	na	na	na	12.43
111	2007	46	345	15.43	na	na	na	na	12.42
111	2007	46	400	15.46	na	na	na	na	12.42
111	2007	46	415	15.55	na	na	na	na	12.42
111	2007	46	430	15.72	na	na	na	na	12.42
111	2007	46	445	15.99	na	na	na	na	12.42
111	2007	46	500	16.05	na	na	na	na	12.41
111	2007	46	515	15.79	na	na	na	na	12.42
111	2007	46	530	15.86	na	na	na	na	12.42
111	2007	46	545	15.96	na	na	na	na	12.42
111	2007	46	600	16.06	na	na	na	na	12.4
111	2007	46	615	16.1	na	na	na	na	12.42
111	2007	46	630	16.16	na	na	na	na	12.42
111	2007	46	645	16.29	na	na	na	na	12.42
111	2007	46	700	16.23	na	na	na	na	12.4
111	2007	46	715	16.15	na	na	na	na	12.41
111	2007	46	730	15.81	na	na	na	na	12.42
111	2007	46	745	15.45	na	na	na	na	12.42
111	2007	46	800	15.11	na	na	na	na	12.4
111	2007	46	815	15.2	na	na	na	na	12.42
111	2007	46	830	15.24	na	na	na	na	12.64
111	2007	46	845	15.46	na	na	na	na	14.1
111	2007	46	900	15.25	na	na	na	na	14.19
111	2007	46	915	15.37	na	na	na	na	14.19
111	2007	46	930	15.26	na	na	na	na	14.18

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	46	945	15.59	na	na	na	na	14.18
111	2007	46	1000	15.99	na	na	na	na	14.16
111	2007	46	1015	16.19	na	na	na	na	14.15
111	2007	46	1030	16.08	na	na	na	na	14.15
111	2007	46	1045	16.03	na	na	na	na	14.15
111	2007	46	1100	16.53	na	na	na	na	14.13
111	2007	46	1115	16.42	na	na	na	na	14.13
111	2007	46	1130	16.69	na	na	na	na	14.13
111	2007	46	1145	16.98	na	na	na	na	14.13
111	2007	46	1200	16.8	na	na	na	na	14.12
111	2007	46	1215	17.55	na	na	na	na	14.12
111	2007	46	1230	17.97	na	na	na	na	14.11
111	2007	46	1245	17.73	na	na	na	na	14.12
111	2007	46	1300	18.56	na	na	na	na	14.11
111	2007	46	1315	18.72	na	na	na	na	14.12
111	2007	46	1330	19	na	na	na	na	14.13
111	2007	46	1345	19.52	na	na	na	na	14.13
111	2007	46	1400	19.51	na	na	na	na	14.13
111	2007	46	1415	19.78	na	na	na	na	14.13
111	2007	46	1430	20.58	na	na	na	na	14.12
111	2007	46	1445	21.14	na	na	na	na	14.11
111	2007	46	1500	20.93	na	na	na	na	14.1
111	2007	46	1515	21.19	na	na	na	na	14.09
111	2007	46	1530	21.38	na	na	na	na	14.08
111	2007	46	1545	21.65	na	na	na	na	14.08
111	2007	46	1600	22.08	na	na	na	na	14.06
111	2007	46	1615	22.12	na	na	na	na	14.06
111	2007	46	1630	22.31	na	na	na	na	14.06
111	2007	46	1645	21.8	na	na	na	na	14.06
111	2007	46	1700	21.98	na	na	na	na	14.06
111	2007	46	1715	22.03	na	na	na	na	14.06
111	2007	46	1730	21.18	na	na	na	na	14.07
111	2007	46	1745	20.92	na	na	na	na	14.08
111	2007	46	1800	20.7	na	na	na	na	14.09
111	2007	46	1815	20.43	na	na	na	na	13.37
111	2007	46	1830	20.05	na	na	na	na	13.2
111	2007	46	1845	19.69	na	na	na	na	13.09
111	2007	46	1900	19.47	na	na	na	na	13.01
111	2007	46	1915	19.3	na	na	na	na	12.97
111	2007	46	1930	18.96	na	na	na	na	12.93
111	2007	46	1945	18.91	na	na	na	na	12.9
111	2007	46	2000	18.79	na	na	na	na	12.87
111	2007	46	2015	18.53	na	na	na	na	12.86
111	2007	46	2030	18.18	na	na	na	na	12.85
111	2007	46	2045	18	na	na	na	na	12.83
111	2007	46	2100	17.71	na	na	na	na	12.81
111	2007	46	2115	17.52	na	na	na	na	12.81
111	2007	46	2130	17.42	na	na	na	na	12.81
111	2007	46	2145	17.3	na	na	na	na	12.79
111	2007	46	2200	17.37	na	na	na	na	12.77
111	2007	46	2215	17.38	na	na	na	na	12.78
111	2007	46	2230	17.3	na	na	na	na	12.77
111	2007	46	2245	17.18	na	na	na	na	12.77
111	2007	46	2300	17.09	na	na	na	na	12.74
111	2007	46	2315	16.89	na	na	na	na	12.75
111	2007	46	2330	16.86	na	na	na	na	12.75
111	2007	46	2345	16.84	na	na	na	na	12.75
111	2007	46	2400	17.01	na	na	na	na	12.78
111	2007	47	15	16.95	na	na	na	na	12.82
111	2007	47	30	16.83	na	na	na	na	12.83

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	47	45	16.7	na	na	na	na	12.82
111	2007	47	100	16.49	na	na	na	na	12.82
111	2007	47	115	16.35	na	na	na	na	12.84
111	2007	47	130	16.11	na	na	na	na	12.84
111	2007	47	145	15.94	na	na	na	na	12.84
111	2007	47	200	15.73	na	na	na	na	12.82
111	2007	47	215	15.63	na	na	na	na	12.83
111	2007	47	230	15.49	na	na	na	na	12.83
111	2007	47	245	15.4	na	na	na	na	12.82
111	2007	47	300	15.4	na	na	na	na	12.81
111	2007	47	315	15.23	na	na	na	na	12.82
111	2007	47	330	15.09	na	na	na	na	12.82
111	2007	47	345	14.91	na	na	na	na	12.82
111	2007	47	400	14.83	na	na	na	na	12.8
111	2007	47	415	14.72	na	na	na	na	12.81
111	2007	47	430	14.67	na	na	na	na	12.81
111	2007	47	445	14.64	na	na	na	na	12.81
111	2007	47	500	14.59	na	na	na	na	12.79
111	2007	47	515	14.52	na	na	na	na	12.8
111	2007	47	530	14.44	na	na	na	na	12.8
111	2007	47	545	14.37	na	na	na	na	12.8
111	2007	47	600	14.31	na	na	na	na	12.78
111	2007	47	615	14.31	na	na	na	na	12.8
111	2007	47	630	14.17	na	na	na	na	12.8
111	2007	47	645	14.09	na	na	na	na	12.8
111	2007	47	700	14.08	na	na	na	na	12.77
111	2007	47	715	14.14	na	na	na	na	12.78
111	2007	47	730	14.1	na	na	na	na	12.79
111	2007	47	745	14.11	na	na	na	na	12.79
111	2007	47	800	14.28	na	na	na	na	12.76
111	2007	47	815	14.73	na	na	na	na	12.78
111	2007	47	830	15.16	na	na	na	na	13.01
111	2007	47	845	15.76	na	na	na	na	14.23
111	2007	47	900	16.22	na	na	na	na	14.21
111	2007	47	915	16.63	na	na	na	na	14.19
111	2007	47	930	17.29	na	na	na	na	14.18
111	2007	47	945	17.68	na	na	na	na	14.16
111	2007	47	1000	17.87	na	na	na	na	14.16
111	2007	47	1015	18.47	na	na	na	na	14.14
111	2007	47	1030	18.89	na	na	na	na	14.13
111	2007	47	1045	19.29	na	na	na	na	14.13
111	2007	47	1100	19.74	na	na	na	na	14.11
111	2007	47	1115	20.52	na	na	na	na	14.1
111	2007	47	1130	20.95	na	na	na	na	14.09
111	2007	47	1145	21.46	na	na	na	na	14.08
111	2007	47	1200	22.01	na	na	na	na	14.07
111	2007	47	1215	22.48	na	na	na	na	14.07
111	2007	47	1230	22.69	na	na	na	na	14.06
111	2007	47	1245	23.08	na	na	na	na	14.06
111	2007	47	1300	23.3	na	na	na	na	14.05
111	2007	47	1315	23.78	na	na	na	na	14.06
111	2007	47	1330	24.62	na	na	na	na	14.06
111	2007	47	1345	24.82	na	na	na	na	14.06
111	2007	47	1400	24.99	na	9.88	307.8	29.39	14.05
111	2007	47	1415	25.49	na	9.16	318.2	36.53	14.05
111	2007	47	1430	25.98	na	8.54	316.7	29.36	14.04
111	2007	47	1445	26.27	na	8.28	320.3	31.05	14.03
111	2007	47	1500	26.98	na	8.15	312.3	30.95	14.02
111	2007	47	1515	27.24	na	8.44	318.9	34.79	14.01
111	2007	47	1530	26.93	na	8.34	320.6	34.97	14.02

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	47	1545	27.22	na	8.7	333.1	34.93	14
111	2007	47	1600	27.4	na	8.75	330.5	30.87	14
111	2007	47	1615	27.26	na	8.4	330.9	34.29	14
111	2007	47	1630	27.42	na	9.26	314.5	28.56	14
111	2007	47	1645	27.54	na	9.31	317.8	28.72	14
111	2007	47	1700	27.33	na	8.27	343.1	34.4	13.99
111	2007	47	1715	27.35	na	7.18	333.6	42.57	14
111	2007	47	1730	27.24	na	7.22	326	32.75	14
111	2007	47	1745	27.19	na	6.491	317.6	34.75	14.01
111	2007	47	1800	26.89	na	9.03	323	36.67	14.01
111	2007	47	1815	26.59	na	8.18	321.7	29.8	13.36
111	2007	47	1830	26.29	na	4.446	319.9	31.43	13.2
111	2007	47	1845	26.11	na	6.443	323.5	26.53	13.14
111	2007	47	1900	26.04	na	6.244	320.9	27.17	13.08
111	2007	47	1915	25.8	na	1.893	314.1	31.92	13.08
111	2007	47	1930	25.28	na	5.634	296.9	21.1	13.06
111	2007	47	1945	24.82	na	4.124	301.3	23.21	13.04
111	2007	47	2000	24.68	na	1.671	298.9	22.72	13.01
111	2007	47	2015	24.57	na	1.2	296.9	22.44	13.01
111	2007	47	2030	24.28	na	1.656	294.2	26.31	12.99
111	2007	47	2045	24.21	na	2.591	299.8	22.14	12.99
111	2007	47	2100	24.08	na	1.307	298.1	23.79	12.97
111	2007	47	2115	24.04	na	1.231	295	19.9	12.97
111	2007	47	2130	23.89	na	1.148	289.9	18.1	12.97
111	2007	47	2145	24	na	2.674	298.2	26.41	12.96
111	2007	47	2200	24	na	5.112	293.5	20.43	12.94
111	2007	47	2215	23.63	na	1.154	289.1	21.82	12.95
111	2007	47	2230	23.44	na	1.081	285.8	18.09	12.94
111	2007	47	2245	23.4	na	4.951	298.9	28.81	12.93
111	2007	47	2300	23.54	na	3.608	306	25.15	12.91
111	2007	47	2315	23.44	na	5.167	307.1	29.88	12.93
111	2007	47	2330	23.42	na	5.596	311.7	28.6	12.92
111	2007	47	2345	23.11	na	1.255	305.5	24.93	12.92
111	2007	47	2400	23.02	na	4.135	309	28.01	12.9
111	2007	48	15	22.98	na	4.774	306.9	27.33	12.91
111	2007	48	30	22.82	na	3.506	304.3	22.88	12.9
111	2007	48	45	22.61	na	1.622	301.6	21.5	12.9
111	2007	48	100	22.52	na	1.314	302	25.47	12.87
111	2007	48	115	22.39	na	1.251	299.9	18.51	12.89
111	2007	48	130	22.25	na	1.351	297.2	24.08	12.89
111	2007	48	145	22.06	na	1.183	295.1	21.43	12.89
111	2007	48	200	21.95	na	1.149	297.9	22.73	12.87
111	2007	48	215	21.85	na	1.082	303.6	21.12	12.88
111	2007	48	230	21.68	na	2.265	302.9	25.83	12.87
111	2007	48	245	21.69	na	1.869	306.2	24.95	12.87
111	2007	48	300	21.64	na	5.082	297.6	24.65	12.86
111	2007	48	315	21.46	na	5.179	295	22.17	12.86
111	2007	48	330	21.04	na	5.483	293.2	18.44	12.87
111	2007	48	345	20.7	na	4.332	299.3	23.5	12.87
111	2007	48	400	20.47	na	2.285	303.9	24.93	12.84
111	2007	48	415	20.29	na	1.146	300.1	22.24	12.85
111	2007	48	430	20.14	na	1.019	302.7	23.05	12.85
111	2007	48	445	19.91	na	1.126	304.7	23.3	12.85
111	2007	48	500	19.95	na	1.434	307	23.28	12.83
111	2007	48	515	19.86	na	2.45	297.8	21.95	12.85
111	2007	48	530	19.61	na	1.529	292.5	24.4	12.85
111	2007	48	545	19.46	na	1.923	289	19.64	12.84
111	2007	48	600	19.17	na	1.129	291.5	19.45	12.83
111	2007	48	615	19	na	1.152	294.6	18.82	12.83
111	2007	48	630	18.98	na	1.061	293.7	17.43	12.83

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	48	645	18.94	na	1.124	295.4	22.6	12.83
111	2007	48	700	19.19	na	1.141	301.1	22.56	12.82
111	2007	48	715	19.28	na	0.988	309	26.37	12.83
111	2007	48	730	19.02	na	0.964	303.9	18.86	12.83
111	2007	48	745	18.66	na	1.046	296.6	18.06	12.82
111	2007	48	800	18.34	na	1.137	288	15.92	12.8
111	2007	48	815	18.66	na	1.126	293.3	21.78	12.82
111	2007	48	830	19.45	na	4.789	288.8	15.98	13.3
111	2007	48	845	20.25	na	5.68	288.6	15.04	14.16
111	2007	48	900	21.02	na	5.068	291.3	19.94	14.16
111	2007	48	915	21.64	na	5.567	295.9	23.33	14.14
111	2007	48	930	22.25	na	5.015	300.8	23.82	14.13
111	2007	48	945	22.85	na	6.161	303.1	26.19	14.11
111	2007	48	1000	23.46	na	6.431	308.4	31.15	14.09
111	2007	48	1015	24.4	na	5.398	298.7	27.43	14.08
111	2007	48	1030	25.17	na	1.356	314.6	29.24	14.06
111	2007	48	1045	26.17	na	4.642	311.7	38.5	14.04
111	2007	48	1100	26.48	na	6.992	305.2	27.66	14.02
111	2007	48	1115	26.8	na	6.465	312.2	35.05	14.02
111	2007	48	1130	27.27	na	2.583	306.1	24.91	14
111	2007	48	1145	27.73	na	5.772	310.8	32.2	13.99
111	2007	48	1200	28.35	na	3.263	307.1	29.88	13.97
111	2007	48	1215	29.11	na	4.147	286.2	24.67	13.97
111	2007	48	1230	29.33	na	6.59	288.5	23.26	13.96
111	2007	48	1245	29.57	na	6.28	288.2	21.7	13.96
111	2007	48	1300	29.63	na	7.87	286.9	24.48	13.96
111	2007	48	1315	30.16	na	7.3	287.2	23.51	13.97
111	2007	48	1330	30.83	na	2.83	277.2	31.72	13.97
111	2007	48	1345	31.45	na	6.777	269.5	24.36	13.97
111	2007	48	1400	31.59	na	6.906	289.1	26.11	13.96
111	2007	48	1415	32.31	na	7.04	279.5	27.17	13.96
111	2007	48	1430	32.45	na	6.616	267.8	25.16	13.94
111	2007	48	1445	32.69	na	7.62	278.5	20.68	13.94
111	2007	48	1500	32.74	na	8.28	258.3	21.56	13.93
111	2007	48	1515	32.67	na	9.2	260.5	20.77	13.92
111	2007	48	1530	32.99	na	8.98	273.5	19.76	13.91
111	2007	48	1545	33.9	na	7.44	267.5	23.04	13.91
111	2007	48	1600	33.52	na	10.27	276.4	21.27	13.89
111	2007	48	1615	33.5	na	9.2	267.3	20.02	13.9
111	2007	48	1630	33.3	na	8.52	264	23.06	13.9
111	2007	48	1645	33.23	na	8.86	269.3	17.8	13.91
111	2007	48	1700	33.28	na	7.95	281.9	22.32	13.9
111	2007	48	1715	33.74	na	7.16	271.1	21.33	13.91
111	2007	48	1730	32.78	na	5.268	247.6	19.65	13.93
111	2007	48	1745	32.21	na	1.751	256.2	19.23	13.95
111	2007	48	1800	32.57	na	6.316	270.8	18.23	13.19
111	2007	48	1815	32.71	na	6.278	266	19.21	13.14
111	2007	48	1830	32.55	na	5.338	253.3	23.29	13.1
111	2007	48	1845	32.21	na	4.058	254	21.56	13.08
111	2007	48	1900	32.12	na	3.947	259.1	20.48	13.04
111	2007	48	1915	32.38	na	4.776	260.3	16.58	13.04
111	2007	48	1930	32.51	na	4.599	264.4	18.53	13.03
111	2007	48	1945	32.62	na	5.145	270.4	16.41	13.02
111	2007	48	2000	32.57	na	4.328	270.7	18.44	12.98
111	2007	48	2015	32.6	na	4.869	272.1	14.26	13
111	2007	48	2030	32.63	na	4.76	275.8	16.72	12.99
111	2007	48	2045	32.79	na	4.716	268.6	18.64	12.98
111	2007	48	2100	33	na	4.559	277.4	15.06	12.96
111	2007	48	2115	33.04	na	1.674	281.4	17.39	12.96
111	2007	48	2130	33.11	na	0.935	275.7	14.15	12.96

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	48	2145	33.14	na	3.997	275.4	16.64	12.96
111	2007	48	2200	33.16	na	5.068	273.5	16.99	12.93
111	2007	48	2215	33.31	na	4.954	273.4	18.17	12.95
111	2007	48	2230	33.3	na	4.622	269.3	18.47	12.94
111	2007	48	2245	33.57	na	6.402	274.2	16.42	12.94
111	2007	48	2300	33.88	na	6.795	281.3	16.96	12.92
111	2007	48	2315	33.9	na	6.27	285	16.42	12.94
111	2007	48	2330	33.44	na	8.11	283.6	22.52	12.93
111	2007	48	2345	33.18	na	5.996	285.9	18.03	12.93
111	2007	48	2400	33	na	2.733	284.7	21.33	12.91
111	2007	49	15	32.81	na	6.419	278	19.54	12.92
111	2007	49	30	32.49	na	6.03	287.2	24	12.92
111	2007	49	45	31.99	na	2.642	290.5	19.24	12.92
111	2007	49	100	31.68	na	1.44	303.5	32.47	12.9
111	2007	49	115	31.33	na	0.876	316.4	25.5	12.91
111	2007	49	130	30.82	na	0.563	345.8	27.98	12.91
111	2007	49	145	30.69	na	0.771	335.7	26.93	12.9
111	2007	49	200	30.74	na	0.519	324.3	20.64	12.88
111	2007	49	215	30.93	na	0.568	315.5	22.73	12.9
111	2007	49	230	30.68	na	0.219	311.5	8.46	12.9
111	2007	49	245	30.04	na	na	na	na	12.89
111	2007	49	300	29.46	na	0.018	19.2	0.417	12.88
111	2007	49	315	29	na	na	na	na	12.88
111	2007	49	330	28.93	na	na	na	na	12.88
111	2007	49	345	28.89	na	na	na	na	12.88
111	2007	49	400	28.74	na	0.009	42.86	0	12.86
111	2007	49	415	28.57	na	na	na	na	12.87
111	2007	49	430	28.25	na	na	na	na	12.86
111	2007	49	445	27.7	na	na	na	na	12.86
111	2007	49	500	27.2	na	0.018	286.9	0.461	12.84
111	2007	49	515	26.77	na	na	na	na	12.85
111	2007	49	530	26.17	na	0.054	289	1.281	12.85
111	2007	49	545	25.73	na	0.018	274.7	1.961	12.84
111	2007	49	600	25.27	na	na	na	na	12.83
111	2007	49	615	25.34	na	na	na	na	12.84
111	2007	49	630	25.75	na	na	na	na	12.84
111	2007	49	645	26.08	na	0.027	303.8	0.643	12.84
111	2007	49	700	26.67	na	0.099	295.6	3.584	12.82
111	2007	49	715	26.6	na	0.072	293.2	6.078	12.83
111	2007	49	730	26.06	na	0.027	286.2	1.641	12.83
111	2007	49	745	25.92	na	0.419	294.6	8.73	12.83
111	2007	49	800	26.49	na	0.291	288.9	6.265	12.81
111	2007	49	815	26.87	na	0.304	284.6	6.365	12.82
111	2007	49	830	27.08	na	0.151	288.5	7.37	12.83
111	2007	49	845	27.56	na	0.666	294.8	16.83	12.86
111	2007	49	900	28.13	na	0.891	301	20.02	13.04
111	2007	49	915	28.47	na	0.666	313.2	15.03	13.94
111	2007	49	930	29.16	na	0.826	316.4	29.68	14.04
111	2007	49	945	30.31	na	2.35	315.2	31.55	14
111	2007	49	1000	30.35	na	6.364	324	32.67	13.98
111	2007	49	1015	30.02	na	4.148	321.7	29.63	13.99
111	2007	49	1030	30.78	na	5.785	310.8	31.47	13.97
111	2007	49	1045	30.86	na	6.63	316.7	31.97	13.96
111	2007	49	1100	31.44	na	4.3	332.3	29.9	13.94
111	2007	49	1115	31.77	na	5.903	350.4	36.07	13.94
111	2007	49	1130	32.05	na	3.793	332.1	36.28	13.92
111	2007	49	1145	31.7	na	6.425	327.6	37.82	13.92
111	2007	49	1200	31.9	na	2.963	348.8	33.29	13.91
111	2007	49	1215	30.99	na	6.976	323.7	29.4	13.93
111	2007	49	1230	31.29	na	7.39	323.3	31.94	13.93

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	49	1245	31.04	na	4.754	333.4	31.61	13.93
111	2007	49	1300	31.09	na	7.15	357	32.91	13.92
111	2007	49	1315	31.27	na	6.529	351	38	13.94
111	2007	49	1330	31.94	na	5.731	358.1	43.38	13.94
111	2007	49	1345	31.22	na	8.01	344.8	31.75	13.94
111	2007	49	1400	31.87	na	7.22	340.7	34.56	13.93
111	2007	49	1415	31.84	na	7.56	352.2	41.8	13.94
111	2007	49	1430	32.17	na	8.7	348.5	38.3	13.93
111	2007	49	1445	31.76	na	8.83	4.19	30.36	13.92
111	2007	49	1500	31.7	na	6.336	1.539	41.41	13.92
111	2007	49	1515	31.82	na	8.11	344.2	36.41	13.92
111	2007	49	1530	31.88	na	6.842	342.9	38.45	13.92
111	2007	49	1545	32.24	na	7.74	355.8	35.03	13.92
111	2007	49	1600	31.04	na	8.47	356.7	35.14	13.92
111	2007	49	1615	31.54	na	8.36	341.2	34.68	13.92
111	2007	49	1630	31.6	na	7.56	328	30.87	13.93
111	2007	49	1645	30.12	na	6.336	329	34.94	13.95
111	2007	49	1700	29.68	na	7.77	351.2	31.35	13.96
111	2007	49	1715	29.54	na	6.865	323.2	29.9	13.98
111	2007	49	1730	30.39	na	7.14	339.4	32.99	13.97
111	2007	49	1745	30.24	na	7.2	340.5	36.41	13.97
111	2007	49	1800	29.97	na	5.686	327.1	30.84	13.18
111	2007	49	1815	29.4	na	5.967	335.5	35.71	13.21
111	2007	49	1830	28.7	na	8.05	347.6	34.59	13.12
111	2007	49	1845	28.28	na	7.39	350.8	35.73	13.09
111	2007	49	1900	27.99	na	3.614	336.5	33.71	13.04
111	2007	49	1915	27.73	na	2.028	338.4	30.22	13.04
111	2007	49	1930	27.6	na	4.018	357	32.05	13.03
111	2007	49	1945	26.75	na	5.565	10.89	30.37	13.01
111	2007	49	2000	26.26	na	1.905	9.55	26.1	12.98
111	2007	49	2015	26.45	na	7.82	12.77	24.19	12.98
111	2007	49	2030	26.3	na	6.745	13.71	24.97	12.97
111	2007	49	2045	26.08	na	3.288	346.8	31	12.96
111	2007	49	2100	25.7	na	6.932	349.1	30.08	12.94
111	2007	49	2115	25.37	na	7.42	359.9	28.9	12.94
111	2007	49	2130	25.07	na	7.65	5.951	23.32	12.93
111	2007	49	2145	24.75	na	6.964	358.9	31.74	12.92
111	2007	49	2200	24.36	na	9.25	357	29.28	12.91
111	2007	49	2215	23.86	na	7.17	358.6	32.24	12.91
111	2007	49	2230	23.49	na	9	9.21	29.66	12.91
111	2007	49	2245	23.1	na	7.58	353.1	30.71	12.89
111	2007	49	2300	22.61	na	8.11	0.342	26.53	12.88
111	2007	49	2315	22.11	na	3.711	353.7	27.83	12.89
111	2007	49	2330	21.7	na	5.961	341.9	35.62	12.88
111	2007	49	2345	21.08	na	6.552	343.9	33.6	12.87
111	2007	49	2400	20.54	na	6.521	337.4	32.29	12.85
111	2007	50	15	19.81	na	10.77	1.772	32.18	12.86
111	2007	50	30	19.1	na	9.16	347.8	31.02	12.85
111	2007	50	45	18.51	na	8.38	347.1	31.25	12.85
111	2007	50	100	17.97	na	8.3	341.4	26.16	12.83
111	2007	50	115	17.57	na	8.77	338.5	34.18	12.83
111	2007	50	130	17.26	na	7.79	352.7	33.68	12.83
111	2007	50	145	17.09	na	8.75	351.5	36.7	12.82
111	2007	50	200	16.88	na	7.08	343.8	33.56	12.8
111	2007	50	215	16.55	na	8.77	335.4	31.28	12.82
111	2007	50	230	15.97	na	8.9	334.4	34.19	12.81
111	2007	50	245	15.55	na	9.75	343.2	32.61	12.8
111	2007	50	300	15.14	na	8.81	330.8	25.02	12.78
111	2007	50	315	14.91	na	9.04	339.5	29.2	12.8
111	2007	50	330	14.74	na	9.72	331.4	28.05	12.78

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	50	345	14.4	na	8.03	345.9	30	12.78
111	2007	50	400	14.26	na	7.54	332.9	26.98	12.77
111	2007	50	415	14.03	na	9.18	344.3	30.96	12.78
111	2007	50	430	13.8	na	7.63	344.4	28.03	12.78
111	2007	50	445	13.62	na	7.5	341	31.87	12.76
111	2007	50	500	13.45	na	7.06	332.2	28.1	12.75
111	2007	50	515	13.34	na	7.6	338.1	31.68	12.76
111	2007	50	530	13.22	na	8.37	337.3	30.95	12.76
111	2007	50	545	13.05	na	5.791	334	32.49	12.76
111	2007	50	600	12.95	na	7.96	332.7	29.9	12.73
111	2007	50	615	12.86	na	8.94	332.4	29.38	12.75
111	2007	50	630	12.72	na	8.66	335.9	32.98	12.74
111	2007	50	645	12.53	na	9.51	345.7	31.45	12.74
111	2007	50	700	12.3	na	8.75	344.8	27.12	12.72
111	2007	50	715	12.24	na	8.25	350.8	28.21	12.74
111	2007	50	730	12.33	na	11.15	347.7	28.56	12.74
111	2007	50	745	11.95	na	9.51	356.7	31.36	12.74
111	2007	50	800	11.74	na	8.7	351.4	29.02	12.71
111	2007	50	815	11.71	na	8.88	349.3	36.21	12.75
111	2007	50	830	11.83	na	9.49	341.5	30.03	14.03
111	2007	50	845	11.99	na	10.11	352.8	27.76	14.27
111	2007	50	900	12.23	na	9.7	352.1	30.29	14.25
111	2007	50	915	12.49	na	8.91	354.4	35.61	14.25
111	2007	50	930	12.87	na	9.47	349.9	31.42	14.24
111	2007	50	945	13.05	na	10.3	349.8	32.88	14.24
111	2007	50	1000	13.41	na	9.82	345.9	32.74	14.22
111	2007	50	1015	14.02	na	9.11	335.7	29.26	14.22
111	2007	50	1030	13.81	na	10.22	340.8	32.74	14.21
111	2007	50	1045	14.52	na	9.28	350.9	29.82	14.2
111	2007	50	1100	14.57	na	11.32	359.7	28.86	14.18
111	2007	50	1115	15.22	na	9.35	349.3	29.97	14.17
111	2007	50	1130	15.51	na	11.5	355.1	29.87	14.17
111	2007	50	1145	16.16	na	10.03	353.1	34.74	14.16
111	2007	50	1200	17.01	na	9.73	353.4	37.14	14.15
111	2007	50	1215	17.47	na	9.12	345.2	34.2	14.15
111	2007	50	1230	18.41	na	7.45	343.9	36.15	14.13
111	2007	50	1245	18.7	na	8.44	347.5	35.6	14.13
111	2007	50	1300	19.3	na	8.71	357.8	29.05	14.12
111	2007	50	1315	19.61	na	9.08	337.9	36.51	14.13
111	2007	50	1330	20.09	na	7.18	340.6	36.97	14.13
111	2007	50	1345	20.5	na	8.72	341.2	33.6	14.13
111	2007	50	1400	20.82	na	9.79	345.9	28.9	14.13
111	2007	50	1415	21.33	na	8.93	342.6	38.07	14.13
111	2007	50	1430	21.54	na	9.2	342.9	33.32	14.11
111	2007	50	1445	22.56	na	7.74	332.1	31.7	14.11
111	2007	50	1500	22.61	na	9.1	339.3	37.08	14.08
111	2007	50	1515	23.08	na	8.33	318.4	31.89	14.07
111	2007	50	1530	22.77	na	9.49	322.7	32.29	14.07
111	2007	50	1545	22.99	na	8.45	317.9	27.71	14.06
111	2007	50	1600	23.88	na	6.94	327.2	34.83	14.04
111	2007	50	1615	24.18	na	7.09	317.3	30.77	14.05
111	2007	50	1630	23.93	na	7.62	318.2	25.49	14.05
111	2007	50	1645	24.16	na	6.865	319.8	32.27	14.05
111	2007	50	1700	24.7	na	6.702	319.3	37.38	14.03
111	2007	50	1715	24.74	na	6.38	322.8	33.77	14.04
111	2007	50	1730	25.14	na	1.447	315.6	24.2	14.04
111	2007	50	1745	24.94	na	3.985	320.6	29.2	14.05
111	2007	50	1800	24.82	na	4.713	331.6	27.01	14.04
111	2007	50	1815	24.73	na	5.682	309.5	29.57	14.06
111	2007	50	1830	24.53	na	1.88	313	31.13	13.08

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	50	1845	24.34	na	0.92	314.5	24.28	13
111	2007	50	1900	24.22	na	0.867	310.9	20.32	12.92
111	2007	50	1915	24.07	na	0.671	319.3	22.99	12.89
111	2007	50	1930	23.95	na	0.597	309.1	27.45	12.85
111	2007	50	1945	23.75	na	0.482	286	18.25	12.82
111	2007	50	2000	23.38	na	0.215	275.6	10.04	12.78
111	2007	50	2015	23.06	na	0.103	292.8	6.55	12.77
111	2007	50	2030	22.88	na	0.018	210	1.86	12.75
111	2007	50	2045	22.8	na	0.187	279.2	7.64	12.74
111	2007	50	2100	22.66	na	0.119	240	12.3	12.71
111	2007	50	2115	23	na	0.549	277.7	16.11	12.71
111	2007	50	2130	23.09	na	0.072	262.2	7.79	12.7
111	2007	50	2145	23.1	na	0.456	278.5	15.25	12.69
111	2007	50	2200	23.53	na	0.657	279	14.22	12.67
111	2007	50	2215	23.95	na	0.817	277.3	15.98	12.67
111	2007	50	2230	24.58	na	1.007	277.5	13.63	12.68
111	2007	50	2245	25.87	na	1.203	278	17.41	12.68
111	2007	50	2300	26.41	na	5.761	271.1	16.78	12.67
111	2007	50	2315	26.67	na	6.231	271.8	18.36	12.68
111	2007	50	2330	27.01	na	6.495	268	19.35	12.68
111	2007	50	2345	27.29	na	6.718	271.3	21.27	12.68
111	2007	50	2400	27.58	na	5.239	263.6	20.46	12.68
111	2007	51	15	27.85	na	4.871	253.7	26.1	12.69
111	2007	51	30	28.18	na	5.251	257.8	25.3	12.69
111	2007	51	45	28.81	na	6.352	254.1	20.01	12.7
111	2007	51	100	29.34	na	7.15	254	20.11	12.68
111	2007	51	115	29.85	na	6.908	254.1	21.63	12.7
111	2007	51	130	30.19	na	6.537	257.3	22.85	12.7
111	2007	51	145	30.52	na	6.394	255.9	20.52	12.7
111	2007	51	200	30.83	na	7.34	257.4	20.25	12.69
111	2007	51	215	31.17	na	6.626	254.7	23.37	12.7
111	2007	51	230	31.73	na	6.531	251.4	18.71	12.71
111	2007	51	245	32.13	na	5.245	253.5	18.07	12.71
111	2007	51	300	32.56	na	4.397	251.2	20.77	12.7
111	2007	51	315	33.08	na	1.78	250.3	18.85	12.71
111	2007	51	330	33.78	na	4.996	248.3	20.89	12.72
111	2007	51	345	34.73	na	6.006	258.5	22.69	12.72
111	2007	51	400	35.37	na	6.871	258.6	22.12	12.71
111	2007	51	415	35.49	na	6.628	259.5	17.66	12.72
111	2007	51	430	35.3	na	6.833	263.9	16.81	12.73
111	2007	51	445	35.24	na	7.14	263.1	19.28	12.73
111	2007	51	500	35.19	na	7.39	266.8	17.01	12.72
111	2007	51	515	35.13	na	7.34	265.4	21.45	12.74
111	2007	51	530	34.88	na	7.98	263.4	22.53	12.74
111	2007	51	545	34.5	na	7.25	263.5	18.23	12.73
111	2007	51	600	34.23	na	7.13	265.7	22.05	12.72
111	2007	51	615	34	na	7.06	271.3	17	12.74
111	2007	51	630	33.52	na	6.227	261.9	23.45	12.72
111	2007	51	645	33.35	na	6.302	269.2	18.94	12.73
111	2007	51	700	33.24	na	6.421	268	17.16	12.72
111	2007	51	715	33.16	na	5.911	266.9	20.05	12.72
111	2007	51	730	33.49	na	6.398	267.5	19.95	12.72
111	2007	51	745	33.61	na	5.909	267	17.79	12.72
111	2007	51	800	33.76	na	5.767	269.2	16.23	12.71
111	2007	51	815	34.33	na	6.533	272	16.31	12.72
111	2007	51	830	35.1	na	7.13	269	18.35	12.79
111	2007	51	845	35.9	na	7.2	273	17.62	13.06
111	2007	51	900	36.5	na	7.63	268.6	16.02	13.89
111	2007	51	915	37.6	na	7.14	266.1	19.71	13.86
111	2007	51	930	38.61	na	8.26	266.3	21.84	13.84

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	51	945	39.45	na	7.94	270	18.98	13.83
111	2007	51	1000	40.27	na	7.16	273.5	20.77	13.8
111	2007	51	1015	39.89	na	8.18	274.1	20.16	13.81
111	2007	51	1030	39.97	na	9.08	276.7	16.33	13.81
111	2007	51	1045	40.58	na	8.76	274.4	20.97	13.79
111	2007	51	1100	41.41	na	9.05	278.6	19.36	13.77
111	2007	51	1115	41.59	na	9.71	278.2	18.96	13.76
111	2007	51	1130	42.45	na	8.67	267.3	20.48	13.76
111	2007	51	1145	43.47	na	9.48	275.9	19.51	13.75
111	2007	51	1200	44	na	9.53	269.7	19.36	13.73
111	2007	51	1215	44.37	na	10.92	273.3	18.12	13.73
111	2007	51	1230	44.79	na	9.11	277.9	19.68	13.72
111	2007	51	1245	44.7	na	8.47	282.5	19.26	13.73
111	2007	51	1300	44.17	na	8.35	278.8	18.44	13.72
111	2007	51	1315	44.49	na	6.99	276.2	20.78	13.73
111	2007	51	1330	45.4	na	8.52	289.3	27.25	13.72
111	2007	51	1345	46.74	na	9.14	280.7	21.47	13.7
111	2007	51	1400	47.65	na	9.57	280.8	22.89	13.69
111	2007	51	1415	48.77	na	8.59	280	19.07	13.7
111	2007	51	1430	49.22	na	8.19	276.1	18.19	13.69
111	2007	51	1445	49.48	na	7.16	275.6	25.7	13.67
111	2007	51	1500	49.92	na	6.163	259	23.4	13.66
111	2007	51	1515	48.58	na	7.41	248.4	17.61	13.67
111	2007	51	1530	49.44	na	7.06	257.8	26.47	13.66
111	2007	51	1545	49.13	na	6.785	243.2	24.78	13.66
111	2007	51	1600	47.3	na	6.014	242.6	21.2	13.66
111	2007	51	1615	45.8	na	5.75	249.9	18.36	13.67
111	2007	51	1630	44.6	na	4.913	250.8	20.88	13.69
111	2007	51	1645	44.01	na	3.01	252	20.71	13.7
111	2007	51	1700	43.75	na	4.221	255	19.86	13.71
111	2007	51	1715	43.43	na	3.974	246.4	20	13.72
111	2007	51	1730	43	na	2.613	252.3	21.35	13.74
111	2007	51	1745	42.57	na	0.493	255.4	17.6	13.11
111	2007	51	1800	42.25	na	0.333	267.3	11.24	13.02
111	2007	51	1815	42.02	na	0.471	262.9	15.16	12.99
111	2007	51	1830	41.69	na	0.351	255.4	15.91	12.96
111	2007	51	1845	41.33	na	0.329	239.8	11.18	12.93
111	2007	51	1900	41.06	na	0.404	260	14.82	12.9
111	2007	51	1915	40.84	na	0.238	244.7	12.62	12.9
111	2007	51	1930	40.25	na	0.346	222.7	13.07	12.88
111	2007	51	1945	39.07	na	0.265	208.3	11.01	12.87
111	2007	51	2000	38.1	na	0.28	246.8	11.49	12.85
111	2007	51	2015	38.06	na	0.34	253.6	14.92	12.85
111	2007	51	2030	38.7	na	0.491	264.4	16.91	12.84
111	2007	51	2045	39.1	na	0.674	260.6	16.08	12.83
111	2007	51	2100	39.5	na	0.988	278.4	14.4	12.82
111	2007	51	2115	39.99	na	0.87	284.2	13.57	12.83
111	2007	51	2130	40.19	na	0.546	272.7	14.38	12.82
111	2007	51	2145	40.26	na	0.214	259.8	13.93	12.82
111	2007	51	2200	40.11	na	0.141	254.8	7.23	12.8
111	2007	51	2215	39.84	na	0.409	272.4	13.27	12.81
111	2007	51	2230	39.68	na	0.652	265.4	14.66	12.81
111	2007	51	2245	39.91	na	0.907	275.4	15.06	12.8
111	2007	51	2300	40.46	na	0.914	285.2	13.49	12.79
111	2007	51	2315	40.68	na	0.792	284.5	14.4	12.8
111	2007	51	2330	40.57	na	0.562	275.3	12.13	12.79
111	2007	51	2345	39.92	na	0.247	270.9	9.35	12.79
111	2007	51	2400	39.18	na	0.184	249.5	8.96	12.78
111	2007	52	15	38.58	na	0.499	263.9	11.31	12.79
111	2007	52	30	38.32	na	0.704	272	13.87	12.78

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	52	45	38.2	na	0.854	278.2	12.57	12.77
111	2007	52	100	38.23	na	0.756	280	16.63	12.76
111	2007	52	115	38.4	na	0.839	287.5	15.04	12.76
111	2007	52	130	38.32	na	0.688	282.8	10.64	12.77
111	2007	52	145	38.29	na	0.735	288.4	16.39	12.76
111	2007	52	200	38.22	na	0.195	295.9	9.28	12.75
111	2007	52	215	38.07	na	0.211	294.9	7.77	12.75
111	2007	52	230	37.94	na	0.227	291.2	9.74	12.75
111	2007	52	245	37.84	na	0.648	293.2	16.03	12.75
111	2007	52	300	37.82	na	0.882	295.4	17.4	12.73
111	2007	52	315	37.81	na	0.814	296.8	16.9	12.73
111	2007	52	330	37.79	na	0.922	298.3	19.21	12.74
111	2007	52	345	37.71	na	0.683	294.4	16.22	12.74
111	2007	52	400	37.64	na	0.961	290.3	21.43	12.72
111	2007	52	415	37.61	na	0.868	298.6	16.11	12.73
111	2007	52	430	37.51	na	0.689	293.8	15.56	12.73
111	2007	52	445	37.26	na	0.377	303	15.66	12.73
111	2007	52	500	37.16	na	0.323	312.2	12.28	12.71
111	2007	52	515	36.87	na	0.214	309.6	8.31	12.71
111	2007	52	530	36.63	na	0.047	323.7	3.424	12.71
111	2007	52	545	36.32	na	0.183	323	10.92	12.71
111	2007	52	600	35.94	na	0.018	62.7	10.29	12.69
111	2007	52	615	35.97	na	0.165	326.1	16.77	12.71
111	2007	52	630	36.02	na	0.083	355	8.78	12.7
111	2007	52	645	35.94	na	0.094	9.23	6.535	12.7
111	2007	52	700	35.85	na	0.098	35.03	5.882	12.69
111	2007	52	715	36	na	0.063	34.8	3.86	12.7
111	2007	52	730	35.79	na	0.054	328.3	7.99	12.69
111	2007	52	745	35.55	na	0	0	0	12.69
111	2007	52	800	35.13	na	0.083	295.6	1.517	12.67
111	2007	52	815	34.8	na	0.045	294	9.61	12.68
111	2007	52	830	34.88	na	0.211	315.6	9.38	12.86
111	2007	52	845	36.45	na	0.02	351.9	4.444	13.66
111	2007	52	900	37.71	na	0.1	348.4	10.03	13.87
111	2007	52	915	38.75	na	0.112	340.4	11.03	13.85
111	2007	52	930	39.6	na	0.17	353	13.12	13.83
111	2007	52	945	40.2	na	0.269	347.8	18.82	13.81
111	2007	52	1000	40.92	na	0.273	34.23	18.85	13.79
111	2007	52	1015	41.32	na	0.654	25.1	27.06	13.78
111	2007	52	1030	41.51	na	1.157	45.51	16.33	13.77
111	2007	52	1045	41.72	na	5.338	26.92	28.36	13.77
111	2007	52	1100	42.05	na	0.676	22.04	18.04	13.75
111	2007	52	1115	42.64	na	0.354	19.23	16.07	13.74
111	2007	52	1130	42.94	na	0.454	0.181	20.33	13.72
111	2007	52	1145	43.09	na	0.566	9.16	25.16	13.72
111	2007	52	1200	43.28	na	4.474	23.96	16.82	13.7
111	2007	52	1215	43.93	na	5.672	355.2	36.62	13.7
111	2007	52	1230	44.6	na	4.973	23.49	28.32	13.7
111	2007	52	1245	44.72	na	5.561	2.202	35.95	13.7
111	2007	52	1300	44.74	na	6.27	357.5	34.16	13.7
111	2007	52	1315	45.1	na	2.382	335.4	33.89	13.7
111	2007	52	1330	46.09	na	3.683	322.4	41.76	13.71
111	2007	52	1345	46.03	na	4.9	342.5	41.62	13.71
111	2007	52	1400	46.59	na	3.606	334.7	34.9	13.7
111	2007	52	1415	46.77	na	2.41	344.5	33.36	13.71
111	2007	52	1430	46.81	na	6.427	350.3	32.55	13.7
111	2007	52	1445	46.91	na	3.694	0.698	28.21	13.7
111	2007	52	1500	47.1	na	5.563	349.2	44.29	13.68
111	2007	52	1515	47.48	na	1.93	29.28	20.66	13.68
111	2007	52	1530	47.28	na	3.789	21.83	21.27	13.66

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	52	1545	47.59	na	0.98	349.3	27.3	13.66
111	2007	52	1600	47.83	na	3.683	338.5	34.32	13.66
111	2007	52	1615	47.84	na	2.82	357	29.22	13.66
111	2007	52	1630	47.71	na	4.881	340.2	34.48	13.66
111	2007	52	1645	47.4	na	0.701	350	38.39	13.67
111	2007	52	1700	47.85	na	1.722	340	51.81	13.67
111	2007	52	1715	47.09	na	2.671	348.9	39.54	13.68
111	2007	52	1730	46.75	na	0.53	325.9	24.2	13.7
111	2007	52	1745	46.35	na	0.226	345.5	13.44	13.7
111	2007	52	1800	46.24	na	0.286	334.1	16.49	13.7
111	2007	52	1815	46.03	na	0.262	352.6	12.97	13.49
111	2007	52	1830	45.47	na	0.285	330.9	19.65	13.07
111	2007	52	1845	44.92	na	0.269	329.8	14.93	13.01
111	2007	52	1900	44.45	na	0.34	313.7	14.11	12.97
111	2007	52	1915	43.65	na	0.315	310.5	8.86	12.94
111	2007	52	1930	42.93	na	0.386	302.8	7.62	12.91
111	2007	52	1945	42.18	na	0.11	313.3	3.847	12.89
111	2007	52	2000	41.02	na	0.349	293.2	5.862	12.86
111	2007	52	2015	39.23	na	0	0	0	12.86
111	2007	52	2030	38.56	na	0.242	299.8	3.118	12.85
111	2007	52	2045	38.1	na	0.054	301.9	2.335	12.83
111	2007	52	2100	37.76	na	0	0	0	12.81
111	2007	52	2115	38.05	na	0.214	309.4	4.765	12.81
111	2007	52	2130	37.94	na	0.172	306.5	3.812	12.8
111	2007	52	2145	36.51	na	0.009	295.1	0.005	12.8
111	2007	52	2200	34.98	na	0.009	302.8	0	12.77
111	2007	52	2215	34.33	na	0.094	300.6	1.479	12.77
111	2007	52	2230	33.62	na	0.144	295.8	2.074	12.76
111	2007	52	2245	33.28	na	0.419	297.9	5.622	12.75
111	2007	52	2300	33.46	na	0.204	302.4	3.641	12.74
111	2007	52	2315	33.08	na	0.63	298.3	7.42	12.74
111	2007	52	2330	33.25	na	0.374	301	6.254	12.74
111	2007	52	2345	32.64	na	0.442	299.7	12.76	12.72
111	2007	52	2400	34.1	na	0.313	314.6	8.56	12.72
111	2007	53	15	34.57	na	0.15	318.3	13.87	12.72
111	2007	53	30	32.29	na	na	na	na	12.71
111	2007	53	45	30.97	na	na	na	na	12.7
111	2007	53	100	30	na	na	na	na	12.69
111	2007	53	115	29.79	na	0.009	287.1	0.006	12.69
111	2007	53	130	28.77	na	0.009	293.8	0.006	12.68
111	2007	53	145	28.26	na	0.009	293.6	0.007	12.68
111	2007	53	200	28.18	na	na	na	na	12.66
111	2007	53	215	27.93	na	na	na	na	12.67
111	2007	53	230	27.72	na	na	na	na	12.66
111	2007	53	245	27.43	na	na	na	na	12.66
111	2007	53	300	27.29	na	na	na	na	12.64
111	2007	53	315	26.89	na	na	na	na	12.65
111	2007	53	330	26.38	na	0.009	318	0	12.65
111	2007	53	345	26.6	na	na	na	na	12.64
111	2007	53	400	26.41	na	na	na	na	12.61
111	2007	53	415	26.04	na	0.009	313	0	12.63
111	2007	53	430	25.87	na	na	na	na	12.63
111	2007	53	445	25.98	na	na	na	na	12.63
111	2007	53	500	26.1	na	na	na	na	12.61
111	2007	53	515	26.16	na	na	na	na	12.62
111	2007	53	530	26.37	na	na	na	na	12.61
111	2007	53	545	26.28	na	na	na	na	12.61
111	2007	53	600	26.12	na	na	na	na	12.6
111	2007	53	615	26.54	na	na	na	na	12.63
111	2007	53	630	26.71	na	na	na	na	12.61

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	53	645	27.04	na	na	na	na	12.62
111	2007	53	700	27.31	na	na	na	na	12.6
111	2007	53	715	27.42	na	na	na	na	12.6
111	2007	53	730	27.34	na	na	na	na	12.6
111	2007	53	745	27.49	na	na	na	na	12.6
111	2007	53	800	27.68	na	na	na	na	12.59
111	2007	53	815	28.37	na	na	na	na	12.62
111	2007	53	830	29.01	na	0.009	265.5	0	12.74
111	2007	53	845	29.96	na	0.125	285	4.869	12.86
111	2007	53	900	30.68	na	0.578	247.2	23.99	13.04
111	2007	53	915	31.26	na	3.096	158.2	25.01	13.91
111	2007	53	930	32.47	na	1.19	161.8	10.03	14
111	2007	53	945	34.79	na	1.39	145.6	18.26	13.95
111	2007	53	1000	36.49	na	2.909	146.5	18.32	13.92
111	2007	53	1015	37.78	na	3.014	185.7	20.82	13.9
111	2007	53	1030	38.24	na	4.442	195.1	20.67	13.88
111	2007	53	1045	38.63	na	5.064	202.3	20.26	13.85
111	2007	53	1100	38.73	na	3.774	185.8	19.69	13.85
111	2007	53	1115	38.82	na	4.99	199	20.08	13.84
111	2007	53	1130	38.44	na	4.461	199.3	19.85	13.83
111	2007	53	1145	39.18	na	4.591	201.6	25.32	13.82
111	2007	53	1200	40.43	na	6.825	211.4	17.94	13.81
111	2007	53	1215	40.54	na	5.386	209.8	24.43	13.81
111	2007	53	1230	41.33	na	5.268	217.1	25.28	13.79
111	2007	53	1245	40.13	na	7.96	223	21.67	13.81
111	2007	53	1300	39.43	na	6.264	234.4	22.13	13.81
111	2007	53	1315	39.2	na	5.338	237.5	20.72	13.82
111	2007	53	1330	38.99	na	4.813	200.5	28.57	13.82
111	2007	53	1345	38.82	na	4.99	180.6	20.2	13.83
111	2007	53	1400	39.44	na	4.839	174.8	19.95	13.82
111	2007	53	1415	39.21	na	5.29	168.9	17.47	13.84
111	2007	53	1430	38.87	na	3.788	180.2	20.78	13.83
111	2007	53	1445	38.96	na	3.744	165	17.54	13.83
111	2007	53	1500	38.58	na	4.658	160.4	18.38	13.83
111	2007	53	1515	39.07	na	4.523	157.2	19.82	13.83
111	2007	53	1530	39.35	na	6.179	157	16.17	13.25
111	2007	53	1545	39.16	na	5.71	150.6	17.47	13.09
111	2007	53	1600	38.74	na	4.72	164.5	17.86	13.04
111	2007	53	1615	38.08	na	4.94	173.7	18.63	13.01
111	2007	53	1630	37.56	na	3.186	189.1	25.73	12.97
111	2007	53	1645	37.53	na	1.894	189.4	27.57	12.93
111	2007	53	1700	37.44	na	2.522	193.3	20.7	12.89
111	2007	53	1715	37.13	na	1.665	225.8	24.05	12.89
111	2007	53	1730	36.61	na	0.157	248.8	10.2	12.87
111	2007	53	1745	36.21	na	0.174	248.7	9.86	12.87
111	2007	53	1800	35.71	na	0.503	229.1	20.07	12.83
111	2007	53	1815	35.04	na	0.525	196.9	15.33	12.84
111	2007	53	1830	34.88	na	0.512	181.1	15.1	12.83
111	2007	53	1845	34.76	na	0.386	193	12.2	12.82
111	2007	53	1900	34.56	na	0.314	197.2	18.67	12.81
111	2007	53	1915	34.43	na	0.298	179.3	23.21	12.81
111	2007	53	1930	34.3	na	0.269	181.8	14.06	12.8
111	2007	53	1945	34.11	na	0.081	189.4	12.56	12.79
111	2007	53	2000	33.96	na	0.09	256.9	24.29	12.77
111	2007	53	2015	34.01	na	0.054	280	8.17	12.78
111	2007	53	2030	33.8	na	0.018	314	0.417	12.77
111	2007	53	2045	33.66	na	0.045	291.3	1.734	12.76
111	2007	53	2100	34.19	na	0.251	315.8	8.7	12.74
111	2007	53	2115	35.63	na	0.458	326.7	17.61	12.74
111	2007	53	2130	36.55	na	0.539	336.8	24.09	12.74

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	53	2145	36.76	na	0.422	335.1	25.58	12.73
111	2007	53	2200	36.75	na	0.379	339.2	19.9	12.71
111	2007	53	2215	36.69	na	0.449	340.5	25.85	12.72
111	2007	53	2230	36.58	na	0.449	333.1	24.36	12.73
111	2007	53	2245	36.52	na	0.539	328.5	27.76	12.71
111	2007	53	2300	36.97	na	0.512	333.7	14.87	12.69
111	2007	53	2315	37.39	na	0.467	337.3	26.41	12.7
111	2007	53	2330	37.52	na	0.478	329.6	17.84	12.7
111	2007	53	2345	37.45	na	0.529	343.3	32.73	12.69
111	2007	53	2400	37.18	na	0.467	344.7	23.67	12.68
111	2007	54	15	36.87	na	0.476	343.7	27.12	12.69
111	2007	54	30	36.75	na	0.525	345.2	29.49	12.68
111	2007	54	45	36.62	na	0.476	349.1	21.1	12.68
111	2007	54	100	36.52	na	0.413	359.2	27.26	12.66
111	2007	54	115	36.44	na	0.467	340.7	22.67	12.67
111	2007	54	130	36.2	na	0.485	349	28.17	12.67
111	2007	54	145	36.07	na	0.503	353.4	22.61	12.67
111	2007	54	200	35.92	na	0.44	351.9	23.05	12.66
111	2007	54	215	35.79	na	0.53	353.5	25.99	12.67
111	2007	54	230	35.78	na	0.512	354.4	23.91	12.67
111	2007	54	245	35.75	na	0.467	350.1	28.9	12.66
111	2007	54	300	35.7	na	0.476	352.3	22.63	12.66
111	2007	54	315	35.78	na	0.476	345.6	28.69	12.66
111	2007	54	330	35.66	na	0.521	353.8	28.04	12.66
111	2007	54	345	35.51	na	0.476	355.8	20.55	12.65
111	2007	54	400	35.42	na	0.575	357.2	29.36	12.65
111	2007	54	415	35.52	na	0.476	359.3	22.9	12.65
111	2007	54	430	35.41	na	0.548	355.2	24.33	12.67
111	2007	54	445	35.34	na	0.503	349.6	26.7	12.65
111	2007	54	500	35.17	na	0.548	353.9	19.79	12.64
111	2007	54	515	34.72	na	0.458	353	23.99	12.66
111	2007	54	530	34.57	na	0.494	354.4	23.61	12.66
111	2007	54	545	34.11	na	0.332	14.68	18.07	12.65
111	2007	54	600	33.38	na	0.341	359.4	14.89	12.63
111	2007	54	615	32.63	na	0.355	6.129	20.3	12.65
111	2007	54	630	31.96	na	0.454	353.8	19.45	12.65
111	2007	54	645	31.62	na	0.388	345.8	18.56	12.65
111	2007	54	700	31.48	na	0.411	331.2	17.81	12.63
111	2007	54	715	31.45	na	0.385	334.6	22.86	12.64
111	2007	54	730	31.42	na	0.328	331.9	21.34	12.64
111	2007	54	745	31.64	na	0.094	3.595	7.7	12.64
111	2007	54	800	32.39	na	1.073	354.4	21.99	12.63
111	2007	54	815	32.86	na	6.95	4.937	30.5	12.64
111	2007	54	830	33.03	na	8.02	8.11	26.23	12.63
111	2007	54	845	33.02	na	9.92	15.39	23.57	12.64
111	2007	54	900	32.49	na	11.62	15.3	24.2	12.83
111	2007	54	915	31.88	na	12.27	16.05	27.22	13.95
111	2007	54	930	30.69	na	13.24	21.74	24.28	13.93
111	2007	54	945	30.89	na	13.8	24.81	21.43	13.92
111	2007	54	1000	31.28	na	11.02	19.91	26.9	13.91
111	2007	54	1015	30.73	na	13.39	13.19	21.4	13.91
111	2007	54	1030	30.32	na	10.56	21.52	21.24	13.91
111	2007	54	1045	29.85	na	11.29	18.39	21.83	13.93
111	2007	54	1100	30.78	na	12.23	16.59	18.33	13.92
111	2007	54	1115	31.14	na	12.3	17.58	23.56	13.91
111	2007	54	1130	31.09	na	11.86	18.73	21.41	13.9
111	2007	54	1145	31.41	na	13.54	28.38	20.81	13.9
111	2007	54	1200	31.4	na	12.68	16.73	25.96	13.89
111	2007	54	1215	31.08	na	13.3	15.84	22.85	13.9
111	2007	54	1230	31.48	na	12.16	12.16	26.74	13.9

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	54	1245	31.86	na	13.21	16.05	19.86	13.89
111	2007	54	1300	32.82	na	11.04	15.45	21.8	13.89
111	2007	54	1315	32.8	na	11.54	9.39	26.33	13.9
111	2007	54	1330	32.89	na	10.62	4.967	29.45	13.9
111	2007	54	1345	32.9	na	11.75	358.7	28.63	13.89
111	2007	54	1400	33.37	na	10.38	6.844	26.8	13.89
111	2007	54	1415	34.13	na	10.37	11.71	27.49	13.89
111	2007	54	1430	34.42	na	10.14	1.04	31.59	13.89
111	2007	54	1445	34.67	na	10.48	348.7	37.55	13.89
111	2007	54	1500	34.56	na	10.54	359.8	29.68	13.87
111	2007	54	1515	34.2	na	11.59	0.506	27	13.87
111	2007	54	1530	33.82	na	10.09	357.6	32.87	13.87
111	2007	54	1545	33.45	na	9.69	355.8	31.96	13.87
111	2007	54	1600	32.76	na	11.29	4.283	29.13	13.87
111	2007	54	1615	31.23	na	11.69	359.2	28.78	13.93
111	2007	54	1630	31.12	na	11.63	356.8	33.02	13.92
111	2007	54	1645	31.29	na	9.53	356.6	29.9	13.93
111	2007	54	1700	31.05	na	9.08	355.3	34	13.93
111	2007	54	1715	31.53	na	9.32	349	31.57	13.93
111	2007	54	1730	31.63	na	11.36	346.5	30.79	13.92
111	2007	54	1745	31.31	na	11.61	346.9	30.04	13.92
111	2007	54	1800	30.86	na	10.93	357	30.94	13.94
111	2007	54	1815	30.42	na	9.81	348.5	36.4	13.95
111	2007	54	1830	30.08	na	9.87	357.8	32.09	13.15
111	2007	54	1845	29.69	na	8.52	356.8	29.1	13.06
111	2007	54	1900	29.25	na	9.7	353.1	35.11	12.98
111	2007	54	1915	28.85	na	8.69	0.688	26.68	12.95
111	2007	54	1930	28.55	na	6.519	352.7	35.96	12.9
111	2007	54	1945	28.32	na	7.97	0.109	29.96	12.88
111	2007	54	2000	28	na	7.76	344.2	36.26	12.85
111	2007	54	2015	27.52	na	8.66	345.4	30.13	12.85
111	2007	54	2030	26.99	na	9.21	347.1	29.58	12.83
111	2007	54	2045	26.42	na	9.83	346.5	29.6	12.82
111	2007	54	2100	25.93	na	10.53	347.4	24.32	12.79
111	2007	54	2115	25.58	na	10.3	350.5	32.55	12.8
111	2007	54	2130	25.22	na	10.52	346	33.18	12.79
111	2007	54	2145	24.87	na	10.16	345.4	31	12.79
111	2007	54	2200	24.52	na	9.42	351.7	32.67	12.76
111	2007	54	2215	24.23	na	8.29	351.5	29.95	12.76
111	2007	54	2230	23.98	na	7.99	359.3	29.79	12.76
111	2007	54	2245	23.71	na	9.04	352.4	31.16	12.75
111	2007	54	2300	23.41	na	7.64	359.9	32.75	12.73
111	2007	54	2315	22.94	na	10.18	355.3	28.2	12.73
111	2007	54	2330	22.6	na	9.89	352.2	31.35	12.73
111	2007	54	2345	22.39	na	7.51	342	32.42	12.73
111	2007	54	2400	22.04	na	8.08	345.6	32.88	12.71
111	2007	55	15	21.82	na	7.27	353.5	31.66	12.71
111	2007	55	30	21.6	na	6.998	348.4	30.59	12.7
111	2007	55	45	21.45	na	7.96	341.4	33.59	12.69
111	2007	55	100	21.22	na	7.11	356.7	32.02	12.68
111	2007	55	115	21.25	na	7.39	358	31.29	12.69
111	2007	55	130	21.25	na	6.829	357.8	28.27	12.68
111	2007	55	145	21.26	na	6.855	357.4	25	12.68
111	2007	55	200	21.35	na	7.67	356.8	25.59	12.67
111	2007	55	215	21.33	na	7.49	350.9	27.26	12.67
111	2007	55	230	21.25	na	7.64	345.7	30.42	12.67
111	2007	55	245	21.09	na	6.111	334.7	35.28	12.66
111	2007	55	300	20.93	na	5.433	337.8	28.42	12.64
111	2007	55	315	20.82	na	1.616	335.3	28.76	12.65
111	2007	55	330	20.8	na	3.655	349	25.52	12.63

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	55	345	20.79	na	4.753	343.1	28.2	12.64
111	2007	55	400	20.82	na	1.206	352.6	22.87	12.62
111	2007	55	415	21.21	na	1.899	353.6	28.1	12.63
111	2007	55	430	21.46	na	7.17	359.3	26.48	12.62
111	2007	55	445	21.38	na	5.884	352.5	28.2	12.62
111	2007	55	500	21.35	na	2.339	355.1	20.13	12.59
111	2007	55	515	21.2	na	3.073	355.7	27.71	12.61
111	2007	55	530	21.07	na	5.756	355.3	26.48	12.59
111	2007	55	545	20.93	na	7.33	350.2	28.17	12.59
111	2007	55	600	20.7	na	7.43	349.5	28.66	12.58
111	2007	55	615	20.38	na	7.07	348.7	33.11	12.59
111	2007	55	630	19.97	na	8.54	0.585	29.11	12.58
111	2007	55	645	19.76	na	6.555	356.9	29.49	12.57
111	2007	55	700	19.51	na	7.27	348.6	33.03	12.56
111	2007	55	715	19.34	na	7.34	348	35.15	12.57
111	2007	55	730	19.26	na	5.694	348.4	28.04	12.56
111	2007	55	745	19.18	na	5.577	345	30.58	12.56
111	2007	55	800	19.23	na	6.933	345.5	28.7	12.54
111	2007	55	815	19.51	na	7.77	351.4	29.38	12.57
111	2007	55	830	19.88	na	7.09	353.3	27.64	12.8
111	2007	55	845	20.14	na	8.71	350.8	36.59	14.13
111	2007	55	900	20.46	na	8.04	353.4	25.92	14.11
111	2007	55	915	20.86	na	9.36	348.3	30.39	14.1
111	2007	55	930	21.24	na	9.43	354.7	24.11	14.09
111	2007	55	945	21.84	na	10.34	1.925	29.61	14.07
111	2007	55	1000	22.45	na	9.14	6.365	28.91	14.06
111	2007	55	1015	23.09	na	10.6	8.48	31.38	14.05
111	2007	55	1030	23.57	na	9.84	2.64	28.85	14.04
111	2007	55	1045	24.23	na	10.64	8.13	28.86	14.02
111	2007	55	1100	25.26	na	8.38	7.74	26.71	14
111	2007	55	1115	25.94	na	10.48	24.2	20.22	14
111	2007	55	1130	26.36	na	10.01	8.35	27.82	13.99
111	2007	55	1145	26.58	na	10.93	21.18	21.07	13.98
111	2007	55	1200	27.58	na	9.29	1.677	34	13.98
111	2007	55	1215	28.08	na	9.6	9.26	31.88	13.96
111	2007	55	1230	28.61	na	11.02	19.48	22.38	13.96
111	2007	55	1245	29.53	na	8.9	18.84	28.79	13.95
111	2007	55	1300	30.25	na	9.91	11.88	32.19	13.94
111	2007	55	1315	30.65	na	9.47	13.47	25.56	13.96
111	2007	55	1330	31.57	na	9.41	19.76	34.39	13.94
111	2007	55	1345	32.35	na	9.44	2.458	35.67	13.94
111	2007	55	1400	33.25	na	7.79	14.21	34.17	13.93
111	2007	55	1415	34.08	na	9.55	11.86	34.05	13.93
111	2007	55	1430	34.42	na	9.65	13.37	27.14	13.92
111	2007	55	1445	34.86	na	10.7	6.468	32.16	13.9
111	2007	55	1500	35.75	na	9.48	20.27	23.98	13.87
111	2007	55	1515	35.91	na	9.24	4.897	31.1	13.87
111	2007	55	1530	36.2	na	9.88	13.56	23.95	13.86
111	2007	55	1545	36.29	na	10.32	19.13	26.43	13.85
111	2007	55	1600	36.81	na	9.98	19.4	25.75	13.83
111	2007	55	1615	37.13	na	10.16	21.12	22.22	13.84
111	2007	55	1630	37.5	na	8.88	15.9	28.64	13.83
111	2007	55	1645	37.79	na	9.23	13.39	23.69	13.84
111	2007	55	1700	37.98	na	8.71	12.43	23.62	13.83
111	2007	55	1715	38.2	na	7.54	16.51	31.75	13.83
111	2007	55	1730	38.47	na	8.24	16.92	27.03	13.84
111	2007	55	1745	38.36	na	7.97	6.687	26.76	13.83
111	2007	55	1800	38.32	na	7.32	18.68	25.83	13.83
111	2007	55	1815	38.17	na	6.242	8.67	28.92	13.85
111	2007	55	1830	37.81	na	6.244	15.26	26.24	13.13

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	55	1845	37.31	na	1.353	9.24	18.83	13.05
111	2007	55	1900	36.74	na	0.212	2.361	11.86	12.98
111	2007	55	1915	36.25	na	0.175	340.4	20.1	12.95
111	2007	55	1930	35.99	na	0.172	336.8	18.31	12.93
111	2007	55	1945	35.88	na	0.22	339.3	16.44	12.91
111	2007	55	2000	35.57	na	0.137	342.4	13.85	12.88
111	2007	55	2015	35.22	na	0.081	0.76	8.42	12.88
111	2007	55	2030	34.7	na	0.074	344.7	8.33	12.85
111	2007	55	2045	34.31	na	0.169	322.6	17.22	12.84
111	2007	55	2100	34.66	na	0.206	5.043	15.04	12.82
111	2007	55	2115	34.99	na	0.305	350.3	18.46	12.83
111	2007	55	2130	34.76	na	0.288	343	25.81	12.82
111	2007	55	2145	34.85	na	0.352	353.1	22.39	12.82
111	2007	55	2200	34.79	na	0.436	345.5	26.12	12.79
111	2007	55	2215	34.71	na	1.675	1.948	28.71	12.8
111	2007	55	2230	34.53	na	5.16	19.3	23.17	12.8
111	2007	55	2245	33.87	na	2.346	28.74	17.81	12.78
111	2007	55	2300	33.19	na	0.186	18.89	9.31	12.77
111	2007	55	2315	32.82	na	0.299	0.446	18.43	12.78
111	2007	55	2330	32.34	na	0.421	357.6	22.01	12.77
111	2007	55	2345	31.95	na	0.284	326.2	19.22	12.78
111	2007	55	2400	31.5	na	0.224	348	13.63	12.74
111	2007	56	15	31.08	na	0.195	358.3	16.28	12.75
111	2007	56	30	30.64	na	0.136	4.194	10.33	12.76
111	2007	56	45	30.33	na	0.241	9.12	13.71	12.74
111	2007	56	100	30.1	na	1.329	357.4	16.37	12.72
111	2007	56	115	29.77	na	4.837	8.81	25.34	12.72
111	2007	56	130	29.5	na	6.089	11.2	19.31	12.72
111	2007	56	145	29.25	na	5.809	15	24.71	12.71
111	2007	56	200	29.14	na	5.972	18.11	20.72	12.69
111	2007	56	215	28.98	na	7.23	10.9	17.69	12.7
111	2007	56	230	28.75	na	7.57	16.73	22.07	12.69
111	2007	56	245	28.39	na	5.002	18.48	19.13	12.68
111	2007	56	300	28.09	na	5.787	19.93	27.3	12.67
111	2007	56	315	27.84	na	6.048	18.62	20.44	12.66
111	2007	56	330	27.54	na	0.438	24.23	14.66	12.66
111	2007	56	345	27.1	na	1.334	24.52	14.55	12.66
111	2007	56	400	26.78	na	6.074	16.99	22.83	12.64
111	2007	56	415	26.52	na	7.27	22.57	26.65	12.64
111	2007	56	430	26.26	na	7.76	25.87	21.12	12.64
111	2007	56	445	26.01	na	6.896	25.53	20.52	12.63
111	2007	56	500	25.77	na	5.978	22.42	17.51	12.6
111	2007	56	515	25.59	na	6.246	33.27	19.53	12.62
111	2007	56	530	25.43	na	5.208	30.93	14.23	12.61
111	2007	56	545	25.19	na	0.607	42.51	14.96	12.6
111	2007	56	600	24.95	na	0.186	18.72	17.23	12.58
111	2007	56	615	24.82	na	0.357	39.33	11.3	12.59
111	2007	56	630	24.75	na	0.607	39.03	11.23	12.58
111	2007	56	645	24.51	na	0.105	20.79	11.32	12.58
111	2007	56	700	24.29	na	0.113	27.31	13.14	12.57
111	2007	56	715	23.98	na	0.121	12.58	11.27	12.59
111	2007	56	730	23.78	na	0.093	322.5	9.78	12.57
111	2007	56	745	23.56	na	0.36	298.8	9.03	12.56
111	2007	56	800	23.73	na	0.312	305.6	13.3	12.55
111	2007	56	815	24.79	na	0.389	276.9	10.95	12.69
111	2007	56	830	25.69	na	0.397	301.3	17.53	13.74
111	2007	56	845	25.71	na	0.169	329.5	15.35	14.05
111	2007	56	900	25.73	na	0.09	14.7	7.62	14.05
111	2007	56	915	26.2	na	0.281	2.779	21.35	14.05
111	2007	56	930	26.61	na	0.215	31.03	10.01	14.02

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	56	945	27.42	na	0.223	37.99	9.5	14.02
111	2007	56	1000	27.44	na	0.155	27.54	4.936	14
111	2007	56	1015	27.73	na	0.435	43.96	10.91	14
111	2007	56	1030	28.7	na	0.283	47.78	17.64	13.98
111	2007	56	1045	29.22	na	0.268	21.35	26.19	13.96
111	2007	56	1100	29.56	na	0.231	30.74	16.48	13.94
111	2007	56	1115	30.1	na	0.48	337.6	27.39	13.94
111	2007	56	1130	30.85	na	0.286	18.18	23.92	13.94
111	2007	56	1145	31.1	na	0.506	21.75	34.13	13.92
111	2007	56	1200	31.27	na	0.375	25.94	29.57	13.92
111	2007	56	1215	31.86	na	0.549	34.36	19.21	13.91
111	2007	56	1230	32.58	na	5.392	49.15	22.21	13.89
111	2007	56	1245	33.29	na	5.559	26.08	29.79	13.87
111	2007	56	1300	33.79	na	4.055	23.72	28.11	13.87
111	2007	56	1315	34.06	na	4.259	25.4	21.86	13.88
111	2007	56	1330	33.84	na	0.991	49.82	18.23	13.88
111	2007	56	1345	33.86	na	3.578	40.57	25.36	13.88
111	2007	56	1400	34.27	na	2.515	36.74	17.11	13.87
111	2007	56	1415	34.62	na	0.263	38.45	18.8	13.87
111	2007	56	1430	35.06	na	0.124	30.07	11.73	13.87
111	2007	56	1445	36.25	na	0.21	328.8	27.39	13.85
111	2007	56	1500	36.29	na	0.461	314.2	26.57	13.84
111	2007	56	1515	36.27	na	0.648	301.2	17.95	13.85
111	2007	56	1530	36.23	na	0.741	297.2	18.67	13.86
111	2007	56	1545	36.29	na	0.846	280.3	15.76	13.87
111	2007	56	1600	36.22	na	0.868	307.5	24.66	13.85
111	2007	56	1615	36.55	na	0.792	297.9	25.61	13.85
111	2007	56	1630	36.74	na	0.715	302.9	29.16	13.85
111	2007	56	1645	36.77	na	0.461	303.2	15.15	13.87
111	2007	56	1700	36.7	na	0.252	302.4	17.68	13.18
111	2007	56	1715	36.5	na	0.781	293.1	21.08	13.09
111	2007	56	1730	36.19	na	0.878	297.6	20.99	13.03
111	2007	56	1745	35.98	na	0.606	299.4	15.49	12.97
111	2007	56	1800	35.76	na	0.369	291.2	19.35	12.94
111	2007	56	1815	35.33	na	0.259	275.5	21.66	12.92
111	2007	56	1830	34.33	na	0.155	246.7	10.94	12.89
111	2007	56	1845	33.95	na	0.074	264.4	7.98	12.88
111	2007	56	1900	33.83	na	0.204	272.8	10.25	12.86
111	2007	56	1915	33.7	na	0.018	312.4	2.22	12.86
111	2007	56	1930	33.59	na	0.161	241.2	8.91	12.85
111	2007	56	1945	33.45	na	0.276	255.9	11.68	12.84
111	2007	56	2000	33.47	na	0.44	268.1	14.02	12.82
111	2007	56	2015	33.58	na	0.542	272.5	14.07	12.83
111	2007	56	2030	33.66	na	0.367	269.2	18.68	12.82
111	2007	56	2045	33.64	na	0.156	262.4	13.88	12.82
111	2007	56	2100	33.61	na	0.168	264.3	14.97	12.8
111	2007	56	2115	33.53	na	0.147	245.7	13.85	12.8
111	2007	56	2130	33.23	na	0.139	253.8	6.576	12.8
111	2007	56	2145	33.02	na	0.047	282.1	3.931	12.8
111	2007	56	2200	32.1	na	0.404	287.4	13.26	12.77
111	2007	56	2215	30.39	na	0.3	291.9	9.03	12.78
111	2007	56	2230	29.61	na	0.027	357.4	5.969	12.77
111	2007	56	2245	29.21	na	0.1	46.68	4.042	12.76
111	2007	56	2300	28.95	na	0.085	63.74	5.088	12.73
111	2007	56	2315	28.7	na	0.076	76.8	2.326	12.74
111	2007	56	2330	28.63	na	0.356	77.6	10.08	12.74
111	2007	56	2345	28.69	na	1.007	96.2	14.15	12.73
111	2007	56	2400	28.85	na	1.705	101.4	13.64	12.71
111	2007	57	15	28.92	na	4.155	89.3	15.62	12.71
111	2007	57	30	28.85	na	5.497	83.8	16.39	12.7

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	57	45	29.02	na	5.354	83.1	18.11	12.7
111	2007	57	100	29.26	na	5.366	90.3	17.86	12.68
111	2007	57	115	29.31	na	4.392	102.5	18.1	12.69
111	2007	57	130	29.35	na	4.628	103.7	19.65	12.68
111	2007	57	145	29.32	na	4.64	100.2	17.08	12.67
111	2007	57	200	29.21	na	6.103	92.4	16.46	12.66
111	2007	57	215	29.34	na	6.431	100.9	13.31	12.66
111	2007	57	230	29.64	na	3.515	103.3	11.44	12.66
111	2007	57	245	30.03	na	na	na	na	12.65
111	2007	57	300	30.25	na	na	na	na	12.64
111	2007	57	315	30.38	na	na	na	na	12.64
111	2007	57	330	30.46	na	na	na	na	12.64
111	2007	57	345	30.46	na	na	na	na	12.64
111	2007	57	400	30.52	na	na	na	na	12.62
111	2007	57	415	30.41	na	na	na	na	12.63
111	2007	57	430	30.26	na	na	na	na	12.63
111	2007	57	445	30.1	na	na	na	na	12.62
111	2007	57	500	30.02	na	na	na	na	12.61
111	2007	57	515	29.96	na	na	na	na	12.62
111	2007	57	530	29.88	na	na	na	na	12.62
111	2007	57	545	29.89	na	na	na	na	12.62
111	2007	57	600	29.94	na	na	na	na	12.6
111	2007	57	615	30.02	na	na	na	na	12.62
111	2007	57	630	30.1	na	0.009	106	0.004	12.61
111	2007	57	645	30.28	na	na	na	na	12.6
111	2007	57	700	30.47	na	na	na	na	12.59
111	2007	57	715	30.68	na	na	na	na	12.6
111	2007	57	730	30.96	na	na	na	na	12.61
111	2007	57	745	31.2	na	na	na	na	12.61
111	2007	57	800	31.33	na	na	na	na	12.6
111	2007	57	815	31.3	na	0.308	68.81	9.33	12.61
111	2007	57	830	31.21	na	0.512	68.72	11.19	12.61
111	2007	57	845	31.15	na	2.713	57.3	18.48	12.61
111	2007	57	900	31.18	na	0.575	63.58	16.56	12.6
111	2007	57	915	31.2	na	0.427	58.53	12.18	12.61
111	2007	57	930	31.25	na	0.505	58.11	15.03	12.61
111	2007	57	945	31.22	na	0.464	55.15	10.74	12.61
111	2007	57	1000	31.19	na	0.606	56.2	14.98	12.6
111	2007	57	1015	31.19	na	1.818	58.75	18.3	12.61
111	2007	57	1030	31.13	na	5.592	62.05	17.89	12.68
111	2007	57	1045	31.12	na	4.296	66.92	20.04	12.81
111	2007	57	1100	31.15	na	2.75	62.04	16.78	13.08
111	2007	57	1115	31.37	na	1.862	67.85	12.11	13.19
111	2007	57	1130	31.29	na	5.112	341.3	17.37	13.94
111	2007	57	1145	31.22	na	6.769	349	23.83	13.94
111	2007	57	1200	31.42	na	5.583	354.3	32.64	13.94
111	2007	57	1215	31.52	na	6.169	351.3	23.88	13.94
111	2007	57	1230	31.57	na	6.38	350.8	24.23	13.94
111	2007	57	1245	31.79	na	6.39	357.5	24.47	13.93
111	2007	57	1300	31.86	na	6.731	350.9	21.42	13.92
111	2007	57	1315	32.22	na	6.143	3.678	21.3	13.93
111	2007	57	1330	32.28	na	5.632	2.39	21.62	13.94
111	2007	57	1345	32.4	na	4.754	0.487	18.99	13.94
111	2007	57	1400	32.41	na	4.203	359	23.12	13.93
111	2007	57	1415	32.24	na	5.459	340.4	25.73	13.96
111	2007	57	1430	32.12	na	4.815	332.4	20.18	13.94
111	2007	57	1445	31.98	na	4.303	324.3	17.63	13.94
111	2007	57	1500	31.92	na	4.343	318.6	17.79	13.92
111	2007	57	1515	32.07	na	3.236	325.9	21.16	13.95
111	2007	57	1530	32.15	na	3.841	338.2	21.53	13.94

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	57	1545	32.33	na	3.832	334.7	19.44	13.94
111	2007	57	1600	32.41	na	2.174	329.1	20.64	13.36
111	2007	57	1615	32.51	na	1.077	330.5	15.48	13.76
111	2007	57	1630	32.62	na	1.52	333.2	15.58	13.22
111	2007	57	1645	32.64	na	0.124	338.6	7.71	13.12
111	2007	57	1700	32.67	na	0.329	314.7	12.85	13.03
111	2007	57	1715	32.65	na	0.613	316	16.06	13
111	2007	57	1730	32.62	na	0.711	310.9	13.57	12.96
111	2007	57	1745	32.65	na	0.55	323.7	7.84	12.93
111	2007	57	1800	32.54	na	0.349	331.9	5.256	12.92
111	2007	57	1815	32.52	na	0.428	326.6	10.64	12.89
111	2007	57	1830	32.45	na	0.258	345	8.69	12.87
111	2007	57	1845	32.3	na	1.114	330.6	15.15	12.86
111	2007	57	1900	32.18	na	1.117	335.6	13.74	12.84
111	2007	57	1915	32.13	na	0.836	324.9	11.26	12.84
111	2007	57	1930	32.09	na	0.994	352.4	14.7	12.84
111	2007	57	1945	32.07	na	0.567	353.6	12.33	12.83
111	2007	57	2000	32.13	na	0.812	351.5	18.91	12.81
111	2007	57	2015	32.14	na	0.543	330.7	10.93	12.8
111	2007	57	2030	32.13	na	0.512	341.2	11.06	12.82
111	2007	57	2045	32.22	na	1.43	316.6	13.12	12.8
111	2007	57	2100	32.33	na	0.221	303.5	9.88	12.77
111	2007	57	2115	32.36	na	0.165	276.5	8.15	12.78
111	2007	57	2130	32.31	na	0.24	282.2	12.19	12.78
111	2007	57	2145	32.1	na	1.033	283.7	16.84	12.77
111	2007	57	2200	31.85	na	0.281	293.5	8.04	12.75
111	2007	57	2215	31.62	na	0.361	293.9	8.14	12.76
111	2007	57	2230	31.56	na	0.009	291.2	0.006	12.74
111	2007	57	2245	31.61	na	na	na	na	12.74
111	2007	57	2300	31.63	na	0.009	256.7	0.006	12.72
111	2007	57	2315	31.69	na	0.018	267.8	2.849	12.71
111	2007	57	2330	31.72	na	0.018	303.3	0.072	12.71
111	2007	57	2345	31.78	na	na	na	na	12.7
111	2007	57	2400	31.79	na	na	na	na	12.68
111	2007	58	15	31.8	na	na	na	na	12.68
111	2007	58	30	31.85	na	0.009	25.09	0.007	12.68
111	2007	58	45	31.97	na	na	na	na	12.67
111	2007	58	100	32.05	na	na	na	na	12.65
111	2007	58	115	32.13	na	0.195	308.4	4.819	12.65
111	2007	58	130	32.18	na	0.636	323.7	16.63	12.65
111	2007	58	145	32.24	na	0.071	331.1	2.935	12.64
111	2007	58	200	32.25	na	0.489	348.1	10.72	12.63
111	2007	58	215	32.27	na	0.497	355.7	10.47	12.64
111	2007	58	230	32.24	na	1.702	10.87	22.26	12.62
111	2007	58	245	32.2	na	0.095	37.24	2.933	12.62
111	2007	58	300	32.14	na	0.085	34.27	2.613	12.62
111	2007	58	315	32.15	na	na	na	na	12.62
111	2007	58	330	32.08	na	na	na	na	12.62
111	2007	58	345	32.08	na	na	na	na	12.61
111	2007	58	400	32.07	na	na	na	na	12.6
111	2007	58	415	32.1	na	na	na	na	12.62
111	2007	58	430	32.08	na	0.326	168.6	11.37	12.62
111	2007	58	445	31.92	na	1.181	154.8	21.86	12.61
111	2007	58	500	31.87	na	0.299	163.7	8.48	12.6
111	2007	58	515	31.86	na	na	na	na	12.62
111	2007	58	530	31.88	na	0.928	213.1	5.482	12.61
111	2007	58	545	31.93	na	0.054	199.5	3.2	12.61
111	2007	58	600	31.96	na	na	na	na	12.6
111	2007	58	615	31.99	na	na	na	na	12.61
111	2007	58	630	31.94	na	na	na	na	12.6

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	58	645	31.98	na	na	na	na	12.6
111	2007	58	700	32.08	na	na	na	na	12.59
111	2007	58	715	32.16	na	0.045	212.9	2.355	12.6
111	2007	58	730	32.26	na	0.018	212.8	0.705	12.62
111	2007	58	745	32.37	na	0.027	257.9	2.724	12.6
111	2007	58	800	32.42	na	0.354	205.6	7.9	12.58
111	2007	58	815	32.52	na	0.825	205.4	11.58	12.6
111	2007	58	830	32.57	na	1.378	185.1	18.33	12.6
111	2007	58	845	32.58	na	0.892	188.5	17.13	12.6
111	2007	58	900	32.61	na	1.17	186.7	24.77	12.59
111	2007	58	915	32.7	na	1.933	209.1	16.02	12.6
111	2007	58	930	32.77	na	2.044	187.7	18.04	12.63
111	2007	58	945	32.97	na	0.739	200.4	17.24	12.81
111	2007	58	1000	33.51	na	1.463	220.7	23.35	13.09
111	2007	58	1015	34.02	na	2.144	211.9	27.79	13.86
111	2007	58	1030	34.14	na	1.104	189.7	19.3	13.6
111	2007	58	1045	34.63	na	0.805	257	31.48	13.91
111	2007	58	1100	34.96	na	2.045	267.1	41.47	13.88
111	2007	58	1115	35.73	na	1.775	250.7	45.59	13.87
111	2007	58	1130	36.37	na	1.967	252.1	38.52	13.87
111	2007	58	1145	36.63	na	1.619	242.7	37.98	13.87
111	2007	58	1200	37.03	na	1.494	266.7	57.55	13.85
111	2007	58	1215	37.07	na	1.885	5.968	33.02	13.86
111	2007	58	1230	36.71	na	2.255	72.5	19.14	13.85
111	2007	58	1245	36.5	na	2.042	102.7	37.99	13.85
111	2007	58	1300	37.39	na	1.595	158	36.98	13.82
111	2007	58	1315	37.74	na	3.571	130	28.84	13.81
111	2007	58	1330	37.19	na	4.231	117.5	16.11	13.81
111	2007	58	1345	37.13	na	4.133	119.5	26.18	13.81
111	2007	58	1400	37.35	na	4.605	110	21.98	13.8
111	2007	58	1415	37.54	na	4.94	109.9	20.12	13.8
111	2007	58	1430	37.54	na	4.545	144.2	23.15	13.8
111	2007	58	1445	37.01	na	5.35	145.6	18.88	13.81
111	2007	58	1500	36.61	na	4.364	150.3	23.94	13.17
111	2007	58	1515	36.28	na	3.511	165.5	27.68	13.08
111	2007	58	1530	36.16	na	3.629	175.3	21.38	13.02
111	2007	58	1545	36.02	na	3.599	177.2	25.42	13.01
111	2007	58	1600	35.72	na	2.476	202.1	39.2	12.95
111	2007	58	1615	35.61	na	1.429	164.2	41.9	12.93
111	2007	58	1630	35.57	na	1.046	194.8	30.17	12.91
111	2007	58	1645	35.67	na	0.575	138.3	41.28	12.9
111	2007	58	1700	35.82	na	1.429	147.1	50.21	12.91
111	2007	58	1715	36.06	na	1.947	149.4	25.1	12.88
111	2007	58	1730	35.94	na	1.979	134.7	24.32	12.87
111	2007	58	1745	35.75	na	1.619	149.7	34.15	12.85
111	2007	58	1800	35.71	na	2.086	149.7	24.68	12.84
111	2007	58	1815	35.59	na	2.124	138.4	21.65	12.84
111	2007	58	1830	35.27	na	2.515	127.9	17.86	12.83
111	2007	58	1845	34.75	na	2.571	73.5	20.68	12.83
111	2007	58	1900	34.76	na	1.626	144.9	24.08	12.81
111	2007	58	1915	34.71	na	0.881	116.3	24.92	12.81
111	2007	58	1930	34.58	na	0.67	164.3	26.76	12.8
111	2007	58	1945	34.66	na	0.877	115.2	29.47	12.79
111	2007	58	2000	34.55	na	0.348	200.7	9.76	12.77
111	2007	58	2015	34.47	na	0.899	204.1	17.04	12.78
111	2007	58	2030	34.49	na	1.504	205.6	11.59	12.77
111	2007	58	2045	34.38	na	0	0	0	12.77
111	2007	58	2100	34.39	na	1.744	199.4	12.56	12.75
111	2007	58	2115	34.4	na	2.297	197.4	15.6	12.75
111	2007	58	2130	34.59	na	2.003	217.6	15.92	12.74

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	58	2145	34.8	na	2.567	217.4	13.71	12.73
111	2007	58	2200	35.05	na	1.886	215.6	32.23	12.72
111	2007	58	2215	35.28	na	2.627	187	22.69	12.72
111	2007	58	2230	35.31	na	2.615	200.4	16.11	12.71
111	2007	58	2245	35.09	na	2.281	200.8	16.79	12.71
111	2007	58	2300	34.74	na	2.255	202.2	14.28	12.69
111	2007	58	2315	34.5	na	1.748	204	12.73	12.68
111	2007	58	2330	34.56	na	2.41	194.6	14.18	12.7
111	2007	58	2345	35.06	na	2.376	205.2	14.95	12.68
111	2007	58	2400	35.19	na	1.245	238.7	18.69	12.66
111	2007	59	15	35.21	na	1.194	225.8	14.34	12.66
111	2007	59	30	35.04	na	1.174	248.7	15.02	12.65
111	2007	59	45	34.86	na	0.444	257.1	12.79	12.65
111	2007	59	100	34.88	na	1	275.5	14	12.65
111	2007	59	115	34.68	na	1.462	247	19.05	12.64
111	2007	59	130	34.43	na	1.674	222.2	14.92	12.64
111	2007	59	145	34.55	na	1.073	233.2	15.91	12.66
111	2007	59	200	34.44	na	1.788	189	17.19	12.62
111	2007	59	215	34.42	na	1.426	213.6	13.12	12.62
111	2007	59	230	34.33	na	1.061	204.4	12.92	12.62
111	2007	59	245	33.95	na	1.422	208.2	22.97	12.62
111	2007	59	300	34.09	na	1.754	211.6	10.02	12.6
111	2007	59	315	34.24	na	0.925	254.8	15.54	12.61
111	2007	59	330	34.59	na	1.417	252.3	16.98	12.61
111	2007	59	345	34.57	na	1.329	243.8	14.7	12.61
111	2007	59	400	34.48	na	1.296	232.6	18.35	12.59
111	2007	59	415	34.5	na	0.983	265.8	18.94	12.6
111	2007	59	430	34.39	na	1.459	269.1	18.96	12.6
111	2007	59	445	34.32	na	1.848	280.5	21.27	12.6
111	2007	59	500	34.42	na	2.728	287.8	23.87	12.61
111	2007	59	515	34.6	na	3.07	272.7	26.8	12.6
111	2007	59	530	34.52	na	2.776	269.1	26.51	12.6
111	2007	59	545	34.19	na	2.307	287.9	21.28	12.6
111	2007	59	600	33.71	na	2.152	285.5	20.98	12.58
111	2007	59	615	33.31	na	2.003	275.3	21.87	12.59
111	2007	59	630	33.01	na	2.505	264.3	23.64	12.58
111	2007	59	645	32.59	na	1.866	257.1	23.53	12.6
111	2007	59	700	32.21	na	1.759	247.8	19.46	12.57
111	2007	59	715	32.03	na	1.72	239.4	16.62	12.57
111	2007	59	730	32.21	na	1.529	272.9	30.48	12.58
111	2007	59	745	32.67	na	2.519	271.8	25.24	12.6
111	2007	59	800	32.93	na	2.325	275.4	23.17	12.56
111	2007	59	815	33.25	na	2.285	284.9	22.27	12.58
111	2007	59	830	33.57	na	2.299	285.8	24.9	12.58
111	2007	59	845	33.98	na	3.503	300.4	20.2	12.66
111	2007	59	900	34.4	na	3.629	300.5	23.14	12.71
111	2007	59	915	34.68	na	3.404	295.4	21	12.88
111	2007	59	930	34.97	na	3.026	293.7	25.41	13.22
111	2007	59	945	35.25	na	5.799	309.4	27.53	13.9
111	2007	59	1000	35.63	na	4.847	307.3	19.09	13.87
111	2007	59	1015	36.61	na	5.181	308	25.01	13.85
111	2007	59	1030	37.25	na	6.664	310.7	28.34	13.83
111	2007	59	1045	37.8	na	6.131	320.9	27.46	13.81
111	2007	59	1100	38	na	7	319.1	27.51	13.79
111	2007	59	1115	38.38	na	7.28	295.9	24.51	13.79
111	2007	59	1130	38.64	na	6.443	302	30.48	13.77
111	2007	59	1145	39.38	na	5.143	284	42.18	13.77
111	2007	59	1200	39.96	na	6.606	289.1	34.79	13.75
111	2007	59	1215	39.67	na	6.944	301	22.45	13.76
111	2007	59	1230	40.27	na	6.576	255.5	29.68	13.75

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	59	1245	40.69	na	6.151	284.3	31.26	13.75
111	2007	59	1300	40.77	na	6.217	272.6	32.22	13.74
111	2007	59	1315	41.27	na	6.461	289.6	32.5	13.75
111	2007	59	1330	40.64	na	7.62	297.6	35.58	13.76
111	2007	59	1345	40.9	na	6.246	290.3	33.8	13.77
111	2007	59	1400	41.2	na	7.09	290.5	25.55	13.75
111	2007	59	1415	41.75	na	6.457	288.7	39.45	13.77
111	2007	59	1430	41.72	na	6.467	295.7	39.05	13.76
111	2007	59	1445	41.65	na	7.04	262.5	30.08	13.76
111	2007	59	1500	42	na	5.978	283.7	34.43	13.74
111	2007	59	1515	41.95	na	6.262	267.8	34.39	13.73
111	2007	59	1530	42.05	na	6.481	294.5	26.52	13.73
111	2007	59	1545	42.28	na	6.244	292.5	27.77	13.72
111	2007	59	1600	42.18	na	6.67	301.2	29.81	13.71
111	2007	59	1615	42.83	na	5.169	273.6	37.89	13.72
111	2007	59	1630	42.76	na	5.662	281.9	27.74	13.72
111	2007	59	1645	42.65	na	7.26	289.2	30.27	13.72
111	2007	59	1700	42.74	na	6.572	259.6	24.22	13.72
111	2007	59	1715	42.69	na	6.831	293	26.53	13.73
111	2007	59	1730	42.64	na	6.527	287.8	35.6	13.73
111	2007	59	1745	42.51	na	6.551	284	33.28	13.74
111	2007	59	1800	42.34	na	5.3	287.2	29.04	13.74
111	2007	59	1815	42.05	na	5.294	290.1	26.91	13.76
111	2007	59	1830	41.69	na	4.32	290	22.2	13.18
111	2007	59	1845	41.27	na	3.169	271.4	25.12	13.07
111	2007	59	1900	40.84	na	1.977	270	20.38	13
111	2007	59	1915	40.35	na	1.468	256.7	18.3	12.97
111	2007	59	1930	39.45	na	1.159	232.9	13.57	12.94
111	2007	59	1945	38.03	na	1.603	223	15.77	12.92
111	2007	59	2000	37.04	na	0.958	229.1	13.29	12.89
111	2007	59	2015	36.35	na	1.041	239.1	13.94	12.88
111	2007	59	2030	35.49	na	1.046	232.9	13.21	12.88
111	2007	59	2045	34.67	na	1.212	243.9	23.16	12.85
111	2007	59	2100	33.9	na	1.604	226.5	21.27	12.83
111	2007	59	2115	34.07	na	1.24	248.4	17.77	12.84
111	2007	59	2130	34.05	na	1.224	262.6	27.09	12.81
111	2007	59	2145	33.27	na	1.152	231.7	28.06	12.8
111	2007	59	2200	32.81	na	1.035	264.7	21.92	12.78
111	2007	59	2215	33.26	na	1.417	257.2	15.84	12.79
111	2007	59	2230	34.24	na	1.603	254.4	22.61	12.78
111	2007	59	2245	33.52	na	1.571	255.5	14.62	12.77
111	2007	59	2300	32.69	na	1.933	240.8	15.01	12.76
111	2007	59	2315	33.01	na	1.436	282.1	17.22	12.76
111	2007	59	2330	33.1	na	1.738	305.5	25.14	12.75
111	2007	59	2345	33.72	na	2.118	315.8	23.25	12.75
111	2007	59	2400	33.82	na	2.156	326.8	18.61	12.74
111	2007	60	15	33.65	na	1.124	309.7	18.83	12.74
111	2007	60	30	32.62	na	2.315	246.7	15.95	12.74
111	2007	60	45	31.83	na	0.828	278.4	15.62	12.74
111	2007	60	100	30.94	na	0.78	291.1	20.11	12.72
111	2007	60	115	30.37	na	1.608	247.8	19.13	12.72
111	2007	60	130	30.04	na	1.138	276.2	19.99	12.72
111	2007	60	145	29.28	na	0.018	243	0.159	12.72
111	2007	60	200	28.77	na	0.881	225.3	6.896	12.7
111	2007	60	215	28.5	na	0.559	312.2	4.049	12.7
111	2007	60	230	28	na	0.243	347.3	13.08	12.69
111	2007	60	245	27.96	na	1.237	322.1	30.58	12.68
111	2007	60	300	27.79	na	0.147	289.6	6.519	12.67
111	2007	60	315	27.06	na	0.259	212	5.799	12.68
111	2007	60	330	26.68	na	0.102	292.1	2.675	12.68

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	60	345	26.99	na	0.568	295.2	4.807	12.67
111	2007	60	400	26.66	na	na	na	na	12.65
111	2007	60	415	26.26	na	na	na	na	12.66
111	2007	60	430	26	na	0.697	243.3	22.49	12.65
111	2007	60	445	25.49	na	0.276	288	6.437	12.65
111	2007	60	500	25.99	na	1.079	268.2	9.66	12.63
111	2007	60	515	25.94	na	0.084	267.3	0.72	12.64
111	2007	60	530	25.76	na	1.194	286.7	13.11	12.64
111	2007	60	545	25.51	na	0.321	359.8	17.73	12.63
111	2007	60	600	25.27	na	0.261	290	8.57	12.62
111	2007	60	615	25.52	na	0.376	279.1	25.53	12.63
111	2007	60	630	25.23	na	1.063	232.4	19.47	12.62
111	2007	60	645	25.39	na	0.829	273.6	14.15	12.62
111	2007	60	700	26.14	na	0.822	297	12.88	12.6
111	2007	60	715	26.28	na	0.8	293.1	17.74	12.6
111	2007	60	730	26.35	na	0.869	326.9	24.31	12.61
111	2007	60	745	26.61	na	2.06	309	17.65	12.6
111	2007	60	800	27.65	na	2.555	300.4	11.66	12.65
111	2007	60	815	29.03	na	2.827	313.1	17.66	12.81
111	2007	60	830	30.08	na	2.515	304.6	22.97	13.01
111	2007	60	845	30.91	na	3.14	318.1	22.05	14.03
111	2007	60	900	32.11	na	3.921	315	21.27	13.98
111	2007	60	915	33.02	na	4.744	319.3	19.47	13.98
111	2007	60	930	33.38	na	5.284	324.1	17.18	13.96
111	2007	60	945	34.11	na	5.259	333.2	30.53	13.94
111	2007	60	1000	34.54	na	4.378	342.7	26.69	13.92
111	2007	60	1015	34.45	na	4.736	336.3	21.55	13.92
111	2007	60	1030	34.42	na	5.3	351	24.71	13.91
111	2007	60	1045	35.26	na	4.833	334.3	23.17	13.87
111	2007	60	1100	35.86	na	4.239	341.2	34.38	13.84
111	2007	60	1115	36.09	na	4.483	359.5	33.6	13.83
111	2007	60	1130	36.8	na	3.819	355.5	32.46	13.83
111	2007	60	1145	37.15	na	3.253	354.7	45.61	13.81
111	2007	60	1200	37.7	na	2.23	39.75	77.9	13.81
111	2007	60	1215	37.9	na	4.275	103.9	63.76	13.81
111	2007	60	1230	37.56	na	5.386	118.8	20.72	13.82
111	2007	60	1245	37.12	na	5.952	124.6	18.4	13.81
111	2007	60	1300	37.41	na	6.111	121.4	15.91	13.81
111	2007	60	1315	37.67	na	6.465	116.7	18.98	13.81
111	2007	60	1330	38.06	na	5.867	113.8	24.05	13.81
111	2007	60	1345	37.87	na	6.898	112.6	20.99	13.82
111	2007	60	1400	37.96	na	7.05	116.1	24.05	13.81
111	2007	60	1415	37.88	na	7.13	126.2	23.13	13.82
111	2007	60	1430	37.59	na	7.42	96.9	23.23	13.81
111	2007	60	1445	37.86	na	7.1	98.8	24.59	13.81
111	2007	60	1500	37.33	na	7.43	104.4	18.41	13.8
111	2007	60	1515	37.52	na	6.795	95.6	20.11	13.8
111	2007	60	1530	37.82	na	5.946	108.2	24.5	13.79
111	2007	60	1545	37.85	na	6.29	124.2	20.4	13.79
111	2007	60	1600	37.08	na	6.749	125.4	22.35	13.79
111	2007	60	1615	36.75	na	6.547	101.9	20.83	13.81
111	2007	60	1630	36.36	na	6.499	89.3	15.61	13.83
111	2007	60	1645	36.36	na	5.98	90.7	20.68	13.83
111	2007	60	1700	36.2	na	6.199	89.5	18.75	13.84
111	2007	60	1715	35.97	na	6.68	87.7	15.3	13.84
111	2007	60	1730	35.87	na	5.396	85.8	20.01	13.21
111	2007	60	1745	35.95	na	5.076	87.2	16.04	13.11
111	2007	60	1800	35.87	na	4.805	80.8	15.05	13.02
111	2007	60	1815	35.83	na	4.835	84.2	18.05	12.98
111	2007	60	1830	35.84	na	4.442	81.3	17.36	12.95

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	60	1845	35.9	na	4.306	74.2	16.7	12.91
111	2007	60	1900	35.92	na	4.434	66.27	16.28	12.89
111	2007	60	1915	36.02	na	4.07	64.53	18.47	12.89
111	2007	60	1930	36.05	na	4.873	63.67	15.28	12.87
111	2007	60	1945	36.04	na	4.151	59.62	17.72	12.85
111	2007	60	2000	36.06	na	4.215	68.74	17.7	12.83
111	2007	60	2015	36.2	na	5.211	48.36	14.77	12.85
111	2007	60	2030	36.44	na	5.408	60.34	14.38	12.84
111	2007	60	2045	36.72	na	5.002	53.91	16.04	12.83
111	2007	60	2100	37.09	na	5.388	45.68	16.24	12.82
111	2007	60	2115	37.39	na	5.358	47.59	18	12.83
111	2007	60	2130	37.61	na	5.779	49.98	16.28	12.82
111	2007	60	2145	37.64	na	8.2	55.11	14.18	12.82
111	2007	60	2200	37.56	na	7.07	51.65	16.35	12.81
111	2007	60	2215	37.9	na	6.773	61.69	15.67	12.81
111	2007	60	2230	38.19	na	9.61	60.73	15.44	12.81
111	2007	60	2245	38.31	na	10.37	61.54	15.07	12.81
111	2007	60	2300	38.43	na	9.49	68.86	15.77	12.79
111	2007	60	2315	38.52	na	10.68	65.33	16.73	12.8
111	2007	60	2330	38.54	na	10.88	69.07	17.2	12.8
111	2007	60	2345	38.59	na	9.92	62.59	17.8	12.79
111	2007	60	2400	38.7	na	9.52	59.6	19.04	12.78
111	2007	61	15	38.87	na	9.48	63.91	18.36	12.79
111	2007	61	30	39.06	na	9.68	67.7	18.49	12.79
111	2007	61	45	38.55	na	8.4	67.56	18.66	12.78
111	2007	61	100	38.34	na	8.27	61.75	18.22	12.77
111	2007	61	115	38.57	na	6.433	60.77	22.55	12.77
111	2007	61	130	38.67	na	8.82	54.31	15.99	12.77
111	2007	61	145	38.72	na	7.98	51.75	19.21	12.75
111	2007	61	200	38.93	na	8.23	46.88	17.01	12.75
111	2007	61	215	39.33	na	6.602	56.63	21.42	12.75
111	2007	61	230	39.78	na	8.46	56.81	15.15	12.75
111	2007	61	245	40.34	na	8.39	59.22	17.7	12.74
111	2007	61	300	41.04	na	8.55	65.53	14.99	12.73
111	2007	61	315	41.25	na	8.65	54.66	19.89	12.74
111	2007	61	330	41.63	na	7.79	49.65	22.1	12.73
111	2007	61	345	42.09	na	9.05	67.98	15.69	12.73
111	2007	61	400	42.42	na	9.3	73.5	18.88	12.72
111	2007	61	415	42.26	na	7.08	75.9	17.96	12.73
111	2007	61	430	42.28	na	6.137	87.2	21.91	12.73
111	2007	61	445	43.37	na	7.8	110.9	21.44	12.72
111	2007	61	500	44.51	na	9	116.1	21.07	12.71
111	2007	61	515	44.32	na	6.612	120.5	26.22	12.72
111	2007	61	530	44.12	na	6.565	94.1	21.05	12.71
111	2007	61	545	43.51	na	7.43	92	19.92	12.71
111	2007	61	600	43.4	na	7.05	88.5	16.14	12.71
111	2007	61	615	43.88	na	6.831	88.4	17.24	12.71
111	2007	61	630	44.38	na	6.708	78.5	19.94	12.71
111	2007	61	645	44.49	na	7.87	72.8	17.75	12.71
111	2007	61	700	45.21	na	8.87	72.1	17.02	12.69
111	2007	61	715	45.78	na	9.47	83.7	16.81	12.7
111	2007	61	730	45.37	na	9.6	81.3	16.37	12.7
111	2007	61	745	45.15	na	9.25	91.4	20.37	12.7
111	2007	61	800	45.81	na	8.54	83.3	18.86	12.68
111	2007	61	815	46.13	na	5.419	82.8	11.2	12.69
111	2007	61	830	46.42	na	na	na	na	12.68
111	2007	61	845	45.94	na	na	na	na	12.69
111	2007	61	900	45.05	na	na	na	na	12.68
111	2007	61	915	45.75	na	0.101	65.37	2.51	12.68
111	2007	61	930	46.22	na	11.86	91.5	17.11	12.68

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	61	945	46.33	na	12.55	91.8	23.2	12.68
111	2007	61	1000	46.5	na	12.77	103.1	22.78	12.66
111	2007	61	1015	47.06	na	11.01	126.5	25.1	12.68
111	2007	61	1030	47.18	na	10.52	128	17.43	12.68
111	2007	61	1045	47.13	na	10.14	133.3	21.61	12.68
111	2007	61	1100	48.05	na	11.52	131.4	20.69	12.69
111	2007	61	1115	49.07	na	9.56	162	24.04	12.68
111	2007	61	1130	48.83	na	9.8	200.4	30.59	12.68
111	2007	61	1145	48.89	na	8.54	175.9	23.45	12.68
111	2007	61	1200	48.47	na	7.85	179.1	28.49	12.66
111	2007	61	1215	48.85	na	7.88	179.9	24.76	12.68
111	2007	61	1230	48.48	na	7.41	176.7	24.93	12.68
111	2007	61	1245	47.95	na	6.396	189.1	23.37	12.68
111	2007	61	1300	47.66	na	7.62	192.6	22.54	12.7
111	2007	61	1315	47.9	na	7.18	189.6	25.24	12.78
111	2007	61	1330	47.89	na	7.39	183.4	19.97	12.72
111	2007	61	1345	47.68	na	7.79	184.9	25.4	12.88
111	2007	61	1400	47.59	na	8.36	191.4	23.46	13.17
111	2007	61	1415	47.33	na	9.89	193.8	21.86	13.22
111	2007	61	1430	46.97	na	9.16	202.1	22.67	13.66
111	2007	61	1445	48.88	na	7.48	210.4	17.04	13.45
111	2007	61	1500	50.07	na	4.799	207	22.63	13.15
111	2007	61	1515	51.2	na	4.404	235	33.72	13.62
111	2007	61	1530	54.44	na	7.77	259.8	26.06	13.59
111	2007	61	1545	56.66	na	11.54	262.8	26.68	13.57
111	2007	61	1600	56.99	na	10.63	251.1	24.45	13.56
111	2007	61	1615	56.67	na	10.45	249.2	32.67	13.56
111	2007	61	1630	56.28	na	10.02	249.8	28.29	13.56
111	2007	61	1645	56.26	na	8.63	256.2	25.71	13.56
111	2007	61	1700	55.98	na	10.38	252.9	23.19	13.55
111	2007	61	1715	55.99	na	9.41	258.4	24.04	13.56
111	2007	61	1730	56.08	na	8.17	246.5	26.05	13.56
111	2007	61	1745	56.12	na	7.54	241.2	27.33	13.57
111	2007	61	1800	55.69	na	8.43	246.3	26.75	13.57
111	2007	61	1815	55.39	na	7.72	246.6	23.42	13.59
111	2007	61	1830	54.85	na	7.06	241.5	20.45	13.21
111	2007	61	1845	54.2	na	5.954	239.1	25.44	13.08
111	2007	61	1900	53.53	na	4.185	232.9	21.9	13.02
111	2007	61	1915	52.67	na	3.255	230.4	24.54	12.99
111	2007	61	1930	51.92	na	3.547	210.5	15.57	12.97
111	2007	61	1945	51.21	na	3.183	206.7	18.21	12.95
111	2007	61	2000	50.09	na	2.279	188.3	19.86	12.92
111	2007	61	2015	48.02	na	1.895	186.8	19.58	12.91
111	2007	61	2030	45.95	na	2.409	188.5	19.36	12.9
111	2007	61	2045	45.25	na	2.38	207	18.6	12.89
111	2007	61	2100	45.01	na	2.43	215.8	15.83	12.87
111	2007	61	2115	46.14	na	1.258	248	19.93	12.85
111	2007	61	2130	44.66	na	0.767	226.7	18.97	12.85
111	2007	61	2145	41.8	na	0.029	220.5	2.09	12.84
111	2007	61	2200	40.31	na	0.928	198.2	17.86	12.81
111	2007	61	2215	39.09	na	1.131	207.9	18.4	12.81
111	2007	61	2230	38.09	na	1.073	223.7	15.63	12.81
111	2007	61	2245	37.17	na	1.099	220.4	25.57	12.8
111	2007	61	2300	36.58	na	0.801	237.8	17.54	12.78
111	2007	61	2315	36.59	na	0.242	291.8	4.826	12.78
111	2007	61	2330	35.42	na	na	na	na	12.77
111	2007	61	2345	34.54	na	0.271	254.3	3.262	12.78
111	2007	61	2400	34.27	na	0.38	223.8	6.79	12.73
111	2007	62	15	34.33	na	0.676	216	12.13	12.74
111	2007	62	30	33.84	na	0.527	211	8.56	12.73

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	62	45	34.01	na	0.049	208	3.918	12.72
111	2007	62	100	33.79	na	0.009	248	0.008	12.7
111	2007	62	115	33.24	na	na	na	na	12.71
111	2007	62	130	33.79	na	0.628	317.4	8.08	12.7
111	2007	62	145	33.64	na	0.382	317.9	7.52	12.7
111	2007	62	200	33.05	na	0.391	315.3	6.01	12.68
111	2007	62	215	32.49	na	0.26	290.4	4.886	12.68
111	2007	62	230	31.98	na	0.697	303.4	9.27	12.7
111	2007	62	245	31.52	na	0.71	293.4	9.76	12.67
111	2007	62	300	31.17	na	0.845	321.4	12.44	12.66
111	2007	62	315	30.85	na	0.067	320	1.293	12.66
111	2007	62	330	30.37	na	0.731	294.6	8.17	12.66
111	2007	62	345	30.62	na	1.345	268.3	73	12.65
111	2007	62	400	30.2	na	0.118	309.1	0.939	12.63
111	2007	62	415	30.17	na	1.188	315.6	7.42	12.64
111	2007	62	430	29.99	na	0.517	336.6	13.69	12.62
111	2007	62	445	29.8	na	1.539	167.4	66.39	12.64
111	2007	62	500	29.31	na	0.092	217.3	5.045	12.6
111	2007	62	515	29.61	na	0.721	311.6	6.639	12.61
111	2007	62	530	29.59	na	0.855	343.5	28.02	12.6
111	2007	62	545	29.35	na	0.668	4.027	31.64	12.6
111	2007	62	600	29.3	na	0.429	311.8	8.33	12.58
111	2007	62	615	29.18	na	0.886	310.3	13.12	12.58
111	2007	62	630	28.96	na	0.253	328.6	3.249	12.58
111	2007	62	645	28.59	na	0.711	346.7	54.26	12.58
111	2007	62	700	28.82	na	1.23	217.6	65.17	12.55
111	2007	62	715	28.46	na	0.202	250.2	24.01	12.57
111	2007	62	730	28.37	na	0.591	329.5	22.53	12.56
111	2007	62	745	28.38	na	0.394	313.5	4.341	12.56
111	2007	62	800	28.36	na	0.079	330	1.338	12.54
111	2007	62	815	29.85	na	0.586	333.5	7.63	12.66
111	2007	62	830	33.03	na	0.235	346.2	2.098	13.04
111	2007	62	845	36.6	na	na	na	na	13.97
111	2007	62	900	39.2	na	1.075	30.11	14.7	13.92
111	2007	62	915	40.63	na	1.716	80.3	53.27	13.9
111	2007	62	930	42.02	na	3.525	131.3	22.49	13.86
111	2007	62	945	42.23	na	3.406	123.5	21.96	13.84
111	2007	62	1000	43.79	na	2.204	91.6	34.18	13.8
111	2007	62	1015	45.61	na	2.649	93.8	23.32	13.77
111	2007	62	1030	46.68	na	3.883	110.5	23.16	13.75
111	2007	62	1045	46.84	na	4.179	99.2	24.03	13.72
111	2007	62	1100	47.02	na	4.72	112.6	26.22	13.7
111	2007	62	1115	47.26	na	4.344	116.9	23.17	13.69
111	2007	62	1130	48.25	na	4.257	103.7	24.33	13.68
111	2007	62	1145	48.62	na	4.463	123	22.08	13.66
111	2007	62	1200	49.13	na	5.841	136.3	27.07	13.64
111	2007	62	1215	49.72	na	5.549	146.7	23.19	13.64
111	2007	62	1230	49.55	na	5.406	145.1	22.12	13.64
111	2007	62	1245	50.71	na	5.082	139.4	27.23	13.64
111	2007	62	1300	49.56	na	7.32	133.7	20.47	13.64
111	2007	62	1315	48.25	na	5.364	132.8	27.97	13.65
111	2007	62	1330	48.58	na	5.392	125.4	24.57	13.66
111	2007	62	1345	48.15	na	7.13	170.1	29.76	13.67
111	2007	62	1400	48.72	na	8.17	183.3	23.4	13.67
111	2007	62	1415	48.67	na	7.45	175.2	22.38	13.67
111	2007	62	1430	49.54	na	7.4	184.5	25.02	13.66
111	2007	62	1445	49.57	na	7.65	181.4	21.15	13.66
111	2007	62	1500	49.71	na	7.17	177.6	23.65	13.64
111	2007	62	1515	48.68	na	7.02	186.3	20.78	13.65
111	2007	62	1530	48.97	na	6.278	179.2	17.6	13.66

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	62	1545	48.92	na	5.62	181.7	23.51	13.66
111	2007	62	1600	48.85	na	6.368	176.7	22.29	13.64
111	2007	62	1615	49.5	na	5.92	188.7	21.01	13.65
111	2007	62	1630	50.06	na	7.81	253.4	52.05	13.64
111	2007	62	1645	49.42	na	11.78	293.4	23.43	13.64
111	2007	62	1700	47.4	na	10.87	290.8	25.08	13.65
111	2007	62	1715	46.11	na	8.09	278.1	31.78	13.18
111	2007	62	1730	45.36	na	7.77	273.7	31.98	13.44
111	2007	62	1745	45.47	na	8.14	274.2	33.79	13.7
111	2007	62	1800	45.63	na	8.05	265	30.04	13.7
111	2007	62	1815	45.65	na	7.26	264.9	26.1	13.71
111	2007	62	1830	45.46	na	5.284	261.9	30.17	13.15
111	2007	62	1845	45.11	na	3.384	271.8	25.33	13.05
111	2007	62	1900	44.73	na	2.201	262.9	24.12	12.99
111	2007	62	1915	44.32	na	2.054	264.2	21.16	12.96
111	2007	62	1930	43.74	na	1.83	293.3	23.65	12.93
111	2007	62	1945	43.03	na	1.712	201.7	29.84	12.9
111	2007	62	2000	41.5	na	1.879	180.1	23.67	12.87
111	2007	62	2015	41.28	na	1.742	250.3	20.61	12.87
111	2007	62	2030	41.26	na	1.901	229.1	40.8	12.85
111	2007	62	2045	39.99	na	1.431	195.5	25.14	12.87
111	2007	62	2100	39.37	na	1.919	204.9	17.4	12.83
111	2007	62	2115	38.87	na	0.796	213.3	26.1	12.82
111	2007	62	2130	38.43	na	1.145	186.5	19.27	12.81
111	2007	62	2145	37.92	na	1.539	237	21.76	12.81
111	2007	62	2200	38.17	na	1.55	245.4	15.82	12.79
111	2007	62	2215	37.64	na	1.384	237.4	37.04	12.79
111	2007	62	2230	38.09	na	1.691	256.4	24.52	12.78
111	2007	62	2245	40.19	na	4.235	244.8	22.8	12.78
111	2007	62	2300	41.8	na	4.487	253.2	24.83	12.77
111	2007	62	2315	42.45	na	5.131	247.4	25.78	12.78
111	2007	62	2330	42.64	na	4.605	247.1	22.42	12.78
111	2007	62	2345	42.5	na	6.076	238.5	24.32	12.78
111	2007	62	2400	42.42	na	6.113	236.3	25.12	12.77
111	2007	63	15	42.27	na	5.851	230.1	23.89	12.78
111	2007	63	30	42.1	na	7.72	228.2	22.5	12.78
111	2007	63	45	41.98	na	7.71	246.6	31.91	12.78
111	2007	63	100	41.39	na	8.29	244.7	26.85	12.77
111	2007	63	115	40.91	na	6.652	247.3	23.52	12.77
111	2007	63	130	40.48	na	6.242	253.1	25.87	12.77
111	2007	63	145	40	na	6.551	254.8	24.24	12.77
111	2007	63	200	39.6	na	6.485	251.5	24.36	12.75
111	2007	63	215	39.13	na	5.39	244.4	23.53	12.76
111	2007	63	230	38.55	na	4.921	248.1	25.08	12.75
111	2007	63	245	38.04	na	4.096	246.5	21	12.75
111	2007	63	300	37.21	na	3.583	282.2	22.27	12.73
111	2007	63	315	36.82	na	5.344	263.1	27.66	12.73
111	2007	63	330	36.48	na	5.761	264.8	29.2	12.73
111	2007	63	345	36.08	na	6.266	264.3	25.8	12.72
111	2007	63	400	35.73	na	4.863	255	24.03	12.7
111	2007	63	415	35.41	na	4.831	269.4	26.06	12.71
111	2007	63	430	35.04	na	5.394	268.4	27.57	12.7
111	2007	63	445	34.78	na	5.123	261.5	26.08	12.7
111	2007	63	500	34.5	na	4.239	261.7	25.01	12.68
111	2007	63	515	34.06	na	4.038	260.1	23.8	12.68
111	2007	63	530	33.93	na	5.119	254.8	27.88	12.68
111	2007	63	545	33.69	na	4.839	257.4	26.02	12.67
111	2007	63	600	33.42	na	4.285	251.7	26.28	12.65
111	2007	63	615	33.16	na	4.473	262.5	25.64	12.64
111	2007	63	630	33.22	na	5.251	265.7	22.82	12.64

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	63	645	32.91	na	4.161	266.5	30.82	12.64
111	2007	63	700	32.69	na	4.77	264.3	26.57	12.62
111	2007	63	715	32.61	na	3.746	278.2	31.22	12.62
111	2007	63	730	32.41	na	3.398	257.9	23.64	12.62
111	2007	63	745	32.23	na	2.666	243.2	23.67	12.62
111	2007	63	800	32.52	na	3.376	231.2	28.53	12.6
111	2007	63	815	33.18	na	3.559	223	17.86	12.69
111	2007	63	830	33.9	na	4.543	231.1	24.97	13.02
111	2007	63	845	34.44	na	4.4	244.7	26.17	13.92
111	2007	63	900	35.13	na	4.622	249.4	28.69	13.9
111	2007	63	915	35.47	na	6.312	243.4	28.37	13.89
111	2007	63	930	36.08	na	5.815	241.4	33.31	13.87
111	2007	63	945	36.36	na	6.906	238.8	29.14	13.86
111	2007	63	1000	36.77	na	7.99	234.7	29.73	13.83
111	2007	63	1015	36.83	na	6.342	240	28.3	13.85
111	2007	63	1030	37.7	na	7.03	229.7	25.78	13.83
111	2007	63	1045	37.49	na	7.45	239.6	25.24	13.82
111	2007	63	1100	37.77	na	7.72	237.9	25.36	13.81
111	2007	63	1115	36.83	na	7.96	254	34.01	13.83
111	2007	63	1130	36.87	na	6.467	266.3	33.99	13.82
111	2007	63	1145	36.8	na	8.23	259.3	30.28	13.82
111	2007	63	1200	36.44	na	7.24	256.6	29.77	13.82
111	2007	63	1215	36.09	na	8.64	257.8	31.26	13.84
111	2007	63	1230	35.96	na	6.753	258.2	31.2	13.84
111	2007	63	1245	35.52	na	9.48	274.2	30.82	13.85
111	2007	63	1300	35.51	na	7.02	262.3	34.91	13.84
111	2007	63	1315	35.84	na	8.83	249.8	31.58	13.84
111	2007	63	1330	36.34	na	9.74	244.3	31.07	13.83
111	2007	63	1345	36.33	na	10.89	250.4	28.6	13.85
111	2007	63	1400	35.76	na	8.6	259.9	26.39	13.85
111	2007	63	1415	36.37	na	8.51	240.9	26.09	13.85
111	2007	63	1430	36.62	na	9.44	255.6	35.57	13.85
111	2007	63	1445	35.86	na	8.81	282.8	29.16	13.85
111	2007	63	1500	36.04	na	8.11	270.1	33.77	13.84
111	2007	63	1515	35.53	na	8.82	258	31.73	13.85
111	2007	63	1530	36.19	na	7.9	243.6	31.93	13.85
111	2007	63	1545	36.85	na	7.2	271	31.25	13.85
111	2007	63	1600	36.71	na	9.72	254.7	34.15	13.85
111	2007	63	1615	36.64	na	8.86	252.7	28.29	13.86
111	2007	63	1630	36.64	na	9.32	253	26.65	13.86
111	2007	63	1645	36.68	na	8.59	241.7	28.95	13.86
111	2007	63	1700	36.84	na	9.66	243.8	30.94	13.85
111	2007	63	1715	36.59	na	9.1	262.6	31.55	13.87
111	2007	63	1730	36.5	na	8.77	261.2	29.13	13.59
111	2007	63	1745	36.36	na	8.25	261.1	28.14	13.23
111	2007	63	1800	36.04	na	8.5	261.9	28.31	13.07
111	2007	63	1815	35.93	na	8.15	256.8	30.36	13.03
111	2007	63	1830	35.88	na	7.54	262.9	37.42	12.99
111	2007	63	1845	35.76	na	7.1	256.2	27.18	12.95
111	2007	63	1900	35.58	na	7.29	253.4	28.17	12.91
111	2007	63	1915	35.52	na	7.74	252.3	26.87	12.89
111	2007	63	1930	35.08	na	7.11	265.1	27.61	12.87
111	2007	63	1945	34.75	na	6.177	259	25.33	12.86
111	2007	63	2000	34.61	na	7.25	255.8	25.63	12.84
111	2007	63	2015	34.6	na	8.12	247.9	29.67	12.84
111	2007	63	2030	34.26	na	7.45	250.8	25.94	12.82
111	2007	63	2045	33.92	na	6.769	257.2	26.24	12.82
111	2007	63	2100	33.71	na	7.27	243.3	22.42	12.8
111	2007	63	2115	33.57	na	7.5	245.7	29.36	12.8
111	2007	63	2130	33.52	na	8.07	249.2	27.89	12.8

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	63	2145	33.3	na	7.02	253.5	29.29	12.79
111	2007	63	2200	33.09	na	8.62	257.4	29.72	12.78
111	2007	63	2215	32.9	na	8.91	256.6	29.71	12.78
111	2007	63	2230	32.63	na	7.94	261.9	26.91	12.78
111	2007	63	2245	32.46	na	7.56	263	35.01	12.77
111	2007	63	2300	32.32	na	8.13	255.3	29.51	12.75
111	2007	63	2315	32.28	na	9.39	254.6	33.48	12.76
111	2007	63	2330	32.12	na	8.1	262.7	28.06	12.75
111	2007	63	2345	31.95	na	6.847	269.3	30.29	12.75
111	2007	63	2400	31.95	na	6.908	266.5	28.26	12.73
111	2007	64	15	32.02	na	7.53	261.8	32.07	12.73
111	2007	64	30	31.92	na	6.789	280	33.23	12.74
111	2007	64	45	31.79	na	6.922	266	27.71	12.73
111	2007	64	100	31.64	na	7.43	268.5	30.42	12.71
111	2007	64	115	31.46	na	8.07	276.2	29.43	12.72
111	2007	64	130	31.3	na	9.06	274.7	30.27	12.72
111	2007	64	145	31.16	na	7.88	265.3	33.53	12.7
111	2007	64	200	31.06	na	7.2	272.9	32.73	12.69
111	2007	64	215	31.03	na	6.751	272.1	32.41	12.7
111	2007	64	230	30.97	na	6.211	263.5	28.53	12.69
111	2007	64	245	30.81	na	6.111	252.9	22.9	12.68
111	2007	64	300	30.73	na	6.847	256.3	26.68	12.66
111	2007	64	315	30.67	na	5.779	246.6	33.8	12.67
111	2007	64	330	30.56	na	6.161	240.7	20.08	12.66
111	2007	64	345	30.4	na	6.109	250.8	23.97	12.65
111	2007	64	400	30.29	na	5.179	246.8	29.28	12.64
111	2007	64	415	30.12	na	5.165	240.7	21.91	12.64
111	2007	64	430	30.17	na	5.863	241.2	24.76	12.63
111	2007	64	445	29.94	na	4.746	229.8	22.71	12.62
111	2007	64	500	29.66	na	4.424	222.6	25.42	12.6
111	2007	64	515	29.63	na	5.638	222.1	21.86	12.61
111	2007	64	530	29.59	na	5.575	224.2	21.92	12.6
111	2007	64	545	29.44	na	5.161	223	24.73	12.6
111	2007	64	600	29.43	na	5.41	218.6	21.79	12.58
111	2007	64	615	29.33	na	4.589	234.5	23.79	12.58
111	2007	64	630	29.07	na	4.609	207.6	23.18	12.58
111	2007	64	645	28.41	na	4.259	200.5	21.29	12.58
111	2007	64	700	28.18	na	3.867	188.7	20.48	12.56
111	2007	64	715	28.11	na	4.565	198.6	19.68	12.56
111	2007	64	730	28.34	na	5.177	210	21.17	12.56
111	2007	64	745	29.02	na	6.469	216.3	20.05	12.56
111	2007	64	800	29.46	na	7.11	218	18.44	12.56
111	2007	64	815	29.91	na	7.74	210.4	19.45	12.7
111	2007	64	830	30.26	na	8.36	211.4	15.81	12.88
111	2007	64	845	30.46	na	8.16	215.1	21.09	13.12
111	2007	64	900	30.62	na	8.65	226.8	22.82	13.32
111	2007	64	915	30.89	na	10.52	231.5	29	13.98
111	2007	64	930	31.06	na	9.49	226.7	24.08	13.77
111	2007	64	945	30.2	na	10.09	216.3	23.93	13.96
111	2007	64	1000	31.48	na	8.99	224	26.86	13.94
111	2007	64	1015	32.56	na	10.71	223.1	23.28	13.92
111	2007	64	1030	33.29	na	11.57	215.2	25.59	13.91
111	2007	64	1045	33.08	na	12.39	220.1	20.76	13.91
111	2007	64	1100	33.68	na	11.8	213.8	19.91	13.9
111	2007	64	1115	33.62	na	10.22	226.9	23.48	13.9
111	2007	64	1130	33.95	na	10.22	220.7	27.47	13.89
111	2007	64	1145	34.09	na	10.05	214.4	25.51	13.89
111	2007	64	1200	34	na	11.06	220.7	25.07	13.88
111	2007	64	1215	34.91	na	9.98	226.7	27.06	13.88
111	2007	64	1230	35.95	na	10.12	233	30.49	13.87

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	64	1245	36.21	na	12.54	239.7	29.19	13.86
111	2007	64	1300	37.45	na	13.08	228.8	36.5	13.84
111	2007	64	1315	38.13	na	12.76	239.9	28.24	13.85
111	2007	64	1330	38.35	na	12.28	230.7	32.72	13.84
111	2007	64	1345	37.38	na	12.96	247.4	31.52	13.85
111	2007	64	1400	37.88	na	10.12	244.7	27.39	13.84
111	2007	64	1415	38.41	na	11.11	236.7	27.55	13.84
111	2007	64	1430	39.06	na	12.09	231.3	26.01	13.83
111	2007	64	1445	39.74	na	12.12	220.7	27.94	13.81
111	2007	64	1500	39.24	na	13.63	211.6	24.61	13.81
111	2007	64	1515	39.28	na	11.8	227.7	31.4	13.81
111	2007	64	1530	38.86	na	10.84	226.4	26.1	13.82
111	2007	64	1545	39.23	na	12.62	230.3	27.81	13.83
111	2007	64	1600	37.88	na	10.53	241.1	25.95	13.23
111	2007	64	1615	37.17	na	10.31	229.6	40.35	13.16
111	2007	64	1630	34.78	na	10.79	231.1	28.5	13.85
111	2007	64	1645	34.04	na	8	258.4	31.01	13.87
111	2007	64	1700	33.35	na	7.38	259.6	33.98	13.7
111	2007	64	1715	34.12	na	6.827	260	26.1	13.89
111	2007	64	1730	34.64	na	10.79	240.6	25.58	13.09
111	2007	64	1745	34.08	na	9.69	245.7	28.77	13.88
111	2007	64	1800	33.28	na	9.64	243.4	30.2	13.9
111	2007	64	1815	33.33	na	10.37	241	26.87	13.11
111	2007	64	1830	33.44	na	8.23	244	30.04	13.03
111	2007	64	1845	33.76	na	7.91	247.1	30.43	12.98
111	2007	64	1900	34.13	na	8.29	246.6	29.36	12.93
111	2007	64	1915	34.35	na	12.18	260.3	34.39	12.91
111	2007	64	1930	34.34	na	9.95	240.7	24.51	12.88
111	2007	64	1945	34.02	na	9.18	260.5	29.4	12.87
111	2007	64	2000	33.09	na	11.92	256.5	35.56	12.85
111	2007	64	2015	32.48	na	11.6	252.8	28.99	12.84
111	2007	64	2030	32.05	na	9.73	268.1	28.73	12.83
111	2007	64	2045	31.6	na	8.99	267.9	33.63	12.82
111	2007	64	2100	31.07	na	9.66	260.2	34.4	12.8
111	2007	64	2115	30.39	na	9.16	277.2	27.23	12.8
111	2007	64	2130	29.44	na	11.25	267.7	34.59	12.79
111	2007	64	2145	28.77	na	11.11	257	30.8	12.78
111	2007	64	2200	27.88	na	12.95	264.6	32.97	12.76
111	2007	64	2215	27.01	na	11.27	258.4	27.27	12.76
111	2007	64	2230	26.27	na	13.32	252.7	34.34	12.76
111	2007	64	2245	25.67	na	11.42	269.1	33.7	12.76
111	2007	64	2300	25.21	na	11.24	263.9	34.08	12.72
111	2007	64	2315	24.49	na	13.22	274.5	28.33	12.73
111	2007	64	2330	23.86	na	10.09	261.1	27.83	12.72
111	2007	64	2345	23.67	na	11.36	271	35.12	12.72
111	2007	64	2400	23.15	na	11.22	287.1	29.29	12.7
111	2007	65	15	22.39	na	9.99	286.3	26.23	12.7
111	2007	65	30	21.5	na	11.38	286	30.71	12.69
111	2007	65	45	21.04	na	12.63	285.9	25.76	12.69
111	2007	65	100	20.73	na	11.63	283.3	28.37	12.67
111	2007	65	115	20.66	na	10.93	282.7	33.56	12.67
111	2007	65	130	20.36	na	10.72	266.5	28.68	12.65
111	2007	65	145	19.99	na	12.13	279.3	25.04	12.65
111	2007	65	200	19.68	na	10.99	276.7	27.88	12.62
111	2007	65	215	19.45	na	9.77	274.6	31.92	12.63
111	2007	65	230	19.44	na	12.2	272.9	28.25	12.62
111	2007	65	245	19.29	na	12.27	279.7	31.42	12.61
111	2007	65	300	19.24	na	11.62	278.4	29.34	12.59
111	2007	65	315	18.99	na	10.51	270.4	28.63	12.59
111	2007	65	330	18.72	na	9.8	267.2	29.76	12.59

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	65	345	18.57	na	12.56	273.9	26.26	12.58
111	2007	65	400	18.36	na	9.73	281.3	32.46	12.55
111	2007	65	415	17.54	na	10.83	285.5	27.8	12.56
111	2007	65	430	17	na	12.2	267	29.75	12.55
111	2007	65	445	16.5	na	11.83	268.9	34.65	12.55
111	2007	65	500	16.14	na	11.86	272	32.21	12.52
111	2007	65	515	15.7	na	11.86	260.2	25.66	12.52
111	2007	65	530	15.26	na	12.98	257.8	29.51	12.52
111	2007	65	545	14.98	na	11.86	269.3	23.75	12.51
111	2007	65	600	14.68	na	12.35	267.6	28.44	12.49
111	2007	65	615	14.29	na	11.88	270.7	27.13	12.5
111	2007	65	630	13.64	na	13.44	265.7	28.92	12.49
111	2007	65	645	13.2	na	11.92	271.6	30.04	12.48
111	2007	65	700	13.03	na	10.19	269.6	29.18	12.46
111	2007	65	715	12.64	na	11.61	271.9	32.59	12.47
111	2007	65	730	12.23	na	12.59	265.8	31.43	12.46
111	2007	65	745	11.84	na	12.79	274.4	26.37	12.46
111	2007	65	800	11.99	na	9.13	272	35.6	12.45
111	2007	65	815	11.75	na	13.74	276.1	29.73	12.59
111	2007	65	830	11.74	na	11.48	291.3	28.74	13.36
111	2007	65	845	11.85	na	12.21	276.1	29.76	14.24
111	2007	65	900	12.02	na	10.21	276.9	31.23	14.23
111	2007	65	915	12.09	na	9.58	277.5	30.19	14.22
111	2007	65	930	12.25	na	11.81	290.1	32.65	14.21
111	2007	65	945	12.16	na	12.9	288.3	26.56	14.21
111	2007	65	1000	12.66	na	11.07	300.2	24.04	14.2
111	2007	65	1015	12.41	na	12.98	285.6	30.09	14.19
111	2007	65	1030	12.07	na	13.82	284.7	30.77	14.2
111	2007	65	1045	12.28	na	12.56	278	32.34	14.2
111	2007	65	1100	12.11	na	13.7	279.5	29.51	14.19
111	2007	65	1115	12.47	na	12.25	271.4	29.09	14.19
111	2007	65	1130	13.14	na	10.95	275.3	28.76	14.18
111	2007	65	1145	13.18	na	15.51	301.2	27.84	14.18
111	2007	65	1200	13.36	na	13.68	288.1	29.62	14.17
111	2007	65	1215	13.74	na	12.38	277.2	26.33	14.18
111	2007	65	1230	14.21	na	13.16	276.6	26.87	14.18
111	2007	65	1245	14.65	na	12.35	263.5	26.13	14.17
111	2007	65	1300	14.88	na	12.28	269.8	28.44	14.18
111	2007	65	1315	15.33	na	11.14	279.6	29.78	14.18
111	2007	65	1330	16.03	na	11.64	260.2	30.43	14.19
111	2007	65	1345	15.84	na	13.19	282.6	30.22	14.19
111	2007	65	1400	16.14	na	13.01	282.8	32.71	14.18
111	2007	65	1415	16.54	na	12.88	276.3	26.28	14.18
111	2007	65	1430	17.19	na	12.48	302.9	27.44	14.17
111	2007	65	1445	17.39	na	12.04	281.8	30.47	14.17
111	2007	65	1500	17.58	na	12.57	287	29.36	14.15
111	2007	65	1515	18.02	na	12.37	285.5	34.02	14.14
111	2007	65	1530	17.87	na	13.19	284	31.12	14.13
111	2007	65	1545	18.13	na	12.41	284.8	27.45	14.13
111	2007	65	1600	18.44	na	10.97	290.2	30.58	14.12
111	2007	65	1615	18.82	na	11.1	274.8	33.74	14.12
111	2007	65	1630	18.67	na	10.6	269.1	28.88	14.12
111	2007	65	1645	18.5	na	11.06	277.4	29.89	14.13
111	2007	65	1700	18.69	na	10.23	276.6	30.65	14.12
111	2007	65	1715	18.73	na	10.03	281.4	24.07	14.13
111	2007	65	1730	18.56	na	10.42	270	37.44	14.13
111	2007	65	1745	18.46	na	10.13	273.4	31.29	14.14
111	2007	65	1800	18.03	na	10.34	271.2	36.72	14.15
111	2007	65	1815	17.81	na	9.55	278.6	27.32	14.15
111	2007	65	1830	17.38	na	9.41	274.8	30.73	13.3

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	65	1845	17.06	na	9.15	283	27.53	13.21
111	2007	65	1900	16.84	na	8.67	276.8	30.42	13.09
111	2007	65	1915	16.68	na	8.9	271.3	28.33	13.02
111	2007	65	1930	16.33	na	8.79	278.9	27.92	12.96
111	2007	65	1945	15.96	na	7.74	272.2	27.63	12.91
111	2007	65	2000	15.66	na	7.88	273.1	28.94	12.86
111	2007	65	2015	15.52	na	7.33	272.5	30.7	12.83
111	2007	65	2030	15.27	na	5.3	280.2	25.02	12.82
111	2007	65	2045	14.99	na	6.292	278.2	26.19	12.8
111	2007	65	2100	14.7	na	6.068	276.4	27.12	12.76
111	2007	65	2115	14.38	na	5.827	271.7	27.05	12.76
111	2007	65	2130	14.08	na	5.686	270.2	33.17	12.75
111	2007	65	2145	13.86	na	6.926	274.4	29	12.74
111	2007	65	2200	13.58	na	6.918	266.9	27.37	12.72
111	2007	65	2215	13.16	na	7.27	264.5	30.5	12.72
111	2007	65	2230	12.84	na	7.39	270	27.27	12.7
111	2007	65	2245	12.49	na	7.12	268.7	26.09	12.68
111	2007	65	2300	12.21	na	5.807	275.5	30.62	12.67
111	2007	65	2315	12.05	na	5.111	271.9	25.27	12.67
111	2007	65	2330	11.88	na	5.567	261.9	28.07	12.66
111	2007	65	2345	11.68	na	6.348	277.4	24.88	12.65
111	2007	65	2400	11.46	na	4.451	281.4	29.41	12.63
111	2007	66	15	11.3	na	4.507	274.1	34.2	12.62
111	2007	66	30	11.13	na	4.541	268.7	27.56	12.62
111	2007	66	45	10.92	na	2.767	264.3	28.45	12.61
111	2007	66	100	10.81	na	3.495	271	29.13	12.59
111	2007	66	115	10.75	na	3.664	289.9	22.86	12.59
111	2007	66	130	10.56	na	3.74	277.4	25.13	12.58
111	2007	66	145	10.4	na	3.579	275.4	29.93	12.57
111	2007	66	200	10.31	na	3.265	268.2	28.27	12.54
111	2007	66	215	10.28	na	3.054	270.7	29.29	12.56
111	2007	66	230	10.24	na	3.279	276.9	25.11	12.54
111	2007	66	245	10.28	na	3.183	282.9	26.48	12.52
111	2007	66	300	10.38	na	3.8	277.9	25.94	12.5
111	2007	66	315	10.58	na	4.408	282.1	24.47	12.51
111	2007	66	330	10.7	na	4.698	280.7	26.43	12.5
111	2007	66	345	10.84	na	4.112	277.1	29.62	12.49
111	2007	66	400	10.9	na	4.432	278.9	25.9	12.47
111	2007	66	415	10.98	na	4.473	270.5	27.95	12.48
111	2007	66	430	10.99	na	3.764	276.2	28.23	12.48
111	2007	66	445	10.96	na	4.38	266.6	29.16	12.47
111	2007	66	500	11.09	na	4.104	273.8	28.01	12.44
111	2007	66	515	11.21	na	4.533	291.3	25.58	12.46
111	2007	66	530	11.38	na	3.75	305	19.39	12.46
111	2007	66	545	11.4	na	5.02	308	21.5	12.46
111	2007	66	600	11.41	na	4.752	310.8	21.5	12.44
111	2007	66	615	11.56	na	3.859	322.6	20.19	12.45
111	2007	66	630	11.68	na	4.239	307.7	25.03	12.45
111	2007	66	645	11.68	na	3.372	307.4	26.95	12.45
111	2007	66	700	11.7	na	2.792	262	25.63	12.44
111	2007	66	715	11.55	na	1.816	282.2	31.85	12.45
111	2007	66	730	11.31	na	1.296	243.5	44.82	12.44
111	2007	66	745	11.03	na	2.217	253.3	37.26	12.44
111	2007	66	800	10.92	na	2.127	233.1	36.05	12.43
111	2007	66	815	10.98	na	1.719	185.4	26.46	12.44
111	2007	66	830	11.09	na	2.824	147.8	31.84	12.44
111	2007	66	845	11.23	na	1.891	157.7	37.57	12.46
111	2007	66	900	11.36	na	2.463	151.4	25.88	12.46
111	2007	66	915	11.72	na	2.448	177.7	29.28	12.48
111	2007	66	930	11.97	na	2.802	184.3	25.03	12.48

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	66	945	12.24	na	2.753	195.2	29.38	12.47
111	2007	66	1000	12.31	na	2.388	262.4	54.21	12.46
111	2007	66	1015	12.59	na	0.44	283.7	58.76	12.51
111	2007	66	1030	13.04	na	1.647	321	30.66	12.54
111	2007	66	1045	13.1	na	2.196	317.6	20.44	12.58
111	2007	66	1100	13.44	na	1.844	294.7	38.69	12.64
111	2007	66	1115	13.63	na	2.76	344.2	34.54	12.73
111	2007	66	1130	14.07	na	1.946	319.1	33.86	12.93
111	2007	66	1145	14.48	na	2.687	292.3	43.37	13.01
111	2007	66	1200	14.95	na	1.787	282.9	55.98	13.08
111	2007	66	1215	15.64	na	2.939	252.5	37.49	13.23
111	2007	66	1230	15.79	na	2.971	246	39.61	13.44
111	2007	66	1245	16.29	na	3.543	269.5	43.02	13.62
111	2007	66	1300	16.74	na	2.961	259.8	34.46	13.61
111	2007	66	1315	17.09	na	3.452	228.5	32.97	13.71
111	2007	66	1330	17.54	na	4.153	210.9	24.78	13.73
111	2007	66	1345	17.86	na	3.984	214.2	27.61	13.69
111	2007	66	1400	18.12	na	2.608	230	46.62	13.56
111	2007	66	1415	17.74	na	3.386	148.3	34.05	13.51
111	2007	66	1430	17.86	na	3.561	147	35.3	13.61
111	2007	66	1445	17.87	na	2.733	133	35.72	13.68
111	2007	66	1500	18.25	na	3.096	144.2	46.71	13.73
111	2007	66	1515	18.75	na	2.471	146.6	59.91	13.63
111	2007	66	1530	18.14	na	3.394	106.4	35.49	13.6
111	2007	66	1545	18.64	na	2.425	117.6	32.72	14.09
111	2007	66	1600	19.44	na	1.428	62.58	50.84	14.07
111	2007	66	1615	19.58	na	1.765	91.7	36.92	13.74
111	2007	66	1630	19.78	na	1.874	70	69.21	13.55
111	2007	66	1645	19.85	na	2.744	26.91	50.06	13.36
111	2007	66	1700	20	na	4.006	351.1	33.12	13.41
111	2007	66	1715	20.26	na	3.412	351.6	30.39	13.33
111	2007	66	1730	20.17	na	3.454	2.541	22.62	13.18
111	2007	66	1745	20.29	na	3.096	330.6	28.2	13.08
111	2007	66	1800	20.71	na	3.146	298.9	32.7	12.99
111	2007	66	1815	20.54	na	3.988	267.2	30.57	12.95
111	2007	66	1830	20.29	na	3.485	292.8	32.33	12.91
111	2007	66	1845	20.04	na	3.007	275	32.43	12.88
111	2007	66	1900	19.82	na	2.366	278.2	29.55	12.85
111	2007	66	1915	19.54	na	2.526	261.7	18.92	12.83
111	2007	66	1930	19.15	na	2.231	281.7	23.27	12.81
111	2007	66	1945	18.76	na	1.737	288.3	21.3	12.79
111	2007	66	2000	18.51	na	2.213	293.2	15.75	12.75
111	2007	66	2015	18.22	na	1.281	261.7	21.45	12.75
111	2007	66	2030	17.89	na	0.583	261.7	12.93	12.73
111	2007	66	2045	17.52	na	0.648	265	13.66	12.72
111	2007	66	2100	17.01	na	0.69	238.8	14.28	12.68
111	2007	66	2115	16.4	na	1.423	225.2	15.58	12.68
111	2007	66	2130	15.62	na	1.577	216.6	14.46	12.66
111	2007	66	2145	15.25	na	0.907	234.2	15.18	12.65
111	2007	66	2200	15.07	na	1.168	241.7	15.5	12.62
111	2007	66	2215	15.18	na	1.091	251.9	11.96	12.61
111	2007	66	2230	15.12	na	0.937	245.1	8.83	12.6
111	2007	66	2245	14.87	na	0.748	259.5	8.03	12.58
111	2007	66	2300	14.95	na	1.256	248.8	9.37	12.55
111	2007	66	2315	14.93	na	1.143	265.2	17.27	12.54
111	2007	66	2330	15.29	na	1.022	269.7	14.06	12.52
111	2007	66	2345	15.26	na	1.917	260.9	14.23	12.52
111	2007	66	2400	15.41	na	2.617	251	18.87	12.49
111	2007	67	15	15.56	na	2.726	244.7	18.84	12.5
111	2007	67	30	15.77	na	2.772	249	17.68	12.49

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	67	45	16.03	na	3.09	253.6	21.88	12.48
111	2007	67	100	16.21	na	2.955	255.2	20.19	12.46
111	2007	67	115	16.34	na	2.688	261	23.56	12.47
111	2007	67	130	16	na	1.603	286.1	25.68	12.47
111	2007	67	145	15.8	na	2.197	268.5	23.61	12.46
111	2007	67	200	16.06	na	2.338	283.2	25.67	12.44
111	2007	67	215	16.7	na	3.569	296	26.75	12.46
111	2007	67	230	16.91	na	2.957	289	24.37	12.46
111	2007	67	245	16.87	na	2.553	281.9	26.7	12.45
111	2007	67	300	16.64	na	2.068	288.7	23.97	12.44
111	2007	67	315	16.6	na	2.144	282.7	27.12	12.44
111	2007	67	330	16.09	na	1.333	235.1	14.46	12.44
111	2007	67	345	14.68	na	1.398	217.6	6.006	12.44
111	2007	67	400	13.31	na	1.84	216.8	9.43	12.42
111	2007	67	415	12.78	na	1.404	224.5	5.554	12.43
111	2007	67	430	12.17	na	0.854	226.6	7.84	12.43
111	2007	67	445	11.62	na	2.06	214	8.43	12.42
111	2007	67	500	11.54	na	1.582	214.3	5.605	12.4
111	2007	67	515	11.3	na	1.905	215.1	10.67	12.41
111	2007	67	530	11.9	na	1.859	226	13.16	12.41
111	2007	67	545	12.89	na	1.832	232.6	15.61	12.41
111	2007	67	600	13.62	na	2.527	227.8	19.84	12.4
111	2007	67	615	13.98	na	2.289	231.9	15.97	12.41
111	2007	67	630	14.21	na	3.253	222.1	13.11	12.4
111	2007	67	645	14.4	na	2.983	223.8	12.07	12.41
111	2007	67	700	14.56	na	2.424	235.8	18.84	12.4
111	2007	67	715	14.61	na	2.14	235.3	19.35	12.41
111	2007	67	730	14.7	na	2.615	233.2	21.85	12.41
111	2007	67	745	15.52	na	2.863	252.5	19.47	12.41
111	2007	67	800	16.58	na	3.199	247.1	25.28	12.4
111	2007	67	815	17.38	na	3.813	245.3	25.21	12.44
111	2007	67	830	18.35	na	5.064	239.5	23.17	12.58
111	2007	67	845	19.03	na	4.851	241.7	27.2	12.54
111	2007	67	900	19.3	na	5.827	242.4	24.97	12.89
111	2007	67	915	20.59	na	6.761	236.4	27.59	14.15
111	2007	67	930	21.29	na	7.94	233.2	23.78	14.13
111	2007	67	945	22.09	na	6.849	231.1	25.21	14.11
111	2007	67	1000	22.69	na	7.06	230.7	28.58	14.08
111	2007	67	1015	22.91	na	6.771	240.8	29.65	14.06
111	2007	67	1030	23.64	na	7.31	228.9	23.54	14.04
111	2007	67	1045	24.46	na	6.231	236.3	23.95	14.02
111	2007	67	1100	24.96	na	6.608	243.4	27.65	14
111	2007	67	1115	25.53	na	7.26	242.4	28.55	14
111	2007	67	1130	26.31	na	7.01	249.6	27.48	13.98
111	2007	67	1145	27.25	na	6.751	245.4	34.09	13.97
111	2007	67	1200	27.3	na	7.48	237.8	26.36	13.96
111	2007	67	1215	27.77	na	7.11	246.3	35.87	13.96
111	2007	67	1230	27.91	na	7.75	238.2	34.05	13.96
111	2007	67	1245	28.47	na	9.72	246.4	32.73	13.95
111	2007	67	1300	28.51	na	8.98	252.7	40.33	13.95
111	2007	67	1315	29.68	na	7.85	243.4	34.66	13.94
111	2007	67	1330	30.18	na	8.47	246.4	37.23	13.94
111	2007	67	1345	29.42	na	8.69	238.2	30.99	13.94
111	2007	67	1400	29.43	na	9.58	231.9	34.03	13.94
111	2007	67	1415	30.61	na	9.02	253.2	36.94	13.94
111	2007	67	1430	30.89	na	9.24	255.8	35.37	13.94
111	2007	67	1445	30.84	na	8.83	251.6	37.6	13.94
111	2007	67	1500	31.12	na	8.6	252.5	30.8	13.93
111	2007	67	1515	31.76	na	9.4	264.6	30.05	13.92
111	2007	67	1530	31.75	na	10.76	252.5	34.36	13.93

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	67	1545	31.64	na	9.96	270.1	34.65	13.92
111	2007	67	1600	31.72	na	11.79	283.3	31.87	13.91
111	2007	67	1615	31.81	na	10.43	267.1	35.54	13.91
111	2007	67	1630	31.99	na	10.39	257.9	32.24	13.93
111	2007	67	1645	31.47	na	10.81	264.4	34.53	13.91
111	2007	67	1700	31.07	na	10.01	285.8	29.61	13.91
111	2007	67	1715	31.56	na	9.75	278.8	34.27	13.91
111	2007	67	1730	30.55	na	9.79	272.3	38.76	13.76
111	2007	67	1745	29.45	na	9.89	271.1	31.4	13.95
111	2007	67	1800	29.86	na	9.08	283.9	31.8	13.96
111	2007	67	1815	29.5	na	9.42	272.5	33.32	13.96
111	2007	67	1830	29.09	na	7.7	286.7	34.48	13.35
111	2007	67	1845	28.54	na	9.13	288.5	23.49	13.14
111	2007	67	1900	28.05	na	6.972	290.8	31.13	13.04
111	2007	67	1915	27.22	na	7.69	332.7	27.4	13
111	2007	67	1930	25.85	na	6.69	337.5	22.27	12.95
111	2007	67	1945	25.39	na	7.17	344	18.49	12.92
111	2007	67	2000	24.9	na	5.815	338.4	23.13	12.88
111	2007	67	2015	24.71	na	6.431	329.1	23.51	12.87
111	2007	67	2030	24.42	na	6.751	324.5	23.79	12.85
111	2007	67	2045	24.07	na	5.95	332.6	23.1	12.84
111	2007	67	2100	23.32	na	6.304	338.5	19.97	12.81
111	2007	67	2115	22.89	na	6.765	330.7	20.2	12.81
111	2007	67	2130	22.54	na	5.875	329.2	19.71	12.8
111	2007	67	2145	21.84	na	6.107	328.6	20.2	12.79
111	2007	67	2200	21.2	na	6.998	334.5	21.49	12.77
111	2007	67	2215	20.75	na	7.05	327.8	19.53	12.77
111	2007	67	2230	20.22	na	7.99	329.2	22.38	12.78
111	2007	67	2245	19.78	na	7.93	338.3	18.15	12.75
111	2007	67	2300	19.34	na	7.47	335.9	19.26	12.75
111	2007	67	2315	19.08	na	6.743	335.9	19.44	12.73
111	2007	67	2330	18.68	na	6.543	337.3	22.59	12.73
111	2007	67	2345	18.31	na	7.32	341.6	21.63	12.72
111	2007	67	2400	17.96	na	6.411	334.9	20.48	12.7
111	2007	68	15	17.62	na	5.513	329.4	19.67	12.71
111	2007	68	30	17.33	na	4.72	331.2	19.16	12.7
111	2007	68	45	17.03	na	4.362	349.4	19.43	12.69
111	2007	68	100	16.72	na	4.921	348.1	19.2	12.69
111	2007	68	115	16.34	na	5.6	341.4	21.86	12.67
111	2007	68	130	15.92	na	7.37	339.3	20.7	12.67
111	2007	68	145	15.56	na	5.809	331.4	21.06	12.66
111	2007	68	200	15.32	na	5.65	327.9	23.79	12.65
111	2007	68	215	15.09	na	6.407	331.9	18.51	12.65
111	2007	68	230	14.82	na	6.083	325.8	21.66	12.64
111	2007	68	245	14.63	na	6.052	330	18.75	12.64
111	2007	68	300	14.43	na	6.117	326.9	21.74	12.62
111	2007	68	315	14.29	na	6.914	330.7	19.43	12.63
111	2007	68	330	13.99	na	6.572	334.3	18.73	12.62
111	2007	68	345	13.79	na	6.682	335.9	19.18	12.61
111	2007	68	400	13.71	na	5.807	322.8	19.22	12.6
111	2007	68	415	13.68	na	5.781	326.7	18.38	12.6
111	2007	68	430	13.59	na	5.648	328.8	20.3	12.6
111	2007	68	445	13.49	na	5.276	338.2	22.31	12.6
111	2007	68	500	13.42	na	5.358	331.1	23.52	12.57
111	2007	68	515	13.29	na	6.085	332.3	17.7	12.58
111	2007	68	530	13.04	na	6.221	334.6	15.37	12.58
111	2007	68	545	12.83	na	5.173	329.2	19.71	12.56
111	2007	68	600	12.69	na	4.628	328.8	22.74	12.55
111	2007	68	615	12.62	na	4.887	324.8	21.2	12.55
111	2007	68	630	12.47	na	3.773	311.4	23.79	12.54

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	68	645	12.25	na	3.14	312.5	28.41	12.54
111	2007	68	700	11.98	na	3.73	297	32.67	12.51
111	2007	68	715	11.95	na	3.694	314.4	23.4	12.52
111	2007	68	730	11.84	na	3.64	301.9	25.66	12.52
111	2007	68	745	12.17	na	4.042	312	24.5	12.51
111	2007	68	800	12.66	na	4.976	313.5	21.26	12.52
111	2007	68	815	13.14	na	5.475	315	24.8	12.71
111	2007	68	830	13.59	na	5.823	320.3	20.33	14.03
111	2007	68	845	14.27	na	5.34	325.2	23.22	14.22
111	2007	68	900	14.89	na	5.636	331.4	25.33	14.2
111	2007	68	915	15.35	na	5.183	338	25.64	14.18
111	2007	68	930	16.68	na	3.144	314	61.19	14.16
111	2007	68	945	16.83	na	4.4	301.9	24.75	14.13
111	2007	68	1000	17.22	na	5.028	327.8	29.61	14.11
111	2007	68	1015	17.79	na	4.861	295.2	43.92	14.12
111	2007	68	1030	18.87	na	4.545	317.2	33.93	14.09
111	2007	68	1045	19.24	na	4.229	340.6	40.52	14.08
111	2007	68	1100	19.93	na	4.308	355.1	40.64	14.05
111	2007	68	1115	20.37	na	4.273	357.4	49.5	14.04
111	2007	68	1130	21.37	na	4.024	340.2	28.76	14.03
111	2007	68	1145	22.12	na	3.032	357.9	53.74	14.01
111	2007	68	1200	23.4	na	4.019	297.2	45.35	14
111	2007	68	1215	24.19	na	3.283	328.9	45.5	14
111	2007	68	1230	24.54	na	3.068	28.44	40.4	13.98
111	2007	68	1245	25.68	na	5.096	163.1	50.78	14
111	2007	68	1300	25.38	na	5.169	145.6	31.63	13.98
111	2007	68	1315	24.97	na	5.626	129.9	27.64	14
111	2007	68	1330	25.26	na	6.596	129	25.45	14.02
111	2007	68	1345	24.8	na	7.41	152.9	21.78	14.01
111	2007	68	1400	24.6	na	7.2	161.3	22.84	14
111	2007	68	1415	25.34	na	6.598	166.1	26.7	14.02
111	2007	68	1430	24.74	na	7.34	166.7	24.59	14.02
111	2007	68	1445	25.34	na	7.49	176.1	27.04	14
111	2007	68	1500	25.33	na	6.948	163.6	25.43	13.98
111	2007	68	1515	25.42	na	7.3	183.1	26.19	13.99
111	2007	68	1530	26.05	na	7.72	191.1	20.35	13.98
111	2007	68	1545	26.02	na	7.16	181.7	26.34	13.98
111	2007	68	1600	26.66	na	5.274	181.8	26.43	13.98
111	2007	68	1615	26.67	na	6.173	180.2	33.73	13.97
111	2007	68	1630	26.68	na	6.33	172.3	22.43	13.97
111	2007	68	1645	26.74	na	7.05	185.3	23.44	13.97
111	2007	68	1700	26.62	na	7.17	197.6	23.16	13.97
111	2007	68	1715	26.5	na	5.932	170.8	33.54	13.98
111	2007	68	1730	26.13	na	5.98	176.2	25.31	13.98
111	2007	68	1745	26.27	na	5.728	172.3	25.31	13.99
111	2007	68	1800	25.81	na	6.239	160.7	24.57	14
111	2007	68	1815	26.17	na	5.094	185.2	24.45	14.01
111	2007	68	1830	25.91	na	5.018	160.5	24.46	14.02
111	2007	68	1845	25.93	na	4.185	171.2	24.15	13.15
111	2007	68	1900	25.91	na	4.223	175.7	21.84	13.04
111	2007	68	1915	25.92	na	3.257	181.6	23.73	12.99
111	2007	68	1930	25.97	na	2.647	185.4	18.27	12.94
111	2007	68	1945	26.09	na	2.104	177	25.57	12.9
111	2007	68	2000	26.27	na	1.62	174.9	21.3	12.86
111	2007	68	2015	26.58	na	0.758	144.8	26.72	12.88
111	2007	68	2030	26.96	na	1.338	129	25.51	12.84
111	2007	68	2045	27.05	na	0.457	148.1	21.57	12.85
111	2007	68	2100	27.02	na	1.148	192.3	19.26	12.8
111	2007	68	2115	27.31	na	1.371	198.2	21.84	12.8
111	2007	68	2130	27.51	na	1.338	173	22.38	12.79

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	68	2145	27.88	na	1.949	155.1	21.12	12.79
111	2007	68	2200	28.34	na	1.71	153.4	20.49	12.77
111	2007	68	2215	28.63	na	2.257	158.8	20.05	12.78
111	2007	68	2230	28.96	na	2.869	167.8	23.38	12.79
111	2007	68	2245	29.43	na	2.752	172.1	19.46	12.77
111	2007	68	2300	29.51	na	2.158	174.4	22.52	12.76
111	2007	68	2315	29.49	na	1.762	187.9	23.21	12.76
111	2007	68	2330	29.32	na	1.516	180.5	23.92	12.76
111	2007	68	2345	29.54	na	2.432	173.7	18.21	12.75
111	2007	68	2400	29.88	na	2.722	177.2	19.18	12.74
111	2007	69	15	30.1	na	3.191	179	22.07	12.74
111	2007	69	30	30.31	na	2.768	195.1	19.29	12.74
111	2007	69	45	30.14	na	2.042	197.6	18.33	12.76
111	2007	69	100	30.12	na	1.923	186	16.84	12.72
111	2007	69	115	29.75	na	1.351	182.2	21.03	12.75
111	2007	69	130	29.32	na	0.904	178.3	23.73	12.72
111	2007	69	145	28.6	na	0.782	149.3	23.59	12.72
111	2007	69	200	28.37	na	0.056	191.8	3.882	12.69
111	2007	69	215	27.93	na	0.164	344.3	4.259	12.7
111	2007	69	230	27.29	na	0.054	327.1	1.817	12.7
111	2007	69	245	26.1	na	0.084	233.9	3.044	12.68
111	2007	69	300	25.81	na	0.114	161.5	7.73	12.66
111	2007	69	315	26.85	na	1.095	182.5	20.52	12.69
111	2007	69	330	27.97	na	1.185	160.6	16.39	12.66
111	2007	69	345	28.68	na	0.586	182.2	11.39	12.66
111	2007	69	400	28.1	na	0.234	172	9.72	12.64
111	2007	69	415	27.65	na	0.145	196.4	8.47	12.64
111	2007	69	430	26.29	na	0.322	335.1	6.324	12.63
111	2007	69	445	25.41	na	0.355	327.6	12.94	12.63
111	2007	69	500	24.96	na	0.34	308.6	9.93	12.6
111	2007	69	515	24.62	na	1.039	337.1	5.226	12.61
111	2007	69	530	24.21	na	0.407	333.8	1.842	12.61
111	2007	69	545	23.92	na	0.108	324.9	3.992	12.6
111	2007	69	600	23.82	na	0.43	348.1	4.436	12.58
111	2007	69	615	23.71	na	0.188	351.5	1.396	12.59
111	2007	69	630	23.53	na	0.086	319.3	0.669	12.6
111	2007	69	645	23.66	na	0.031	323.6	0.059	12.57
111	2007	69	700	23.56	na	0.334	325.2	3.475	12.55
111	2007	69	715	23.65	na	na	na	na	12.56
111	2007	69	730	23.78	na	na	na	na	12.55
111	2007	69	745	24.2	na	na	na	na	12.55
111	2007	69	800	25.63	na	na	na	na	12.63
111	2007	69	815	27.26	na	0.172	17.19	15.71	12.91
111	2007	69	830	28.99	na	na	na	na	13.2
111	2007	69	845	30.27	na	0.296	4.193	15.64	13.47
111	2007	69	900	31.76	na	na	na	na	14.02
111	2007	69	915	34.03	na	0.217	38.59	10.6	13.98
111	2007	69	930	36.47	na	1.757	112.2	22.75	13.94
111	2007	69	945	38.21	na	2.933	138.5	20.5	13.92
111	2007	69	1000	39.85	na	3.702	134.2	24.41	13.87
111	2007	69	1015	40.88	na	5.364	139.3	20.14	13.85
111	2007	69	1030	40.62	na	3.968	139.6	22.6	13.85
111	2007	69	1045	41.05	na	4.613	148.5	18.98	13.83
111	2007	69	1100	41.6	na	4.432	146.1	23.88	13.81
111	2007	69	1115	41.96	na	5.233	149.9	24.04	13.81
111	2007	69	1130	41.91	na	5.64	139.6	22.18	13.8
111	2007	69	1145	42.37	na	5.608	141.2	19.9	13.78
111	2007	69	1200	42.35	na	5.38	155.6	20.38	13.78
111	2007	69	1215	42.62	na	4.819	158.3	21.06	13.81
111	2007	69	1230	43.74	na	5.773	160.3	23.16	13.76

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	69	1245	44.34	na	6.63	158.4	21.36	13.77
111	2007	69	1300	44.81	na	6.05	172.2	22.01	13.74
111	2007	69	1315	44.63	na	6.938	172.7	21.39	13.74
111	2007	69	1330	44.68	na	6.803	171.2	19.19	13.73
111	2007	69	1345	44.8	na	6.33	176.8	23.02	13.72
111	2007	69	1400	45.33	na	6.803	173.4	22.28	13.72
111	2007	69	1415	46.48	na	7.48	165.1	22.29	13.7
111	2007	69	1430	47.08	na	8	152.6	22.71	13.7
111	2007	69	1445	46.7	na	8.86	152.1	20.75	13.69
111	2007	69	1500	46.6	na	8.34	157.5	17.71	13.68
111	2007	69	1515	46.28	na	8.06	151.9	22.42	13.69
111	2007	69	1530	46.46	na	8.4	155	22.74	13.69
111	2007	69	1545	46.77	na	9.43	150.5	21.5	13.68
111	2007	69	1600	46.66	na	9.53	158.1	21.33	13.68
111	2007	69	1615	46.7	na	8.62	163.8	23.66	13.68
111	2007	69	1630	46.13	na	9.85	154.4	21.03	13.69
111	2007	69	1645	45.87	na	9.71	158.5	19.37	13.69
111	2007	69	1700	45.76	na	8.83	154.8	20.36	13.69
111	2007	69	1715	45.54	na	9.69	159.8	20.35	13.7
111	2007	69	1730	45.35	na	9.44	154.7	21.58	13.7
111	2007	69	1745	44.87	na	9.38	159	22.08	13.72
111	2007	69	1800	44.45	na	8.77	163.2	23	13.72
111	2007	69	1815	44.37	na	8.24	149.9	17.78	13.18
111	2007	69	1830	44.08	na	7.79	156	23.76	13.06
111	2007	69	1845	43.4	na	7.67	159	22.26	13
111	2007	69	1900	43.14	na	7.2	161.1	20.52	12.98
111	2007	69	1915	43.02	na	6.795	157.5	22.88	12.94
111	2007	69	1930	42.44	na	6.296	160.6	20.55	12.92
111	2007	69	1945	42.08	na	5.485	157.4	19.24	12.91
111	2007	69	2000	41.62	na	5.074	161.6	21.15	12.89
111	2007	69	2015	41.77	na	4.372	168.6	24.57	12.88
111	2007	69	2030	41.77	na	5.537	170.9	25.14	12.88
111	2007	69	2045	41.64	na	4.29	176.7	22.94	12.89
111	2007	69	2100	41.6	na	5.121	188.2	21.79	12.85
111	2007	69	2115	41.29	na	4.511	189.1	20.22	12.85
111	2007	69	2130	41.07	na	3.537	184.7	21.03	12.85
111	2007	69	2145	41.1	na	3.688	175	22.52	12.84
111	2007	69	2200	41.24	na	3.311	182.9	21.55	12.83
111	2007	69	2215	41.21	na	3.215	189.1	21.83	12.83
111	2007	69	2230	41.08	na	2.937	186.5	23.39	12.83
111	2007	69	2245	41.04	na	2.899	181.5	20.63	12.81
111	2007	69	2300	40.97	na	2.661	199.8	19.69	12.81
111	2007	69	2315	41.19	na	3.207	195.9	18.88	12.81
111	2007	69	2330	41.36	na	3.09	192.2	18.78	12.81
111	2007	69	2345	41.61	na	3.309	197.3	16.33	12.81
111	2007	69	2400	41.72	na	3.223	194.4	19.94	12.79
111	2007	70	15	41.9	na	3.293	188.6	20.15	12.8
111	2007	70	30	41.93	na	3.167	187.5	19.29	12.8
111	2007	70	45	41.89	na	2.961	206.6	17.98	12.79
111	2007	70	100	42.08	na	2.806	240.9	25.15	12.8
111	2007	70	115	42.75	na	5.61	222.8	25.5	12.79
111	2007	70	130	43.58	na	6.499	196.9	19.42	12.79
111	2007	70	145	44.04	na	6.781	192.6	23.39	12.79
111	2007	70	200	43.76	na	7.56	200.7	20.81	12.82
111	2007	70	215	43.07	na	5.227	189.8	21.07	12.78
111	2007	70	230	42.36	na	4.537	188.3	22.55	12.78
111	2007	70	245	41.69	na	5	184.2	18.39	12.77
111	2007	70	300	41.28	na	4.873	190.1	20.82	12.75
111	2007	70	315	40.91	na	4.219	189.4	17.94	12.76
111	2007	70	330	40.69	na	3.734	196.1	17.28	12.75

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	70	345	40.54	na	3.489	200.2	21.84	12.75
111	2007	70	400	40.5	na	3.682	194.2	19.23	12.73
111	2007	70	415	40.56	na	3.195	211.6	16.92	12.74
111	2007	70	430	40.57	na	3.088	202.9	16.05	12.73
111	2007	70	445	40.68	na	2.744	215.1	25.97	12.73
111	2007	70	500	40.98	na	3.227	216.3	19.97	12.71
111	2007	70	515	41.49	na	3.269	220.7	15.61	12.71
111	2007	70	530	41.65	na	3.008	218.5	15.27	12.71
111	2007	70	545	41.42	na	2.863	216.1	13.29	12.71
111	2007	70	600	41.23	na	1.999	227.5	20.42	12.69
111	2007	70	615	41.14	na	2.231	235	15.31	12.69
111	2007	70	630	40.99	na	2.523	237.6	20.74	12.69
111	2007	70	645	41.36	na	3.006	267.5	21.47	12.69
111	2007	70	700	41.32	na	2.766	272.3	25.35	12.66
111	2007	70	715	41.33	na	3.356	279.1	26.04	12.71
111	2007	70	730	41.02	na	2.915	281.8	26.98	12.67
111	2007	70	745	40.66	na	2.905	277	22.16	12.67
111	2007	70	800	40.41	na	2.887	275.7	26.03	12.65
111	2007	70	815	40.5	na	2.973	267.6	25.7	12.76
111	2007	70	830	41.23	na	3.082	262.1	25.08	13.11
111	2007	70	845	42.18	na	2.802	264.1	28.08	13.79
111	2007	70	900	43.14	na	3.688	270.5	30.67	13.76
111	2007	70	915	44.23	na	3.312	262	34.63	13.75
111	2007	70	930	45.26	na	4.104	258.4	30.01	13.73
111	2007	70	945	46.11	na	4.424	265.7	39.89	13.71
111	2007	70	1000	46.91	na	6.254	275.3	29.86	13.68
111	2007	70	1015	47.39	na	6.336	288.6	33.72	13.68
111	2007	70	1030	47.73	na	6.678	291.5	27.77	13.66
111	2007	70	1045	47.96	na	7.1	288.1	31	13.66
111	2007	70	1100	48.21	na	7.53	295.9	28.66	13.65
111	2007	70	1115	48.52	na	7.36	287.2	34.75	13.64
111	2007	70	1130	48.8	na	6.724	292.3	29.02	13.64
111	2007	70	1145	48.76	na	7.75	293.4	27.25	13.64
111	2007	70	1200	49.25	na	8.67	288.4	27.71	13.62
111	2007	70	1215	49.24	na	7.61	292.6	30.92	13.63
111	2007	70	1230	49.63	na	7.28	280.1	34.62	13.62
111	2007	70	1245	49.89	na	8.77	284.6	30.5	13.63
111	2007	70	1300	49.98	na	7.82	287.7	31.35	13.62
111	2007	70	1315	49.84	na	7.3	274.5	32.76	13.64
111	2007	70	1330	50.46	na	7.43	288.5	35.54	13.64
111	2007	70	1345	49.79	na	8.12	282.6	31.59	13.64
111	2007	70	1400	50.35	na	7.15	262	32.07	13.64
111	2007	70	1415	50.84	na	7.34	279.2	40.1	13.64
111	2007	70	1430	50.57	na	8.31	283.6	33.53	13.64
111	2007	70	1445	50.54	na	8.58	271.4	31.73	13.63
111	2007	70	1500	49.69	na	7.88	271.9	32.66	13.62
111	2007	70	1515	49.96	na	8.54	287.9	26.8	13.62
111	2007	70	1530	50.23	na	8.38	285.5	31.3	13.61
111	2007	70	1545	50.29	na	7.24	269	42.05	13.61
111	2007	70	1600	49.78	na	8.66	269.9	36.91	13.61
111	2007	70	1615	49.31	na	7.98	264.3	35.76	13.62
111	2007	70	1630	49.64	na	5.934	272.4	30.02	13.63
111	2007	70	1645	49.54	na	7.29	294.4	31.31	13.62
111	2007	70	1700	48.9	na	7.45	279.3	33.62	13.62
111	2007	70	1715	47.58	na	10.67	325.9	26.5	13.64
111	2007	70	1730	46.91	na	9.67	318.8	17.94	13.66
111	2007	70	1745	47.01	na	6.881	298.7	25.15	13.67
111	2007	70	1800	46.6	na	8.05	300.2	25.97	13.67
111	2007	70	1815	45.96	na	8.4	302.3	24.39	13.69
111	2007	70	1830	45.46	na	7.33	303.3	30.49	13.71

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	70	1845	44.9	na	6.958	301.3	22.69	13.08
111	2007	70	1900	44.12	na	7.72	305.5	21.64	13.01
111	2007	70	1915	43.39	na	6.392	315.4	21.73	12.97
111	2007	70	1930	42.84	na	6.588	322.2	26.07	12.94
111	2007	70	1945	42.31	na	6.475	322.4	25.18	12.91
111	2007	70	2000	41.81	na	5.503	313.2	25.65	12.88
111	2007	70	2015	41.47	na	4.841	304.6	25.46	12.88
111	2007	70	2030	40.97	na	4.046	299.7	23.67	12.86
111	2007	70	2045	40.49	na	3.849	312	23.03	12.85
111	2007	70	2100	40.07	na	3.601	316	19.47	12.83
111	2007	70	2115	39.63	na	3.529	328.1	27.04	12.83
111	2007	70	2130	39.12	na	2.001	312.7	25.01	12.81
111	2007	70	2145	38.54	na	2.456	298.3	20.4	12.81
111	2007	70	2200	37.9	na	1.752	279.5	25.46	12.78
111	2007	70	2215	37.29	na	1.287	246.2	21.76	12.79
111	2007	70	2230	36.63	na	1.873	241.4	19.47	12.77
111	2007	70	2245	35.6	na	2.337	228.1	15.83	12.78
111	2007	70	2300	35.23	na	1.536	265.8	22.01	12.76
111	2007	70	2315	35.28	na	1.884	251.8	26.28	12.76
111	2007	70	2330	35.14	na	1.48	200.2	20.37	12.75
111	2007	70	2345	34.61	na	1.105	252.6	21.06	12.74
111	2007	70	2400	34.54	na	1.657	264.4	18.36	12.72
111	2007	71	15	34.42	na	1.933	241.7	21.04	12.73
111	2007	71	30	34.17	na	1.007	237.7	26.01	12.72
111	2007	71	45	33.35	na	0.936	196.4	33.2	12.72
111	2007	71	100	33	na	1.235	253.8	35.09	12.7
111	2007	71	115	32.86	na	0.995	265.9	9.99	12.71
111	2007	71	130	32.72	na	2.277	260.5	16.29	12.7
111	2007	71	145	33.04	na	1.923	247.9	29.54	12.7
111	2007	71	200	33.6	na	2.211	280	24.7	12.68
111	2007	71	215	33.47	na	2.176	286.9	25.93	12.69
111	2007	71	230	33.33	na	1.891	251	24.55	12.69
111	2007	71	245	32.76	na	0.825	238.3	17.92	12.68
111	2007	71	300	31.5	na	1.744	221	13.25	12.66
111	2007	71	315	30.51	na	2.454	213.6	9.67	12.67
111	2007	71	330	30.23	na	2.082	225.2	9.17	12.67
111	2007	71	345	29.91	na	2.028	235.7	12.64	12.66
111	2007	71	400	31.01	na	2.309	241.8	17.24	12.64
111	2007	71	415	31.6	na	2.772	244.5	19.79	12.65
111	2007	71	430	32.13	na	2.74	258.5	16.7	12.65
111	2007	71	445	31.93	na	2.567	254.9	13.8	12.64
111	2007	71	500	31.21	na	1.871	230.5	20.6	12.63
111	2007	71	515	29.92	na	0.813	215.1	30.48	12.64
111	2007	71	530	30.21	na	1.868	313.5	20.52	12.63
111	2007	71	545	29.97	na	1.433	232.6	26.67	12.62
111	2007	71	600	29.28	na	2.17	235.8	24.9	12.61
111	2007	71	615	29.55	na	1.372	303.3	32.57	12.62
111	2007	71	630	29.94	na	1.73	229.4	21.29	12.6
111	2007	71	645	29.78	na	1.844	262.8	27.93	12.6
111	2007	71	700	29.87	na	2.237	236.2	24.66	12.58
111	2007	71	715	30.05	na	1.571	282.4	22.55	12.59
111	2007	71	730	30.1	na	1.274	270	44.66	12.59
111	2007	71	745	30.66	na	2.362	291.2	22.57	12.58
111	2007	71	800	32.67	na	2.034	258.1	34.8	12.58
111	2007	71	815	33.81	na	2.086	296.1	23.57	12.71
111	2007	71	830	35.41	na	1.619	209.3	29.3	13.12
111	2007	71	845	36.12	na	2.235	301	26.69	13.92
111	2007	71	900	36.77	na	2.529	319	35.19	13.88
111	2007	71	915	37.49	na	3.177	304.7	33.12	13.87
111	2007	71	930	38.55	na	3.646	308.6	29.33	13.84

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	71	945	39.4	na	3.408	290.3	48.27	13.82
111	2007	71	1000	40.69	na	3.255	299.9	47.29	13.79
111	2007	71	1015	42.58	na	2.398	289.9	58.46	13.76
111	2007	71	1030	43.53	na	3.058	311.1	51.38	13.75
111	2007	71	1045	44.71	na	3.215	287.7	48.76	13.72
111	2007	71	1100	45.72	na	3.899	285.7	32.79	13.7
111	2007	71	1115	46.8	na	3.356	295.4	48.85	13.68
111	2007	71	1130	47.83	na	2.756	299.9	81.2	13.66
111	2007	71	1145	48.19	na	4.692	140.7	31.42	13.65
111	2007	71	1200	47.88	na	5.863	159.7	25.13	13.64
111	2007	71	1215	47.72	na	6.541	159.5	24.01	13.65
111	2007	71	1230	46.55	na	6.865	177.5	19.15	13.66
111	2007	71	1245	46.66	na	6.881	181.5	23.77	13.66
111	2007	71	1300	46.3	na	7.21	187.3	20.83	13.67
111	2007	71	1315	46.09	na	6.427	169.1	25.74	13.68
111	2007	71	1330	45.96	na	7.35	185.5	23.15	13.69
111	2007	71	1345	45.99	na	7.18	183.3	24.12	13.68
111	2007	71	1400	46.35	na	6.696	194.7	21.7	13.69
111	2007	71	1415	46.93	na	6.867	180.7	24.12	13.69
111	2007	71	1430	47.34	na	6.694	170.1	20.38	13.68
111	2007	71	1445	47.07	na	6.107	170.8	21.25	13.68
111	2007	71	1500	47.25	na	7.76	183.6	19.71	13.68
111	2007	71	1515	46.8	na	7.55	178.6	22.91	13.68
111	2007	71	1530	45.87	na	7.63	181.9	22.68	13.69
111	2007	71	1545	45.2	na	7.46	188.6	26.9	13.69
111	2007	71	1600	45.15	na	7.27	185.3	24.06	13.69
111	2007	71	1615	45.27	na	7.98	188	23.54	13.7
111	2007	71	1630	44.48	na	6.72	173.5	25.17	13.71
111	2007	71	1645	43.66	na	5.918	169.8	20.72	13.72
111	2007	71	1700	44.58	na	4.893	175.5	21.4	13.73
111	2007	71	1715	45.4	na	4.797	163.9	27.93	13.72
111	2007	71	1730	44.11	na	6.398	175	22.68	13.73
111	2007	71	1745	42.97	na	5.915	177	24.33	13.74
111	2007	71	1800	42.63	na	5.72	188.6	23.2	13.75
111	2007	71	1815	42.3	na	6.167	195.5	25.85	13.77
111	2007	71	1830	42.18	na	5.59	191.5	22.85	13.77
111	2007	71	1845	41.71	na	6.292	190.5	21.44	13.09
111	2007	71	1900	40.89	na	5.31	186.9	23.34	13.02
111	2007	71	1915	40.32	na	3.698	186.2	20.47	12.97
111	2007	71	1930	39.78	na	2.911	187.7	21.03	12.94
111	2007	71	1945	39.38	na	2.593	186.4	21.53	12.91
111	2007	71	2000	39.14	na	2.863	186.4	21.4	12.89
111	2007	71	2015	39.14	na	3.241	185.1	19.91	12.87
111	2007	71	2030	38.93	na	2.563	187.5	19.96	12.87
111	2007	71	2045	38.99	na	3.778	180.1	19.98	12.85
111	2007	71	2100	39.13	na	3.837	181.2	22.37	12.83
111	2007	71	2115	39.22	na	3.803	174.1	16.79	12.83
111	2007	71	2130	39.22	na	4.008	180.5	21.81	12.83
111	2007	71	2145	39.44	na	4.461	181.9	25.86	12.82
111	2007	71	2200	39.65	na	4.885	179.4	24.95	12.79
111	2007	71	2215	39.86	na	5.457	186.4	22.09	12.81
111	2007	71	2230	40.03	na	5.628	189.1	19.71	12.82
111	2007	71	2245	39.86	na	5.435	190.9	23.05	12.8
111	2007	71	2300	39.48	na	4.774	189.5	23.39	12.78
111	2007	71	2315	39.5	na	4.698	195.3	21.49	12.79
111	2007	71	2330	39.5	na	4.772	191	18.16	12.79
111	2007	71	2345	39.58	na	4.944	190	23.29	12.79
111	2007	71	2400	39.92	na	5.286	192.4	23	12.77
111	2007	72	15	40.23	na	5.282	194.9	19.31	12.78
111	2007	72	30	40.23	na	5.376	196.5	24	12.78

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	72	45	40.36	na	5.95	201	17.55	12.78
111	2007	72	100	40.56	na	4.799	202.9	22.46	12.76
111	2007	72	115	41.15	na	5.475	200.8	22.2	12.77
111	2007	72	130	41.87	na	6.117	199.8	15.51	12.77
111	2007	72	145	41.49	na	4.591	194.8	20.06	12.77
111	2007	72	200	40.9	na	5.398	191.2	20.87	12.75
111	2007	72	215	40.16	na	4.501	185.1	17.67	12.77
111	2007	72	230	39.26	na	4.082	185.8	16.46	12.76
111	2007	72	245	38.76	na	4.688	179.2	20.11	12.77
111	2007	72	300	38.78	na	4.887	183.4	22.13	12.73
111	2007	72	315	38.36	na	4.4	189.1	22.56	12.73
111	2007	72	330	38.18	na	4.613	182.7	23.52	12.73
111	2007	72	345	38.3	na	4.626	181.6	24	12.73
111	2007	72	400	38.24	na	4.406	191.3	17.86	12.7
111	2007	72	415	38.06	na	4.791	191.3	22.29	12.71
111	2007	72	430	37.89	na	5.133	192.4	18.54	12.71
111	2007	72	445	37.67	na	4.551	196.3	17.91	12.7
111	2007	72	500	37.39	na	3.571	185.6	23.91	12.68
111	2007	72	515	37.36	na	2.655	161.3	22.02	12.69
111	2007	72	530	37.18	na	2.235	148	28.08	12.67
111	2007	72	545	36.89	na	2.321	162.8	18.48	12.67
111	2007	72	600	36.67	na	2.784	172.4	19.93	12.65
111	2007	72	615	36.46	na	3.203	179.1	19.91	12.66
111	2007	72	630	36.43	na	3.986	185.8	17.69	12.65
111	2007	72	645	36.52	na	3.891	191.4	18.73	12.65
111	2007	72	700	36.52	na	3.728	193.9	20.54	12.63
111	2007	72	715	36.51	na	3.116	184	21.27	12.64
111	2007	72	730	36.86	na	4.074	185.8	19.16	12.63
111	2007	72	745	37.81	na	4.444	188.9	18.84	12.69
111	2007	72	800	38.32	na	4.547	180	22.28	12.74
111	2007	72	815	38.52	na	3.951	186.3	20.95	12.87
111	2007	72	830	38.7	na	3.782	186.7	19.92	13.08
111	2007	72	845	39.07	na	3.947	198.1	19.83	13.21
111	2007	72	900	39.44	na	5.455	200.6	17.55	13.85
111	2007	72	915	39.93	na	4.585	195.8	21.29	13.85
111	2007	72	930	40.86	na	5.708	190.4	20.77	13.82
111	2007	72	945	41.92	na	6.109	181.7	21.82	13.79
111	2007	72	1000	42.01	na	6.944	180.3	18.09	13.78
111	2007	72	1015	43.18	na	6.028	180.5	22.58	13.78
111	2007	72	1030	42.84	na	8.09	193.1	19.64	13.77
111	2007	72	1045	42.75	na	5.61	184.6	25.95	13.78
111	2007	72	1100	43.57	na	6.795	178.3	24.05	13.75
111	2007	72	1115	43.68	na	7.18	176.1	24.54	13.72
111	2007	72	1130	43.28	na	8.31	176	21.78	13.72
111	2007	72	1145	43.55	na	7.73	172.9	25.92	13.72
111	2007	72	1200	44.48	na	7.73	174.9	26.4	13.7
111	2007	72	1215	45.54	na	6.598	166.2	18.5	13.69
111	2007	72	1230	45.49	na	7.2	168.3	20.4	13.69
111	2007	72	1245	45.76	na	6.511	168.1	23.66	13.68
111	2007	72	1300	45.85	na	7.77	191.8	21.31	13.68
111	2007	72	1315	46.58	na	6.682	161.1	23.65	13.68
111	2007	72	1330	46.42	na	6.771	166.2	21.54	13.68
111	2007	72	1345	46.23	na	6.517	161.4	24.36	13.68
111	2007	72	1400	45.81	na	6.956	166	22.25	13.67
111	2007	72	1415	45.15	na	7.19	162.8	20.32	13.68
111	2007	72	1430	44.23	na	6.98	156.2	21.93	13.7
111	2007	72	1445	43.87	na	6.101	159.1	21.06	13.69
111	2007	72	1500	44.63	na	5.831	158.2	25.68	13.68
111	2007	72	1515	44.8	na	6.676	160.5	24.84	13.69
111	2007	72	1530	45.01	na	8.22	167.9	22.52	13.69

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	72	1545	45.06	na	7.1	168.7	32.29	13.69
111	2007	72	1600	45.61	na	5.775	163	25.6	13.68
111	2007	72	1615	45.68	na	7.04	161.9	22.52	13.68
111	2007	72	1630	45.49	na	7.55	158.8	22.47	13.69
111	2007	72	1645	45.2	na	9	165.1	23.67	13.69
111	2007	72	1700	45.16	na	8.14	174.5	21.09	13.69
111	2007	72	1715	44.83	na	5.495	167.7	30.26	13.71
111	2007	72	1730	44.8	na	6.674	151.9	20.05	13.71
111	2007	72	1745	43.6	na	6.396	157.6	20.5	13.5
111	2007	72	1800	43.34	na	6.048	172.3	22.75	13.74
111	2007	72	1815	43.59	na	5.274	161.9	21.83	13.74
111	2007	72	1830	43.55	na	5.664	170.4	24.24	13.1
111	2007	72	1845	43.04	na	6.606	181.8	20.75	13.03
111	2007	72	1900	42.56	na	5.356	178.5	20.35	12.97
111	2007	72	1915	42.4	na	5.054	174.9	23.64	12.95
111	2007	72	1930	42.15	na	4.958	174.8	18.72	12.92
111	2007	72	1945	42.09	na	4.632	174.2	26.6	12.9
111	2007	72	2000	41.93	na	4.448	176.6	23.14	12.88
111	2007	72	2015	42.05	na	5.177	175.9	20.52	12.87
111	2007	72	2030	42.05	na	4.658	177.2	22.81	12.86
111	2007	72	2045	41.93	na	4.64	177.1	21.09	12.85
111	2007	72	2100	41.85	na	4.491	176.6	20.01	12.83
111	2007	72	2115	41.76	na	4.386	176.9	21.56	12.84
111	2007	72	2130	41.84	na	5.336	182.2	22.66	12.83
111	2007	72	2145	42.08	na	5.173	187.2	20.14	12.83
111	2007	72	2200	42.19	na	5.3	181.9	21.37	12.81
111	2007	72	2215	42.28	na	5.907	184.9	18.79	12.81
111	2007	72	2230	42.16	na	5.151	182.8	20.37	12.81
111	2007	72	2245	42.12	na	5.064	179.3	21.67	12.81
111	2007	72	2300	41.96	na	3.589	174.4	19.23	12.79
111	2007	72	2315	41.65	na	3.525	179.4	20.28	12.8
111	2007	72	2330	41.62	na	3.963	190.5	24.38	12.79
111	2007	72	2345	41.79	na	4.571	190.4	20.14	12.79
111	2007	72	2400	41.87	na	4.704	187	19.98	12.78
111	2007	73	15	41.76	na	4.481	181.3	20.76	12.79
111	2007	73	30	41.62	na	4.225	181.2	16.15	12.78
111	2007	73	45	41.41	na	3.883	173	18.97	12.77
111	2007	73	100	41.27	na	3.47	176.2	16.85	12.77
111	2007	73	115	41.12	na	2.827	175.6	20.19	12.78
111	2007	73	130	40.91	na	2.927	173.4	15.5	12.76
111	2007	73	145	40.87	na	3.161	184.6	19.51	12.76
111	2007	73	200	41.18	na	4.682	179.5	20	12.74
111	2007	73	215	41.84	na	4.811	180.8	20.98	12.75
111	2007	73	230	41.86	na	4.169	183.4	25.87	12.74
111	2007	73	245	41.66	na	4.251	172.9	24.43	12.74
111	2007	73	300	41.59	na	4.294	181.9	22.17	12.73
111	2007	73	315	41.49	na	3.772	173.8	19.86	12.73
111	2007	73	330	41.41	na	3.982	174.7	19.11	12.73
111	2007	73	345	41.3	na	4.062	178.1	20	12.72
111	2007	73	400	41.32	na	4.312	178.2	18.64	12.7
111	2007	73	415	41.42	na	4.976	187.6	22.03	12.71
111	2007	73	430	41.54	na	4.813	185.9	20.9	12.7
111	2007	73	445	41.43	na	4.843	187.4	22.9	12.69
111	2007	73	500	41.44	na	5.674	188	20.88	12.68
111	2007	73	515	41.61	na	4.933	192.8	17.8	12.69
111	2007	73	530	41.59	na	3.889	186.6	20.94	12.68
111	2007	73	545	41.63	na	4.376	185.2	21.19	12.67
111	2007	73	600	41.64	na	3.986	190.7	19.5	12.67
111	2007	73	615	41.59	na	3.625	187.3	21.56	12.67
111	2007	73	630	41.61	na	4.288	187.5	21.95	12.67

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	73	645	41.59	na	4.571	186.4	19.43	12.67
111	2007	73	700	41.53	na	4.624	188.9	20.93	12.65
111	2007	73	715	41.62	na	4.191	192.9	19.5	12.66
111	2007	73	730	41.76	na	3.905	181.6	21.94	12.65
111	2007	73	745	42.04	na	4.41	182.8	21.72	12.66
111	2007	73	800	42.36	na	4.231	183.3	21.23	12.7
111	2007	73	815	42.9	na	4.438	184.7	22.27	12.89
111	2007	73	830	43.42	na	5.223	181.9	19.72	13.27
111	2007	73	845	43.98	na	5.143	182.2	23.28	13.76
111	2007	73	900	44.33	na	5.755	182.9	22.5	13.75
111	2007	73	915	44.35	na	5.65	180.2	22.66	13.75
111	2007	73	930	44.64	na	5.344	177.3	28.1	13.74
111	2007	73	945	45.18	na	6.179	179.9	18.58	13.72
111	2007	73	1000	45.88	na	5.392	181.4	19.26	13.71
111	2007	73	1015	46.37	na	6.374	174.2	26.49	13.7
111	2007	73	1030	46.68	na	7.42	177.3	22.18	13.69
111	2007	73	1045	46.78	na	6.525	171.7	26.35	13.68
111	2007	73	1100	47.5	na	6.662	164.9	23.34	13.66
111	2007	73	1115	47.04	na	7.46	167	24.71	13.68
111	2007	73	1130	48	na	5.125	167	26.78	13.67
111	2007	73	1145	49.43	na	5.748	167.9	33.16	13.64
111	2007	73	1200	49.61	na	7.39	178.7	26.38	13.63
111	2007	73	1215	49.17	na	7.31	170.2	24.51	13.64
111	2007	73	1230	49.23	na	7.14	176	25.55	13.64
111	2007	73	1245	49.62	na	7.72	170	24.82	13.64
111	2007	73	1300	50.39	na	9.02	179.5	26.85	13.62
111	2007	73	1315	50.27	na	8.42	179.6	28.02	13.63
111	2007	73	1330	49.26	na	7.8	176.2	23.18	13.64
111	2007	73	1345	49.5	na	6.191	170.3	24.89	13.64
111	2007	73	1400	49.94	na	5.626	162.7	23.48	13.63
111	2007	73	1415	51.88	na	5.761	168.3	27.11	13.62
111	2007	73	1430	52.36	na	6.467	168.5	29.12	13.62
111	2007	73	1445	52.63	na	5.95	168.7	24.32	13.61
111	2007	73	1500	52.01	na	7.57	178.6	24.64	13.6
111	2007	73	1515	51.37	na	6.229	180.5	26.69	13.6
111	2007	73	1530	50.75	na	5.688	157.6	21.95	13.62
111	2007	73	1545	49.96	na	5.92	159.4	23.49	13.62
111	2007	73	1600	49.64	na	7.46	159.5	24	13.62
111	2007	73	1615	50.63	na	5.974	157.6	28.53	13.62
111	2007	73	1630	49.81	na	7.2	163.5	20.66	13.62
111	2007	73	1645	48.19	na	7.73	147.4	20.67	13.64
111	2007	73	1700	47.54	na	6.889	150.7	20.9	13.64
111	2007	73	1715	48.59	na	5.662	167	24.41	13.64
111	2007	73	1730	49.05	na	5.875	181.7	31.38	13.65
111	2007	73	1745	48.25	na	6.403	173.6	27.54	13.66
111	2007	73	1800	47.84	na	6.014	177	29.62	13.17
111	2007	73	1815	47.67	na	6.692	166.8	22.8	13.05
111	2007	73	1830	47.31	na	6.574	179.5	30.81	13
111	2007	73	1845	47.04	na	6.115	184.1	31.69	12.97
111	2007	73	1900	47.12	na	8.21	171.8	24.98	12.93
111	2007	73	1915	47.4	na	9.86	167.9	25.85	12.92
111	2007	73	1930	47.38	na	9.47	174.8	21.86	12.91
111	2007	73	1945	47.17	na	9.15	187.6	22.82	12.9
111	2007	73	2000	47.17	na	8.57	190.9	25.14	12.87
111	2007	73	2015	47.26	na	8.4	187.7	23.28	12.88
111	2007	73	2030	47.25	na	7.34	181.3	22.3	12.88
111	2007	73	2045	47	na	7.43	186.4	24.91	12.87
111	2007	73	2100	46.93	na	7.01	194.8	23.5	12.85
111	2007	73	2115	46.77	na	6.64	187.7	19.51	12.86
111	2007	73	2130	46.81	na	6.39	183.7	23.35	12.85

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	73	2145	46.77	na	6.175	192	22.54	12.85
111	2007	73	2200	46.59	na	6.165	180.8	22.5	12.83
111	2007	73	2215	46.52	na	6.789	191.6	21.39	12.83
111	2007	73	2230	46.53	na	6.332	193.7	20.55	12.84
111	2007	73	2245	46.47	na	6.535	190.7	21.57	12.83
111	2007	73	2300	46.38	na	6.066	191	19.29	12.82
111	2007	73	2315	46.41	na	5.117	194.4	20.58	12.82
111	2007	73	2330	46.28	na	4.829	199.5	20.12	12.81
111	2007	73	2345	46.21	na	3.865	190	22.79	12.82
111	2007	73	2400	46	na	3.06	184.3	27.75	12.8
111	2007	74	15	45.7	na	3.786	182.6	21.2	12.8
111	2007	74	30	45.26	na	2.436	180.7	23.66	12.8
111	2007	74	45	44.87	na	1.891	173.2	22.25	12.78
111	2007	74	100	44.62	na	2.335	166.3	19.95	12.77
111	2007	74	115	44.37	na	2.402	167.4	19.33	12.77
111	2007	74	130	44.16	na	1.937	151.7	19.16	12.77
111	2007	74	145	43.95	na	1.963	141.3	24.71	12.77
111	2007	74	200	43.57	na	1.812	168	20.34	12.75
111	2007	74	215	43.49	na	2.172	166.1	21.56	12.75
111	2007	74	230	43.57	na	1.54	133.6	25.14	12.75
111	2007	74	245	43.35	na	2.251	113.7	20.4	12.75
111	2007	74	300	43.07	na	1.94	109.4	21.83	12.73
111	2007	74	315	42.82	na	1.749	92.2	25.03	12.73
111	2007	74	330	42.54	na	1.564	143.9	21.48	12.73
111	2007	74	345	42.38	na	0.896	129.5	16.5	12.72
111	2007	74	400	42.32	na	1.369	132.9	31.59	12.7
111	2007	74	415	42.43	na	1.705	115.8	25.14	12.71
111	2007	74	430	42.63	na	1.836	138.1	21.72	12.69
111	2007	74	445	42.59	na	2.096	127.2	19.44	12.7
111	2007	74	500	42.74	na	2.812	134.5	25.42	12.68
111	2007	74	515	43.02	na	3.541	179.7	28.69	12.68
111	2007	74	530	43.64	na	3.205	177.2	34.86	12.68
111	2007	74	545	43.86	na	3.078	155.8	31.45	12.68
111	2007	74	600	43.65	na	2.444	135.8	19.67	12.67
111	2007	74	615	43.36	na	2.674	182.3	28.08	12.67
111	2007	74	630	43.38	na	3.265	185.9	26.15	12.67
111	2007	74	645	43.7	na	4.471	199.1	18.98	12.67
111	2007	74	700	44.05	na	3.233	189.1	21.03	12.65
111	2007	74	715	44.44	na	4.088	202.3	22.38	12.67
111	2007	74	730	44.83	na	3.738	200.3	22.41	12.67
111	2007	74	745	45.15	na	2.408	164.7	26.05	12.67
111	2007	74	800	45.35	na	3.573	200.8	22.36	12.66
111	2007	74	815	45.62	na	4.622	203.6	17.62	12.66
111	2007	74	830	45.92	na	3.569	205.3	21.9	12.74
111	2007	74	845	46.47	na	3.801	198.2	14.82	12.91
111	2007	74	900	47.29	na	2.987	193.4	23.8	13.09
111	2007	74	915	47.91	na	3.662	194.6	20.1	13.3
111	2007	74	930	48.92	na	2.939	190.1	21.59	13.67
111	2007	74	945	51.48	na	3.157	176.5	26.83	13.64
111	2007	74	1000	53.72	na	3.054	157	28.16	13.6
111	2007	74	1015	54.88	na	4.479	136.4	26.33	13.58
111	2007	74	1030	53.61	na	4.513	133.1	20.84	13.56
111	2007	74	1045	52.15	na	4.207	145.9	22.93	13.58
111	2007	74	1100	51.93	na	4.779	164.5	24.53	13.57
111	2007	74	1115	52.42	na	4.779	165.6	30.31	13.57
111	2007	74	1130	51.41	na	4.813	165.3	25.7	13.57
111	2007	74	1145	51.64	na	5.396	191.1	24.3	13.58
111	2007	74	1200	51.44	na	4.875	178.8	24.23	13.59
111	2007	74	1215	51.64	na	4.106	179.3	24.09	13.6
111	2007	74	1230	52.15	na	3.895	177.6	19.16	13.43

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	74	1245	52.3	na	3.487	174.7	25.69	13.6
111	2007	74	1300	52.49	na	3.32	236.1	30.77	13.6
111	2007	74	1315	54.82	na	2.499	274.9	28.62	13.26
111	2007	74	1330	58.06	na	7.57	291.4	26.02	13.33
111	2007	74	1345	56.42	na	9.2	303.1	24.89	13.36
111	2007	74	1400	54.14	na	10.19	316.1	22.55	13.6
111	2007	74	1415	52.88	na	9.73	323.1	21.51	13.6
111	2007	74	1430	51.98	na	9.27	319	24.54	13.62
111	2007	74	1445	50.79	na	9.81	327.1	20	13.62
111	2007	74	1500	50.26	na	9.86	322.6	21.37	13.62
111	2007	74	1515	49.63	na	11.2	320.3	25.43	13.64
111	2007	74	1530	48.72	na	12.1	326.9	20.21	13.66
111	2007	74	1545	47.85	na	11.65	327.2	22.53	13.66
111	2007	74	1600	47.38	na	11.67	324.3	25.05	13.25
111	2007	74	1615	46.81	na	11.42	324.6	23.2	13.34
111	2007	74	1630	46.44	na	10.14	318.5	24.05	13.12
111	2007	74	1645	46.2	na	9.78	323.5	28.26	13.1
111	2007	74	1700	46.02	na	9.38	321.1	22.26	13.01
111	2007	74	1715	45.83	na	8.48	322.1	21.8	12.97
111	2007	74	1730	45.56	na	10.38	322.7	26.44	12.94
111	2007	74	1745	45.11	na	10.42	322.4	24.96	12.92
111	2007	74	1800	44.61	na	10.42	315.2	23.14	12.89
111	2007	74	1815	43.94	na	11.65	321.4	21.66	12.88
111	2007	74	1830	43.54	na	10.54	316.9	24.23	12.87
111	2007	74	1845	42.97	na	9.92	323.3	25.34	12.86
111	2007	74	1900	42.14	na	10.25	320.5	22.32	12.84
111	2007	74	1915	41.58	na	9.68	328.8	21.93	12.85
111	2007	74	1930	41.26	na	8.23	335.4	25.39	12.84
111	2007	74	1945	40.92	na	7.01	331	23.13	12.82
111	2007	74	2000	40.76	na	6.656	330.4	25.88	12.81
111	2007	74	2015	40.69	na	6.737	333.5	23.28	12.81
111	2007	74	2030	40.67	na	6.916	331.2	26.97	12.81
111	2007	74	2045	40.52	na	8.67	332.4	27.85	12.8
111	2007	74	2100	40.35	na	9.1	332.3	27.35	12.79
111	2007	74	2115	39.59	na	8.89	354.3	24.28	12.79
111	2007	74	2130	39.1	na	7.86	350.2	20.65	12.79
111	2007	74	2145	38.84	na	6.889	0.528	29.47	12.78
111	2007	74	2200	38.66	na	6.96	352.8	21.48	12.75
111	2007	74	2215	38.55	na	6.62	343.3	24.22	12.77
111	2007	74	2230	38.39	na	7.17	346.1	26.47	12.76
111	2007	74	2245	38.32	na	6.805	348.8	20.11	12.76
111	2007	74	2300	38.35	na	6.427	351.5	25.09	12.74
111	2007	74	2315	38.28	na	6.427	350.7	24.67	12.75
111	2007	74	2330	38.14	na	5.398	344.6	26.14	12.73
111	2007	74	2345	38.02	na	6.233	354.3	28.15	12.74
111	2007	74	2400	37.59	na	8.23	357.3	25.92	12.71
111	2007	75	15	36.94	na	8.54	359.9	28.59	12.73
111	2007	75	30	36.35	na	7.15	355.2	18.78	12.72
111	2007	75	45	35.84	na	6.879	2.511	23.96	12.71
111	2007	75	100	35.39	na	7.85	348.1	23.04	12.69
111	2007	75	115	34.94	na	7.58	348.5	28.35	12.7
111	2007	75	130	34.59	na	7.9	355.4	20.07	12.69
111	2007	75	145	34.24	na	7.61	1.491	27.5	12.69
111	2007	75	200	34.06	na	7.17	1.176	22	12.67
111	2007	75	215	34.02	na	6.793	3.716	26.12	12.67
111	2007	75	230	33.99	na	6.924	0.388	19.74	12.66
111	2007	75	245	33.89	na	7.92	351.5	20.86	12.65
111	2007	75	300	33.57	na	8.74	354.4	22.82	12.64
111	2007	75	315	33.37	na	7.92	356	28.37	12.64
111	2007	75	330	33.29	na	8.34	353.3	24.72	12.63

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	75	345	33.09	na	8.7	356	30.21	12.63
111	2007	75	400	32.81	na	8.44	357.2	21.1	12.62
111	2007	75	415	32.59	na	8.44	354.3	22.17	12.62
111	2007	75	430	32.39	na	8.67	358.9	24.96	12.62
111	2007	75	445	32.25	na	8.81	358	25.44	12.61
111	2007	75	500	32.11	na	8.48	357.8	22.67	12.6
111	2007	75	515	31.95	na	9.15	359	24.83	12.6
111	2007	75	530	31.56	na	9.51	4.306	26.26	12.6
111	2007	75	545	31.15	na	8.64	360	23.05	12.59
111	2007	75	600	30.92	na	7.77	356.7	26.18	12.57
111	2007	75	615	30.66	na	8.54	352.9	22.04	12.58
111	2007	75	630	30.45	na	9.18	356.9	25.93	12.58
111	2007	75	645	30.27	na	8.76	358.6	15.09	12.58
111	2007	75	700	30.29	na	7.9	359.1	22.66	12.57
111	2007	75	715	30.22	na	7.85	1.615	24.66	12.58
111	2007	75	730	30.15	na	8.71	9.86	21.03	12.58
111	2007	75	745	30.62	na	7.85	5.017	22.94	12.58
111	2007	75	800	30.8	na	7.26	12.14	20.62	12.57
111	2007	75	815	30.95	na	8.52	5.083	19.6	12.57
111	2007	75	830	30.82	na	10.11	17.2	19.23	12.57
111	2007	75	845	30.73	na	9.05	16.4	20.77	12.58
111	2007	75	900	30.75	na	9.12	19.71	22.71	12.61
111	2007	75	915	30.75	na	9.02	15.18	20.01	12.58
111	2007	75	930	30.58	na	11.96	21.56	22.69	12.59
111	2007	75	945	30.38	na	10.03	17.36	23.61	12.57
111	2007	75	1000	30.07	na	9.19	14.03	19.38	12.56
111	2007	75	1015	29.87	na	9.83	17.24	20.66	12.58
111	2007	75	1030	29.54	na	10.41	13.66	20.54	12.71
111	2007	75	1045	29.25	na	11.24	11.26	24.83	12.75
111	2007	75	1100	29.15	na	9.95	8.69	19.9	12.68
111	2007	75	1115	29.04	na	9.34	13.28	21.36	12.66
111	2007	75	1130	28.63	na	10.46	9.99	21.13	12.72
111	2007	75	1145	28.37	na	9.79	12.94	14.89	12.83
111	2007	75	1200	28.32	na	9.85	15.52	22.75	12.86
111	2007	75	1215	28.14	na	9.43	12.44	21.87	12.98
111	2007	75	1230	28.02	na	9.14	11.89	20.58	13.07
111	2007	75	1245	27.9	na	9.72	12.04	21.07	13.2
111	2007	75	1300	27.92	na	10.05	15.39	18.09	13.36
111	2007	75	1315	28.02	na	10.35	13.38	19.85	13.36
111	2007	75	1330	28.18	na	11.72	15.88	23.1	13.28
111	2007	75	1345	28.18	na	11.14	4.561	16.87	13.32
111	2007	75	1400	28.2	na	10.02	13.51	23.08	13.33
111	2007	75	1415	28.29	na	8.72	9.54	22.39	13.37
111	2007	75	1430	28.22	na	8.68	11.62	29.73	13.38
111	2007	75	1445	28.22	na	8.22	14.3	18.04	13.41
111	2007	75	1500	28.13	na	7.56	10.15	20.82	13.28
111	2007	75	1515	28.09	na	8.7	13.9	20.06	13.24
111	2007	75	1530	28.09	na	9.14	13.04	26.95	13.24
111	2007	75	1545	28.19	na	10.21	19.56	22.28	13.18
111	2007	75	1600	28.33	na	10.21	13.65	23.58	13.13
111	2007	75	1615	28.41	na	11.19	13.35	21.8	13.05
111	2007	75	1630	28.4	na	8.27	9.3	19.18	12.97
111	2007	75	1645	28.37	na	10.53	12.12	22.35	12.94
111	2007	75	1700	28.43	na	9.14	11.85	16.62	12.85
111	2007	75	1715	28.49	na	8.75	3.756	26	12.82
111	2007	75	1730	28.35	na	8.15	10.75	20.34	12.78
111	2007	75	1745	28.19	na	9.18	16.51	22.25	12.74
111	2007	75	1800	28.21	na	9.4	9.71	21.46	12.7
111	2007	75	1815	28.26	na	9.79	11.68	17.33	12.68
111	2007	75	1830	28.32	na	10.18	14.4	21.66	12.66

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	75	1845	28.2	na	11.11	13.6	22.24	12.64
111	2007	75	1900	28.11	na	10.5	14.57	21.43	12.62
111	2007	75	1915	28.01	na	10.03	8.38	23.42	12.61
111	2007	75	1930	27.86	na	9.23	0.883	21.78	12.6
111	2007	75	1945	27.79	na	10.18	11.1	23.06	12.6
111	2007	75	2000	27.83	na	9.96	3.929	21.06	12.56
111	2007	75	2015	27.93	na	10.2	1.618	14.51	12.57
111	2007	75	2030	27.91	na	10.86	10.21	24.08	12.56
111	2007	75	2045	27.89	na	12.37	11.69	21.24	12.56
111	2007	75	2100	27.96	na	12.26	7.68	30.65	12.54
111	2007	75	2115	28.31	na	11.64	9.71	21.21	12.56
111	2007	75	2130	28.79	na	10.05	13.37	24.9	12.56
111	2007	75	2145	29.15	na	10.28	9.9	26.52	12.55
111	2007	75	2200	29.6	na	10.26	10.44	19.38	12.54
111	2007	75	2215	30.23	na	10.14	6.551	19.61	12.56
111	2007	75	2230	30.91	na	10.58	8.92	24.31	12.56
111	2007	75	2245	31.46	na	11.76	15.56	22.66	12.56
111	2007	75	2300	31.71	na	11.73	21.13	18.04	12.54
111	2007	75	2315	31.97	na	14.15	16.71	20.83	12.56
111	2007	75	2330	32.23	na	10.63	19.83	23.82	12.56
111	2007	75	2345	32.45	na	10.8	5.839	21.31	12.56
111	2007	75	2400	32.74	na	11.44	15	26.05	12.55
111	2007	76	15	32.97	na	11.88	18.04	21.24	12.56
111	2007	76	30	33.18	na	12.25	21.64	17.08	12.56
111	2007	76	45	33.39	na	14.96	16.93	20.41	12.57
111	2007	76	100	33.57	na	14.78	19.22	23.49	12.56
111	2007	76	115	33.64	na	8.32	334.1	35.88	12.57
111	2007	76	130	33.66	na	11.05	1.675	30.93	12.56
111	2007	76	145	33.53	na	10.26	339.3	22.14	12.57
111	2007	76	200	32.85	na	9.38	326.2	21.97	12.56
111	2007	76	215	29.78	na	3.439	322	11.22	12.57
111	2007	76	230	29.12	na	na	na	na	12.57
111	2007	76	245	29.21	na	na	na	na	12.57
111	2007	76	300	28.98	na	na	na	na	12.56
111	2007	76	315	28.55	na	na	na	na	12.56
111	2007	76	330	28.35	na	na	na	na	12.56
111	2007	76	345	27.75	na	na	na	na	12.56
111	2007	76	400	27.63	na	na	na	na	12.54
111	2007	76	415	27.55	na	na	na	na	12.56
111	2007	76	430	27.67	na	na	na	na	12.55
111	2007	76	445	27.69	na	na	na	na	12.55
111	2007	76	500	27.36	na	na	na	na	12.53
111	2007	76	515	27.47	na	na	na	na	12.54
111	2007	76	530	27.74	na	na	na	na	12.54
111	2007	76	545	27.79	na	na	na	na	12.54
111	2007	76	600	27.5	na	na	na	na	12.52
111	2007	76	615	27.44	na	na	na	na	12.54
111	2007	76	630	27.39	na	na	na	na	12.54
111	2007	76	645	27.28	na	na	na	na	12.55
111	2007	76	700	26.81	na	na	na	na	12.53
111	2007	76	715	26.51	na	na	na	na	12.54
111	2007	76	730	26.44	na	na	na	na	12.54
111	2007	76	745	26.38	na	na	na	na	12.55
111	2007	76	800	26.41	na	na	na	na	12.52
111	2007	76	815	26.45	na	na	na	na	12.54
111	2007	76	830	26.53	na	na	na	na	12.6
111	2007	76	845	26.3	na	na	na	na	12.7
111	2007	76	900	26.19	na	na	na	na	12.74
111	2007	76	915	26.06	na	na	na	na	12.9
111	2007	76	930	25.96	na	na	na	na	13.14

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	76	945	26.04	na	na	na	na	14.01
111	2007	76	1000	26.39	na	na	na	na	13.99
111	2007	76	1015	26.65	na	na	na	na	13.99
111	2007	76	1030	26.8	na	na	na	na	13.99
111	2007	76	1045	26.64	na	na	na	na	13.98
111	2007	76	1100	26.93	na	na	na	na	14.02
111	2007	76	1115	27.46	na	na	na	na	13.97
111	2007	76	1130	27.96	na	na	na	na	13.96
111	2007	76	1145	28.81	na	na	na	na	13.95
111	2007	76	1200	29.21	na	na	na	na	13.94
111	2007	76	1215	29.85	na	na	na	na	13.94
111	2007	76	1230	30.73	na	1.42	275.5	26.15	13.93
111	2007	76	1245	30.96	na	5.345	276.9	30.07	13.92
111	2007	76	1300	31.3	na	3.491	273.2	28.57	13.92
111	2007	76	1315	31.41	na	6.443	264.3	32.17	13.92
111	2007	76	1330	31.34	na	7.01	258.1	29.71	13.92
111	2007	76	1345	31.66	na	5.332	255.1	38.02	13.92
111	2007	76	1400	32.19	na	6.032	270	36.04	13.91
111	2007	76	1415	32.95	na	7.43	267.3	29.41	13.91
111	2007	76	1430	33.39	na	5.974	259.4	32.08	13.9
111	2007	76	1445	34.42	na	4.197	257.4	36.9	13.89
111	2007	76	1500	34.57	na	6.074	249.6	36.64	13.87
111	2007	76	1515	35.69	na	5.187	248.3	35.35	13.85
111	2007	76	1530	36.24	na	6.483	227.3	27.04	13.84
111	2007	76	1545	36.89	na	5.378	235.9	33.76	13.83
111	2007	76	1600	36.94	na	5.855	233.3	25.57	13.81
111	2007	76	1615	36.07	na	5.109	245.3	22.75	13.83
111	2007	76	1630	35.97	na	4.591	229.6	29.4	13.83
111	2007	76	1645	36.02	na	5.847	214.7	26.7	13.83
111	2007	76	1700	36.16	na	6.632	232.4	27.76	13.84
111	2007	76	1715	35.94	na	7.79	238.8	27.26	13.85
111	2007	76	1730	35.48	na	7.2	241.1	34.94	13.67
111	2007	76	1745	35.29	na	5.92	244.5	25.45	13.34
111	2007	76	1800	35.06	na	5.195	241.9	33.63	13.16
111	2007	76	1815	34.48	na	7.21	255.9	31.71	13.09
111	2007	76	1830	33.85	na	6.998	247.8	30.41	13.03
111	2007	76	1845	33.3	na	8.1	243.8	29.79	12.98
111	2007	76	1900	32.91	na	6.344	253	35.5	12.93
111	2007	76	1915	32.62	na	6.322	252.3	29.15	12.93
111	2007	76	1930	32.3	na	7.49	253.2	32.14	12.91
111	2007	76	1945	31.81	na	6.811	261.7	32.3	12.9
111	2007	76	2000	31.18	na	7.09	260.7	31.69	12.88
111	2007	76	2015	30.48	na	8.43	250.4	28.1	12.87
111	2007	76	2030	29.86	na	6.773	251.9	37.16	12.86
111	2007	76	2045	29.44	na	8.11	248	37.67	12.85
111	2007	76	2100	28.75	na	6.896	261.7	35.11	12.83
111	2007	76	2115	28.28	na	7.65	259	31.42	12.83
111	2007	76	2130	28.17	na	7.64	267.3	35.66	12.82
111	2007	76	2145	27.76	na	7.83	267	34.08	12.81
111	2007	76	2200	27.35	na	7.6	264	27.34	12.8
111	2007	76	2215	27.17	na	6.634	263.8	32.71	12.8
111	2007	76	2230	26.76	na	7.95	272	28.99	12.79
111	2007	76	2245	26.42	na	5.988	269.4	29.72	12.78
111	2007	76	2300	26.43	na	7.21	257.9	28.42	12.76
111	2007	76	2315	26.44	na	6.318	266.6	34.2	12.77
111	2007	76	2330	26.54	na	5.728	272	28.77	12.76
111	2007	76	2345	26.47	na	5.825	268.9	32.02	12.76
111	2007	76	2400	26.52	na	5.3	267.1	29.06	12.74
111	2007	77	15	26.58	na	5.887	269.8	34.86	12.75
111	2007	77	30	26.61	na	6.519	263.6	34.28	12.74

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	77	45	26.42	na	7.12	270.3	31.46	12.74
111	2007	77	100	26.42	na	5.078	270.8	31.57	12.72
111	2007	77	115	26.31	na	5.185	251.6	31.22	12.72
111	2007	77	130	26.13	na	5.427	251.4	29.17	12.72
111	2007	77	145	25.92	na	5.143	255.1	31.04	12.71
111	2007	77	200	25.95	na	5.634	242.3	27.14	12.69
111	2007	77	215	25.83	na	5.38	241.1	30.14	12.7
111	2007	77	230	25.78	na	6	236.2	24.9	12.69
111	2007	77	245	25.82	na	5.946	241.7	25.08	12.68
111	2007	77	300	25.84	na	5.841	238.8	26.74	12.67
111	2007	77	315	25.85	na	6.078	237.9	26.04	12.68
111	2007	77	330	25.92	na	6.004	231.2	20.77	12.67
111	2007	77	345	25.75	na	4.966	236.1	22.98	12.66
111	2007	77	400	25.64	na	5.109	230.1	21.55	12.65
111	2007	77	415	25.57	na	5.692	222.3	19.31	12.65
111	2007	77	430	25.91	na	5.028	229	21.34	12.65
111	2007	77	445	26.46	na	5.592	231.3	28.82	12.64
111	2007	77	500	26.5	na	4.217	223.3	20.88	12.64
111	2007	77	515	26.32	na	3.245	233	20.13	12.64
111	2007	77	530	26.04	na	2.931	231.7	18.45	12.63
111	2007	77	545	26	na	3.146	235	19.26	12.63
111	2007	77	600	26.02	na	4.732	233.8	20.6	12.6
111	2007	77	615	26.13	na	4.11	242.2	28.89	12.61
111	2007	77	630	26.76	na	6.24	255.4	33.74	12.6
111	2007	77	645	26.84	na	4.919	262.3	34.99	12.6
111	2007	77	700	26.86	na	5.08	254.2	30.28	12.59
111	2007	77	715	26.71	na	4.821	258.8	30.42	12.58
111	2007	77	730	27.13	na	5.296	259.2	29.93	12.58
111	2007	77	745	27.55	na	4.77	255.8	30.5	12.58
111	2007	77	800	28.14	na	5.105	237.4	33.71	12.64
111	2007	77	815	28.61	na	6.692	234.8	28.23	12.83
111	2007	77	830	29.05	na	7.95	223	28.35	14
111	2007	77	845	29.37	na	6.455	240.7	27.02	13.98
111	2007	77	900	29.88	na	6.187	235.3	32.21	13.95
111	2007	77	915	29.92	na	8.19	241.4	30.82	13.95
111	2007	77	930	30.09	na	7.68	225.9	24.25	13.94
111	2007	77	945	30.78	na	6.368	231	25.4	13.93
111	2007	77	1000	30.98	na	8.63	229.7	30.16	13.92
111	2007	77	1015	31.01	na	8.34	228.3	27.82	13.91
111	2007	77	1030	31.54	na	8.21	229.1	26.45	13.9
111	2007	77	1045	31.74	na	9.38	224.9	34.8	13.89
111	2007	77	1100	31.94	na	9.16	229.6	32.45	13.88
111	2007	77	1115	32.78	na	8	230.7	31.45	13.87
111	2007	77	1130	33.18	na	8.44	231.7	31.98	13.85
111	2007	77	1145	33.1	na	7.92	255.9	38.57	13.84
111	2007	77	1200	33.88	na	7.53	250.7	32.83	13.83
111	2007	77	1215	34.2	na	7.9	233.7	33.57	13.83
111	2007	77	1230	33.48	na	10.24	245.7	33.7	13.84
111	2007	77	1245	33.26	na	9.45	249.7	31.05	13.85
111	2007	77	1300	33.35	na	10.39	242.2	26.84	13.85
111	2007	77	1315	33.65	na	9.42	260.6	34.4	13.85
111	2007	77	1330	34.02	na	10.71	243.8	28.94	13.85
111	2007	77	1345	34.77	na	9.51	248.2	37.05	13.85
111	2007	77	1400	35.01	na	9.02	258.7	36.52	13.85
111	2007	77	1415	35.44	na	10.18	248.2	33.68	13.85
111	2007	77	1430	35.92	na	9.47	255.7	38.05	13.84
111	2007	77	1445	36.14	na	10.29	240.7	38.31	13.84
111	2007	77	1500	36.28	na	11.68	238.5	28.25	13.83
111	2007	77	1515	36.59	na	9.46	254.3	35.82	13.83
111	2007	77	1530	37.39	na	9.04	251.3	32.67	13.82

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	77	1545	37.69	na	8.55	252.1	31.23	13.81
111	2007	77	1600	38.09	na	8.54	252.2	36.03	13.8
111	2007	77	1615	38.13	na	10.97	259.1	40.83	13.81
111	2007	77	1630	38.3	na	9.6	266.2	32.06	13.8
111	2007	77	1645	38.18	na	10.56	249.5	35.66	13.81
111	2007	77	1700	38.29	na	10.21	264.8	36.34	13.8
111	2007	77	1715	38.34	na	10.71	248.3	35.1	13.81
111	2007	77	1730	38.32	na	9.26	267.1	35.39	13.82
111	2007	77	1745	38.32	na	8.4	254	35.81	13.82
111	2007	77	1800	37.99	na	10.17	254.1	30.25	13.82
111	2007	77	1815	37.5	na	10.27	265.9	31.04	13.84
111	2007	77	1830	37.13	na	8.9	263	32.91	13.85
111	2007	77	1845	36.77	na	9.4	267.5	31.07	13.24
111	2007	77	1900	36.21	na	8.71	266.7	35.03	13.09
111	2007	77	1915	35.78	na	7.01	266.7	28.06	13.03
111	2007	77	1930	35.34	na	4.933	268.2	29.77	12.98
111	2007	77	1945	34.93	na	4.354	272.2	28.76	12.95
111	2007	77	2000	34.65	na	4.225	261.7	28.95	12.91
111	2007	77	2015	34.39	na	3.656	258.1	28.65	12.9
111	2007	77	2030	34.25	na	4.611	256	29.31	12.88
111	2007	77	2045	34.15	na	4.811	255	29.08	12.86
111	2007	77	2100	33.92	na	5.366	265.1	28.4	12.84
111	2007	77	2115	33.85	na	6.467	264.3	31.87	12.84
111	2007	77	2130	33.58	na	7.68	275.4	34	12.84
111	2007	77	2145	33.25	na	6.767	271.8	30.82	12.82
111	2007	77	2200	32.83	na	5.885	265.2	33.22	12.8
111	2007	77	2215	32.65	na	6.751	268.9	32.63	12.81
111	2007	77	2230	32.31	na	5.549	274.9	31.22	12.8
111	2007	77	2245	32.1	na	5.839	266.2	27.66	12.8
111	2007	77	2300	31.93	na	5.952	261.6	32.62	12.78
111	2007	77	2315	31.56	na	5.127	272.9	29.11	12.78
111	2007	77	2330	31.36	na	5.103	263.6	34.7	12.78
111	2007	77	2345	31.18	na	4.69	255	24.45	12.77
111	2007	77	2400	30.91	na	4.189	245.1	21.11	12.76
111	2007	78	15	30.47	na	3.629	238.5	19.64	12.76
111	2007	78	30	29.88	na	2.943	237.7	21.34	12.76
111	2007	78	45	29.27	na	2.557	235.6	17.83	12.75
111	2007	78	100	28.8	na	2.692	222	13.96	12.73
111	2007	78	115	28.58	na	3.068	219.3	13.42	12.74
111	2007	78	130	28.46	na	3.668	233.3	18.38	12.73
111	2007	78	145	28.62	na	3.698	240.8	20.17	12.72
111	2007	78	200	28.8	na	4.426	226.7	23.64	12.71
111	2007	78	215	28.7	na	3.756	226.2	17.92	12.72
111	2007	78	230	28.52	na	3.229	223	16.49	12.7
111	2007	78	245	28.63	na	2.641	231.8	20.26	12.7
111	2007	78	300	28.4	na	0.998	220.4	48	12.68
111	2007	78	315	27.17	na	1.027	168.8	22.66	12.68
111	2007	78	330	25.83	na	1.068	228.4	8.26	12.68
111	2007	78	345	25.59	na	1.444	247.3	12.81	12.68
111	2007	78	400	25.07	na	1.537	200.1	25.43	12.66
111	2007	78	415	23.71	na	0.828	184.1	27.55	12.66
111	2007	78	430	23.81	na	0.688	236.3	7.79	12.65
111	2007	78	445	24.24	na	2.257	229.9	19.66	12.65
111	2007	78	500	26.35	na	2.961	237.3	16.76	12.63
111	2007	78	515	26.6	na	3.012	225.6	15.73	12.64
111	2007	78	530	26.38	na	0.941	237.7	16.1	12.63
111	2007	78	545	26.15	na	2.148	234	18.18	12.63
111	2007	78	600	26.65	na	2.794	226.8	21.01	12.61
111	2007	78	615	27.07	na	3.33	217.1	16.38	12.62
111	2007	78	630	26.93	na	2.822	228.9	20.25	12.62

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	78	645	26.54	na	2.016	223.7	17.89	12.62
111	2007	78	700	26.01	na	1.416	235	23.06	12.6
111	2007	78	715	25.97	na	0.832	246.7	9.84	12.61
111	2007	78	730	26.11	na	2.012	239.6	23.53	12.6
111	2007	78	745	27.15	na	2.428	243.9	18.63	12.61
111	2007	78	800	28.94	na	2.426	227.3	26.83	12.67
111	2007	78	815	30.44	na	3.295	216.9	18.32	12.9
111	2007	78	830	31.55	na	3.879	219.7	21.08	14.01
111	2007	78	845	32.64	na	4.31	220.1	22.76	13.98
111	2007	78	900	33.46	na	5.221	221.8	25.04	13.95
111	2007	78	915	33.97	na	6.203	234	30.32	13.93
111	2007	78	930	34.41	na	6.298	229.7	24.16	13.9
111	2007	78	945	34.56	na	6.227	247.2	30.92	13.9
111	2007	78	1000	35.43	na	5.62	234.6	35.24	13.88
111	2007	78	1015	35.65	na	6.225	229.5	27.35	13.85
111	2007	78	1030	35.62	na	7.55	224	29.55	13.85
111	2007	78	1045	36.21	na	5.332	232.7	29.8	13.84
111	2007	78	1100	37.1	na	5.427	228.4	34.59	13.82
111	2007	78	1115	37.31	na	7	183.9	21.16	13.81
111	2007	78	1130	36.99	na	6.956	197.4	24.05	13.81
111	2007	78	1145	37.06	na	7.56	191.4	26.99	13.81
111	2007	78	1200	37.47	na	7.29	189.7	24.58	13.81
111	2007	78	1215	37.37	na	8.77	189.3	23.69	13.81
111	2007	78	1230	37.03	na	9.95	192.5	23.35	13.82
111	2007	78	1245	37.2	na	10.4	193.9	21.18	13.82
111	2007	78	1300	37.36	na	10.71	185.4	22.57	13.82
111	2007	78	1315	37.52	na	10.23	186.5	23.39	13.83
111	2007	78	1330	37.9	na	9.49	191.3	23.44	13.83
111	2007	78	1345	37.64	na	10.53	184.8	25.28	13.83
111	2007	78	1400	37.22	na	9.72	186.2	26.29	13.82
111	2007	78	1415	37.38	na	9.33	179.2	26.76	13.82
111	2007	78	1430	37.24	na	8.94	170.4	24.72	13.81
111	2007	78	1445	36.78	na	8.47	174.6	24.31	13.83
111	2007	78	1500	36.3	na	8.32	162.1	26.44	13.84
111	2007	78	1515	36.51	na	8.23	167.6	23.28	13.85
111	2007	78	1530	36.54	na	7.69	171.2	19.13	13.85
111	2007	78	1545	36.55	na	8.55	170	22.31	13.85
111	2007	78	1600	36.84	na	8.05	173.3	21.27	13.85
111	2007	78	1615	36.96	na	8.29	166.6	23.97	13.86
111	2007	78	1630	36.86	na	9.19	165.2	24.24	13.52
111	2007	78	1645	36.97	na	8.11	166	18.25	13.27
111	2007	78	1700	37.11	na	7.87	167.1	21.32	13.15
111	2007	78	1715	37.26	na	8.47	164.6	23.35	13.07
111	2007	78	1730	37.4	na	8.38	166.5	19.88	13.01
111	2007	78	1745	37.43	na	7.98	169.8	21.29	12.97
111	2007	78	1800	37.46	na	9.53	167.6	23.79	12.93
111	2007	78	1815	37.55	na	9.12	170.9	19.52	12.91
111	2007	78	1830	37.64	na	9.96	171.5	21.39	12.89
111	2007	78	1845	37.76	na	11.81	164.1	17.24	12.89
111	2007	78	1900	37.87	na	11.23	163.6	18.26	12.86
111	2007	78	1915	38.07	na	11.73	163.4	20.39	12.87
111	2007	78	1930	38.23	na	10.47	165.6	20.33	12.86
111	2007	78	1945	38.48	na	11.58	164.5	20.39	12.85
111	2007	78	2000	38.3	na	11.4	165.2	21.2	12.84
111	2007	78	2015	38.08	na	9.28	165.9	19.54	12.84
111	2007	78	2030	37.94	na	9.87	168.4	21.84	12.84
111	2007	78	2045	37.93	na	9.64	171.7	22.45	12.83
111	2007	78	2100	38.07	na	8.56	167.1	19.99	12.82
111	2007	78	2115	38.26	na	8.3	167	23.25	12.82
111	2007	78	2130	38.62	na	8.63	170.5	25.26	12.82

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	78	2145	38.91	na	9	169.3	23.54	12.81
111	2007	78	2200	39.17	na	7.9	168.9	24	12.8
111	2007	78	2215	39.4	na	6.845	164.9	21.2	12.81
111	2007	78	2230	39.48	na	7.04	166.8	24.48	12.81
111	2007	78	2245	39.6	na	6	174.2	23.38	12.8
111	2007	78	2300	39.78	na	6.362	176.1	26.7	12.78
111	2007	78	2315	39.86	na	6.324	178.7	24.18	12.79
111	2007	78	2330	39.99	na	6.34	173.1	20.81	12.79
111	2007	78	2345	40.11	na	6.02	168	21.84	12.79
111	2007	78	2400	40.28	na	7.51	168.7	18.92	12.77
111	2007	79	15	40.59	na	7.96	169.7	24.09	12.78
111	2007	79	30	40.84	na	7.45	179.2	25.24	12.78
111	2007	79	45	41.03	na	8.52	180.7	24.14	12.77
111	2007	79	100	41.18	na	9.06	183	24.52	12.75
111	2007	79	115	41.24	na	9.17	185.9	24.5	12.77
111	2007	79	130	41.34	na	9.87	193.2	22.91	12.76
111	2007	79	145	41.46	na	10.34	187.4	25.19	12.76
111	2007	79	200	41.5	na	10.06	181.9	22.23	12.74
111	2007	79	215	41.45	na	10.23	188.8	24.53	12.75
111	2007	79	230	41.43	na	10.34	194.2	22.48	12.74
111	2007	79	245	41.38	na	9.28	195.4	21.4	12.74
111	2007	79	300	41.33	na	10.04	197.2	17.41	12.73
111	2007	79	315	41.42	na	9.59	203.4	20.22	12.72
111	2007	79	330	41.59	na	9.48	205.4	21.02	12.73
111	2007	79	345	41.73	na	9.42	206.8	15.67	12.72
111	2007	79	400	41.82	na	8.96	211.6	16.02	12.7
111	2007	79	415	41.8	na	7.6	217.2	16.84	12.71
111	2007	79	430	41.72	na	6.195	216.2	15.2	12.71
111	2007	79	445	42.04	na	5.686	215.9	20.43	12.7
111	2007	79	500	42.61	na	6.887	215.3	14.75	12.68
111	2007	79	515	43.26	na	6.05	220.7	17.38	12.69
111	2007	79	530	43.85	na	6.561	223.3	20.74	12.69
111	2007	79	545	43.47	na	4.676	229.3	20.65	12.69
111	2007	79	600	42.88	na	5.459	212.1	11.32	12.67
111	2007	79	615	42.35	na	4.831	214.8	12.3	12.68
111	2007	79	630	42.01	na	4.845	219.5	18.08	12.67
111	2007	79	645	41.76	na	3.859	219.7	14.36	12.67
111	2007	79	700	40.83	na	3.778	212.7	13.67	12.65
111	2007	79	715	40.38	na	3.648	209.9	13.23	12.66
111	2007	79	730	40.41	na	4.016	208.5	14.86	12.65
111	2007	79	745	41.26	na	4.837	204.2	15.22	12.69
111	2007	79	800	42.15	na	5.809	218.1	20.44	12.76
111	2007	79	815	43.21	na	6.777	216.7	17.58	12.93
111	2007	79	830	44.31	na	8.21	215.5	16.12	13.36
111	2007	79	845	45.13	na	8.06	223	21.12	13.75
111	2007	79	900	45.78	na	8.09	222.6	23.45	13.73
111	2007	79	915	46.53	na	8.46	229	25.73	13.72
111	2007	79	930	46.74	na	7.79	242.6	25.04	13.71
111	2007	79	945	46.6	na	8.87	247.9	29.13	13.71
111	2007	79	1000	47.27	na	9.36	248.5	29.92	13.68
111	2007	79	1015	47.05	na	7.14	255.2	29.6	13.68
111	2007	79	1030	46.77	na	8.3	247.3	33.7	13.68
111	2007	79	1045	46.73	na	7.2	286.4	32	13.68
111	2007	79	1100	45.99	na	8.42	288.1	27.04	13.67
111	2007	79	1115	46.86	na	8.64	263.2	32.94	13.66
111	2007	79	1130	47.15	na	8.57	287	24.16	13.66
111	2007	79	1145	47.36	na	7.34	274.9	34.34	13.65
111	2007	79	1200	47.78	na	7.13	287.6	41.14	13.64
111	2007	79	1215	47.59	na	7.64	294.2	29.87	13.65
111	2007	79	1230	48.01	na	6.753	280.9	36.59	13.65

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	79	1245	48.46	na	7.61	277.9	38.09	13.65
111	2007	79	1300	48.31	na	8.71	274.3	33.56	13.66
111	2007	79	1315	48.57	na	9.24	277.8	32.3	13.66
111	2007	79	1330	48.2	na	10.94	266.3	33.31	13.68
111	2007	79	1345	48.18	na	9.15	285.3	31.19	13.68
111	2007	79	1400	47.52	na	10.64	289.6	29.63	13.67
111	2007	79	1415	47.28	na	9.81	288	24.76	13.68
111	2007	79	1430	47.01	na	9.95	286.4	30.67	13.68
111	2007	79	1445	46.6	na	9.93	291.1	28.09	13.68
111	2007	79	1500	46.22	na	10.33	277.6	30.97	13.67
111	2007	79	1515	46.29	na	9.51	284.3	29.03	13.68
111	2007	79	1530	45.95	na	10.41	292.7	24.32	13.67
111	2007	79	1545	45.48	na	10.49	297	26.06	13.68
111	2007	79	1600	45.41	na	9.69	283	30.32	13.67
111	2007	79	1615	45.04	na	9.74	270.3	29.43	13.68
111	2007	79	1630	44.58	na	8.71	278.3	35.46	13.69
111	2007	79	1645	44.31	na	8.99	272.9	31.09	13.72
111	2007	79	1700	44.22	na	8.87	285.5	31.71	13.68
111	2007	79	1715	44.02	na	8.11	283.2	27.53	13.7
111	2007	79	1730	43.89	na	7.32	285.4	29.45	13.7
111	2007	79	1745	43.72	na	8	290.3	21.87	13.72
111	2007	79	1800	43.43	na	7.01	291.9	32.25	13.72
111	2007	79	1815	42.94	na	8.13	279.8	29.1	13.74
111	2007	79	1830	42.51	na	8.32	286.4	27.13	13.76
111	2007	79	1845	42.22	na	5.911	277.9	28.64	13.72
111	2007	79	1900	41.65	na	5.922	285.2	24.09	13.07
111	2007	79	1915	41.07	na	5.443	292.1	25.16	13.01
111	2007	79	1930	40.5	na	5.161	304.1	25.42	12.97
111	2007	79	1945	39.94	na	5.177	299.1	19.77	12.93
111	2007	79	2000	39.45	na	4.672	293.8	28.35	12.89
111	2007	79	2015	39.07	na	4.917	292.7	22.4	12.89
111	2007	79	2030	38.64	na	4.63	291.2	23.88	12.87
111	2007	79	2045	38.14	na	3.798	291.7	28.12	12.85
111	2007	79	2100	37.55	na	3.197	278.8	27.71	12.83
111	2007	79	2115	37.14	na	2.708	278.1	28.87	12.83
111	2007	79	2130	36.74	na	3.515	296.2	21.57	12.81
111	2007	79	2145	36.52	na	4.173	308.9	27.65	12.8
111	2007	79	2200	36.22	na	4.406	298.4	24.37	12.78
111	2007	79	2215	35.72	na	3.163	303.2	27.76	12.78
111	2007	79	2230	35.29	na	2.46	346.3	22.87	12.78
111	2007	79	2245	34.87	na	4.088	339.2	28.84	12.78
111	2007	79	2300	34.53	na	4.497	327.9	20.2	12.75
111	2007	79	2315	34.13	na	3.73	325.7	19.91	12.77
111	2007	79	2330	33.79	na	3.627	325.5	20.48	12.76
111	2007	79	2345	33.32	na	3.682	338.1	20.5	12.75
111	2007	79	2400	33	na	5.35	335.2	30.98	12.74
111	2007	80	15	32.62	na	5.944	339.5	26.34	12.74
111	2007	80	30	31.9	na	6.759	339.4	28.74	12.73
111	2007	80	45	31.33	na	8.26	334.4	24.29	12.73
111	2007	80	100	30.87	na	7.36	326.7	23.92	12.71
111	2007	80	115	30.34	na	5.817	332.3	25.27	12.72
111	2007	80	130	29.88	na	5.551	341.8	22.67	12.72
111	2007	80	145	29.56	na	5.573	319.6	20.33	12.71
111	2007	80	200	29.31	na	5.594	330.3	23.43	12.7
111	2007	80	215	29.01	na	6.354	328.4	23.93	12.7
111	2007	80	230	28.67	na	4.871	319.6	22.92	12.7
111	2007	80	245	28.41	na	6.93	335	20.08	12.7
111	2007	80	300	28.15	na	6.129	339.9	23.5	12.68
111	2007	80	315	27.82	na	6.682	336	23.66	12.69
111	2007	80	330	27.48	na	6.165	333.3	20.81	12.67

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	80	345	27.3	na	8.25	336	21.13	12.67
111	2007	80	400	27.12	na	8.28	335.6	21.24	12.66
111	2007	80	415	26.81	na	6.956	345.4	19.71	12.66
111	2007	80	430	26.54	na	6.38	342.7	26.02	12.66
111	2007	80	445	26.33	na	5.881	343.2	20.78	12.66
111	2007	80	500	26.16	na	6.922	338.3	21.8	12.64
111	2007	80	515	25.97	na	6.386	341.8	20.93	12.64
111	2007	80	530	25.8	na	6.294	335.8	23.92	12.64
111	2007	80	545	25.64	na	6.083	336.7	20.96	12.64
111	2007	80	600	25.53	na	6.219	342.5	21.76	12.62
111	2007	80	615	25.4	na	5.98	343.7	24.62	12.62
111	2007	80	630	25.23	na	4.797	345	21.14	12.62
111	2007	80	645	25.08	na	5.98	349.4	21.86	12.62
111	2007	80	700	25.03	na	6.6	346.4	21.84	12.6
111	2007	80	715	24.96	na	6.171	345.9	22.01	12.6
111	2007	80	730	25.19	na	6.992	347.9	22.22	12.6
111	2007	80	745	25.54	na	7.71	353.3	18.03	12.61
111	2007	80	800	25.93	na	8.02	355.2	25.72	12.65
111	2007	80	815	26.25	na	8.34	355.7	20.53	12.83
111	2007	80	830	26.66	na	8.5	7	23.31	13.97
111	2007	80	845	27.36	na	7.03	9.38	26.3	14.01
111	2007	80	900	27.56	na	8.36	7.59	21.85	14
111	2007	80	915	28.01	na	7.11	21.57	24.45	13.98
111	2007	80	930	28.53	na	6.658	20.8	25.7	13.97
111	2007	80	945	28.98	na	7.41	29.22	17.85	13.96
111	2007	80	1000	29.35	na	6.129	13.8	22.73	13.94
111	2007	80	1015	30.03	na	5.74	29.27	29.4	13.94
111	2007	80	1030	30.2	na	5.247	76.3	41.26	13.92
111	2007	80	1045	30.96	na	5.247	89.7	29.73	13.91
111	2007	80	1100	30.72	na	7.22	113.5	19.62	13.9
111	2007	80	1115	31.23	na	6.479	99.7	24.96	13.9
111	2007	80	1130	31.49	na	6.831	92.1	23.68	13.89
111	2007	80	1145	31.37	na	7.33	97.6	25.21	13.88
111	2007	80	1200	31.6	na	7.42	86	27.58	13.87
111	2007	80	1215	31.52	na	7.68	91.9	21.41	13.88
111	2007	80	1230	31.94	na	7.48	100.9	24.81	13.88
111	2007	80	1245	32.47	na	8.3	93.4	26.24	13.88
111	2007	80	1300	32.86	na	8.15	105	24.73	13.88
111	2007	80	1315	32.63	na	7.99	101.7	19.77	13.89
111	2007	80	1330	32.9	na	8.19	99	19.17	13.9
111	2007	80	1345	32.66	na	8.77	94.4	21.39	13.9
111	2007	80	1400	32.87	na	7.96	90.3	21.15	13.89
111	2007	80	1415	33.13	na	7.78	73.3	21.82	13.9
111	2007	80	1430	33.52	na	8.05	86.9	22.87	13.89
111	2007	80	1445	33.39	na	8.27	93.3	19.15	13.88
111	2007	80	1500	33.98	na	7.33	84.5	27.46	13.87
111	2007	80	1515	34.65	na	3.973	83.2	35.14	13.87
111	2007	80	1530	34.44	na	6.535	164.1	21.21	13.85
111	2007	80	1545	34.36	na	6.894	163.2	22.16	13.84
111	2007	80	1600	34.51	na	7.16	175.5	19.02	13.84
111	2007	80	1615	34.9	na	7.47	186.3	21.34	13.84
111	2007	80	1630	35.19	na	6.477	189.2	24.08	13.84
111	2007	80	1645	35.13	na	6.944	188.5	27.1	13.84
111	2007	80	1700	35.24	na	6.37	208	20.91	13.83
111	2007	80	1715	35.18	na	6.413	206	22.29	13.85
111	2007	80	1730	35.35	na	6.501	210.9	21.92	13.85
111	2007	80	1745	35.02	na	6.072	216.6	22.67	13.86
111	2007	80	1800	34.96	na	5.37	211.8	21.04	13.87
111	2007	80	1815	35.23	na	4.714	220.1	20.6	13.33
111	2007	80	1830	35.17	na	5.245	222.7	24.71	13.09

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	80	1845	35.33	na	3.263	223.4	21.26	13.02
111	2007	80	1900	35.27	na	5.471	215.6	20.08	12.96
111	2007	80	1915	35.38	na	5.115	225.3	18.79	12.94
111	2007	80	1930	35.55	na	3.776	222	24.88	12.95
111	2007	80	1945	35.81	na	3.592	213.4	21.22	12.89
111	2007	80	2000	35.89	na	3.923	212.8	21.28	12.87
111	2007	80	2015	36.26	na	3.484	222.9	16.61	12.92
111	2007	80	2030	36.37	na	5.052	221	20.93	12.87
111	2007	80	2045	36.61	na	4.042	219.2	16.7	12.85
111	2007	80	2100	36.75	na	4.628	221.5	19.17	12.84
111	2007	80	2115	36.9	na	5.684	218.6	22.99	12.85
111	2007	80	2130	37.08	na	5.026	225.5	19.28	12.84
111	2007	80	2145	37.22	na	5.587	232.4	18.36	12.83
111	2007	80	2200	37.3	na	5.604	228.8	19.17	12.81
111	2007	80	2215	37.42	na	3.179	237.1	21.06	12.83
111	2007	80	2230	37.51	na	3.483	234.4	22.49	12.82
111	2007	80	2245	37.65	na	2.566	236.9	21.59	12.81
111	2007	80	2300	37.75	na	2.532	238.2	19.02	12.8
111	2007	80	2315	37.87	na	3.025	238	22.24	12.81
111	2007	80	2330	37.9	na	2.903	238.9	22.09	12.81
111	2007	80	2345	37.99	na	2.758	233.3	18.81	12.79
111	2007	80	2400	38.09	na	1.47	242.9	19.91	12.78
111	2007	81	15	38.15	na	1.313	242.1	15.45	12.79
111	2007	81	30	38.2	na	1.126	246.5	15.47	12.78
111	2007	81	45	38.26	na	1.136	247.8	18.47	12.79
111	2007	81	100	38.29	na	1.08	245.8	14.83	12.76
111	2007	81	115	38.34	na	1.209	261	16.94	12.77
111	2007	81	130	38.37	na	0.372	268.1	10.04	12.76
111	2007	81	145	38.43	na	0.09	264.6	6.642	12.77
111	2007	81	200	38.51	na	0.051	248.4	3.651	12.75
111	2007	81	215	38.58	na	0.199	264.4	3.103	12.75
111	2007	81	230	38.62	na	na	na	na	12.75
111	2007	81	245	38.79	na	na	na	na	12.74
111	2007	81	300	38.98	na	0.401	280.6	12.89	12.73
111	2007	81	315	39.16	na	0.143	260.3	9.7	12.73
111	2007	81	330	39.37	na	0.273	272.1	6.726	12.72
111	2007	81	345	39.57	na	0.69	282.5	12.32	12.75
111	2007	81	400	39.68	na	0.982	277.4	12.87	12.71
111	2007	81	415	39.72	na	0.732	281.8	9.45	12.71
111	2007	81	430	39.46	na	0.823	285.9	12.4	12.71
111	2007	81	445	39.29	na	0.17	291.1	7.53	12.7
111	2007	81	500	39.23	na	0.154	238.3	4.134	12.69
111	2007	81	515	39.35	na	0.018	230	2.351	12.69
111	2007	81	530	39.44	na	0.35	215	8.63	12.69
111	2007	81	545	39.28	na	0.038	224.2	2.408	12.69
111	2007	81	600	39.29	na	na	na	na	12.66
111	2007	81	615	39.21	na	na	na	na	12.67
111	2007	81	630	39.26	na	na	na	na	12.67
111	2007	81	645	39.44	na	na	na	na	12.67
111	2007	81	700	39.59	na	0.116	260.9	2.075	12.66
111	2007	81	715	39.44	na	0.776	240.9	11.23	12.67
111	2007	81	730	39.54	na	1.652	242.3	15.58	12.66
111	2007	81	745	39.91	na	1.373	269.9	18.74	12.66
111	2007	81	800	40.09	na	1.421	266.6	17.23	12.65
111	2007	81	815	40.16	na	2.732	256.9	21.86	12.66
111	2007	81	830	40.19	na	2.305	248.1	21.44	12.73
111	2007	81	845	40.24	na	3.667	245.5	18.34	12.9
111	2007	81	900	40.67	na	4.012	246.7	18.12	13.09
111	2007	81	915	41.11	na	4.34	253.1	18.02	12.98
111	2007	81	930	41.25	na	4.215	251.4	20.46	13.14

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	81	945	41.54	na	4.63	254.1	22.64	13.13
111	2007	81	1000	41.68	na	4.446	252.2	18.9	13.32
111	2007	81	1015	41.73	na	5.887	260	20.69	13.75
111	2007	81	1030	41.85	na	6.26	261.7	21.95	13.67
111	2007	81	1045	42.18	na	5.239	258.8	24.4	13.81
111	2007	81	1100	42.25	na	5.29	256.1	21.41	13.75
111	2007	81	1115	42.54	na	6.089	255.2	20.54	13.75
111	2007	81	1130	42.79	na	5.918	251.4	20.17	13.75
111	2007	81	1145	42.81	na	6.095	254.4	21.29	13.74
111	2007	81	1200	43.38	na	5.453	254.2	19.74	13.74
111	2007	81	1215	44.44	na	6.57	265.8	21.34	13.77
111	2007	81	1230	44.8	na	7.94	262.4	21.63	13.72
111	2007	81	1245	45.2	na	7.57	262.2	23.02	13.71
111	2007	81	1300	45.58	na	8.09	268.5	22.41	13.74
111	2007	81	1315	45.93	na	8.41	272.5	24.87	13.69
111	2007	81	1330	46.5	na	8.52	269.6	24.95	13.74
111	2007	81	1345	46.96	na	9.17	270.5	20.88	13.68
111	2007	81	1400	47.04	na	9.11	274.9	19.32	13.67
111	2007	81	1415	48.59	na	8.19	274.9	20.63	13.66
111	2007	81	1430	49.25	na	10.9	270.5	19.74	13.66
111	2007	81	1445	49.47	na	9.85	277.7	21.49	13.66
111	2007	81	1500	50.69	na	8.19	270.8	20.33	13.63
111	2007	81	1515	51.15	na	9.11	270.5	22.64	13.63
111	2007	81	1530	50.85	na	8.8	265.8	26.28	13.62
111	2007	81	1545	50.84	na	9.12	279.3	24.3	13.62
111	2007	81	1600	50.26	na	9.66	274.7	24.27	13.62
111	2007	81	1615	50.02	na	9.39	268.4	28.67	13.63
111	2007	81	1630	49.8	na	9.51	280.1	20.92	13.62
111	2007	81	1645	49.87	na	10.06	279.8	23.73	13.63
111	2007	81	1700	49.75	na	9.78	276.2	27.63	13.63
111	2007	81	1715	49.18	na	9.99	274.1	24.35	13.64
111	2007	81	1730	48.63	na	9.5	271.1	23.12	13.66
111	2007	81	1745	48.31	na	9.73	270.6	22.64	13.67
111	2007	81	1800	48.41	na	9.91	272	22.5	13.66
111	2007	81	1815	48.61	na	9.93	274.1	23.31	13.22
111	2007	81	1830	48.23	na	10.53	268.1	23.11	13.07
111	2007	81	1845	47.93	na	9.29	279.7	19.37	13.02
111	2007	81	1900	47.74	na	10.42	282	21.01	12.97
111	2007	81	1915	47.62	na	10.74	276.8	22.36	12.95
111	2007	81	1930	47.61	na	10.83	283	23.48	12.94
111	2007	81	1945	47.45	na	10.4	280.1	15.4	12.92
111	2007	81	2000	47.15	na	9.95	275.4	22.18	12.9
111	2007	81	2015	46.99	na	10.41	281	20.86	12.9
111	2007	81	2030	46.91	na	9.17	288.1	20.67	12.89
111	2007	81	2045	46.81	na	8.84	284.4	20.61	12.88
111	2007	81	2100	46.74	na	7.18	278.7	21.96	12.86
111	2007	81	2115	46.69	na	7.06	278.2	19.19	12.86
111	2007	81	2130	46.46	na	6.547	274.4	23.69	12.86
111	2007	81	2145	46.32	na	8.53	275.9	22.75	12.86
111	2007	81	2200	46.14	na	8.22	269.5	22.08	12.83
111	2007	81	2215	46.1	na	7.97	266.7	21.62	12.84
111	2007	81	2230	46.4	na	8.16	280.8	16.45	12.84
111	2007	81	2245	46.51	na	7.85	274.6	21.17	12.84
111	2007	81	2300	46.28	na	6.483	271.7	22.38	12.82
111	2007	81	2315	45.83	na	6.235	269.9	19.16	12.83
111	2007	81	2330	45.69	na	5.646	274.2	23.63	12.82
111	2007	81	2345	46.25	na	7.26	273.6	22.71	12.82
111	2007	81	2400	46.19	na	7.67	274.5	23.11	12.8
111	2007	82	15	45.84	na	6.568	271	21.87	12.81
111	2007	82	30	45.7	na	7.08	267.4	21.5	12.81

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	82	45	45.78	na	7.53	274.2	19.13	12.8
111	2007	82	100	46.03	na	7.26	275.6	20.19	12.79
111	2007	82	115	46.1	na	7.28	281.8	22.38	12.8
111	2007	82	130	46.06	na	6.527	283.7	21.59	12.79
111	2007	82	145	46.07	na	6.861	278.5	22.55	12.78
111	2007	82	200	45.97	na	6.755	280.7	21.6	12.76
111	2007	82	215	45.83	na	6.095	282.8	23.63	12.78
111	2007	82	230	45.83	na	5.646	273.5	22.83	12.77
111	2007	82	245	45.98	na	7.6	274.1	19.23	12.77
111	2007	82	300	46	na	6.634	279.8	18.5	12.75
111	2007	82	315	46.25	na	5.95	285.7	18.66	12.76
111	2007	82	330	46.61	na	5.354	277.6	18.16	12.75
111	2007	82	345	46.99	na	5.203	282.5	17.75	12.74
111	2007	82	400	47.35	na	5.537	288.1	16.58	12.73
111	2007	82	415	47.36	na	3.863	287.4	19.98	12.74
111	2007	82	430	47.42	na	2.922	285.8	17.68	12.73
111	2007	82	445	47.77	na	2.474	285.8	15.69	12.72
111	2007	82	500	47.74	na	3.698	289.7	20.06	12.71
111	2007	82	515	47.71	na	3.739	300.5	16.76	12.72
111	2007	82	530	47.73	na	2.642	294	15.81	12.71
111	2007	82	545	47.56	na	1.276	292.3	12.28	12.71
111	2007	82	600	47.24	na	0.073	303	4.193	12.69
111	2007	82	615	47	na	na	na	na	12.7
111	2007	82	630	46.56	na	na	na	na	12.7
111	2007	82	645	46.31	na	na	na	na	12.69
111	2007	82	700	46.21	na	na	na	na	12.68
111	2007	82	715	46.07	na	na	na	na	12.68
111	2007	82	730	46.18	na	na	na	na	12.72
111	2007	82	745	46.7	na	na	na	na	12.7
111	2007	82	800	46.98	na	na	na	na	12.92
111	2007	82	815	48.21	na	na	na	na	13.2
111	2007	82	830	49.36	na	na	na	na	13.41
111	2007	82	845	50.7	na	na	na	na	13.68
111	2007	82	900	52.38	na	0.009	317.4	0	13.66
111	2007	82	915	54.3	na	0.523	303.6	12.09	13.64
111	2007	82	930	56.11	na	0.958	319.2	16.76	13.62
111	2007	82	945	56.91	na	0.847	340.5	21.15	13.62
111	2007	82	1000	57.51	na	2.728	8.83	29.15	13.6
111	2007	82	1015	58.3	na	4.481	15.82	23.86	13.64
111	2007	82	1030	58.59	na	4.487	17.26	24.17	13.57
111	2007	82	1045	58.43	na	4.913	9.87	26.56	13.57
111	2007	82	1100	58.66	na	3.689	0.097	27.94	13.56
111	2007	82	1115	58.68	na	4.539	25.09	23.64	13.56
111	2007	82	1130	58.35	na	4.28	15.37	25.24	13.56
111	2007	82	1145	58.6	na	3.931	356.8	35.23	13.55
111	2007	82	1200	58.37	na	4.312	0.158	34.27	13.55
111	2007	82	1215	58.05	na	4.082	348.7	31.64	13.55
111	2007	82	1230	58.16	na	4.468	5.362	32.85	13.55
111	2007	82	1245	57.89	na	6.068	15.48	29.1	13.55
111	2007	82	1300	57.19	na	6.547	9.66	32.53	13.31
111	2007	82	1315	56.44	na	6.123	4.542	31.52	13.15
111	2007	82	1330	54.66	na	5.773	8.63	26.15	13.34
111	2007	82	1345	52.86	na	4.879	10.34	26.95	13.59
111	2007	82	1400	51.49	na	3.988	6.335	27.37	13.12
111	2007	82	1415	50.25	na	2.725	11.69	22.86	13.2
111	2007	82	1430	49.24	na	2.159	20.35	23.3	13.66
111	2007	82	1445	48.82	na	0.4	350.4	15.77	13.2
111	2007	82	1500	48.79	na	0.234	325.9	5.083	13.07
111	2007	82	1515	48.5	na	2.071	340.8	26.06	13.68
111	2007	82	1530	48.4	na	1.57	332.4	24.48	13.68

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	82	1545	48.79	na	2.808	302.1	17.95	13.34
111	2007	82	1600	48.9	na	3.768	297.4	15.22	13.04
111	2007	82	1615	49.01	na	4.485	289.7	13.76	13.69
111	2007	82	1630	49.45	na	4.571	286.8	18.33	13.73
111	2007	82	1645	50.01	na	2.528	327.6	29.7	13.68
111	2007	82	1700	50.47	na	2.775	338.2	29.62	13.4
111	2007	82	1715	50.61	na	2.606	316	23.14	13.37
111	2007	82	1730	50.86	na	3.006	317.7	22.84	13.1
111	2007	82	1745	50.99	na	3.317	316.4	22.79	13.03
111	2007	82	1800	51.09	na	1.212	344	20.6	12.97
111	2007	82	1815	51.01	na	1.347	347.9	24.52	12.94
111	2007	82	1830	50.87	na	1.06	16.07	21.92	12.92
111	2007	82	1845	50.82	na	1.047	358	24.72	12.91
111	2007	82	1900	50.61	na	1.086	3.841	22.2	12.88
111	2007	82	1915	50.41	na	0.534	337	22.22	12.88
111	2007	82	1930	50.25	na	0.534	343.7	18.03	12.88
111	2007	82	1945	50	na	0.23	324.6	6.525	12.87
111	2007	82	2000	49.8	na	0.447	304.6	12.95	12.86
111	2007	82	2015	49.76	na	0	0	0	12.86
111	2007	82	2030	49.79	na	0.13	334.5	5.511	12.85
111	2007	82	2045	49.67	na	0.011	338	0.007	12.84
111	2007	82	2100	49.55	na	0.192	5.773	9.2	12.84
111	2007	82	2115	49.45	na	na	na	na	12.84
111	2007	82	2130	49.18	na	na	na	na	12.84
111	2007	82	2145	49.03	na	na	na	na	12.83
111	2007	82	2200	48.85	na	na	na	na	12.82
111	2007	82	2215	48.7	na	na	na	na	12.82
111	2007	82	2230	48.6	na	na	na	na	12.82
111	2007	82	2245	48.32	na	na	na	na	12.81
111	2007	82	2300	47.73	na	na	na	na	12.8
111	2007	82	2315	47.89	na	na	na	na	12.8
111	2007	82	2330	47.56	na	na	na	na	12.8
111	2007	82	2345	46.71	na	na	na	na	12.79
111	2007	82	2400	45.71	na	na	na	na	12.76
111	2007	83	15	44.82	na	0.195	285.5	1.613	12.77
111	2007	83	30	44.01	na	na	na	na	12.77
111	2007	83	45	43.51	na	na	na	na	12.75
111	2007	83	100	43.16	na	na	na	na	12.74
111	2007	83	115	42.95	na	na	na	na	12.74
111	2007	83	130	42.28	na	na	na	na	12.79
111	2007	83	145	41.68	na	na	na	na	12.72
111	2007	83	200	41.28	na	na	na	na	12.69
111	2007	83	215	41.34	na	0.037	5.648	1.188	12.71
111	2007	83	230	41.85	na	na	na	na	12.7
111	2007	83	245	42.19	na	0.102	40.81	5.353	12.69
111	2007	83	300	42.51	na	0.366	80.1	10.09	12.67
111	2007	83	315	42.75	na	0.532	87	13.75	12.67
111	2007	83	330	42.9	na	1.525	78.5	17.17	12.67
111	2007	83	345	43	na	2.632	62.88	15.03	12.67
111	2007	83	400	43.17	na	3.881	69.54	20.4	12.65
111	2007	83	415	43.45	na	5.181	70.3	16.98	12.66
111	2007	83	430	43.36	na	4.201	75.7	18.49	12.66
111	2007	83	445	43.14	na	3.879	72.5	16.74	12.65
111	2007	83	500	42.86	na	3.817	68.27	17.27	12.64
111	2007	83	515	42.76	na	3.633	59.29	18.33	12.65
111	2007	83	530	42.76	na	3.867	72.8	19.4	12.65
111	2007	83	545	42.93	na	3.682	74.6	21.72	12.65
111	2007	83	600	43.18	na	4.177	73.4	17.39	12.63
111	2007	83	615	43.16	na	4.614	69.99	15.5	12.65
111	2007	83	630	43.04	na	4.676	79	16.47	12.69

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	83	645	43.23	na	5.199	83.2	19.32	12.65
111	2007	83	700	43.2	na	6.473	90.9	17.12	12.63
111	2007	83	715	42.98	na	6.459	95.3	18.23	12.65
111	2007	83	730	42.77	na	7.1	112.9	17.52	12.64
111	2007	83	745	42.6	na	6.646	110	19.06	12.79
111	2007	83	800	42.72	na	6.819	108.5	22.14	12.8
111	2007	83	815	42.9	na	6.694	117.7	20.48	12.97
111	2007	83	830	43.35	na	6.614	117.4	19.22	13.44
111	2007	83	845	43.74	na	5.954	110.5	17.71	13.79
111	2007	83	900	44.08	na	6.962	112.9	20.72	13.75
111	2007	83	915	44.54	na	6.264	112.4	17.08	13.74
111	2007	83	930	45.23	na	6.616	119.4	20.43	13.72
111	2007	83	945	46.57	na	6.244	123.3	18.07	13.75
111	2007	83	1000	47.48	na	7.97	135.3	19.8	13.68
111	2007	83	1015	48.34	na	7.47	137.4	25.1	13.67
111	2007	83	1030	48.23	na	10.38	151.1	18.62	13.66
111	2007	83	1045	48.23	na	9.09	146.1	19.03	13.66
111	2007	83	1100	48.01	na	9.87	148.1	18.99	13.64
111	2007	83	1115	48.39	na	9.31	148.9	17.88	13.64
111	2007	83	1130	48.43	na	10.21	159.2	14.51	13.65
111	2007	83	1145	48.32	na	10.24	155.2	19.4	13.64
111	2007	83	1200	47.98	na	10.47	150.9	19.74	13.64
111	2007	83	1215	48.64	na	9.23	160.8	17.64	13.64
111	2007	83	1230	48.36	na	10.42	160.3	22.33	13.64
111	2007	83	1245	48.23	na	10.08	146.8	17.69	13.7
111	2007	83	1300	48.16	na	10.79	144.9	20.96	13.65
111	2007	83	1315	48.35	na	9.81	145.2	18.01	13.66
111	2007	83	1330	48.63	na	10.7	136	19.28	13.66
111	2007	83	1345	48.41	na	11.21	133.2	16.17	13.67
111	2007	83	1400	48.95	na	9.77	154	20.84	13.66
111	2007	83	1415	48.35	na	10.28	165.5	21.78	13.66
111	2007	83	1430	48.16	na	9.42	166.1	20.22	13.66
111	2007	83	1445	47.93	na	9.28	160.6	21.5	13.66
111	2007	83	1500	46.43	na	8.72	182.7	15.68	13.65
111	2007	83	1515	45.12	na	8.22	179	15.53	13.68
111	2007	83	1530	44.74	na	7.68	151.5	17.69	13.69
111	2007	83	1545	44.46	na	8.54	156.6	19.63	13.74
111	2007	83	1600	44.49	na	7.12	166	23.45	13.68
111	2007	83	1615	43.85	na	7.82	170.8	17.81	13.7
111	2007	83	1630	44.1	na	8.94	173	17.37	13.7
111	2007	83	1645	44.24	na	8.34	161.3	19.31	13.7
111	2007	83	1700	43.8	na	8.97	169.5	19.76	13.7
111	2007	83	1715	43.25	na	7.34	168.8	20.63	13.41
111	2007	83	1730	43.01	na	7.67	167.1	18.81	13.21
111	2007	83	1745	42.41	na	6.841	175.6	18.46	13.16
111	2007	83	1800	41.89	na	8.48	170	16.77	13.3
111	2007	83	1815	41.73	na	7.54	169.3	18.72	13.14
111	2007	83	1830	41.63	na	6.64	172.7	20.42	13.02
111	2007	83	1845	41.48	na	5.483	169.1	22.01	12.97
111	2007	83	1900	41.34	na	6.25	171.2	20.68	12.93
111	2007	83	1915	41.4	na	4.652	174.5	20.35	12.91
111	2007	83	1930	41.26	na	5.338	180.4	16.05	12.9
111	2007	83	1945	41.02	na	4.694	164.9	18.33	12.88
111	2007	83	2000	40.93	na	4.71	149.3	28.22	12.86
111	2007	83	2015	40.94	na	4.646	78.1	17.31	12.85
111	2007	83	2030	40.7	na	5.394	74.5	17.79	12.85
111	2007	83	2045	40.46	na	4.346	108	29.74	12.84
111	2007	83	2100	40.42	na	4.634	130.6	18.44	12.82
111	2007	83	2115	40.53	na	3.527	93.1	41.85	12.83
111	2007	83	2130	40.47	na	4.046	103.8	49.61	12.81

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	83	2145	40.04	na	4.603	155	17.45	12.81
111	2007	83	2200	39.84	na	2.917	161.3	21.15	12.79
111	2007	83	2215	39.65	na	3.122	150.9	24.8	12.8
111	2007	83	2230	39.63	na	3.491	87.4	36.5	12.79
111	2007	83	2245	39.68	na	1.989	114.5	19.44	12.79
111	2007	83	2300	39.63	na	3.176	131.5	20.79	12.77
111	2007	83	2315	39.57	na	3.672	166.8	19.58	12.79
111	2007	83	2330	39.57	na	3.877	157.9	19.58	12.78
111	2007	83	2345	39.5	na	4.225	163.4	19.6	12.78
111	2007	83	2400	39.48	na	4.925	153.5	17.59	12.76
111	2007	84	15	39.48	na	4.978	143.2	15.2	12.77
111	2007	84	30	39.46	na	4.078	158.3	19.22	12.77
111	2007	84	45	39.52	na	4.591	161.3	22.31	12.77
111	2007	84	100	39.53	na	4.835	162.1	21.89	12.79
111	2007	84	115	39.17	na	4.032	155.6	18.38	12.75
111	2007	84	130	39.02	na	3.817	161.9	18.25	12.75
111	2007	84	145	38.82	na	3.167	135.2	24.11	12.74
111	2007	84	200	38.81	na	3.821	143.7	24.77	12.73
111	2007	84	215	38.83	na	3.953	141.8	19.47	12.73
111	2007	84	230	38.84	na	2.821	138.3	17.59	12.73
111	2007	84	245	38.89	na	2.962	143.2	22.08	12.73
111	2007	84	300	39.02	na	2.774	111.1	18.29	12.71
111	2007	84	315	38.95	na	2.283	113.4	23.71	12.71
111	2007	84	330	38.87	na	3.006	87.1	19.15	12.7
111	2007	84	345	38.71	na	3.1	89.7	18.78	12.7
111	2007	84	400	38.61	na	3.78	84.1	16.97	12.69
111	2007	84	415	38.61	na	2.851	106.7	18.39	12.69
111	2007	84	430	38.63	na	3.676	97.1	13.26	12.69
111	2007	84	445	38.57	na	4.776	88.2	16.83	12.67
111	2007	84	500	38.18	na	4.913	91.3	17.13	12.65
111	2007	84	515	37.96	na	4.845	80.5	26.01	12.67
111	2007	84	530	37.49	na	4.422	68.88	17.17	12.66
111	2007	84	545	37.16	na	5.696	81.9	17.46	12.65
111	2007	84	600	36.91	na	7	83.9	19.11	12.63
111	2007	84	615	36.42	na	7.46	89	17.51	12.64
111	2007	84	630	36.09	na	6.642	82.9	19.8	12.71
111	2007	84	645	36	na	6.326	85.7	21.92	12.63
111	2007	84	700	36.01	na	6.733	76.2	18.6	12.61
111	2007	84	715	36.12	na	6.588	75.2	17.22	12.69
111	2007	84	730	36.14	na	5.771	74.7	18.56	12.67
111	2007	84	745	36.44	na	5.855	69.92	18.45	12.68
111	2007	84	800	36.46	na	6.543	71.5	22.63	12.83
111	2007	84	815	36.49	na	7.75	75.1	18.38	12.88
111	2007	84	830	36.76	na	6.545	74.1	20.3	13.55
111	2007	84	845	37.58	na	5.235	60.36	25.61	13.83
111	2007	84	900	38.14	na	6.9	57.35	22.53	13.82
111	2007	84	915	37.88	na	6.877	63.43	21.95	13.82
111	2007	84	930	37.54	na	7.33	67.99	16.82	13.83
111	2007	84	945	38.17	na	6.396	64.51	22.28	13.81
111	2007	84	1000	38.81	na	7.09	68.29	23.7	13.79
111	2007	84	1015	38.89	na	7.62	68.05	19.53	13.79
111	2007	84	1030	39.31	na	7.66	72	19.39	13.79
111	2007	84	1045	39.32	na	6.578	57.22	29.29	13.79
111	2007	84	1100	40.09	na	6.835	77.6	21.54	13.77
111	2007	84	1115	40.69	na	7.38	74	25.06	13.77
111	2007	84	1130	41.61	na	7.84	78.7	20.68	13.81
111	2007	84	1145	42.13	na	7.19	73.6	30.65	13.75
111	2007	84	1200	42.87	na	7.66	72	22.58	13.73
111	2007	84	1215	43.71	na	6.437	54.74	26.73	13.72
111	2007	84	1230	43.82	na	6.608	67.08	21.83	13.72

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	84	1245	44.38	na	7.49	64.57	23.15	13.71
111	2007	84	1300	45.69	na	7.52	95.2	26.48	13.7
111	2007	84	1315	45.65	na	6.936	80.8	21.09	13.7
111	2007	84	1330	46.21	na	6.892	78.1	24.07	13.7
111	2007	84	1345	46.87	na	6.374	71.7	31.33	13.7
111	2007	84	1400	46.85	na	5.911	66.16	19.78	13.68
111	2007	84	1415	47.28	na	6.282	68.5	34.91	13.67
111	2007	84	1430	47.25	na	7.33	73.7	29.62	13.68
111	2007	84	1445	47.03	na	6.932	65.07	23.35	13.67
111	2007	84	1500	47.21	na	5.306	67.7	34.94	13.65
111	2007	84	1515	47.72	na	5.153	80.2	25.44	13.66
111	2007	84	1530	47.89	na	5.801	57.99	28.75	13.64
111	2007	84	1545	48.24	na	5.545	61.78	26.35	13.64
111	2007	84	1600	48.34	na	4.97	81.4	37.22	13.62
111	2007	84	1615	46.52	na	2.977	144.5	35.13	13.64
111	2007	84	1630	46.27	na	2.581	214.5	41.59	13.63
111	2007	84	1645	45.01	na	4.465	220.5	21.1	13.64
111	2007	84	1700	45.44	na	4.155	230.3	36.04	13.64
111	2007	84	1715	44.17	na	5.922	202.1	16.85	13.71
111	2007	84	1730	43.45	na	5.523	221.7	24.75	13.68
111	2007	84	1745	43.35	na	5.304	244.1	23.8	13.69
111	2007	84	1800	43.33	na	5.523	261.7	26.5	13.7
111	2007	84	1815	42.43	na	4.921	266.6	20.7	13.72
111	2007	84	1830	41.96	na	4.406	274.6	24.15	13.74
111	2007	84	1845	41.61	na	4.269	253.6	22.38	13.75
111	2007	84	1900	40.85	na	3.409	248.4	20.53	13.06
111	2007	84	1915	40.3	na	3.167	261.1	23.13	13.01
111	2007	84	1930	39.86	na	3.191	271.6	21.69	12.97
111	2007	84	1945	39.56	na	2.472	267.9	22.52	12.93
111	2007	84	2000	39.29	na	1.473	265.7	17.53	12.89
111	2007	84	2015	39.09	na	1.123	272.7	15.77	12.88
111	2007	84	2030	38.82	na	0.68	265.2	11.36	12.87
111	2007	84	2045	38.56	na	0.648	260.5	15.82	12.85
111	2007	84	2100	38.37	na	0.713	261	12.65	12.83
111	2007	84	2115	38.24	na	0.858	260.4	12.57	12.83
111	2007	84	2130	38.05	na	1.314	267	16.16	12.81
111	2007	84	2145	38.02	na	1.415	282.3	12.09	12.81
111	2007	84	2200	38.14	na	2.321	286.2	13.87	12.85
111	2007	84	2215	38.43	na	2.659	293.1	14.49	12.79
111	2007	84	2230	38.2	na	1.168	277.3	11.01	12.79
111	2007	84	2245	37.95	na	1.933	298.8	16.43	12.84
111	2007	84	2300	37.95	na	2.435	299.8	13.61	12.76
111	2007	84	2315	37.76	na	0.311	279.1	7.39	12.78
111	2007	84	2330	37.46	na	0	0	0	12.77
111	2007	84	2345	37.04	na	0.129	305.4	3.516	12.76
111	2007	84	2400	36.98	na	0.195	305.2	4.172	12.75
111	2007	85	15	36.93	na	1.51	303.3	11.85	12.75
111	2007	85	30	37.38	na	1.874	304.7	15.48	12.82
111	2007	85	45	37.47	na	1.983	302.2	13.03	12.75
111	2007	85	100	37.4	na	1.361	301.1	10.8	12.72
111	2007	85	115	37.01	na	0.482	313.7	10.23	12.73
111	2007	85	130	36.62	na	0.764	313.2	12.16	12.72
111	2007	85	145	36.57	na	0.532	301.2	16.23	12.73
111	2007	85	200	36.29	na	0	0	0	12.71
111	2007	85	215	36.07	na	0.243	357.7	14.47	12.72
111	2007	85	230	35.34	na	0	0	0	12.71
111	2007	85	245	34.92	na	0.319	302.5	7.46	12.71
111	2007	85	300	35.99	na	2.209	296.1	21.41	12.69
111	2007	85	315	36.63	na	1.547	291.1	15.14	12.7
111	2007	85	330	36.75	na	2.144	289	16.58	12.69

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	85	345	37.05	na	2.778	295.9	16.05	12.68
111	2007	85	400	37.28	na	1.322	263.3	19.56	12.66
111	2007	85	415	37.31	na	1.679	260.1	24.14	12.67
111	2007	85	430	37.27	na	2.396	271.6	19.56	12.67
111	2007	85	445	37.48	na	2.451	280.1	19.63	12.67
111	2007	85	500	37.31	na	0.792	300.7	17.33	12.64
111	2007	85	515	36.69	na	0.756	306.8	12.67	12.71
111	2007	85	530	36.53	na	0.29	276.5	5.298	12.65
111	2007	85	545	36.58	na	1.362	284.3	19.78	12.64
111	2007	85	600	37.08	na	2.197	301.4	18.77	12.62
111	2007	85	615	37.32	na	2.296	307.6	21.46	12.63
111	2007	85	630	37.39	na	1.166	275.5	21.8	12.63
111	2007	85	645	37.51	na	2.12	280.6	17.31	12.63
111	2007	85	700	37.92	na	2.603	291.2	15.02	12.61
111	2007	85	715	38.34	na	2.859	279.7	23.45	12.68
111	2007	85	730	38.74	na	2.945	255.2	24.09	12.76
111	2007	85	745	39.35	na	3.73	274.7	22.34	12.9
111	2007	85	800	39.87	na	4.249	280.7	21.1	13.05
111	2007	85	815	40.09	na	4.229	265.5	22.51	13.27
111	2007	85	830	40.4	na	5.072	264.4	21.7	13.83
111	2007	85	845	40.64	na	6.885	275.9	21.69	13.83
111	2007	85	900	41.02	na	6.199	269.1	21.33	13.81
111	2007	85	915	40.81	na	6.819	260.3	21.19	13.81
111	2007	85	930	40.78	na	6.244	267.1	24.03	13.81
111	2007	85	945	40.94	na	6.549	267.4	21.65	13.81
111	2007	85	1000	41.34	na	7.86	268.3	23.13	13.79
111	2007	85	1015	41.9	na	7.09	276	26.37	13.79
111	2007	85	1030	42.3	na	6.566	267	24.17	13.77
111	2007	85	1045	42.45	na	6.37	258.4	23.94	13.77
111	2007	85	1100	42.35	na	7.81	246.3	21.87	13.76
111	2007	85	1115	42.36	na	7.95	254.9	24.19	13.76
111	2007	85	1130	42.69	na	8.07	262.5	22.54	13.75
111	2007	85	1145	43.63	na	7.02	245.5	22.08	13.74
111	2007	85	1200	43.89	na	8.3	256.1	24.68	13.72
111	2007	85	1215	44.16	na	7.07	255.2	25.07	13.77
111	2007	85	1230	43.81	na	7.37	243.9	26.25	13.72
111	2007	85	1245	44.52	na	8.43	245.5	24.03	13.71
111	2007	85	1300	44.87	na	8.26	245.3	24.34	13.7
111	2007	85	1315	44.65	na	7.55	252.1	22.37	13.71
111	2007	85	1330	44.47	na	8.09	248.9	25.88	13.71
111	2007	85	1345	44.37	na	8.17	236	20.38	13.7
111	2007	85	1400	44.55	na	7.08	240.7	25.3	13.7
111	2007	85	1415	45.31	na	8.19	253	24.58	13.7
111	2007	85	1430	45.48	na	8.45	243.8	20.77	13.7
111	2007	85	1445	45.16	na	7.23	237	24.02	13.7
111	2007	85	1500	44.87	na	7.8	221.8	18.56	13.7
111	2007	85	1515	44.95	na	7.94	233.8	23.43	13.71
111	2007	85	1530	45.18	na	7.31	242.7	23.22	13.71
111	2007	85	1545	44.89	na	8.36	242.6	23.33	13.72
111	2007	85	1600	44.62	na	7.29	241.9	22.25	13.71
111	2007	85	1615	44.6	na	7.7	248.2	23.87	13.77
111	2007	85	1630	44.75	na	7.41	258.8	20.19	13.72
111	2007	85	1645	44.76	na	6.563	251.8	22.82	13.72
111	2007	85	1700	44.8	na	7.33	248.7	21.77	13.76
111	2007	85	1715	44.85	na	6.978	258.9	19.88	13.73
111	2007	85	1730	44.74	na	7.95	256.8	24.11	13.74
111	2007	85	1745	44.55	na	7.64	254.7	20.7	13.74
111	2007	85	1800	44.61	na	7.44	256.8	21.64	13.33
111	2007	85	1815	44.69	na	8.24	258.2	19.18	13.09
111	2007	85	1830	44.42	na	7.47	257.8	29.74	13.03

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	85	1845	44.19	na	6.089	253.2	23.04	12.98
111	2007	85	1900	44.06	na	6.704	258.7	22.22	12.94
111	2007	85	1915	43.91	na	6.042	261.2	22.15	12.93
111	2007	85	1930	43.75	na	6.624	256.7	19.07	12.91
111	2007	85	1945	43.68	na	6.064	252.4	21.22	12.9
111	2007	85	2000	43.6	na	5.408	255.3	21.75	12.87
111	2007	85	2015	43.68	na	5.249	256.8	22.06	12.88
111	2007	85	2030	43.72	na	5.759	262.6	21.9	12.87
111	2007	85	2045	43.9	na	6.624	266.5	21.89	12.86
111	2007	85	2100	43.99	na	6.155	275.1	25.95	12.85
111	2007	85	2115	44.1	na	5.775	267.7	25.51	12.91
111	2007	85	2130	44.01	na	5.207	274.1	23.94	12.84
111	2007	85	2145	44.04	na	5.736	275.3	20.75	12.83
111	2007	85	2200	43.99	na	5.392	280.5	22.24	12.83
111	2007	85	2215	43.84	na	5.7	280.8	24.23	12.83
111	2007	85	2230	43.62	na	5.362	277	20.62	12.87
111	2007	85	2245	43.51	na	5.714	271.6	22.32	12.81
111	2007	85	2300	43.48	na	5.831	269.5	20.44	12.81
111	2007	85	2315	43.63	na	4.678	283.3	21.2	12.81
111	2007	85	2330	43.81	na	3.725	287.5	23.34	12.81
111	2007	85	2345	44.22	na	2.972	288.1	22.35	12.8
111	2007	85	2400	44.31	na	1.885	269.1	20.62	12.79
111	2007	86	15	44.53	na	3.358	269.6	20.63	12.84
111	2007	86	30	44.96	na	3.383	270.9	20.77	12.79
111	2007	86	45	45.42	na	3.803	279.8	19.48	12.79
111	2007	86	100	45.72	na	3.972	279.6	25.98	12.77
111	2007	86	115	46.03	na	1.761	345.9	29.85	12.77
111	2007	86	130	46.06	na	0.234	339.9	8.06	12.76
111	2007	86	145	45.97	na	1.059	32.99	17.53	12.76
111	2007	86	200	45.99	na	0.759	80.3	28.11	12.74
111	2007	86	215	45.81	na	0.157	31.34	16.4	12.76
111	2007	86	230	45.73	na	1.058	231.4	8.4	12.75
111	2007	86	245	45.61	na	2.609	236	19.24	12.74
111	2007	86	300	45.53	na	3.338	231.2	21.22	12.72
111	2007	86	315	45.43	na	2.761	233.3	27.18	12.76
111	2007	86	330	45.31	na	1.455	253	14.94	12.72
111	2007	86	345	45.13	na	2.007	261.6	17.47	12.71
111	2007	86	400	45.03	na	1.386	281.6	21.22	12.74
111	2007	86	415	44.98	na	1.391	275.1	22.04	12.71
111	2007	86	430	44.93	na	1.018	287.6	13.34	12.7
111	2007	86	445	44.89	na	1.44	286.3	17.91	12.69
111	2007	86	500	44.85	na	0.745	259.6	13.09	12.68
111	2007	86	515	44.74	na	1.966	288.9	13.05	12.68
111	2007	86	530	44.5	na	2.606	283.2	15.95	12.68
111	2007	86	545	44.44	na	2.067	294.1	19.43	12.68
111	2007	86	600	44.41	na	2.074	284.2	13.29	12.65
111	2007	86	615	44.6	na	3.197	298.8	10.16	12.66
111	2007	86	630	44.8	na	3.112	297.4	21.39	12.66
111	2007	86	645	45.03	na	2.565	305.5	16.1	12.66
111	2007	86	700	45.42	na	1.326	326.2	21.3	12.65
111	2007	86	715	45.68	na	0.425	11.1	21.19	12.66
111	2007	86	730	46.01	na	2.273	294.2	14.76	12.66
111	2007	86	745	46.67	na	2.206	300	19.56	12.7
111	2007	86	800	47.74	na	2.747	305	18.58	12.76
111	2007	86	815	48.85	na	2.386	321.3	30.27	12.93
111	2007	86	830	50.1	na	2.222	322.6	28.64	13.31
111	2007	86	845	51.88	na	2.469	324.6	26.5	13.65
111	2007	86	900	53.75	na	4.304	314.2	24.52	13.61
111	2007	86	915	55.33	na	3.957	325.2	37.03	13.64
111	2007	86	930	57.38	na	3.179	336.5	31.56	13.57

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	86	945	59.87	na	3.573	326.8	31.85	13.54
111	2007	86	1000	61.9	na	4.219	338.8	35.76	13.52
111	2007	86	1015	64.33	na	4.685	345.4	33.94	13.49
111	2007	86	1030	66.42	na	4.861	334.7	26.86	13.48
111	2007	86	1045	67.56	na	5.551	330.2	33.12	13.44
111	2007	86	1100	68.49	na	5.39	331.5	28.2	13.42
111	2007	86	1115	69.3	na	6.618	350.7	41.64	13.43
111	2007	86	1130	69.62	na	7.37	353.1	32.19	13.41
111	2007	86	1145	69.67	na	8.17	1.462	29.64	13.4
111	2007	86	1200	69.65	na	7.15	10.93	33.9	13.39
111	2007	86	1215	70	na	8.66	1.65	29.81	13.39
111	2007	86	1230	70.1	na	8.85	21.89	23.9	13.39
111	2007	86	1245	70.7	na	8.45	21.05	26.07	13.39
111	2007	86	1300	71.3	na	7.29	15.14	23.26	13.38
111	2007	86	1315	71.2	na	9.32	17.06	27.09	13.39
111	2007	86	1330	71.5	na	8.35	19.61	35.14	13.39
111	2007	86	1345	71.4	na	8.62	26.87	25.1	13.38
111	2007	86	1400	71.1	na	8.23	18.91	27.37	13.38
111	2007	86	1415	72	na	8.47	14.2	34.31	13.38
111	2007	86	1430	72	na	7.98	20.18	30.04	13.37
111	2007	86	1445	72.1	na	7.72	2.629	37.66	13.37
111	2007	86	1500	73.1	na	6.978	346.4	37.91	13.37
111	2007	86	1515	72.9	na	8.66	5.633	29.31	13.36
111	2007	86	1530	73.2	na	7.06	355.9	36.7	13.35
111	2007	86	1545	73.5	na	6.6	2.686	35.92	13.35
111	2007	86	1600	73.6	na	7.07	14.13	30.17	13.34
111	2007	86	1615	73.6	na	7.4	7.09	37.99	13.34
111	2007	86	1630	73.8	na	6.36	24.67	34.47	13.34
111	2007	86	1645	74	na	6.712	13.69	30.33	13.34
111	2007	86	1700	73.6	na	7.54	33.76	23.37	13.34
111	2007	86	1715	74	na	5.984	27.33	24.1	13.35
111	2007	86	1730	73.9	na	6.161	48.85	36.81	13.35
111	2007	86	1745	73	na	6.511	63.92	21.5	13.36
111	2007	86	1800	72.5	na	6.743	75.2	19.28	13.36
111	2007	86	1815	71.4	na	6.505	76.7	16.51	13.37
111	2007	86	1830	70.4	na	6.956	83.6	19.7	13.38
111	2007	86	1845	69.8	na	5.103	85.2	18.46	13.31
111	2007	86	1900	69.21	na	4.73	72.6	18.69	13.06
111	2007	86	1915	68.49	na	5.334	68.1	17.34	13.01
111	2007	86	1930	67.67	na	4.102	65.15	17.2	12.99
111	2007	86	1945	66.26	na	5.052	89.6	17.89	12.97
111	2007	86	2000	64.91	na	5.354	81.2	18.31	12.94
111	2007	86	2015	64.23	na	5.406	54.54	19.08	12.93
111	2007	86	2030	63.18	na	5.457	50.14	17.93	12.92
111	2007	86	2045	62.05	na	4.543	65.58	17.98	12.91
111	2007	86	2100	61	na	4.358	61.4	20.97	12.89
111	2007	86	2115	60.24	na	5.485	59.93	18.01	12.9
111	2007	86	2130	59.44	na	5.044	50.79	18.39	12.88
111	2007	86	2145	58.66	na	5.322	51.21	15.75	12.88
111	2007	86	2200	57.89	na	6.052	56.64	17.82	12.86
111	2007	86	2215	57.26	na	6.823	61.85	15.65	12.86
111	2007	86	2230	56.81	na	4.666	62.78	15.37	12.87
111	2007	86	2245	56.4	na	5.276	56.33	16.92	12.84
111	2007	86	2300	56.23	na	6.664	47.39	19.02	12.83
111	2007	86	2315	55.66	na	6.602	50.61	17.92	12.83
111	2007	86	2330	55.21	na	4.809	51.15	17.88	12.82
111	2007	86	2345	54.85	na	3.475	58.65	20.08	12.83
111	2007	86	2400	54.54	na	3.509	58.33	17.38	12.8
111	2007	87	15	54.14	na	3.817	64.74	15.67	12.81
111	2007	87	30	53.89	na	4.288	57.75	20.83	12.82

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	87	45	53.75	na	3.893	43.27	18.04	12.8
111	2007	87	100	53.5	na	3.708	29.18	28.13	12.79
111	2007	87	115	53.4	na	3.207	13.93	28.1	12.79
111	2007	87	130	53.22	na	3.913	29.29	23.4	12.79
111	2007	87	145	53.51	na	6.777	34.1	19.39	12.79
111	2007	87	200	53.79	na	6.811	38.93	20.81	12.77
111	2007	87	215	53.98	na	7.81	50.18	22.84	12.78
111	2007	87	230	53.75	na	7.21	46.88	21.88	12.78
111	2007	87	245	53.42	na	5.622	39.53	19.22	12.78
111	2007	87	300	53.05	na	4.887	37.49	19.99	12.76
111	2007	87	315	52.42	na	2.558	23.65	16.21	12.77
111	2007	87	330	51.63	na	2.411	35.29	18.45	12.76
111	2007	87	345	51.09	na	1.51	45.77	16.26	12.76
111	2007	87	400	50.57	na	0.978	32.05	22.45	12.74
111	2007	87	415	50.26	na	1.256	65.61	25.13	12.75
111	2007	87	430	49.72	na	0.379	58.59	17.44	12.76
111	2007	87	445	49.38	na	0.117	341	9.39	12.74
111	2007	87	500	48.74	na	1.048	313.9	7.58	12.72
111	2007	87	515	47.87	na	1.336	292	9.25	12.73
111	2007	87	530	47.06	na	0.702	300.5	4.503	12.72
111	2007	87	545	46.72	na	1.019	311.1	15.97	12.72
111	2007	87	600	46.87	na	0.817	318.6	24.09	12.71
111	2007	87	615	47.66	na	2.235	328.4	17.47	12.71
111	2007	87	630	48.33	na	1.834	327.4	16.8	12.71
111	2007	87	645	47.76	na	1.991	309.8	12.85	12.7
111	2007	87	700	47.44	na	0.874	25.44	26.01	12.69
111	2007	87	715	47.42	na	1.228	358.7	19.48	12.69
111	2007	87	730	48.62	na	2.686	15.13	16.05	12.69
111	2007	87	745	50.22	na	3.387	16.2	23.59	12.83
111	2007	87	800	51.56	na	3.183	17.03	28.66	12.76
111	2007	87	815	51.86	na	3.064	11.23	27.69	12.88
111	2007	87	830	52.69	na	3.945	12.34	21.61	13.18
111	2007	87	845	53.48	na	3.336	5.771	30.54	13.66
111	2007	87	900	54.64	na	5.266	19.23	28.11	13.62
111	2007	87	915	55.41	na	6.191	34.7	26.63	13.6
111	2007	87	930	55.28	na	6.851	32.99	19.77	13.6
111	2007	87	945	54.74	na	6.992	21.55	26.16	13.61
111	2007	87	1000	55.06	na	7.07	32.22	20.42	13.58
111	2007	87	1015	56.05	na	8.43	47.47	21.73	13.56
111	2007	87	1030	56.08	na	9.04	37.35	22.76	13.56
111	2007	87	1045	56.04	na	7.41	57.78	22.1	13.56
111	2007	87	1100	56.3	na	8.14	45.98	23.32	13.55
111	2007	87	1115	56.4	na	9.28	37.55	24.34	13.55
111	2007	87	1130	56.87	na	9.21	37.75	19.76	13.54
111	2007	87	1145	56.54	na	9.86	45.65	23.54	13.54
111	2007	87	1200	56.21	na	10.31	48.98	19.58	13.54
111	2007	87	1215	56.35	na	9.84	39.9	24.3	13.55
111	2007	87	1230	56.38	na	10.32	39.43	25.5	13.55
111	2007	87	1245	57.11	na	8.2	26.36	28.48	13.55
111	2007	87	1300	57.26	na	10.36	25.47	24.93	13.54
111	2007	87	1315	57.47	na	10.67	38.43	20.99	13.56
111	2007	87	1330	57.47	na	11.99	38.73	18.1	13.56
111	2007	87	1345	57.98	na	9.55	32.88	23.19	13.56
111	2007	87	1400	58.45	na	10.66	39	26.59	13.55
111	2007	87	1415	59.04	na	8.04	24.15	22.05	13.54
111	2007	87	1430	59.07	na	8.86	31.92	26.73	13.53
111	2007	87	1445	58.94	na	10.11	31.69	23.57	13.53
111	2007	87	1500	59.11	na	9.65	37.34	23.71	13.51
111	2007	87	1515	59.61	na	9.11	35	26.45	13.52
111	2007	87	1530	59.37	na	10.67	42.41	20.31	13.51

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	87	1545	59.44	na	9.25	43.98	25.35	13.51
111	2007	87	1600	59.22	na	9.5	43.57	18.1	13.51
111	2007	87	1615	59.26	na	9.1	36.37	27.61	13.52
111	2007	87	1630	58.86	na	11.31	42	22.12	13.52
111	2007	87	1645	58.85	na	10.15	39.23	25.99	13.52
111	2007	87	1700	58.6	na	10.25	40.4	26.71	13.51
111	2007	87	1715	58.21	na	9.75	37.56	25.96	13.53
111	2007	87	1730	58.21	na	8.35	36.54	21.48	13.53
111	2007	87	1745	57.59	na	9.05	50.29	21.69	13.54
111	2007	87	1800	57.03	na	8.66	43.2	20.28	13.55
111	2007	87	1815	56.31	na	9.69	42.28	22.5	13.57
111	2007	87	1830	55.95	na	8.76	34.12	23.2	13.58
111	2007	87	1845	55.5	na	9.41	33.09	18	13.18
111	2007	87	1900	54.74	na	7.89	41.54	21.89	13.06
111	2007	87	1915	53.96	na	6.378	29.27	19.8	13.01
111	2007	87	1930	53.22	na	6.743	31.61	24.23	12.98
111	2007	87	1945	52.53	na	6.557	30.18	22.14	12.94
111	2007	87	2000	52	na	6.421	38.41	20.64	12.9
111	2007	87	2015	52	na	7.86	36.87	22.42	12.9
111	2007	87	2030	51.7	na	6.499	32.86	22.08	12.88
111	2007	87	2045	51.23	na	5.35	32.03	18.56	12.87
111	2007	87	2100	50.81	na	5.583	35.67	20	12.84
111	2007	87	2115	50.46	na	6.797	41.16	19.86	12.85
111	2007	87	2130	50.33	na	7.06	41.23	25.24	12.84
111	2007	87	2145	49.96	na	7.49	34.36	24.37	12.84
111	2007	87	2200	49.6	na	7.08	31.63	24.16	12.82
111	2007	87	2215	49.04	na	6.153	33.03	20.19	12.82
111	2007	87	2230	48.1	na	4.143	34.82	24.8	12.81
111	2007	87	2245	47.47	na	3.585	20.66	25.43	12.82
111	2007	87	2300	47.08	na	4.744	29.38	21.04	12.79
111	2007	87	2315	46.69	na	4.509	34.93	22.43	12.79
111	2007	87	2330	46.12	na	3.601	35.67	21.94	12.79
111	2007	87	2345	45.6	na	3.405	31.51	27.73	12.78
111	2007	87	2400	45.33	na	5.131	32.68	25.85	12.77
111	2007	88	15	45.02	na	5.873	41.35	20.73	12.79
111	2007	88	30	44.67	na	5.752	36.03	25.58	12.77
111	2007	88	45	44.19	na	6.169	30.23	23.76	12.78
111	2007	88	100	43.82	na	7.79	33.73	22.65	12.74
111	2007	88	115	43.42	na	6.193	38.56	18.61	12.75
111	2007	88	130	42.9	na	6.161	34.18	22.99	12.74
111	2007	88	145	42.42	na	6.131	33.94	24.89	12.74
111	2007	88	200	42.12	na	7.87	48.54	24.59	12.72
111	2007	88	215	41.73	na	6.936	42.25	16.24	12.73
111	2007	88	230	41.32	na	7.08	30.28	21.41	12.72
111	2007	88	245	41.08	na	7.27	25.49	20.53	12.71
111	2007	88	300	40.63	na	6.688	38.22	22.9	12.69
111	2007	88	315	40.33	na	6.771	32.32	23.06	12.7
111	2007	88	330	39.91	na	6.453	29.24	18.46	12.69
111	2007	88	345	39.63	na	6.012	30.15	24.03	12.7
111	2007	88	400	39.27	na	6.219	28.13	22.93	12.67
111	2007	88	415	38.86	na	5.712	17.55	23.25	12.67
111	2007	88	430	38.65	na	5.899	30.24	27.72	12.67
111	2007	88	445	38.41	na	5.962	19.63	19.69	12.66
111	2007	88	500	38.32	na	5.602	17.86	25.02	12.64
111	2007	88	515	38.4	na	7.29	20.9	19.44	12.65
111	2007	88	530	38.24	na	6.244	28.91	22.76	12.64
111	2007	88	545	38.08	na	5.883	25.15	27.64	12.64
111	2007	88	600	37.95	na	6.264	35.56	25.1	12.62
111	2007	88	615	37.92	na	5.561	29.04	23.62	12.63
111	2007	88	630	37.69	na	5.71	18.66	26.62	12.62

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	88	645	37.48	na	6.71	19.7	21.77	12.62
111	2007	88	700	37.47	na	6.242	33.14	20.57	12.61
111	2007	88	715	37.82	na	7.51	30.02	25.26	12.62
111	2007	88	730	38.07	na	7.96	34.13	20.58	12.62
111	2007	88	745	38.28	na	9.6	28.87	19.24	12.64
111	2007	88	800	38.46	na	9.49	31.58	20.68	12.68
111	2007	88	815	38.78	na	9.18	31.18	22.62	12.87
111	2007	88	830	39.1	na	9.81	39.95	21.76	13.84
111	2007	88	845	39.23	na	10.2	28.5	24.19	13.82
111	2007	88	900	39.49	na	10.53	30.86	19.59	13.81
111	2007	88	915	40.21	na	9.69	38.13	24.76	13.81
111	2007	88	930	40.25	na	10.44	33.17	26.02	13.79
111	2007	88	945	40.93	na	9.66	33.55	21.03	13.78
111	2007	88	1000	41.32	na	10.08	28.58	25.32	13.77
111	2007	88	1015	41.69	na	9.74	22.02	22.74	13.76
111	2007	88	1030	42.35	na	9.97	31.47	21.98	13.75
111	2007	88	1045	42.91	na	11.1	20.53	21.19	13.74
111	2007	88	1100	43.24	na	11.37	36.06	19.97	13.73
111	2007	88	1115	44.01	na	10.66	34.5	24.45	13.73
111	2007	88	1130	44.76	na	10.29	30.56	27.49	13.71
111	2007	88	1145	45.28	na	10.62	31.73	26.38	13.71
111	2007	88	1200	45.66	na	10.86	35.29	20.42	13.69
111	2007	88	1215	45.79	na	11.61	34.53	23.97	13.7
111	2007	88	1230	46.8	na	11.16	30.23	22.36	13.69
111	2007	88	1245	47.03	na	11.01	21.54	25.92	13.69
111	2007	88	1300	47.09	na	13.02	26.84	21.9	13.68
111	2007	88	1315	47.5	na	12.36	28.16	23.01	13.7
111	2007	88	1330	48.38	na	12.07	27.69	23.84	13.7
111	2007	88	1345	49.13	na	11.51	33.97	23.54	13.7
111	2007	88	1400	49.55	na	11.83	29.17	23.23	13.68
111	2007	88	1415	49.61	na	12.72	39.78	19.87	13.68
111	2007	88	1430	50.16	na	10.94	35.81	24.47	13.67
111	2007	88	1445	50.8	na	10.22	27.14	29.18	13.66
111	2007	88	1500	51.39	na	9.56	30.45	29.79	13.64
111	2007	88	1515	50.97	na	11.94	46.91	23.42	13.64
111	2007	88	1530	51.53	na	11.69	41.63	23.57	13.64
111	2007	88	1545	51.32	na	12.85	32.85	25.36	13.63
111	2007	88	1600	52.08	na	11.32	28.16	28.66	13.62
111	2007	88	1615	51.82	na	11.73	30.6	25.84	13.62
111	2007	88	1630	52.04	na	11.14	33.4	22.53	13.62
111	2007	88	1645	52.01	na	11.9	28.58	19	13.62
111	2007	88	1700	51.77	na	11.39	20.84	25.77	13.62
111	2007	88	1715	51.41	na	10.16	31.79	22.92	13.63
111	2007	88	1730	51.31	na	11.81	42.72	19.12	13.64
111	2007	88	1745	51.03	na	11.99	38.45	24.52	13.64
111	2007	88	1800	50.81	na	11.16	35.81	26.19	13.64
111	2007	88	1815	50.68	na	10.55	31.89	22.08	13.66
111	2007	88	1830	50.5	na	8.69	19.35	22.9	13.66
111	2007	88	1845	50.04	na	10.36	25.11	24.36	13.68
111	2007	88	1900	49.44	na	8.75	23.76	28.83	13.11
111	2007	88	1915	48.91	na	10.22	18.12	29.56	13.04
111	2007	88	1930	48.55	na	8.17	27.98	22.03	13
111	2007	88	1945	48.27	na	9.53	30.45	24.34	12.96
111	2007	88	2000	48.12	na	9.55	32.44	22.06	12.92
111	2007	88	2015	47.95	na	9.45	25.99	23.53	12.91
111	2007	88	2030	47.66	na	8.45	28.46	23.38	12.9
111	2007	88	2045	47.54	na	8.88	25.71	22.2	12.89
111	2007	88	2100	47.29	na	8.16	21.21	26.71	12.87
111	2007	88	2115	47.06	na	7.35	23.35	23.09	12.87
111	2007	88	2130	46.91	na	8.27	22.06	20.05	12.86

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	88	2145	46.75	na	8.08	30.96	20.4	12.85
111	2007	88	2200	46.44	na	6.94	37.02	20.87	12.83
111	2007	88	2215	46.28	na	8.24	34.42	19.55	12.84
111	2007	88	2230	45.84	na	7.09	38.33	21.3	12.83
111	2007	88	2245	45.37	na	6.223	40.92	22.27	12.83
111	2007	88	2300	45.03	na	5.972	40.29	20.34	12.81
111	2007	88	2315	44.67	na	5.813	40.97	18.58	12.81
111	2007	88	2330	44.15	na	4.76	34.45	25.75	12.81
111	2007	88	2345	43.89	na	5.489	51.83	21.83	12.8
111	2007	88	2400	43.47	na	4.221	53.08	17.26	12.78
111	2007	89	15	42.89	na	3.07	46.63	21.62	12.78
111	2007	89	30	42.51	na	4.255	37.55	25.69	12.78
111	2007	89	45	42.18	na	4.742	30.64	24.75	12.77
111	2007	89	100	42.23	na	6.163	42.07	18.34	12.75
111	2007	89	115	41.98	na	5.235	41.44	19.01	12.76
111	2007	89	130	41.67	na	4.925	41.33	18.21	12.75
111	2007	89	145	41.4	na	5.537	43.27	21.31	12.75
111	2007	89	200	41.3	na	4.915	44.66	16.84	12.73
111	2007	89	215	41	na	4.728	44.58	18.72	12.73
111	2007	89	230	40.27	na	2.869	34.28	15.46	12.73
111	2007	89	245	39.34	na	1.849	42.88	18.72	12.72
111	2007	89	300	38.48	na	2.064	36.47	13.22	12.69
111	2007	89	315	38.08	na	1.806	42.4	15.52	12.7
111	2007	89	330	37.78	na	2.038	20.59	19.65	12.69
111	2007	89	345	37.02	na	1.309	331	21	12.68
111	2007	89	400	36.23	na	1.347	0.054	26.03	12.66
111	2007	89	415	36.38	na	2.055	15.16	21.56	12.66
111	2007	89	430	36.32	na	2.048	345.6	32.83	12.64
111	2007	89	445	35.97	na	1.637	357.5	37.96	12.64
111	2007	89	500	36.21	na	2.588	17.36	22.53	12.62
111	2007	89	515	36.29	na	2.557	15.5	21.67	12.62
111	2007	89	530	36.19	na	2.017	24.88	19.79	12.62
111	2007	89	545	35.85	na	2.291	16.85	16.34	12.61
111	2007	89	600	35.62	na	2.115	17.12	17.82	12.59
111	2007	89	615	35.62	na	2.051	12.74	26.21	12.6
111	2007	89	630	35.61	na	1.728	349.8	30.18	12.59
111	2007	89	645	35.21	na	1.386	340.1	25.44	12.59
111	2007	89	700	34.9	na	1.947	340.5	26.75	12.58
111	2007	89	715	35.47	na	1.805	347.1	26.25	12.58
111	2007	89	730	36.55	na	1.665	354.9	26.73	12.58
111	2007	89	745	37.66	na	2.627	359	26.77	12.61
111	2007	89	800	39.14	na	3.151	18.06	29.03	12.64
111	2007	89	815	40.58	na	4.507	17.6	29.23	12.83
111	2007	89	830	41.97	na	5.092	25	23.95	13.75
111	2007	89	845	43.06	na	6.024	19.85	21.75	13.81
111	2007	89	900	43.93	na	6.431	16.81	23.1	13.78
111	2007	89	915	45.01	na	6.427	20.38	24.82	13.76
111	2007	89	930	46.04	na	5.791	16.71	21.88	13.73
111	2007	89	945	47.06	na	6.29	24.23	21.17	13.71
111	2007	89	1000	48.04	na	6.312	27.48	23.42	13.68
111	2007	89	1015	49.08	na	6.457	40.57	24.86	13.67
111	2007	89	1030	49.99	na	5.932	43.91	20.98	13.66
111	2007	89	1045	50.94	na	4.797	7.85	38.42	13.64
111	2007	89	1100	51.75	na	4.976	346.4	44.63	13.62
111	2007	89	1115	52.17	na	4.284	333.1	52.45	13.6
111	2007	89	1130	52.51	na	4.758	339.2	42.19	13.6
111	2007	89	1145	53.51	na	5.292	356.4	48.82	13.58
111	2007	89	1200	54.79	na	6.076	319.6	26.47	13.57
111	2007	89	1215	55.04	na	5.543	329.2	41.88	13.58
111	2007	89	1230	55.74	na	6.555	329.1	28.48	13.58

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	89	1245	57.01	na	6.59	301.3	26.32	13.57
111	2007	89	1300	58.15	na	6.107	330.2	36.96	13.56
111	2007	89	1315	59.14	na	5.74	335.5	39.75	13.56
111	2007	89	1330	59.86	na	5.406	314	41.43	13.55
111	2007	89	1345	60.06	na	7.49	309.3	23.59	13.55
111	2007	89	1400	59.43	na	6.616	273.4	33.16	13.53
111	2007	89	1415	58.67	na	7.97	272.7	21.53	13.54
111	2007	89	1430	59.04	na	8.31	271.4	20.53	13.55
111	2007	89	1445	59.85	na	7.62	281.4	26.73	13.53
111	2007	89	1500	58.74	na	9.74	281.6	19.39	13.52
111	2007	89	1515	58.74	na	8.98	264.8	21.62	13.53
111	2007	89	1530	56.49	na	9.2	268.5	23.03	13.53
111	2007	89	1545	55.91	na	8.88	270.5	18.67	13.55
111	2007	89	1600	55.76	na	8.13	271.4	26.18	13.53
111	2007	89	1615	54.84	na	9.01	266.1	19.31	13.55
111	2007	89	1630	53	na	8.5	269.9	17.89	13.57
111	2007	89	1645	52.67	na	8.01	267.3	19.52	13.58
111	2007	89	1700	53.1	na	7.74	275.8	21.11	13.57
111	2007	89	1715	51.38	na	8.9	280.1	20.15	13.6
111	2007	89	1730	49.63	na	8.79	280.4	18.73	13.61
111	2007	89	1745	49.47	na	7.9	275.8	19.53	13.62
111	2007	89	1800	49.4	na	7.02	277.4	18.99	13.64
111	2007	89	1815	50.01	na	6.296	278.7	17.88	13.64
111	2007	89	1830	50.29	na	6.016	300.3	21.09	13.64
111	2007	89	1845	50.51	na	2.901	286.6	42.97	13.66
111	2007	89	1900	50.99	na	2.416	283.3	25.46	13.09
111	2007	89	1915	51	na	3.426	305.8	18.28	13.03
111	2007	89	1930	50.66	na	1.288	311.3	36.95	12.98
111	2007	89	1945	50.2	na	0.858	3.943	25.11	12.95
111	2007	89	2000	49.95	na	1.551	325.3	21.31	12.91
111	2007	89	2015	49.4	na	2.93	156.9	82.1	12.9
111	2007	89	2030	48.31	na	1.555	158.8	45.01	12.88
111	2007	89	2045	48.03	na	1.908	192.9	57.11	12.88
111	2007	89	2100	47.84	na	1.193	310.2	41.36	12.86
111	2007	89	2115	47.82	na	1.676	51.26	27.29	12.85
111	2007	89	2130	48.19	na	1.039	30.04	31.11	12.85
111	2007	89	2145	48.16	na	1.246	317	65.3	12.84
111	2007	89	2200	47.37	na	0.169	56.55	11.3	12.82
111	2007	89	2215	46.97	na	0.175	334.6	14.9	12.82
111	2007	89	2230	48.3	na	2.079	44.12	31.08	12.81
111	2007	89	2245	50.02	na	3.475	45.73	15.82	12.81
111	2007	89	2300	49.63	na	2.235	63.29	35.75	12.79
111	2007	89	2315	49.49	na	3.626	39.95	23.64	12.8
111	2007	89	2330	49.27	na	2.857	26.86	29.37	12.8
111	2007	89	2345	48.71	na	2.796	33.4	23.14	12.79
111	2007	89	2400	48.44	na	3.642	40.11	22.87	12.78
111	2007	90	15	48.27	na	3.153	49.48	20.87	12.79
111	2007	90	30	47.93	na	4.175	38.35	21.13	12.79
111	2007	90	45	47.81	na	5.284	50.37	14.35	12.78
111	2007	90	100	47.89	na	7.16	50.55	18.87	12.79
111	2007	90	115	47.5	na	6.934	57.8	17.13	12.77
111	2007	90	130	47.09	na	7.19	53.96	17.41	12.77
111	2007	90	145	46.6	na	7.07	51.71	17.93	12.79
111	2007	90	200	46.21	na	6.956	47.73	19.19	12.75
111	2007	90	215	45.65	na	5.338	43.91	20.79	12.76
111	2007	90	230	45.11	na	3.865	41	19.39	12.75
111	2007	90	245	44.57	na	3.976	32.95	19.24	12.75
111	2007	90	300	43.92	na	2.623	35.16	18.09	12.73
111	2007	90	315	43.34	na	2.089	8.02	25.62	12.73
111	2007	90	330	42.71	na	1.758	350.4	28.24	12.74

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	90	345	42.02	na	1.867	307.4	16.7	12.71
111	2007	90	400	41.26	na	1.156	318.6	23.58	12.69
111	2007	90	415	40.57	na	1.427	333	25.25	12.69
111	2007	90	430	40.54	na	1.871	26.96	24.71	12.69
111	2007	90	445	40.87	na	2.523	27.93	19.26	12.67
111	2007	90	500	40.79	na	2.136	6.746	28.83	12.65
111	2007	90	515	40.55	na	1.248	19.87	18.85	12.66
111	2007	90	530	39.75	na	0.628	277.9	16.63	12.66
111	2007	90	545	38.28	na	0.419	302	6.64	12.64
111	2007	90	600	37.43	na	0.914	292.5	69.04	12.62
111	2007	90	615	36.59	na	0.1	143.6	1.997	12.62
111	2007	90	630	36.48	na	0.484	33.99	12.41	12.62
111	2007	90	645	36.73	na	1.75	56.11	14.52	12.61
111	2007	90	700	38.04	na	2.595	69.32	13.33	12.6
111	2007	90	715	39.07	na	2.229	52.89	17.41	12.61
111	2007	90	730	40.18	na	3.193	64.88	14.31	12.72
111	2007	90	745	40.91	na	4.177	61.91	13.95	12.92
111	2007	90	800	41.6	na	4.76	66.47	13.84	13.1
111	2007	90	815	42.04	na	5.666	64.17	15.42	13.45
111	2007	90	830	42.59	na	6.242	68.76	20.54	13.83
111	2007	90	845	43.42	na	6.252	77.1	20.78	13.79
111	2007	90	900	44.24	na	5.746	69.46	18.94	13.77
111	2007	90	915	44.66	na	6.839	74	21.08	13.75
111	2007	90	930	44.88	na	6.175	85.7	18.27	13.74
111	2007	90	945	45.81	na	5.368	73.9	23.59	13.72
111	2007	90	1000	46.26	na	4.756	67.24	30.81	13.7
111	2007	90	1015	46.39	na	6.61	51.9	18.12	13.71
111	2007	90	1030	46.5	na	6.988	48.2	22.05	13.7
111	2007	90	1045	46.6	na	7.09	57.16	21.68	13.69
111	2007	90	1100	46.52	na	6.38	65.82	22.83	13.68
111	2007	90	1115	47.16	na	6.264	77.8	22.45	13.68
111	2007	90	1130	47.82	na	5.592	77.6	29.52	13.66
111	2007	90	1145	47.58	na	5.899	44.86	40.73	13.65
111	2007	90	1200	49.05	na	4.499	75	48.57	13.62
111	2007	90	1215	49.14	na	3.74	29.08	52.18	13.63
111	2007	90	1230	48.92	na	4.986	87.2	32.76	13.63
111	2007	90	1245	49.28	na	4.229	63.75	37.56	13.63
111	2007	90	1300	49.93	na	3.275	69.95	56.08	13.62
111	2007	90	1315	49.56	na	5.042	121.3	87.4	13.62
111	2007	90	1330	48.02	na	7.54	210.8	23.71	13.64
111	2007	90	1345	47.24	na	7.56	203.8	23.79	13.65
111	2007	90	1400	46.53	na	7.84	181.6	18.18	13.65
111	2007	90	1415	46.21	na	8.7	175.4	19.3	13.66
111	2007	90	1430	45.64	na	8.77	178.1	21.88	13.67
111	2007	90	1445	44.61	na	9.39	175.3	21.41	13.68
111	2007	90	1500	43.8	na	9.98	183	14.38	13.68
111	2007	90	1515	44.89	na	8.21	174	25.08	13.68
111	2007	90	1530	44.26	na	9.95	183.2	17.26	13.68
111	2007	90	1545	43.7	na	9.03	181.7	20.02	13.68
111	2007	90	1600	44.24	na	7.94	189.1	23.34	13.68
111	2007	90	1615	44	na	8.35	178.7	25.57	13.7
111	2007	90	1630	43.97	na	8.01	166.5	21.95	13.7
111	2007	90	1645	44.06	na	7.51	183.1	17.69	13.7
111	2007	90	1700	43.33	na	7.81	182.6	18.77	13.7
111	2007	90	1715	43.57	na	7.19	191.2	22.56	13.71
111	2007	90	1730	43.41	na	6.829	197.9	25.52	13.71
111	2007	90	1745	42.83	na	7.68	207.8	18.78	13.72
111	2007	90	1800	42.84	na	6.515	204.3	22.27	13.72
111	2007	90	1815	42.56	na	6.362	209.2	20.72	13.74
111	2007	90	1830	42.14	na	5.911	219.5	18.4	13.74

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	90	1845	41.94	na	5.726	210	20.06	13.7
111	2007	90	1900	41.62	na	5.048	226.6	23.16	13.08
111	2007	90	1915	41.27	na	5.362	227.7	23.91	13.02
111	2007	90	1930	41.04	na	4.768	222.8	19.51	12.96
111	2007	90	1945	40.89	na	5	228.8	18.46	12.93
111	2007	90	2000	40.7	na	3.702	235	23.43	12.89
111	2007	90	2015	40.55	na	3.599	233.6	24.67	12.87
111	2007	90	2030	40.55	na	4.227	232.1	22.94	12.85
111	2007	90	2045	40.49	na	3.692	234.7	23.77	12.85
111	2007	90	2100	40.33	na	3.384	239.5	22.94	12.82
111	2007	90	2115	40.28	na	3.167	232	29.38	12.82
111	2007	90	2130	40.26	na	3.161	236.4	19.78	12.81
111	2007	90	2145	40.05	na	2.971	240.7	20.92	12.8
111	2007	90	2200	39.77	na	2.748	247.8	20.25	12.79
111	2007	90	2215	39.6	na	2.533	245.3	18.03	12.79
111	2007	90	2230	39.35	na	1.896	245.6	21.78	12.78
111	2007	90	2245	39.01	na	1.977	256.2	18.69	12.77
111	2007	90	2300	38.86	na	1.537	259.8	19.1	12.76
111	2007	90	2315	38.53	na	1.428	264.9	16.79	12.77
111	2007	90	2330	38.33	na	1.195	270	20.53	12.76
111	2007	90	2345	38.07	na	0.575	309.3	12.37	12.76
111	2007	90	2400	37.27	na	0.047	338.7	2.821	12.73
111	2007	91	15	36.68	na	0.505	14.83	18.15	12.74
111	2007	91	30	36.22	na	0.655	66.89	24.5	12.73
111	2007	91	45	35.7	na	1.047	302.9	7.56	12.73
111	2007	91	100	35.29	na	0.447	349.9	30.83	12.71
111	2007	91	115	34.93	na	0.25	69.77	15.63	12.72
111	2007	91	130	34.4	na	0.531	293	6.258	12.73
111	2007	91	145	34.24	na	0.501	70	6.863	12.7
111	2007	91	200	34.5	na	0.539	52.77	17.81	12.68
111	2007	91	215	34.56	na	0.792	52.68	19.95	12.69
111	2007	91	230	34.3	na	0.384	88.1	9.92	12.68
111	2007	91	245	34.05	na	0.658	61.53	12.38	12.68
111	2007	91	300	33.8	na	0.509	72.7	10.17	12.66
111	2007	91	315	33.74	na	0.409	50.35	7.82	12.66
111	2007	91	330	33.55	na	0.132	51.62	3.024	12.66
111	2007	91	345	33.45	na	0.743	307.7	6.42	12.65
111	2007	91	400	33.08	na	0.036	56.02	2.417	12.63
111	2007	91	415	32.96	na	0.322	43.33	8.16	12.63
111	2007	91	430	33.16	na	0.829	92.6	19.33	12.64
111	2007	91	445	33.42	na	0.654	90.9	16.91	12.62
111	2007	91	500	33.74	na	0.855	56.08	7.96	12.6
111	2007	91	515	34.08	na	1.046	68.67	17.3	12.61
111	2007	91	530	34.13	na	1.299	88.5	23.11	12.6
111	2007	91	545	34.12	na	1.009	80.7	17.33	12.6
111	2007	91	600	34.37	na	1.929	79.4	25.73	12.58
111	2007	91	615	35.15	na	2.04	114.1	16.67	12.59
111	2007	91	630	35.64	na	0.996	63.23	20.28	12.59
111	2007	91	645	36.08	na	1.024	66.2	7.07	12.6
111	2007	91	700	36.67	na	2.384	103.2	18	12.58
111	2007	91	715	37.48	na	1.887	107.6	17.12	12.63
111	2007	91	730	38.09	na	0.827	96.1	12.94	12.68
111	2007	91	745	38.78	na	2.489	105	21.33	12.79
111	2007	91	800	39.64	na	2.299	115.8	18.78	13.1
111	2007	91	815	40.77	na	2.76	111.7	18.61	13.38
111	2007	91	830	41.61	na	3.65	124	18.79	13.45
111	2007	91	845	42.2	na	4.451	127.2	18.27	13.81
111	2007	91	900	43.66	na	4.976	141	19.15	13.76
111	2007	91	915	43.95	na	4.748	149.3	21.63	13.76
111	2007	91	930	44.42	na	4.698	150.5	21.28	13.75

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	91	945	44.56	na	5.811	169.5	22.14	13.75
111	2007	91	1000	44.24	na	6.264	188.6	16.36	13.74
111	2007	91	1015	44.1	na	6.121	183.2	17.12	13.74
111	2007	91	1030	43.43	na	6.584	180.8	19.39	13.74
111	2007	91	1045	43.54	na	5.684	172.6	19.75	13.75
111	2007	91	1100	43.33	na	6.638	173.6	18.99	13.75
111	2007	91	1115	43.19	na	6.388	174.9	18.71	13.69
111	2007	91	1130	43.01	na	6.113	173.5	18.81	13.75
111	2007	91	1145	43.53	na	5.6	163.7	23.45	13.75
111	2007	91	1200	43.97	na	6.9	164.1	18.51	13.73
111	2007	91	1215	44.13	na	6.99	175.2	20.39	13.73
111	2007	91	1230	44.21	na	7.01	177.3	20.67	13.74
111	2007	91	1245	44.35	na	6.72	173.3	19.4	13.74
111	2007	91	1300	44.23	na	6.372	168.6	17.66	13.74
111	2007	91	1315	44.16	na	7.04	158.5	21.46	13.74
111	2007	91	1330	44.09	na	7	144.3	14.66	13.74
111	2007	91	1345	44.5	na	6.205	151.4	20	13.74
111	2007	91	1400	45.45	na	6.944	147.5	18.73	13.72
111	2007	91	1415	45.45	na	7.39	165.8	24.17	13.72
111	2007	91	1430	44.95	na	7.12	168.2	21.37	13.73
111	2007	91	1445	44.63	na	7.07	164.7	21.82	13.73
111	2007	91	1500	44.5	na	7.57	165.4	20.08	13.73
111	2007	91	1515	44.47	na	7.05	164.2	22.2	13.74
111	2007	91	1530	44.34	na	7.32	161.9	20.04	13.74
111	2007	91	1545	44.33	na	7.58	155	18.54	13.17
111	2007	91	1600	44.18	na	8.12	153.3	18.08	13.08
111	2007	91	1615	44.16	na	7.16	151.1	21.23	13.03
111	2007	91	1630	44.21	na	7.22	151.5	21.71	12.99
111	2007	91	1645	44.16	na	8.3	152.9	20.79	12.95
111	2007	91	1700	44.17	na	7.08	160	24.63	12.93
111	2007	91	1715	44.19	na	7.39	153.5	19.07	12.92
111	2007	91	1730	44.09	na	7.37	151.1	16.73	12.9
111	2007	91	1745	43.8	na	8.03	147.9	18.23	12.89
111	2007	91	1800	43.44	na	7.61	141.6	17.08	12.87
111	2007	91	1815	43.39	na	7.44	136.4	17.83	12.89
111	2007	91	1830	43.14	na	7.95	140	17	12.86
111	2007	91	1845	42.8	na	8.17	143.4	14.27	12.85
111	2007	91	1900	42.59	na	8.04	142.6	15.66	12.83
111	2007	91	1915	42.34	na	7.57	148	15.9	12.86
111	2007	91	1930	42.07	na	8.26	143.3	16.45	12.83
111	2007	91	1945	42.01	na	6.356	138.1	19.66	12.85
111	2007	91	2000	42.14	na	7.3	135.3	18.62	12.81
111	2007	91	2015	42.37	na	8.03	137.1	13.51	12.81
111	2007	91	2030	42.55	na	8.04	138.6	16.41	12.81
111	2007	91	2045	42.37	na	7.15	149.6	19.28	12.8
111	2007	91	2100	41.96	na	6.678	149.1	17.68	12.79
111	2007	91	2115	41.83	na	5.404	141.3	16.6	12.79
111	2007	91	2130	41.9	na	5.865	139.6	13.42	12.79
111	2007	91	2145	42.1	na	6.813	135.1	12.97	12.78
111	2007	91	2200	42.34	na	6.98	146.2	16.73	12.77
111	2007	91	2215	42.61	na	5.942	145.8	18.1	12.77
111	2007	91	2230	42.82	na	4.873	143.3	13.82	12.77
111	2007	91	2245	43.14	na	3.714	123.5	18.87	12.75
111	2007	91	2300	43.3	na	4.203	117.2	18.2	12.74
111	2007	91	2315	43.33	na	3.257	59.95	35.05	12.74
111	2007	91	2330	43.4	na	2.779	102.6	26.14	12.73
111	2007	91	2345	43.61	na	2.573	137.8	20.86	12.73
111	2007	91	2400	43.79	na	2.573	74.5	30.27	12.7
111	2007	92	15	43.81	na	2.694	94.9	21.63	12.71
111	2007	92	30	43.72	na	2.895	84.8	17.59	12.7

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	92	45	43.72	na	3.873	75.6	19.07	12.7
111	2007	92	100	43.7	na	3.177	83.1	17.24	12.68
111	2007	92	115	43.72	na	2.887	101.3	18.21	12.69
111	2007	92	130	43.75	na	2.4	102.5	20.76	12.68
111	2007	92	145	43.77	na	2.778	72.8	13.16	12.67
111	2007	92	200	43.81	na	3.815	73.3	13.93	12.66
111	2007	92	215	43.83	na	3.108	77.8	23.1	12.67
111	2007	92	230	43.85	na	4.708	50.72	23.63	12.67
111	2007	92	245	43.83	na	4.163	63.08	25.71	12.67
111	2007	92	300	43.67	na	4.477	41.96	22.18	12.65
111	2007	92	315	43.1	na	2.049	57.96	33.93	12.66
111	2007	92	330	42.8	na	3.633	35.87	24.46	12.68
111	2007	92	345	42.54	na	3.147	22.78	30.5	12.65
111	2007	92	400	42.22	na	2.346	16.29	27.37	12.64
111	2007	92	415	42.05	na	2.935	43.48	24	12.65
111	2007	92	430	41.91	na	2.89	46.75	21.96	12.65
111	2007	92	445	41.8	na	3.688	73.8	18.09	12.65
111	2007	92	500	41.67	na	4.261	54.16	17.03	12.63
111	2007	92	515	41.52	na	3.966	72	21.47	12.64
111	2007	92	530	41.52	na	3.495	73.3	18.88	12.63
111	2007	92	545	41.66	na	3.853	80	17.81	12.64
111	2007	92	600	41.88	na	2.702	79.8	13.57	12.63
111	2007	92	615	42.01	na	2.16	33.79	25.93	12.63
111	2007	92	630	41.96	na	3.627	44.12	17.6	12.63
111	2007	92	645	41.8	na	3.857	51.87	20.37	12.63
111	2007	92	700	41.4	na	4.565	66.71	21.11	12.63
111	2007	92	715	40.8	na	5.596	75.6	18.81	12.63
111	2007	92	730	40.53	na	6.557	87.6	15.75	12.63
111	2007	92	745	40.43	na	5.859	95.5	16.79	12.63
111	2007	92	800	40.51	na	5.173	98.7	20.32	12.64
111	2007	92	815	40.59	na	5.64	105.7	16.06	12.69
111	2007	92	830	40.78	na	4.859	109.8	19.91	12.79
111	2007	92	845	40.94	na	4.952	103.3	17.17	12.91
111	2007	92	900	41.27	na	4.388	104.5	22.08	13.05
111	2007	92	915	41.52	na	4.197	99.9	23.98	13.29
111	2007	92	930	41.7	na	3.809	82	17.65	13.41
111	2007	92	945	42	na	3.801	96.4	19.84	13.56
111	2007	92	1000	42.27	na	2.645	68.21	36.72	13.57
111	2007	92	1015	42.71	na	1.928	21.91	31.11	13.62
111	2007	92	1030	42.95	na	2.511	46.65	51.01	13.75
111	2007	92	1045	43.14	na	1.566	16.87	37.15	13.75
111	2007	92	1100	43.45	na	1.984	70.1	33.87	13.74
111	2007	92	1115	43.72	na	3.684	62.94	32.34	13.74
111	2007	92	1130	43.89	na	3.245	108.5	34.72	13.73
111	2007	92	1145	44.08	na	2.256	81.5	27.34	13.73
111	2007	92	1200	44.21	na	2.816	68.08	29.36	13.72
111	2007	92	1215	44.52	na	2.774	46.67	28.72	13.72
111	2007	92	1230	44.82	na	4.042	54.47	29.24	13.72
111	2007	92	1245	44.95	na	3.133	55.37	19.21	13.72
111	2007	92	1300	45.02	na	4.131	88.7	19.5	13.8
111	2007	92	1315	45.36	na	3.139	80.8	20.55	13.7
111	2007	92	1330	45.85	na	1.296	113.5	40.78	13.69
111	2007	92	1345	46.9	na	1.343	48.62	53.84	13.67
111	2007	92	1400	47.14	na	2.002	111.4	31.65	13.66
111	2007	92	1415	47.67	na	1.872	46.52	68.74	13.66
111	2007	92	1430	48.47	na	2.191	33.94	59.69	13.65
111	2007	92	1445	48.93	na	2.462	54.63	70.4	13.64
111	2007	92	1500	49.57	na	2.223	200.8	84.5	13.63
111	2007	92	1515	47.9	na	5.002	198.5	22.02	13.64
111	2007	92	1530	47.4	na	5.107	210.9	26.07	13.64

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	92	1545	46.78	na	5.59	218.3	21.09	13.64
111	2007	92	1600	46.74	na	5.31	215.2	24.4	13.65
111	2007	92	1615	46.77	na	4.875	201.9	26.84	13.65
111	2007	92	1630	46.95	na	4.571	210.8	25.03	13.65
111	2007	92	1645	46.82	na	3.869	237.2	26.84	13.66
111	2007	92	1700	46.88	na	4.131	214.7	20.33	13.66
111	2007	92	1715	46.56	na	4.807	194.8	23.85	13.66
111	2007	92	1730	45.89	na	5.414	196.3	19.27	13.68
111	2007	92	1745	45.83	na	5.237	211.3	21.73	13.67
111	2007	92	1800	45.62	na	4.318	189.9	21.45	13.68
111	2007	92	1815	45.49	na	5.529	184.2	22.08	13.7
111	2007	92	1830	44.95	na	6.282	176.4	16.62	13.71
111	2007	92	1845	44.49	na	6.443	172.6	18.92	13.14
111	2007	92	1900	44.39	na	5.354	168.2	18.99	13.04
111	2007	92	1915	44.27	na	4.718	171.1	18.87	13
111	2007	92	1930	44.13	na	4.523	160.7	20.3	12.96
111	2007	92	1945	44.09	na	5.42	154.3	18.33	12.94
111	2007	92	2000	44.06	na	5.968	150.5	16.86	12.9
111	2007	92	2015	44.03	na	5.268	145.5	17.25	12.9
111	2007	92	2030	43.99	na	4.692	148.3	22.55	12.89
111	2007	92	2045	43.97	na	5.557	152.7	19.7	12.88
111	2007	92	2100	44.01	na	5.489	157.7	17.01	12.87
111	2007	92	2115	43.92	na	5.757	155.3	12.75	12.87
111	2007	92	2130	43.91	na	3.716	141.8	23.95	12.86
111	2007	92	2145	43.91	na	3.309	178	24.4	12.85
111	2007	92	2200	43.85	na	3.801	179.5	18.67	12.84
111	2007	92	2215	43.64	na	5.264	169.3	20.7	12.85
111	2007	92	2230	43.52	na	4.893	159.9	21.55	12.85
111	2007	92	2245	43.27	na	4.573	166	22.4	12.84
111	2007	92	2300	42.99	na	4.545	167.7	20.6	12.82
111	2007	92	2315	42.82	na	4.207	138.3	15.42	12.83
111	2007	92	2330	42.76	na	3.46	140.1	22.65	12.83
111	2007	92	2345	42.86	na	4.249	150	13.91	12.82
111	2007	92	2400	42.8	na	4.147	144.6	17.73	12.81
111	2007	93	15	42.83	na	3.505	148.5	22.53	12.81
111	2007	93	30	42.73	na	3.487	159.4	22.11	12.81
111	2007	93	45	42.68	na	3.464	157.8	17.72	12.81
111	2007	93	100	42.63	na	2.766	164.6	21.2	12.79
111	2007	93	115	42.7	na	2.827	155.5	21.34	12.79
111	2007	93	130	42.71	na	2.702	144.9	22.69	12.82
111	2007	93	145	42.72	na	3.142	131.6	21.96	12.79
111	2007	93	200	42.72	na	2.653	105.1	18.05	12.77
111	2007	93	215	42.75	na	1.88	91.5	21.36	12.78
111	2007	93	230	42.78	na	1.512	99.3	19.42	12.77
111	2007	93	245	42.79	na	2.407	108.1	20.53	12.77
111	2007	93	300	42.75	na	4.112	123.3	12.67	12.78
111	2007	93	315	42.64	na	3.495	113	19.16	12.76
111	2007	93	330	42.5	na	2.641	108.9	15.73	12.75
111	2007	93	345	42.48	na	2.714	112.7	17.97	12.75
111	2007	93	400	42.48	na	2.404	86.8	26.91	12.73
111	2007	93	415	42.4	na	2.451	101.6	21.17	12.75
111	2007	93	430	42.35	na	2.134	101	14.36	12.73
111	2007	93	445	42.45	na	2.342	91.9	14.58	12.72
111	2007	93	500	42.46	na	2.664	103.9	18.53	12.71
111	2007	93	515	42.38	na	2.476	84.4	15.71	12.71
111	2007	93	530	42.36	na	3.406	78.8	19.66	12.7
111	2007	93	545	42.28	na	3.472	90.6	16.47	12.69
111	2007	93	600	42.19	na	3.68	89.6	19.33	12.67
111	2007	93	615	42.09	na	3.545	79.4	18.06	12.68
111	2007	93	630	42.01	na	3.754	74.8	17.4	12.67

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	93	645	41.99	na	2.901	93.2	23.65	12.67
111	2007	93	700	41.83	na	3.042	105.2	18.15	12.65
111	2007	93	715	41.76	na	2.561	109.5	17.07	12.65
111	2007	93	730	41.81	na	1.869	105.8	26.87	12.65
111	2007	93	745	41.88	na	1.521	108	18.5	12.65
111	2007	93	800	42.05	na	0.778	112.1	14.72	12.66
111	2007	93	815	42.44	na	1.456	45.09	20.53	12.74
111	2007	93	830	42.72	na	1.592	69.54	21.88	12.87
111	2007	93	845	43.15	na	2.474	14.88	27.61	13.01
111	2007	93	900	43.6	na	3.117	14.31	32.99	13.11
111	2007	93	915	43.9	na	4.432	16.27	27.34	13.18
111	2007	93	930	44.18	na	4.4	25.96	24.63	13.38
111	2007	93	945	44.54	na	4.652	24.01	24.77	13.73
111	2007	93	1000	45.35	na	4.026	27.14	28.81	13.72
111	2007	93	1015	46.2	na	3.561	26.5	36.72	13.7
111	2007	93	1030	46.69	na	3.458	42.15	30.32	13.68
111	2007	93	1045	47.8	na	4.525	38.92	52.06	13.67
111	2007	93	1100	48.78	na	3.716	68.09	40.52	13.64
111	2007	93	1115	49.06	na	4.791	78.9	35.73	13.64
111	2007	93	1130	49.53	na	5.533	94.6	25.82	13.63
111	2007	93	1145	50.49	na	5.278	89.3	29.85	13.61
111	2007	93	1200	50.54	na	5.121	79.7	36.66	13.6
111	2007	93	1215	50.65	na	6.322	89.2	27.86	13.6
111	2007	93	1230	50.84	na	6.692	81.6	28.79	13.59
111	2007	93	1245	51.2	na	6.795	62.14	25.3	13.59
111	2007	93	1300	51.95	na	5.32	60.75	33.4	13.58
111	2007	93	1315	52.02	na	4.026	25.1	77.7	13.58
111	2007	93	1330	50.54	na	3.774	282.6	52.97	13.6
111	2007	93	1345	51.3	na	3.984	337.3	97.7	13.6
111	2007	93	1400	48.42	na	5.523	234.4	20.3	13.6
111	2007	93	1415	49.16	na	5.779	238.5	23.71	13.61
111	2007	93	1430	48.68	na	6.244	225.1	24.12	13.61
111	2007	93	1445	48.81	na	5.3	230.1	21.62	13.62
111	2007	93	1500	50.02	na	5.594	239.5	25.56	13.6
111	2007	93	1515	49.96	na	7.04	264.9	25.04	13.59
111	2007	93	1530	48.92	na	7.1	259.3	27.38	13.6
111	2007	93	1545	48.55	na	6.135	246.9	28.2	13.6
111	2007	93	1600	48.01	na	6.803	218.4	23.63	13.6
111	2007	93	1615	47.18	na	5.835	204.3	23.65	13.62
111	2007	93	1630	46.7	na	6.409	193.6	24.33	13.62
111	2007	93	1645	46.09	na	7.09	192.6	23.08	13.64
111	2007	93	1700	45.2	na	7.91	187.7	19.52	13.64
111	2007	93	1715	45.14	na	8.26	173.1	17.1	13.66
111	2007	93	1730	44.82	na	8.91	175.7	18.61	13.67
111	2007	93	1745	45.17	na	8.56	180.6	18.82	13.68
111	2007	93	1800	44.65	na	8.67	172.5	19.48	13.68
111	2007	93	1815	44.73	na	7.84	182.5	19.12	13.7
111	2007	93	1830	44.8	na	7.23	171.1	18.27	13.71
111	2007	93	1845	44.57	na	7.75	164.6	20.01	13.13
111	2007	93	1900	44.23	na	8.21	167	18.5	13.03
111	2007	93	1915	44.14	na	7.4	170	17.03	12.99
111	2007	93	1930	43.96	na	8.66	161.6	21.5	12.95
111	2007	93	1945	43.76	na	7.71	156.8	18.16	12.93
111	2007	93	2000	43.73	na	6.811	166.1	19.75	12.89
111	2007	93	2015	43.69	na	8.02	159.5	18.41	12.89
111	2007	93	2030	43.53	na	8.57	164.7	20.39	12.87
111	2007	93	2045	43.17	na	9.34	145	19.13	12.87
111	2007	93	2100	42.86	na	10	151.2	15.15	12.84
111	2007	93	2115	42.66	na	10.48	153.5	18.02	12.85
111	2007	93	2130	42.36	na	10.47	140.3	15.13	12.84

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	93	2145	42.2	na	10.6	141.7	16.36	12.85
111	2007	93	2200	42.13	na	9.32	147.2	16.69	12.81
111	2007	93	2215	41.71	na	10.94	152.1	20.28	12.82
111	2007	93	2230	41.51	na	9.16	147.1	14.4	12.82
111	2007	93	2245	41.11	na	10.86	148.9	17.23	12.81
111	2007	93	2300	40.62	na	10.15	147.9	14.58	12.79
111	2007	93	2315	40.15	na	10.5	148.5	16.19	12.8
111	2007	93	2330	39.83	na	10.39	150.6	15.36	12.79
111	2007	93	2345	39.73	na	10.62	139.2	17.66	12.79
111	2007	93	2400	39.51	na	9.71	139	21.5	12.77
111	2007	94	15	39.05	na	9.39	144.4	17.41	12.78
111	2007	94	30	38.89	na	9.34	129.2	17.79	12.77
111	2007	94	45	38.74	na	9.41	142.3	16.71	12.77
111	2007	94	100	38.65	na	9.12	144.9	15.97	12.75
111	2007	94	115	38.49	na	8.55	135.7	18.6	12.76
111	2007	94	130	38.4	na	8.4	135	16.23	12.75
111	2007	94	145	38.39	na	7.75	129.5	21.62	12.75
111	2007	94	200	38.34	na	8.72	132.9	16.58	12.75
111	2007	94	215	38.35	na	8.61	130.8	14.76	12.74
111	2007	94	230	38.25	na	9.43	136.7	16.66	12.73
111	2007	94	245	38.08	na	10.37	135.6	16.3	12.73
111	2007	94	300	38.17	na	8.87	138.7	17.43	12.71
111	2007	94	315	38.25	na	8.29	144.5	16.65	12.71
111	2007	94	330	38.1	na	7.98	140.3	17.94	12.71
111	2007	94	345	38	na	7.86	146.4	15.07	12.71
111	2007	94	400	37.83	na	9.14	138.7	17.45	12.69
111	2007	94	415	37.86	na	8.09	137.8	16.65	12.69
111	2007	94	430	37.98	na	7.77	148.1	20.77	12.69
111	2007	94	445	37.89	na	8.18	137.2	18.22	12.68
111	2007	94	500	37.88	na	8.67	139.1	18.42	12.66
111	2007	94	515	37.89	na	7.66	146.1	18.89	12.67
111	2007	94	530	38.07	na	6.274	149.2	18.86	12.66
111	2007	94	545	37.98	na	8.35	143	17.46	12.65
111	2007	94	600	38.1	na	7.03	151.8	15.25	12.63
111	2007	94	615	37.85	na	8.57	147.6	16.96	12.64
111	2007	94	630	37.85	na	8.57	144.3	15.82	12.63
111	2007	94	645	37.81	na	8.29	148.3	13.76	12.63
111	2007	94	700	37.85	na	8.56	148.6	15.97	12.61
111	2007	94	715	37.91	na	7.6	151	16.23	12.62
111	2007	94	730	38.1	na	8.32	150.3	18.83	12.62
111	2007	94	745	38.4	na	9.33	151.2	18.46	12.63
111	2007	94	800	38.65	na	9.45	151.5	18.81	12.65
111	2007	94	815	38.89	na	9.87	161.6	21.79	12.81
111	2007	94	830	38.74	na	10.93	150.7	14.37	12.95
111	2007	94	845	38.79	na	10.49	158.7	18.17	13
111	2007	94	900	38.87	na	10.37	153.9	19.24	12.9
111	2007	94	915	38.9	na	10.27	153.5	16.77	12.83
111	2007	94	930	38.99	na	9.41	161.4	20.79	12.74
111	2007	94	945	39.08	na	10.49	169.9	20.54	12.69
111	2007	94	1000	39.21	na	10.14	159	19.81	12.93
111	2007	94	1015	39.73	na	11.1	166.5	18.27	12.92
111	2007	94	1030	39.54	na	11.14	153	19.4	12.95
111	2007	94	1045	39.62	na	11.86	153.7	17.47	13.15
111	2007	94	1100	39.66	na	11.67	149.5	18.95	13.2
111	2007	94	1115	40.01	na	10.43	152	20.43	13.17
111	2007	94	1130	39.95	na	10.46	153.7	15.73	13.13
111	2007	94	1145	39.81	na	11.97	150.9	15.93	13.28
111	2007	94	1200	39.84	na	10.18	152.6	21.28	13.11
111	2007	94	1215	39.96	na	11.19	142.9	13.83	13.01
111	2007	94	1230	40.06	na	12.07	150	14.59	12.96

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	94	1245	40.16	na	12.41	148.6	16.2	12.92
111	2007	94	1300	40.26	na	11.49	152.6	16.15	12.86
111	2007	94	1315	40.24	na	12.45	153.1	16.87	12.84
111	2007	94	1330	40.19	na	13.82	146.4	15.38	12.76
111	2007	94	1345	40.24	na	14.57	143.9	13.68	12.8
111	2007	94	1400	40.34	na	14.56	143.9	17.2	12.84
111	2007	94	1415	40.41	na	14.33	139.8	18.66	12.75
111	2007	94	1430	40.39	na	14.65	132.6	16.77	12.7
111	2007	94	1445	40.44	na	13.27	130.9	20.2	12.67
111	2007	94	1500	40.59	na	11.58	131.9	16.91	12.65
111	2007	94	1515	40.67	na	9.12	118.6	21.6	12.64
111	2007	94	1530	40.83	na	5.901	79.2	32.16	12.63
111	2007	94	1545	40.95	na	4.99	104.5	32.39	12.63
111	2007	94	1600	41.12	na	6.173	111	26.34	12.62
111	2007	94	1615	41.31	na	7.17	120.5	17.82	12.65
111	2007	94	1630	41.31	na	6.63	119.9	18.74	12.63
111	2007	94	1645	41.34	na	7	116.5	17.81	12.62
111	2007	94	1700	41.5	na	6.664	115.2	18.16	12.61
111	2007	94	1715	41.55	na	7.86	121.7	15.91	12.65
111	2007	94	1730	41.49	na	8.58	121.1	16.04	12.63
111	2007	94	1745	41.45	na	7.31	122.2	16.44	12.62
111	2007	94	1800	41.44	na	7.6	121.3	18.2	12.61
111	2007	94	1815	41.47	na	7.77	113.4	19.31	12.62
111	2007	94	1830	41.47	na	6.008	104.1	16.79	12.65
111	2007	94	1845	41.5	na	4.446	84.7	18.87	12.62
111	2007	94	1900	41.57	na	4.654	89	19.15	12.61
111	2007	94	1915	41.42	na	5.853	96.8	14.41	12.62
111	2007	94	1930	41.29	na	6.272	83	21.27	12.62
111	2007	94	1945	41.31	na	5.213	64.53	17.27	12.62
111	2007	94	2000	41.31	na	4.509	69.69	19.79	12.6
111	2007	94	2015	41.07	na	5.213	65.71	18.58	12.62
111	2007	94	2030	40.18	na	5.831	67.72	21.55	12.62
111	2007	94	2045	40	na	5.261	61.16	21.07	12.62
111	2007	94	2100	40.02	na	5.161	51.46	24.13	12.61
111	2007	94	2115	39.93	na	5.084	59.71	20.19	12.61
111	2007	94	2130	39.89	na	5.626	64.42	24.39	12.61
111	2007	94	2145	39.88	na	5.445	53.01	25.49	12.61
111	2007	94	2200	39.76	na	4.96	52.4	22.28	12.61
111	2007	94	2215	39.62	na	5.567	29.98	21.94	12.61
111	2007	94	2230	39.56	na	5.113	24.99	23.73	12.61
111	2007	94	2245	39.35	na	6.26	30.74	20.44	12.61
111	2007	94	2300	39.31	na	7.09	38.18	19.75	12.6
111	2007	94	2315	39.4	na	6.052	27.21	19.59	12.61
111	2007	94	2330	39.48	na	4.696	17.66	28.13	12.61
111	2007	94	2345	39.54	na	5.37	27.67	28.54	12.61
111	2007	94	2400	39.56	na	5.155	19.85	22.82	12.6
111	2007	95	15	39.56	na	3.929	19.21	24.38	12.61
111	2007	95	30	39.58	na	3.47	358.9	34.56	12.61
111	2007	95	45	39.59	na	3.831	4.899	34.58	12.61
111	2007	95	100	39.61	na	3.66	351.4	24.72	12.61
111	2007	95	115	39.65	na	3.305	355.4	30.38	12.61
111	2007	95	130	39.67	na	4.269	2.088	30.97	12.61
111	2007	95	145	39.73	na	4.247	4.77	27.1	12.61
111	2007	95	200	39.79	na	3.855	13.81	35.91	12.59
111	2007	95	215	39.88	na	4.257	6.104	31.47	12.61
111	2007	95	230	40	na	3.748	358.1	31.06	12.61
111	2007	95	245	40.17	na	4.899	355.3	33.88	12.61
111	2007	95	300	40.37	na	5.638	354.1	36.37	12.59
111	2007	95	315	40.29	na	6.185	10.28	28.74	12.61
111	2007	95	330	39.69	na	6.992	20.42	19.32	12.61

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	95	345	39.14	na	6.195	12.11	31.14	12.6
111	2007	95	400	38.87	na	5.773	11.57	24.53	12.59
111	2007	95	415	38.89	na	6.231	14.78	20.18	12.6
111	2007	95	430	38.9	na	5.889	14.51	25.98	12.6
111	2007	95	445	38.77	na	4.579	7.99	26.98	12.6
111	2007	95	500	38.7	na	4.883	7.37	28.48	12.59
111	2007	95	515	38.71	na	5.424	10.89	30	12.6
111	2007	95	530	38.53	na	4.127	19.76	19.6	12.59
111	2007	95	545	38.43	na	3.46	12.18	26.34	12.6
111	2007	95	600	38.3	na	5.714	24.52	20.38	12.59
111	2007	95	615	37.96	na	5.429	19.16	23.48	12.59
111	2007	95	630	37.83	na	4.368	19.61	23.37	12.59
111	2007	95	645	37.76	na	3.674	13.83	28.23	12.59
111	2007	95	700	37.66	na	3.445	18.03	27.97	12.58
111	2007	95	715	37.7	na	2.746	16.9	20.79	12.59
111	2007	95	730	37.78	na	2.454	7.9	25.77	12.59
111	2007	95	745	37.92	na	2.396	4.504	31.07	12.61
111	2007	95	800	38.16	na	2.851	1.754	29.87	12.65
111	2007	95	815	38.46	na	2.909	1.896	28.87	12.65
111	2007	95	830	38.56	na	3.599	3.875	25.12	12.61
111	2007	95	845	38.64	na	6.326	341.2	28.51	12.8
111	2007	95	900	38.65	na	6.405	347.5	30.24	13.1
111	2007	95	915	38.91	na	6.704	345.8	28.78	13.31
111	2007	95	930	37.19	na	9.63	7.05	22.88	13.82
111	2007	95	945	37.36	na	7.61	0.268	26.05	13.81
111	2007	95	1000	37.86	na	7.92	5.033	27.1	13.81
111	2007	95	1015	38.6	na	8.89	348.8	37.56	13.79
111	2007	95	1030	39.66	na	9.25	358.8	29.38	13.77
111	2007	95	1045	39.68	na	8.63	349.7	33.02	13.76
111	2007	95	1100	39.68	na	9.01	6.297	29.92	13.75
111	2007	95	1115	39.4	na	8.37	345.7	34.33	13.75
111	2007	95	1130	38.92	na	7.96	337	38.96	13.77
111	2007	95	1145	38.9	na	9.37	334	29.39	13.77
111	2007	95	1200	40.18	na	8.82	345.3	38.08	13.73
111	2007	95	1215	40.68	na	8.97	330.4	30.25	13.73
111	2007	95	1230	41.82	na	8.59	337.8	32.29	13.73
111	2007	95	1245	41.93	na	9.71	340.6	40.03	13.73
111	2007	95	1300	42.5	na	10.13	312.6	28.12	13.72
111	2007	95	1315	42.52	na	9.3	326.7	30.17	13.73
111	2007	95	1330	41.2	na	8.71	325.5	28.41	13.74
111	2007	95	1345	42.32	na	8.16	323.1	31.85	13.73
111	2007	95	1400	41.07	na	10.19	313.2	25.64	13.75
111	2007	95	1415	40.92	na	9.43	317.6	23.02	13.77
111	2007	95	1430	41.58	na	8.7	310.5	24.1	13.76
111	2007	95	1445	41.28	na	8.12	327.2	28.45	13.77
111	2007	95	1500	41.69	na	8.63	328	36.09	13.76
111	2007	95	1515	41.44	na	9.28	322.2	27.55	13.78
111	2007	95	1530	41.66	na	7.58	337.8	37.67	13.77
111	2007	95	1545	42.12	na	8.4	343.7	30.25	13.76
111	2007	95	1600	43.5	na	9.41	324.6	26.55	13.74
111	2007	95	1615	42.43	na	8.05	341	30.2	13.75
111	2007	95	1630	42.54	na	10.22	326.8	26.32	13.75
111	2007	95	1645	41.39	na	9.09	326	27.04	13.77
111	2007	95	1700	40.94	na	8.71	336.9	35.58	13.77
111	2007	95	1715	40.63	na	9.61	344.7	28.35	13.79
111	2007	95	1730	40.09	na	8.31	348.9	35.2	13.79
111	2007	95	1745	39.94	na	10.4	330.4	27.32	13.8
111	2007	95	1800	39.72	na	9.54	349.5	35.27	13.57
111	2007	95	1815	39.31	na	7.8	344.8	31.02	13.21
111	2007	95	1830	38.67	na	8.94	319.9	25.9	13.11

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	95	1845	37.85	na	7.54	325.6	26.86	13.04
111	2007	95	1900	38.12	na	8.39	333	27.71	12.99
111	2007	95	1915	38.19	na	6.777	354.9	36.24	12.96
111	2007	95	1930	37.55	na	7.94	9.3	31	12.93
111	2007	95	1945	37.42	na	7.07	3.53	28.39	12.92
111	2007	95	2000	37.34	na	5.984	0.928	30.5	12.89
111	2007	95	2015	37.26	na	5.463	345.7	33.64	12.89
111	2007	95	2030	37.2	na	6.475	342.2	32.39	12.89
111	2007	95	2045	36.96	na	8.03	335.4	30.47	12.87
111	2007	95	2100	36.61	na	6.137	350.1	35.36	12.85
111	2007	95	2115	36.37	na	5.781	346.1	29.55	12.85
111	2007	95	2130	35.81	na	5.531	8.96	30.47	12.85
111	2007	95	2145	35.48	na	3.72	1.044	27.27	12.84
111	2007	95	2200	35.28	na	5.42	359.3	30.34	12.82
111	2007	95	2215	34.86	na	4.533	357.6	36.6	12.83
111	2007	95	2230	34.56	na	4.537	355.8	27.78	12.82
111	2007	95	2245	34.5	na	4.185	353.1	31.89	12.82
111	2007	95	2300	34.46	na	4.247	355	31.34	12.8
111	2007	95	2315	34.27	na	5.094	353.9	25.4	12.8
111	2007	95	2330	34.18	na	5.368	359.9	31.67	12.8
111	2007	95	2345	33.95	na	4.376	348.7	31.33	12.79
111	2007	95	2400	33.87	na	4.811	328.4	30.21	12.78
111	2007	96	15	33.8	na	6.821	326.4	31.94	12.79
111	2007	96	30	33.43	na	6.821	340	30.46	12.78
111	2007	96	45	32.94	na	5.833	336.5	28.82	12.78
111	2007	96	100	32.75	na	6.445	349	35.02	12.76
111	2007	96	115	32.7	na	5.813	348.9	29.2	12.77
111	2007	96	130	32.64	na	4.891	344.8	24.85	12.77
111	2007	96	145	32.36	na	6.374	351	34.77	12.76
111	2007	96	200	32	na	5.686	342.5	31.21	12.75
111	2007	96	215	31.72	na	5.714	353.6	26.87	12.76
111	2007	96	230	31.43	na	4.964	341.9	36.34	12.76
111	2007	96	245	31.37	na	5.386	338.6	31.97	12.75
111	2007	96	300	31.43	na	5.563	345	28.75	12.72
111	2007	96	315	31.38	na	5.264	337.3	30	12.74
111	2007	96	330	31.11	na	5.539	335.7	36.45	12.73
111	2007	96	345	31.01	na	4.543	338.6	29.77	12.73
111	2007	96	400	30.91	na	3.738	323.4	29.86	12.72
111	2007	96	415	30.97	na	3.841	322.1	23.18	12.73
111	2007	96	430	31.11	na	5.676	319.4	30.3	12.72
111	2007	96	445	31.29	na	3.97	322.4	34.89	12.72
111	2007	96	500	31.36	na	4.446	349.2	31.73	12.69
111	2007	96	515	31.44	na	4.638	327.5	34.82	12.7
111	2007	96	530	31.41	na	5.523	352.4	32.93	12.7
111	2007	96	545	31.31	na	7.93	332.7	32.89	12.7
111	2007	96	600	31.22	na	6.739	334.5	30.28	12.67
111	2007	96	615	31	na	6.077	326.6	29.24	12.68
111	2007	96	630	30.78	na	5.728	325.1	27.04	12.68
111	2007	96	645	30.67	na	4.155	331.4	28.84	12.68
111	2007	96	700	30.63	na	3.187	330	32.21	12.66
111	2007	96	715	31.31	na	3.959	339.2	29.19	12.66
111	2007	96	730	31.88	na	4.018	346.4	31.71	12.69
111	2007	96	745	32.46	na	3.974	337.9	31.73	12.81
111	2007	96	800	32.99	na	4.611	335.9	36.44	13.04
111	2007	96	815	33.01	na	6.58	323.2	28.24	13.15
111	2007	96	830	33.03	na	8.23	338.7	35.14	13.92
111	2007	96	845	33.39	na	6.887	342.7	34.48	13.93
111	2007	96	900	34.04	na	6.477	331.8	31.59	13.9
111	2007	96	915	34.22	na	7.81	319.9	28.18	13.9
111	2007	96	930	34.5	na	8.27	323.9	31.39	13.88

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	96	945	34.36	na	6.912	345.4	40.07	13.89
111	2007	96	1000	34.13	na	7.54	329.5	31.34	13.9
111	2007	96	1015	34.08	na	5.853	349.5	30.54	13.9
111	2007	96	1030	34.1	na	6.59	323.6	27.41	13.9
111	2007	96	1045	34.48	na	5.843	345.4	32.93	13.89
111	2007	96	1100	35.03	na	6.988	1.327	30.06	13.87
111	2007	96	1115	35.23	na	6.31	319.5	33.36	13.87
111	2007	96	1130	35.68	na	6.356	330	30.48	13.85
111	2007	96	1145	35.23	na	5.851	330.5	35.24	13.85
111	2007	96	1200	36.01	na	6.187	302.6	25.94	13.85
111	2007	96	1215	37.83	na	7.16	301.4	26.15	13.83
111	2007	96	1230	37.1	na	6.598	319.6	31.54	13.83
111	2007	96	1245	37.19	na	7.81	306.3	28.48	13.83
111	2007	96	1300	37.74	na	7.58	313.2	28.83	13.82
111	2007	96	1315	38.36	na	6.745	299.4	25.99	13.81
111	2007	96	1330	38.34	na	5.31	324.5	31.88	13.82
111	2007	96	1345	37.87	na	5.954	326.8	31.65	13.82
111	2007	96	1400	37.76	na	5.97	325.6	30.66	13.82
111	2007	96	1415	38.36	na	7.55	299.8	25.45	13.82
111	2007	96	1430	38.88	na	7.48	312.3	25.09	13.81
111	2007	96	1445	38.97	na	8.01	314.2	21.58	13.8
111	2007	96	1500	38.26	na	7.33	311.7	30.96	13.8
111	2007	96	1515	38.27	na	6.904	312.9	44.74	13.81
111	2007	96	1530	37.89	na	8.86	286	23.75	13.83
111	2007	96	1545	37.79	na	8.47	285.9	19.55	13.83
111	2007	96	1600	37.84	na	8.76	280.4	18.16	13.83
111	2007	96	1615	38.15	na	7.59	282.5	22.94	13.83
111	2007	96	1630	38.41	na	7.81	294.1	21.44	13.83
111	2007	96	1645	38.4	na	7.76	303.6	24.5	13.84
111	2007	96	1700	38.76	na	5.811	324	36.55	13.83
111	2007	96	1715	38.29	na	5.575	323.7	28.38	13.84
111	2007	96	1730	38.19	na	4.706	353.4	36.82	13.85
111	2007	96	1745	38.36	na	4.67	333.4	47.12	13.85
111	2007	96	1800	39.33	na	4.628	328.3	32.15	13.83
111	2007	96	1815	39.59	na	5.543	349.2	31.77	13.83
111	2007	96	1830	39.54	na	5.052	324.9	29.8	13.84
111	2007	96	1845	39.2	na	3.899	337.1	31.77	13.18
111	2007	96	1900	38.37	na	3.41	321.8	28.53	13.08
111	2007	96	1915	38.04	na	3.885	317.2	30.07	13.02
111	2007	96	1930	37.95	na	3.199	297.1	19.5	12.97
111	2007	96	1945	38.05	na	2.286	300.5	25.18	12.94
111	2007	96	2000	37.94	na	1.917	298.9	24.62	12.91
111	2007	96	2015	38.03	na	1.834	341.5	30	12.89
111	2007	96	2030	38.06	na	2.659	329.3	25.19	12.89
111	2007	96	2045	37.95	na	3.209	325.6	27.91	12.87
111	2007	96	2100	37.96	na	3.599	317.3	27.46	12.85
111	2007	96	2115	37.82	na	3.843	326.6	29.17	12.86
111	2007	96	2130	37.66	na	3.708	355.1	29.09	12.85
111	2007	96	2145	37.2	na	4.495	31.28	21.22	12.83
111	2007	96	2200	36.51	na	2.871	30.62	18.5	12.82
111	2007	96	2215	35.97	na	1.968	15.26	22.78	12.82
111	2007	96	2230	35.45	na	1.959	11.47	20.4	12.82
111	2007	96	2245	34.88	na	0.857	12.03	23.7	12.81
111	2007	96	2300	34.56	na	1.264	8.37	21.82	12.79
111	2007	96	2315	34.39	na	0.938	346.4	20.58	12.79
111	2007	96	2330	34.21	na	0.62	12.62	17.84	12.78
111	2007	96	2345	34.21	na	1.084	337.9	21.39	12.78
111	2007	96	2400	34.2	na	0.97	347.8	21.22	12.76
111	2007	97	15	34.05	na	0.892	13.74	24.39	12.77
111	2007	97	30	33.96	na	0.664	352	18.65	12.77

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	97	45	33.77	na	1.091	324.5	13.06	12.76
111	2007	97	100	32.98	na	1.193	1.191	21.26	12.74
111	2007	97	115	32.51	na	1.573	351.6	25.09	12.75
111	2007	97	130	32.32	na	1.323	68.18	24.29	12.74
111	2007	97	145	31.78	na	0.968	89.6	13.16	12.74
111	2007	97	200	30.81	na	0.19	35.71	1.856	12.72
111	2007	97	215	29.86	na	0.785	291.7	18.81	12.71
111	2007	97	230	29.18	na	0.392	313.5	7.32	12.72
111	2007	97	245	28.45	na	0.109	344.6	7.71	12.7
111	2007	97	300	28.09	na	na	na	na	12.68
111	2007	97	315	27.8	na	na	na	na	12.69
111	2007	97	330	27.3	na	na	na	na	12.68
111	2007	97	345	27.27	na	0.105	356.2	4.647	12.67
111	2007	97	400	27.24	na	0.223	354.2	7.58	12.65
111	2007	97	415	26.97	na	0.018	25.11	3.19	12.65
111	2007	97	430	26.52	na	0.107	24.39	0.924	12.65
111	2007	97	445	26.56	na	0.347	42.79	5.471	12.64
111	2007	97	500	26.61	na	0.281	53.76	2.104	12.62
111	2007	97	515	26.19	na	0.17	4.705	10.5	12.63
111	2007	97	530	26.15	na	1.541	23.89	10.96	12.62
111	2007	97	545	26.49	na	2.181	30.42	12.05	12.61
111	2007	97	600	26.87	na	1.368	13.25	21.87	12.59
111	2007	97	615	26.73	na	0.415	14.99	10.66	12.61
111	2007	97	630	27.32	na	1.341	16	23.46	12.6
111	2007	97	645	27.73	na	0.808	336.3	16.93	12.59
111	2007	97	700	28.09	na	1.32	12.33	22.16	12.58
111	2007	97	715	29.01	na	1.487	7.4	20.39	12.61
111	2007	97	730	29.47	na	2.337	15.44	19.3	12.7
111	2007	97	745	30.13	na	2.478	20.39	21.05	12.87
111	2007	97	800	30.86	na	2.453	18.88	27.54	13.16
111	2007	97	815	31.83	na	3.336	23.25	19.78	14.01
111	2007	97	830	33.24	na	4.952	29.37	24.94	13.97
111	2007	97	845	34.09	na	6.24	36.09	20.41	13.94
111	2007	97	900	33.74	na	6.65	49.57	26.1	13.93
111	2007	97	915	34.17	na	5.887	45.81	21.66	13.92
111	2007	97	930	34.48	na	5.752	49.48	24.12	13.92
111	2007	97	945	34.64	na	5.722	46.23	21.56	13.9
111	2007	97	1000	34.69	na	6.922	50.76	17.51	13.89
111	2007	97	1015	35.17	na	6.535	46.8	20.53	13.87
111	2007	97	1030	35.52	na	6.815	55.82	19.56	13.86
111	2007	97	1045	36.53	na	6.382	33.62	27.02	13.84
111	2007	97	1100	36.89	na	7	42.42	26.37	13.81
111	2007	97	1115	37.54	na	6.718	25.6	25.17	13.81
111	2007	97	1130	37.22	na	7.2	29.13	27.2	13.79
111	2007	97	1145	37.41	na	8.05	47.86	22.81	13.79
111	2007	97	1200	37.19	na	8.14	35.52	23.59	13.79
111	2007	97	1215	37.76	na	7.27	17.68	39.16	13.79
111	2007	97	1230	37.92	na	8.04	15.88	30.45	13.79
111	2007	97	1245	38.18	na	7.56	12.87	31.22	13.79
111	2007	97	1300	37.34	na	7.71	45.64	24.1	13.79
111	2007	97	1315	38.01	na	7.37	23.93	29.52	13.79
111	2007	97	1330	38.1	na	8.46	30.88	24.55	13.79
111	2007	97	1345	38.04	na	6.724	4.069	34.52	13.79
111	2007	97	1400	38.21	na	6.081	21.46	53.27	13.79
111	2007	97	1415	37.99	na	6.437	25.93	29.39	13.79
111	2007	97	1430	37.98	na	6.644	18.26	35.65	13.79
111	2007	97	1445	38.16	na	6.71	335.9	39.71	13.79
111	2007	97	1500	37.73	na	7.11	21	27.05	13.79
111	2007	97	1515	38.01	na	6.083	12.46	36.77	13.8
111	2007	97	1530	38.39	na	5.672	359	36.12	13.8

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	97	1545	38.75	na	6.398	4.136	32.3	13.79
111	2007	97	1600	38.93	na	6.03	16.43	28.09	13.79
111	2007	97	1615	39.43	na	5.755	2.677	35.55	13.79
111	2007	97	1630	39.82	na	5.324	5.254	42.91	13.79
111	2007	97	1645	39.98	na	6.475	333	37.53	13.79
111	2007	97	1700	40.97	na	5.08	5.379	35.18	13.76
111	2007	97	1715	40.39	na	6.328	7.86	29.99	13.79
111	2007	97	1730	39.5	na	5.628	4.041	25.46	13.8
111	2007	97	1745	39.91	na	5.948	5.94	42.59	13.8
111	2007	97	1800	39.39	na	6.392	358	34	13.51
111	2007	97	1815	39.54	na	6.7	21.99	21.31	13.82
111	2007	97	1830	39.81	na	6.107	355.8	36.58	13.37
111	2007	97	1845	38.94	na	6.402	345.7	31.21	13.13
111	2007	97	1900	38.25	na	4.67	358	30.51	13.05
111	2007	97	1915	37.93	na	4.223	355.8	29.88	12.99
111	2007	97	1930	37.71	na	5.451	11.6	30.05	12.96
111	2007	97	1945	37.51	na	4.688	350.7	33.66	12.93
111	2007	97	2000	37.33	na	5.68	341	30.81	12.89
111	2007	97	2015	36.96	na	5.803	339.8	25.84	12.89
111	2007	97	2030	36.59	na	5.704	348.2	34.14	12.87
111	2007	97	2045	36.11	na	5.177	359.2	31.95	12.85
111	2007	97	2100	35.63	na	4.821	356.1	27.72	12.84
111	2007	97	2115	35.24	na	4.974	355.9	28.29	12.83
111	2007	97	2130	34.9	na	5.173	357.7	29.46	12.84
111	2007	97	2145	34.7	na	5.435	349.4	32.74	12.82
111	2007	97	2200	34.46	na	4.646	338.8	32.57	12.8
111	2007	97	2215	34.21	na	3.853	329.9	29.91	12.8
111	2007	97	2230	34.08	na	3.949	329.5	22.52	12.8
111	2007	97	2245	34.04	na	3.998	333.8	30.51	12.79
111	2007	97	2300	33.87	na	3.605	326.5	26.58	12.77
111	2007	97	2315	33.69	na	3.549	330.5	26.85	12.78
111	2007	97	2330	33.49	na	3.253	331.7	24.22	12.77
111	2007	97	2345	33.17	na	3.1	329	27.99	12.77
111	2007	97	2400	32.88	na	3.561	320.2	25.24	12.75
111	2007	98	15	32.85	na	4.306	318	21.93	12.76
111	2007	98	30	32.71	na	3.994	317.5	26.9	12.75
111	2007	98	45	32.71	na	5.688	318.2	25.68	12.74
111	2007	98	100	32.66	na	4.795	324.6	32.67	12.72
111	2007	98	115	32.43	na	4.229	326.5	29.49	12.74
111	2007	98	130	32.32	na	4.861	324.4	25.44	12.73
111	2007	98	145	32.01	na	3.479	328	22.8	12.72
111	2007	98	200	31.6	na	3.374	319.4	20.22	12.71
111	2007	98	215	31.21	na	3.593	313.3	22.79	12.72
111	2007	98	230	30.9	na	4.072	310	24.82	12.71
111	2007	98	245	30.65	na	4.32	322.9	29.48	12.7
111	2007	98	300	30.62	na	4.73	328.7	26.42	12.68
111	2007	98	315	30.39	na	3.527	321.7	27.45	12.69
111	2007	98	330	30.13	na	3.515	319.1	29.52	12.68
111	2007	98	345	29.95	na	3.609	303.9	15.56	12.68
111	2007	98	400	29.5	na	2.698	295	17.67	12.66
111	2007	98	415	28.75	na	2.523	284.5	14.45	12.67
111	2007	98	430	29.34	na	4.819	302.2	20.59	12.66
111	2007	98	445	29.7	na	5.163	306	18.48	12.65
111	2007	98	500	29.75	na	4.988	303.1	20.87	12.63
111	2007	98	515	29.73	na	6.099	307.8	20.8	12.64
111	2007	98	530	29.71	na	6.318	312.1	20.41	12.64
111	2007	98	545	29.62	na	5.636	315.7	28.55	12.63
111	2007	98	600	29.47	na	5.579	312.5	24.09	12.62
111	2007	98	615	29.36	na	5.306	311.2	23.99	12.62
111	2007	98	630	29.21	na	5.682	312.2	25.09	12.62

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	98	645	29.21	na	4.994	307.9	22.08	12.61
111	2007	98	700	29.54	na	4.563	317.7	30.92	12.6
111	2007	98	715	30.04	na	4.559	321.1	26.61	12.61
111	2007	98	730	30.53	na	6.244	324.9	31.19	12.69
111	2007	98	745	31.4	na	4.857	324	30.93	12.92
111	2007	98	800	30.86	na	8.81	326.8	29.55	13.02
111	2007	98	815	31.5	na	6.857	330.9	28.83	13.26
111	2007	98	830	31.81	na	9.01	329	29.74	13.94
111	2007	98	845	32.07	na	8.54	334.5	33.03	13.93
111	2007	98	900	32.85	na	7.31	332.9	31.87	13.9
111	2007	98	915	32.93	na	8.03	331.8	27.69	13.9
111	2007	98	930	33.28	na	7.99	325.3	27.31	13.89
111	2007	98	945	33.74	na	9.09	331.7	29.01	13.88
111	2007	98	1000	33.88	na	8.59	339	27.58	13.86
111	2007	98	1015	34.14	na	9.89	340.4	28.87	13.86
111	2007	98	1030	34.51	na	10	336.6	32.39	13.85
111	2007	98	1045	35.25	na	8.74	351.8	36.4	13.85
111	2007	98	1100	35.87	na	8.69	344.6	32.89	13.83
111	2007	98	1115	36.51	na	10.45	323.5	28.98	13.83
111	2007	98	1130	35.99	na	9.04	349.5	35.23	13.83
111	2007	98	1145	36.63	na	8.24	342.2	36.45	13.83
111	2007	98	1200	36.99	na	9.12	341.5	36.5	13.81
111	2007	98	1215	36.64	na	8.99	342	36.81	13.83
111	2007	98	1230	37.23	na	9.31	345.7	33.79	13.81
111	2007	98	1245	38.37	na	9.18	335.4	32.3	13.81
111	2007	98	1300	38.89	na	8.54	321.3	34.14	13.8
111	2007	98	1315	39.07	na	9.58	322.7	28.3	13.79
111	2007	98	1330	39.43	na	8.02	328.1	28.69	13.79
111	2007	98	1345	39.18	na	9.28	319.8	28.21	13.79
111	2007	98	1400	38.79	na	9.08	321.9	26.7	13.78
111	2007	98	1415	38.53	na	9.84	332.1	29.12	13.8
111	2007	98	1430	39.1	na	9.13	326.2	32.66	13.79
111	2007	98	1445	40.17	na	8.67	335.1	36.15	13.79
111	2007	98	1500	39.46	na	6.803	336.1	32.28	13.78
111	2007	98	1515	38.82	na	8.52	339.3	34.71	13.8
111	2007	98	1530	38.49	na	9.46	319.4	30.69	13.81
111	2007	98	1545	39.54	na	10.66	306.2	24.03	13.8
111	2007	98	1600	38.55	na	9.43	311	28.61	13.81
111	2007	98	1615	39.38	na	8.4	324.8	29.62	13.81
111	2007	98	1630	39.7	na	7.83	319.8	30.15	13.81
111	2007	98	1645	39.08	na	9.45	325	27.4	13.81
111	2007	98	1700	39.31	na	9.51	317.3	27.35	13.81
111	2007	98	1715	38.94	na	8.97	318.2	23.94	13.81
111	2007	98	1730	39.15	na	7.4	336	32.23	13.81
111	2007	98	1745	39.2	na	7.93	325.3	30.03	13.82
111	2007	98	1800	39.08	na	7.12	342.3	31.93	13.82
111	2007	98	1815	39.55	na	7.95	331	28.8	13.82
111	2007	98	1830	39.46	na	7.2	315.2	31.63	13.75
111	2007	98	1845	38.98	na	7.37	325.1	26.97	13.14
111	2007	98	1900	38.85	na	6.185	339	32.88	13.05
111	2007	98	1915	38.56	na	6.889	334.9	32.07	13
111	2007	98	1930	38.48	na	6.294	335	29.77	12.96
111	2007	98	1945	38.25	na	5.571	343.9	34.84	12.93
111	2007	98	2000	38.09	na	7.2	334.5	30.69	12.9
111	2007	98	2015	38.12	na	6.69	344	31.6	12.89
111	2007	98	2030	38.06	na	7.09	342.2	29.73	12.87
111	2007	98	2045	38.07	na	6.223	349	31.04	12.87
111	2007	98	2100	38.12	na	6.463	342.7	30.29	12.85
111	2007	98	2115	38.01	na	5.849	336.3	27.26	12.85
111	2007	98	2130	37.95	na	6.557	345.9	32.59	12.84

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	98	2145	37.77	na	9.09	340.9	26.91	12.83
111	2007	98	2200	37.43	na	7.69	348.2	35.99	12.82
111	2007	98	2215	37.19	na	6.735	337.5	31.14	12.82
111	2007	98	2230	36.79	na	6.004	347.6	35.93	12.81
111	2007	98	2245	36.58	na	6.966	356.6	33.86	12.81
111	2007	98	2300	36.31	na	6.111	341.5	29.44	12.79
111	2007	98	2315	36.16	na	6.101	337.2	32.77	12.8
111	2007	98	2330	35.95	na	5.422	342.2	31.86	12.79
111	2007	98	2345	35.81	na	5.227	353.6	27.71	12.78
111	2007	98	2400	35.52	na	3.559	331.7	28.14	12.77
111	2007	99	15	35.39	na	4.837	326.1	23.2	12.77
111	2007	99	30	35.34	na	4.875	342.5	31.99	12.76
111	2007	99	45	35.03	na	4.354	320.7	25.69	12.75
111	2007	99	100	34.91	na	4.493	316.5	25.88	12.74
111	2007	99	115	34.89	na	5.596	314.2	25.64	12.75
111	2007	99	130	34.85	na	4.762	323.4	24.65	12.74
111	2007	99	145	34.63	na	4.529	322.5	26.29	12.74
111	2007	99	200	34.44	na	4.078	328.1	28.24	12.72
111	2007	99	215	34.23	na	4.243	322.7	30.76	12.72
111	2007	99	230	34.19	na	4.859	329.8	24.67	12.72
111	2007	99	245	33.81	na	2.985	333.1	28.47	12.71
111	2007	99	300	33.59	na	3.549	322.5	30.25	12.69
111	2007	99	315	33.39	na	3.44	321.4	26.78	12.7
111	2007	99	330	33.14	na	3.42	324.9	27.89	12.69
111	2007	99	345	32.83	na	3.217	316.1	24.54	12.68
111	2007	99	400	32.49	na	2.774	312.3	16.9	12.66
111	2007	99	415	32.03	na	1.712	330.9	31.16	12.67
111	2007	99	430	31.15	na	1.164	294.1	8.68	12.66
111	2007	99	445	30.28	na	1.441	321.5	14.72	12.65
111	2007	99	500	30.09	na	0.762	318.7	20.05	12.62
111	2007	99	515	29.36	na	1.313	328.3	35.18	12.64
111	2007	99	530	28.95	na	0.536	10.35	30.43	12.61
111	2007	99	545	28.11	na	0.49	280.9	11.26	12.61
111	2007	99	600	27.79	na	1.287	321.7	23.69	12.59
111	2007	99	615	27.44	na	0.663	277.3	31.65	12.59
111	2007	99	630	27.12	na	1.549	298.8	45.97	12.59
111	2007	99	645	28.88	na	2.48	317.7	23.6	12.59
111	2007	99	700	30.03	na	1.016	292.6	22.22	12.57
111	2007	99	715	30.97	na	2.115	308.7	23.45	12.58
111	2007	99	730	32.13	na	3.312	308.6	23.08	12.61
111	2007	99	745	33.16	na	3.79	320.5	21.9	12.66
111	2007	99	800	34.05	na	3.638	336	40.83	12.72
111	2007	99	815	34.57	na	5.964	326.3	28.94	12.94
111	2007	99	830	35.22	na	5.388	343.5	25.27	13.92
111	2007	99	845	35.29	na	6.054	344.3	34.47	13.9
111	2007	99	900	35.78	na	6.227	348.2	36	13.87
111	2007	99	915	36.41	na	5.765	351.8	37.06	13.86
111	2007	99	930	36.87	na	5.744	341.5	39.94	13.84
111	2007	99	945	37.34	na	6.119	341.1	39.49	13.82
111	2007	99	1000	37.91	na	5.883	323.7	31.87	13.81
111	2007	99	1015	38.11	na	5.467	337.2	35.67	13.8
111	2007	99	1030	38.68	na	5.036	334.3	34.48	13.79
111	2007	99	1045	39.55	na	4.19	323.4	45.81	13.77
111	2007	99	1100	39.75	na	6.187	307.5	38.63	13.76
111	2007	99	1115	40.1	na	7.18	329	37.97	13.76
111	2007	99	1130	40.53	na	5.692	330.3	42.89	13.75
111	2007	99	1145	41.03	na	6.618	348.6	36.74	13.74
111	2007	99	1200	41.56	na	5.732	9.55	36.02	13.73
111	2007	99	1215	41.92	na	6.986	316.9	26.16	13.73
111	2007	99	1230	42.39	na	6.411	338.7	44.51	13.73

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	99	1245	42.5	na	7.98	341.3	30.98	13.73
111	2007	99	1300	43.17	na	6.845	336	36.82	13.72
111	2007	99	1315	43.34	na	7.44	349.5	42.61	13.73
111	2007	99	1330	43.26	na	8.15	11.34	35.8	13.73
111	2007	99	1345	44.79	na	6.068	355.5	44.4	13.73
111	2007	99	1400	44.41	na	7.69	346.8	34.58	13.72
111	2007	99	1415	44.92	na	7.28	339.4	37.21	13.72
111	2007	99	1430	45.57	na	7.58	9.13	30.22	13.7
111	2007	99	1445	45.09	na	7.9	359	35.19	13.7
111	2007	99	1500	45.51	na	6.678	333.1	32.4	13.69
111	2007	99	1515	46.4	na	6.678	330.8	30.57	13.68
111	2007	99	1530	45.67	na	7.6	2.282	31.1	13.69
111	2007	99	1545	46.04	na	6.32	339.1	45.97	13.69
111	2007	99	1600	46.2	na	6.302	4.316	35.46	13.68
111	2007	99	1615	46.14	na	6.922	359.4	31.29	13.68
111	2007	99	1630	46.55	na	6.799	344.7	36.8	13.68
111	2007	99	1645	46.37	na	7.5	349	34.42	13.68
111	2007	99	1700	46.44	na	7.59	339.8	34.79	13.68
111	2007	99	1715	45.92	na	6.881	358.5	36.52	13.69
111	2007	99	1730	46.22	na	7.95	347.2	37.73	13.69
111	2007	99	1745	46.04	na	7.44	10.1	32.64	13.7
111	2007	99	1800	45.29	na	7.4	11.65	31.75	13.7
111	2007	99	1815	44.52	na	8.74	12.29	31.9	13.72
111	2007	99	1830	44.03	na	7.53	17.71	25.89	13.73
111	2007	99	1845	43.52	na	7.47	16.44	30.72	13.74
111	2007	99	1900	42.82	na	8.03	23.58	23.6	13.19
111	2007	99	1915	42.09	na	6.479	14.58	31.68	13.09
111	2007	99	1930	41.42	na	7.13	6.137	29.67	13.02
111	2007	99	1945	40.85	na	6.167	5.742	30.34	12.97
111	2007	99	2000	40.36	na	5.549	2.3	26.42	12.93
111	2007	99	2015	39.91	na	7.07	352.7	31.99	12.91
111	2007	99	2030	39.48	na	6.849	354.5	30.06	12.89
111	2007	99	2045	39.17	na	6.439	348.9	34.63	12.88
111	2007	99	2100	38.79	na	4.609	2.2	26.05	12.85
111	2007	99	2115	38.46	na	4.487	356.2	27.57	12.85
111	2007	99	2130	38.23	na	5.702	4.818	28.48	12.84
111	2007	99	2145	38.02	na	5.098	11.98	26.28	12.82
111	2007	99	2200	37.69	na	4.831	15.34	27.71	12.81
111	2007	99	2215	37.45	na	4.674	13.88	26.81	12.81
111	2007	99	2230	37.15	na	3.817	11.86	28.43	12.81
111	2007	99	2245	36.85	na	3.65	11.17	30.25	12.8
111	2007	99	2300	36.53	na	3.595	9.05	25.28	12.78
111	2007	99	2315	36.39	na	3.875	0.532	26.25	12.78
111	2007	99	2330	36.26	na	3.903	348.6	32.57	12.78
111	2007	99	2345	36.08	na	4.213	350.7	26.4	12.78
111	2007	99	2400	35.92	na	3.927	352.3	30.75	12.76
111	2007	100	15	35.81	na	3.941	346.8	25.84	12.76
111	2007	100	30	35.48	na	3.237	335.4	22.64	12.76
111	2007	100	45	35.14	na	3.06	331.2	19.51	12.75
111	2007	100	100	34.84	na	2.694	331.5	28.18	12.74
111	2007	100	115	34.53	na	2.756	326.8	21.89	12.74
111	2007	100	130	34.16	na	2.277	328.9	26.53	12.74
111	2007	100	145	33.74	na	1.888	335.8	24.06	12.73
111	2007	100	200	33.56	na	1.936	357.3	24.74	12.71
111	2007	100	215	33.31	na	1.583	337.7	23.27	12.72
111	2007	100	230	32.45	na	1.659	297.7	9.7	12.71
111	2007	100	245	31.7	na	1.585	322.8	14.86	12.7
111	2007	100	300	31.47	na	1.514	323	22.21	12.68
111	2007	100	315	31.53	na	1.583	325.3	22.66	12.69
111	2007	100	330	31.99	na	2.291	337.2	28.04	12.68

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	100	345	31.98	na	1.7	357	28.28	12.68
111	2007	100	400	31.79	na	1.785	355.9	26.42	12.66
111	2007	100	415	31.59	na	1.838	325.7	18.02	12.66
111	2007	100	430	31.44	na	1.8	330.9	17.89	12.66
111	2007	100	445	31.14	na	1.579	331.3	17.58	12.64
111	2007	100	500	30.84	na	1.204	352.4	23.95	12.63
111	2007	100	515	30.94	na	1.934	357.1	24.62	12.63
111	2007	100	530	31.06	na	2.034	342.8	27.02	12.62
111	2007	100	545	30.91	na	1.982	334.4	21.21	12.62
111	2007	100	600	30.6	na	1.841	314.4	20.71	12.6
111	2007	100	615	30.5	na	1.641	325.9	18.84	12.61
111	2007	100	630	30.13	na	1.867	311.1	13.29	12.6
111	2007	100	645	30.14	na	2.07	319.6	20.4	12.6
111	2007	100	700	31.21	na	2.458	318.1	19	12.58
111	2007	100	715	32.33	na	2.829	323.6	25.05	12.6
111	2007	100	730	33.29	na	3.301	334.3	28.15	12.64
111	2007	100	745	34.15	na	3.595	333.7	35.99	12.7
111	2007	100	800	34.81	na	5.046	334.9	30.42	12.77
111	2007	100	815	35.49	na	4.781	344.8	34.58	13.02
111	2007	100	830	36.06	na	6.149	348.3	29.26	13.9
111	2007	100	845	36.81	na	5.167	349.9	32.7	13.88
111	2007	100	900	37.63	na	5.773	347.7	38.02	13.85
111	2007	100	915	37.77	na	6.026	354.9	35.78	13.83
111	2007	100	930	38.58	na	5.177	353.5	36.66	13.82
111	2007	100	945	38.61	na	6.594	357.8	30.26	13.81
111	2007	100	1000	39.23	na	5.499	359.8	32.24	13.79
111	2007	100	1015	39.88	na	5.575	338.4	41.36	13.79
111	2007	100	1030	39.09	na	5.227	344.9	42.3	13.8
111	2007	100	1045	40.12	na	5.855	351.1	37.3	13.77
111	2007	100	1100	40.54	na	5.92	353.6	40.69	13.77
111	2007	100	1115	40.69	na	4.779	347.5	46.99	13.77
111	2007	100	1130	40.45	na	5.435	358	30.27	13.77
111	2007	100	1145	41.09	na	5.517	331.5	38.86	13.76
111	2007	100	1200	41.85	na	5.308	332.7	51.23	13.75
111	2007	100	1215	42.77	na	6.998	333.5	38.03	13.74
111	2007	100	1230	42.93	na	7.72	323.3	30.31	13.74
111	2007	100	1245	43.31	na	7	353.7	45.9	13.72
111	2007	100	1300	43.45	na	7.02	358	36.43	13.71
111	2007	100	1315	43.69	na	7.21	0.108	32.36	13.72
111	2007	100	1330	44.62	na	5.531	350.1	49.51	13.72
111	2007	100	1345	44.66	na	7.27	345.1	36.58	13.72
111	2007	100	1400	45.03	na	7.14	359.6	37.22	13.7
111	2007	100	1415	45.41	na	8.46	342.7	38.85	13.7
111	2007	100	1430	44.97	na	8.22	25.28	26.8	13.7
111	2007	100	1445	45.49	na	7.9	8.16	39.64	13.69
111	2007	100	1500	45.72	na	7.91	350.8	34.52	13.68
111	2007	100	1515	46.47	na	6.829	340.1	34.8	13.68
111	2007	100	1530	46.56	na	7.87	358.1	46.45	13.68
111	2007	100	1545	46.76	na	7.26	8.8	37.8	13.67
111	2007	100	1600	46.87	na	6.998	13.26	35.96	13.66
111	2007	100	1615	46.83	na	8.44	29.68	21.8	13.67
111	2007	100	1630	46.82	na	7.61	19.7	30.99	13.67
111	2007	100	1645	46.93	na	8.51	29.19	20.01	13.66
111	2007	100	1700	47.18	na	7.49	18.34	37.02	13.66
111	2007	100	1715	47.36	na	7.7	3.022	34.8	13.67
111	2007	100	1730	46.83	na	8.38	17.92	29.73	13.68
111	2007	100	1745	46.7	na	8.84	12.97	28.79	13.68
111	2007	100	1800	46.64	na	7.86	358.2	30.38	13.68
111	2007	100	1815	46.75	na	7.28	3.983	31.74	13.7
111	2007	100	1830	46.58	na	6.545	357.5	36.66	13.71

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	100	1845	46.32	na	5.752	8.94	27.33	13.72
111	2007	100	1900	45.95	na	6.509	8.79	34.22	13.14
111	2007	100	1915	45.72	na	3.74	0.163	34.74	13.07
111	2007	100	1930	45.12	na	3.629	10.97	24.57	13
111	2007	100	1945	44.73	na	4.33	8.58	27.65	12.97
111	2007	100	2000	44.43	na	4.068	8.55	27.64	12.93
111	2007	100	2015	44.09	na	3.41	14.1	22.8	12.92
111	2007	100	2030	43.51	na	2.619	9.91	30.42	12.9
111	2007	100	2045	43.08	na	3.058	6.095	23.29	12.89
111	2007	100	2100	42.63	na	2.764	40.05	28.81	12.86
111	2007	100	2115	41.95	na	2.116	47.5	17.21	12.86
111	2007	100	2130	41.59	na	2.352	65.97	14.89	12.85
111	2007	100	2145	41.12	na	2.583	61.57	15.72	12.83
111	2007	100	2200	40.64	na	3.654	71.6	14.69	12.82
111	2007	100	2215	39.95	na	2.981	69.06	17.98	12.81
111	2007	100	2230	39.34	na	2.406	79.5	13.09	12.81
111	2007	100	2245	38.91	na	2.428	71.7	16.86	12.8
111	2007	100	2300	38.3	na	2.118	84.2	17.54	12.78
111	2007	100	2315	38	na	1.76	80.3	13.22	12.79
111	2007	100	2330	37.5	na	1.734	63.04	10.46	12.79
111	2007	100	2345	36.55	na	0.482	44.98	17.16	12.78
111	2007	100	2400	35.86	na	1.139	21.82	13.42	12.76
111	2007	101	15	35.34	na	1.162	27.72	8.34	12.76
111	2007	101	30	34.86	na	0.898	6.634	18.38	12.76
111	2007	101	45	34.23	na	1.206	25.42	10.89	12.74
111	2007	101	100	33.72	na	0.405	55.38	38.58	12.72
111	2007	101	115	33.38	na	na	na	na	12.72
111	2007	101	130	33.15	na	1.215	42.12	17.42	12.72
111	2007	101	145	32.66	na	0.739	15.81	6.308	12.71
111	2007	101	200	32.24	na	0.957	40.24	10.1	12.69
111	2007	101	215	31.86	na	1.279	23.74	5.369	12.7
111	2007	101	230	31.49	na	1.255	17.21	4.38	12.69
111	2007	101	245	30.68	na	0.255	13.82	1.672	12.68
111	2007	101	300	29.96	na	0.396	335.9	5.087	12.66
111	2007	101	315	30.06	na	1.43	33.13	10.63	12.66
111	2007	101	330	30.24	na	1.897	30.97	19.31	12.66
111	2007	101	345	30.27	na	0.678	32.01	19.65	12.65
111	2007	101	400	29.81	na	0.534	12.42	10.59	12.63
111	2007	101	415	29.63	na	1.27	18.13	13.57	12.64
111	2007	101	430	29.33	na	0.437	68.23	4.97	12.63
111	2007	101	445	28.78	na	0.544	10.83	26.34	12.62
111	2007	101	500	29.09	na	1.271	50.7	14.66	12.6
111	2007	101	515	28.96	na	0.701	346.1	73.1	12.6
111	2007	101	530	28.46	na	0.943	291.6	8.51	12.6
111	2007	101	545	28.13	na	1.21	314.8	28.61	12.6
111	2007	101	600	28.22	na	1.171	316.4	17.66	12.58
111	2007	101	615	28.24	na	1.001	343.4	18.61	12.58
111	2007	101	630	28.12	na	0.307	5.466	11.95	12.58
111	2007	101	645	28.17	na	0.5	327.9	5.356	12.57
111	2007	101	700	29.19	na	0.61	356.3	30.47	12.56
111	2007	101	715	31.04	na	0.668	347.5	15.45	12.6
111	2007	101	730	33.03	na	0.948	4.357	21.49	12.66
111	2007	101	745	35.25	na	1.216	37.02	39.84	12.74
111	2007	101	800	36.27	na	3.423	67.92	18.83	12.84
111	2007	101	815	36.83	na	3.444	71.9	24.41	13.13
111	2007	101	830	37.89	na	4.438	82.1	23.54	13.9
111	2007	101	845	38.28	na	5.895	78.1	19.31	13.88
111	2007	101	900	38.69	na	6.125	87.5	18.32	13.85
111	2007	101	915	39.39	na	6.087	58.33	21.7	13.83
111	2007	101	930	40.03	na	5.781	79.4	23.19	13.81

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	101	945	41.1	na	4.962	57.55	39	13.79
111	2007	101	1000	42.37	na	4.64	43.99	29.67	13.77
111	2007	101	1015	42.31	na	4.849	31.52	30.18	13.75
111	2007	101	1030	42.45	na	4.505	47.34	38.76	13.74
111	2007	101	1045	43.46	na	3.324	44.7	61.99	13.72
111	2007	101	1100	43.83	na	4.098	34.96	65.04	13.7
111	2007	101	1115	44.37	na	4.191	29.52	57.71	13.7
111	2007	101	1130	44.64	na	3.801	129.7	61.92	13.69
111	2007	101	1145	44.37	na	7.73	230.4	26.25	13.68
111	2007	101	1200	43.61	na	8.37	235.8	20.25	13.68
111	2007	101	1215	43.28	na	9.67	234.7	21.87	13.7
111	2007	101	1230	44.06	na	8.71	246.8	27.81	13.7
111	2007	101	1245	44.03	na	7.76	231.9	22.93	13.7
111	2007	101	1300	43.5	na	9.31	237.4	22.9	13.7
111	2007	101	1315	43.81	na	8.34	254.5	20.71	13.71
111	2007	101	1330	44.07	na	8.77	249.6	23.47	13.72
111	2007	101	1345	44.5	na	7.69	238.5	26.58	13.7
111	2007	101	1400	44.46	na	7.17	232.9	25.46	13.68
111	2007	101	1415	44.04	na	7.22	222.1	21.72	13.69
111	2007	101	1430	44.12	na	7.25	221.5	22.66	13.7
111	2007	101	1445	45.09	na	7.63	231.7	20.94	13.68
111	2007	101	1500	45.64	na	7.47	251.5	26.73	13.67
111	2007	101	1515	45.63	na	6.529	233	24.39	13.68
111	2007	101	1530	45.7	na	5.934	242.9	33.27	13.68
111	2007	101	1545	45.75	na	5.92	236.4	28.95	13.67
111	2007	101	1600	46.06	na	5.7	244.6	25.29	13.66
111	2007	101	1615	45.79	na	5.938	250.6	24.31	13.66
111	2007	101	1630	45.71	na	5.29	253.1	29.98	13.67
111	2007	101	1645	44.06	na	5.674	229.9	22.04	13.69
111	2007	101	1700	43.4	na	5.127	238.9	20.54	13.7
111	2007	101	1715	42.77	na	5.537	234.2	25.77	13.72
111	2007	101	1730	42.77	na	5.75	247.3	18.5	13.73
111	2007	101	1745	42.44	na	5.505	226	18.13	13.74
111	2007	101	1800	42.24	na	5.817	226.1	21.57	13.59
111	2007	101	1815	41.89	na	5.406	230.3	23.87	13.62
111	2007	101	1830	42.02	na	4.978	236.4	22.48	13.28
111	2007	101	1845	41.86	na	5.656	251.5	20.29	13.09
111	2007	101	1900	41.93	na	5.66	245.9	22.79	13.01
111	2007	101	1915	41.76	na	5.394	246.8	18.93	12.97
111	2007	101	1930	41.64	na	5.062	249.3	21.13	12.94
111	2007	101	1945	41.65	na	4.308	239.6	21.53	12.92
111	2007	101	2000	41.76	na	4.513	232.7	21.89	12.89
111	2007	101	2015	41.7	na	4.801	238.3	19.38	12.89
111	2007	101	2030	41.72	na	4.545	235.2	19.96	12.87
111	2007	101	2045	41.66	na	3.601	236.8	22.76	12.87
111	2007	101	2100	41.69	na	4.181	246.8	26.93	12.84
111	2007	101	2115	41.74	na	4.95	252.5	24.01	12.85
111	2007	101	2130	41.85	na	4.519	248.3	17.05	12.85
111	2007	101	2145	41.89	na	4.891	233.5	21.36	12.84
111	2007	101	2200	41.89	na	3.764	230.7	17.31	12.83
111	2007	101	2215	41.88	na	3.324	231.6	21.15	12.83
111	2007	101	2230	41.79	na	4.261	234.3	22.97	12.83
111	2007	101	2245	41.79	na	4.557	233.2	20.09	12.82
111	2007	101	2300	41.82	na	4.35	239.9	19.54	12.81
111	2007	101	2315	41.72	na	4.634	237.4	18.97	12.81
111	2007	101	2330	41.57	na	4.811	230.3	18.27	12.81
111	2007	101	2345	40.9	na	4.022	213.9	17.16	12.81
111	2007	101	2400	40.28	na	2.827	184.8	20.43	12.79
111	2007	102	15	40.78	na	3.974	180.1	17.64	12.79
111	2007	102	30	41.22	na	4.384	179.7	19.21	12.79

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	102	45	41.45	na	4.688	176.7	15.81	12.78
111	2007	102	100	41.65	na	6.344	180.8	17.8	12.76
111	2007	102	115	41.77	na	5.573	181.3	17.04	12.77
111	2007	102	130	41.81	na	5.559	183.8	17.92	12.77
111	2007	102	145	41.77	na	5.372	166.4	16.9	12.77
111	2007	102	200	41.75	na	5.491	157.4	18.01	12.75
111	2007	102	215	41.75	na	6.189	146.1	17.97	12.76
111	2007	102	230	41.48	na	5.41	143.5	16.75	12.75
111	2007	102	245	41.41	na	5.769	143.2	18.51	12.75
111	2007	102	300	41.35	na	6.525	135.4	15.22	12.73
111	2007	102	315	41.32	na	6.996	136.9	14.29	12.74
111	2007	102	330	41.23	na	8.65	136.7	15.09	12.73
111	2007	102	345	41.17	na	7.74	138	14.78	12.73
111	2007	102	400	41.07	na	8.6	132.4	15.73	12.71
111	2007	102	415	41.07	na	6.505	132.6	18.9	12.71
111	2007	102	430	41.04	na	8.73	138.4	16.53	12.71
111	2007	102	445	40.9	na	8.86	133.3	17.08	12.71
111	2007	102	500	40.7	na	9.79	135.2	16.14	12.69
111	2007	102	515	40.46	na	9.34	136.3	15.88	12.69
111	2007	102	530	40.38	na	9.31	135.9	14.93	12.68
111	2007	102	545	40.36	na	8.91	133.5	14.09	12.69
111	2007	102	600	40.28	na	9.37	132.9	16.39	12.67
111	2007	102	615	40.24	na	11.33	129.4	15.62	12.67
111	2007	102	630	40.24	na	11.34	131.4	17.15	12.67
111	2007	102	645	40.33	na	11.6	127	15.71	12.67
111	2007	102	700	40.52	na	12.05	136.6	14.88	12.65
111	2007	102	715	40.71	na	13.75	131.1	15.24	12.66
111	2007	102	730	40.99	na	11.86	133.7	17.71	12.66
111	2007	102	745	41.05	na	12.78	132.5	16.47	12.66
111	2007	102	800	40.66	na	13.78	138	13.9	12.65
111	2007	102	815	40.31	na	14.66	140.6	15.66	12.65
111	2007	102	830	39.72	na	13.48	137.1	18.02	12.65
111	2007	102	845	39.21	na	17.06	135.5	14.18	12.65
111	2007	102	900	38.87	na	14.87	136.9	15.24	12.63
111	2007	102	915	38.41	na	15.41	134.5	15.37	12.65
111	2007	102	930	38.17	na	12.74	130	15.69	12.65
111	2007	102	945	38.14	na	13.56	129.9	13.83	12.64
111	2007	102	1000	38.19	na	12.99	129.1	17.78	12.64
111	2007	102	1015	38.27	na	13.7	125.1	18.22	12.64
111	2007	102	1030	38.53	na	13.72	125.7	17.65	12.64
111	2007	102	1045	38.72	na	13.29	126	18.2	12.63
111	2007	102	1100	39.07	na	13.36	127.5	17.76	12.63
111	2007	102	1115	39.26	na	12.51	120.1	19.1	12.63
111	2007	102	1130	39.56	na	9.78	116.6	27.23	12.63
111	2007	102	1145	39.72	na	9.63	92.6	24.29	12.63
111	2007	102	1200	39.9	na	8.64	104.3	23.28	12.63
111	2007	102	1215	40.09	na	8.94	108.5	22.91	12.63
111	2007	102	1230	40.03	na	2.926	91.4	57.8	12.63
111	2007	102	1245	40.25	na	0.413	114.5	16.42	13.06
111	2007	102	1300	41	na	0.413	128.2	12.67	13.81
111	2007	102	1315	41.79	na	0.395	127.9	10.26	13.59
111	2007	102	1330	42.66	na	0.467	125.4	13.41	13.79
111	2007	102	1345	43.19	na	0.44	128.9	12.27	13.59
111	2007	102	1400	42.92	na	0.476	120.8	10.98	13.77
111	2007	102	1415	42.98	na	0.476	118.3	14.24	13.63
111	2007	102	1430	42.93	na	0.458	107.7	12.77	13.41
111	2007	102	1445	43.1	na	0.377	94.5	16.99	13.38
111	2007	102	1500	43.25	na	0.413	81.9	15.07	13.29
111	2007	102	1515	43.31	na	0.494	80.6	16.39	13.27
111	2007	102	1530	43.33	na	0.413	68.84	11.87	13.25

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	102	1545	43.24	na	0.359	49.49	11.31	13.15
111	2007	102	1600	42.94	na	0.404	54	15.33	13.13
111	2007	102	1615	42.24	na	0.359	39.72	11.71	13.15
111	2007	102	1630	41.11	na	0.431	40.93	14.04	13.32
111	2007	102	1645	40.95	na	0.449	48.1	11.46	13.36
111	2007	102	1700	40.73	na	0.395	55.93	15.48	13.24
111	2007	102	1715	40.33	na	0.431	58.02	11.43	13.15
111	2007	102	1730	40.06	na	0.44	55.4	19.02	13.17
111	2007	102	1745	40.15	na	0.485	49.01	16.22	13.16
111	2007	102	1800	40.29	na	0.494	43.59	14.76	13.14
111	2007	102	1815	40.19	na	0.395	40.9	11.02	13.1
111	2007	102	1830	40.12	na	0.512	45.37	14.49	13.01
111	2007	102	1845	39.97	na	0.485	42.47	15.06	12.96
111	2007	102	1900	39.89	na	0.485	30.32	12.36	12.91
111	2007	102	1915	39.89	na	0.485	40.56	18.2	12.89
111	2007	102	1930	39.7	na	0.467	29.02	10.63	12.87
111	2007	102	1945	39.4	na	0.458	38.65	17.41	12.85
111	2007	102	2000	39.17	na	0.476	9.63	23.14	12.83
111	2007	102	2015	39.31	na	0.53	20.09	25.33	12.82
111	2007	102	2030	39.26	na	0.404	344.7	25.27	12.81
111	2007	102	2045	39.1	na	0.449	14.32	19.82	12.79
111	2007	102	2100	39.11	na	0.557	340.7	31.61	12.77
111	2007	102	2115	39.29	na	0.548	340.3	25.42	12.76
111	2007	102	2130	39.23	na	0.44	8.57	20.69	12.74
111	2007	102	2145	38.99	na	0.422	4.356	24.44	12.73
111	2007	102	2200	38.82	na	0.449	316.7	23.63	12.71
111	2007	102	2215	38.86	na	0.503	333	24.84	12.69
111	2007	102	2230	38.85	na	0.521	13.1	21.18	12.69
111	2007	102	2245	38.82	na	0.417	17.55	18.21	12.67
111	2007	102	2300	38.77	na	0.478	338	20.28	12.65
111	2007	102	2315	38.79	na	0.484	5.656	23.56	12.65
111	2007	102	2330	38.69	na	0.877	327.4	22.69	12.65
111	2007	102	2345	38.51	na	1.963	315.7	25.92	12.64
111	2007	102	2400	38.49	na	2.454	330.3	28.51	12.62
111	2007	103	15	38.54	na	3.018	335.6	29.25	12.63
111	2007	103	30	38.49	na	2.672	333.1	28.56	12.63
111	2007	103	45	38.37	na	2.507	336.5	25.81	12.62
111	2007	103	100	38.09	na	2.205	318.3	26.46	12.61
111	2007	103	115	38.04	na	2.362	319.5	25.02	12.61
111	2007	103	130	38.03	na	2.362	312.7	21.78	12.61
111	2007	103	145	37.76	na	2.209	317.2	25.82	12.61
111	2007	103	200	37.41	na	2.237	309.3	21.04	12.6
111	2007	103	215	37.17	na	2.607	311.1	21.05	12.61
111	2007	103	230	36.99	na	2.285	317.3	19.48	12.61
111	2007	103	245	36.88	na	1.981	322.1	27.26	12.6
111	2007	103	300	36.77	na	2.21	311.9	23.46	12.59
111	2007	103	315	36.55	na	2.573	317.1	21.96	12.6
111	2007	103	330	37.51	na	3.805	322.9	27.67	12.6
111	2007	103	345	38.29	na	3.895	315.9	33.75	12.6
111	2007	103	400	39.17	na	3.635	314.3	27.15	12.58
111	2007	103	415	40.35	na	4.984	310.6	22.53	12.59
111	2007	103	430	40.72	na	4.835	311.4	22.11	12.59
111	2007	103	445	40.73	na	3.535	310.1	25.98	12.6
111	2007	103	500	40.48	na	2.99	303.8	19.44	12.59
111	2007	103	515	40.38	na	3.398	305.4	21.03	12.6
111	2007	103	530	40.49	na	3.297	294	21.22	12.6
111	2007	103	545	40.64	na	3.855	304.1	22.59	12.6
111	2007	103	600	40.7	na	3.746	320.5	31.13	12.59
111	2007	103	615	40.92	na	4.833	311.7	22.82	12.6
111	2007	103	630	41.13	na	4.714	315.6	25.01	12.6

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	103	645	41.47	na	5.103	311.6	22.86	12.6
111	2007	103	700	42.06	na	5.453	313.7	29.23	12.59
111	2007	103	715	42.91	na	6.109	316.5	26.41	12.66
111	2007	103	730	43.68	na	5.809	324.2	36.56	12.75
111	2007	103	745	44.42	na	5.847	333.8	33.09	13.06
111	2007	103	800	44.77	na	8.88	332.2	30.81	13.05
111	2007	103	815	44.53	na	8.81	325.7	23.81	13.11
111	2007	103	830	44.48	na	7.15	329.1	30.11	13.24
111	2007	103	845	44.67	na	8.35	331.2	27.8	13.77
111	2007	103	900	44.98	na	8.41	337.5	30.71	13.75
111	2007	103	915	45.55	na	7.4	333	32.28	13.74
111	2007	103	930	45.65	na	10.08	346.9	32.27	13.72
111	2007	103	945	46.22	na	10.14	341.2	28.64	13.71
111	2007	103	1000	46.28	na	9.62	339.6	32.81	13.7
111	2007	103	1015	46.23	na	8.35	333.9	35.84	13.71
111	2007	103	1030	45.87	na	9.82	331.6	33.28	13.71
111	2007	103	1045	45.93	na	10.2	348.9	27.07	13.7
111	2007	103	1100	46	na	8.9	349.3	32.31	13.7
111	2007	103	1115	46.43	na	7.27	331.5	33.27	13.7
111	2007	103	1130	46.55	na	9.67	332.8	31.21	13.7
111	2007	103	1145	46.45	na	8.97	340	35.89	13.68
111	2007	103	1200	45.96	na	9.66	334.1	30.25	13.7
111	2007	103	1215	45.92	na	8.12	347.9	27.77	13.67
111	2007	103	1230	45.69	na	9	353.3	29.16	13.3
111	2007	103	1245	45.64	na	7.58	341.6	33.52	13.72
111	2007	103	1300	45.72	na	9.56	335	30.03	13.7
111	2007	103	1315	45.86	na	10.9	343	31.85	13.71
111	2007	103	1330	46.45	na	9.77	347.8	30.44	13.7
111	2007	103	1345	46.76	na	7.98	354.5	33.24	13.7
111	2007	103	1400	46.19	na	8.78	352.3	32.46	13.7
111	2007	103	1415	46.33	na	9.04	349.3	30.73	13.71
111	2007	103	1430	46.89	na	10.84	346.5	27.6	13.7
111	2007	103	1445	47.24	na	10.4	359	33.06	13.69
111	2007	103	1500	47.97	na	11.19	351.9	37.74	13.68
111	2007	103	1515	47.7	na	9.29	343.8	35.68	13.68
111	2007	103	1530	48.15	na	10.15	355.3	29.67	13.68
111	2007	103	1545	48.31	na	9.9	354	33.18	13.67
111	2007	103	1600	48.12	na	10.97	356.2	28.67	13.66
111	2007	103	1615	48.91	na	9.41	359.9	34.13	13.66
111	2007	103	1630	49.01	na	9.67	5.687	29.47	13.66
111	2007	103	1645	48.55	na	10.32	359.6	27.39	13.66
111	2007	103	1700	48.82	na	9.86	10.52	34.89	13.64
111	2007	103	1715	48.49	na	9.1	351.5	30.74	13.66
111	2007	103	1730	47.66	na	10.83	3.99	31.68	13.68
111	2007	103	1745	46.94	na	9.46	6.872	26.49	13.64
111	2007	103	1800	46.55	na	10.6	358.7	32.8	13.38
111	2007	103	1815	46.09	na	11.68	8.49	27.85	13.7
111	2007	103	1830	45.66	na	8.88	4.917	26.26	13.16
111	2007	103	1845	44.88	na	8.91	359.8	31.53	13.07
111	2007	103	1900	44.63	na	8.97	357.8	26.6	13.01
111	2007	103	1915	44.26	na	9.85	2.452	31.51	12.98
111	2007	103	1930	44.02	na	10.52	3.149	28.07	12.95
111	2007	103	1945	43.83	na	9.15	3.972	29.68	12.93
111	2007	103	2000	43.75	na	8.97	0.633	29.25	12.91
111	2007	103	2015	43.6	na	10.51	358.8	30.5	12.91
111	2007	103	2030	43.45	na	9.01	1.099	27.8	12.89
111	2007	103	2045	43.35	na	7.45	2.47	31.89	12.89
111	2007	103	2100	43.33	na	7.64	356.2	37.2	12.87
111	2007	103	2115	43.32	na	8.94	359.6	29.58	12.87
111	2007	103	2130	43.23	na	5.869	2.505	32.4	12.87

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	103	2145	43.06	na	6.952	0.472	26.35	12.86
111	2007	103	2200	42.9	na	7.74	352.9	30.4	12.85
111	2007	103	2215	42.68	na	9.48	350.6	29.05	12.85
111	2007	103	2230	42.51	na	9.58	345.3	30.31	12.84
111	2007	103	2245	42.4	na	8.58	345.6	32.77	12.84
111	2007	103	2300	42.25	na	8.35	345.6	29	12.82
111	2007	103	2315	42.18	na	7.9	356.9	29.21	12.83
111	2007	103	2330	42.29	na	6.445	350.6	27.47	12.82
111	2007	103	2345	42.31	na	6.354	2.135	33.41	12.82
111	2007	103	2400	42.32	na	7.3	3.823	24.82	12.8
111	2007	104	15	42.31	na	6.851	0.709	29.85	12.81
111	2007	104	30	42.19	na	6.187	2.317	32.69	12.81
111	2007	104	45	42.16	na	6.636	3.402	31.41	12.81
111	2007	104	100	42.14	na	7.98	356.6	28.35	12.79
111	2007	104	115	42.05	na	5.839	1.508	27.79	12.8
111	2007	104	130	41.95	na	5.441	347.1	32.11	12.8
111	2007	104	145	41.92	na	7.61	8.83	28.2	12.8
111	2007	104	200	41.71	na	5.974	355.6	34.46	12.79
111	2007	104	215	41.52	na	7.01	349.3	35.14	12.79
111	2007	104	230	41.32	na	5.092	354.1	35.71	12.78
111	2007	104	245	41.3	na	6.282	357.2	31	12.79
111	2007	104	300	41.33	na	6.889	354.8	29.5	12.77
111	2007	104	315	41.25	na	5.302	2.748	30.36	12.78
111	2007	104	330	41.15	na	5.873	7.57	24.07	12.77
111	2007	104	345	41	na	4.845	3.894	32.66	12.77
111	2007	104	400	40.55	na	5.263	359.5	29.83	12.75
111	2007	104	415	40.14	na	4.624	359.3	30.77	12.76
111	2007	104	430	39.98	na	5.587	1.775	36.15	12.75
111	2007	104	445	39.81	na	4.752	3.851	29.72	12.75
111	2007	104	500	39.38	na	3.283	3.317	30.33	12.73
111	2007	104	515	39.26	na	4.187	357.1	30.86	12.73
111	2007	104	530	39.07	na	3.509	346	31.97	12.73
111	2007	104	545	38.74	na	2.865	347.9	38	12.72
111	2007	104	600	38.61	na	3.642	346.3	31.02	12.7
111	2007	104	615	38.3	na	2.577	340.5	31.72	12.7
111	2007	104	630	37.89	na	2.12	323.9	25.92	12.69
111	2007	104	645	37.78	na	1.56	316.2	22.35	12.68
111	2007	104	700	38.42	na	2.022	311	22.05	12.68
111	2007	104	715	39.17	na	2.287	345.2	31.19	12.7
111	2007	104	730	39.77	na	3.253	342.8	29.98	12.73
111	2007	104	745	40.32	na	4.124	352.5	28.74	12.79
111	2007	104	800	41.19	na	4.533	355.8	34.47	12.84
111	2007	104	815	41.46	na	6.634	348.2	27.64	13.08
111	2007	104	830	41.85	na	7.18	356.4	30.77	13.79
111	2007	104	845	42.63	na	6.358	11.36	28.89	13.77
111	2007	104	900	42.58	na	8.47	18.93	22.48	13.75
111	2007	104	915	43.16	na	7.01	18.46	27.82	13.74
111	2007	104	930	43.61	na	6.908	356	29.38	13.73
111	2007	104	945	44.01	na	7.14	17.8	33.65	13.72
111	2007	104	1000	44.84	na	6.4	13.56	29.61	13.7
111	2007	104	1015	45.14	na	6.326	21.35	41.22	13.7
111	2007	104	1030	45.62	na	7.47	15.92	36.44	13.68
111	2007	104	1045	46.01	na	6.863	357.5	33.07	13.68
111	2007	104	1100	46.14	na	7.09	6.769	41.53	13.66
111	2007	104	1115	46.51	na	7.48	344.6	37.66	13.66
111	2007	104	1130	46.91	na	6.419	359.3	36.7	13.65
111	2007	104	1145	47.73	na	7.26	334	36.99	13.65
111	2007	104	1200	47.99	na	7.15	346.1	34.95	13.64
111	2007	104	1215	48.73	na	6.797	358.4	34.48	13.64
111	2007	104	1230	49.01	na	6.346	8.34	31.16	13.64

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	104	1245	49.81	na	6.264	352.9	37.87	13.63
111	2007	104	1300	50.27	na	6.716	16.7	33.93	13.62
111	2007	104	1315	49.99	na	5.825	3.094	42.05	13.62
111	2007	104	1330	50.82	na	7.55	17.54	31.6	13.62
111	2007	104	1345	51.7	na	7.04	352.4	45.79	13.62
111	2007	104	1400	51	na	7.23	355.7	30.74	13.6
111	2007	104	1415	51.78	na	6.471	352.8	42.66	13.61
111	2007	104	1430	52.18	na	7.64	20.54	37.57	13.6
111	2007	104	1445	51.95	na	7.46	14.74	35.87	13.6
111	2007	104	1500	52.32	na	7.32	14.29	32.81	13.58
111	2007	104	1515	52.24	na	7.81	28.1	25.68	13.58
111	2007	104	1530	52.73	na	5.738	20.62	30.08	13.58
111	2007	104	1545	52.55	na	7.04	12.75	29.79	13.58
111	2007	104	1600	52.38	na	6.612	18.65	37.37	13.58
111	2007	104	1615	52.44	na	5.911	18.7	34.96	13.59
111	2007	104	1630	52.37	na	5.398	26.14	26.85	13.6
111	2007	104	1645	51.97	na	5.962	23.35	28.25	13.6
111	2007	104	1700	51.86	na	5.4	23.07	36.32	13.6
111	2007	104	1715	51.98	na	5.563	35.81	22.95	13.61
111	2007	104	1730	52.22	na	5.143	31.5	31.27	13.61
111	2007	104	1745	52.14	na	4.614	17.55	29.04	13.62
111	2007	104	1800	52.2	na	4.219	11.21	26.78	13.61
111	2007	104	1815	52.16	na	3.857	318	60.67	13.62
111	2007	104	1830	48.76	na	5.952	262.3	19.08	13.23
111	2007	104	1845	47.56	na	4.978	255.4	21.08	13.16
111	2007	104	1900	47	na	4.012	250.1	22.62	13.04
111	2007	104	1915	46.17	na	5.06	269.4	19.69	13
111	2007	104	1930	45.67	na	5.408	284.6	17.79	12.96
111	2007	104	1945	45.3	na	5.455	278.7	17.54	12.94
111	2007	104	2000	44.9	na	5.042	277.8	19.59	12.9
111	2007	104	2015	44.52	na	3.233	264.8	24.34	12.9
111	2007	104	2030	44.05	na	2.73	269.6	20.25	12.89
111	2007	104	2045	43.89	na	3.519	275.6	19.71	12.87
111	2007	104	2100	43.97	na	3.957	278.6	18.73	12.85
111	2007	104	2115	44.08	na	4.205	282.5	15.64	12.85
111	2007	104	2130	44.28	na	3.67	277.1	26.14	12.85
111	2007	104	2145	44.28	na	2.631	222.1	39.06	12.85
111	2007	104	2200	44.32	na	2.891	230.7	22.5	12.83
111	2007	104	2215	44.15	na	2.032	206.6	37.37	12.83
111	2007	104	2230	44.02	na	2.337	229.3	30	12.83
111	2007	104	2245	43.97	na	2.263	234.6	34.39	12.83
111	2007	104	2300	43.94	na	2.754	251.3	25.8	12.81
111	2007	104	2315	43.88	na	2.857	247.7	24.71	12.82
111	2007	104	2330	43.8	na	2.889	244.8	21.81	12.81
111	2007	104	2345	43.75	na	4.231	259.7	22.23	12.81
111	2007	104	2400	43.82	na	5.026	275.2	18.46	12.8
111	2007	105	15	43.96	na	4.813	270.3	23.34	12.81
111	2007	105	30	43.83	na	5.231	263	22.01	12.81
111	2007	105	45	43.7	na	4.801	251.9	22.89	12.8
111	2007	105	100	43.62	na	4.368	252.7	19.9	12.79
111	2007	105	115	43.68	na	3.811	238	21.48	12.79
111	2007	105	130	43.64	na	2.015	275.1	26.32	12.79
111	2007	105	145	43.43	na	1.843	250	24.11	12.79
111	2007	105	200	43.32	na	2.334	265.7	23.78	12.77
111	2007	105	215	43.38	na	1.417	260.9	53.47	12.78
111	2007	105	230	43.55	na	2.567	237.5	27.11	12.77
111	2007	105	245	43.42	na	2.963	192.2	28.56	12.77
111	2007	105	300	43.25	na	3.784	166.3	14.71	12.75
111	2007	105	315	43.05	na	4.684	147.6	19.58	12.76
111	2007	105	330	42.76	na	4.07	168	19.68	12.75

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	105	345	42.49	na	3.034	193.2	33.79	12.75
111	2007	105	400	42.38	na	4.346	186.9	24.08	12.75
111	2007	105	415	42.26	na	4.766	180	22.56	12.74
111	2007	105	430	42.16	na	4.855	180.1	18.72	12.73
111	2007	105	445	41.89	na	4.344	170	20.06	12.73
111	2007	105	500	41.62	na	4.195	162.2	17.12	12.71
111	2007	105	515	41.22	na	4.879	162.9	16.56	12.72
111	2007	105	530	40.99	na	5.092	142.5	16.89	12.71
111	2007	105	545	40.69	na	5.678	146.6	16.32	12.71
111	2007	105	600	40.62	na	5.867	159.1	19.3	12.69
111	2007	105	615	40.65	na	8	153.4	17.43	12.7
111	2007	105	630	40.4	na	6.167	150.8	16.1	12.69
111	2007	105	645	40.01	na	4.98	152.2	16.95	12.69
111	2007	105	700	39.57	na	6.785	134.8	12.32	12.67
111	2007	105	715	39.56	na	7.22	143	17.01	12.68
111	2007	105	730	39.87	na	7.54	153.6	18.19	12.67
111	2007	105	745	40.07	na	7.88	142.8	17.19	12.67
111	2007	105	800	40.12	na	8.39	143.7	17.77	12.65
111	2007	105	815	40.26	na	7.15	161.2	18.56	12.67
111	2007	105	830	40.51	na	8.36	156.9	18.52	12.66
111	2007	105	845	40.59	na	9.56	139.8	15.72	12.66
111	2007	105	900	40.54	na	11.68	146.5	15.86	12.64
111	2007	105	915	40.61	na	12.7	142.3	16.79	12.65
111	2007	105	930	40.64	na	11.93	138.7	16.79	12.65
111	2007	105	945	40.68	na	13.89	143.3	13.71	12.65
111	2007	105	1000	40.72	na	13.65	143	14.01	12.64
111	2007	105	1015	41.1	na	15.04	141	15.17	12.65
111	2007	105	1030	41.22	na	14.76	139.9	16.63	12.65
111	2007	105	1045	41.56	na	15.19	146.1	17.96	12.65
111	2007	105	1100	42.07	na	14.83	148.1	22.62	12.65
111	2007	105	1115	42.41	na	15.99	150.3	16.96	12.65
111	2007	105	1130	42.38	na	17.64	147.5	15.99	12.65
111	2007	105	1145	42.33	na	17.37	155.4	17.73	12.65
111	2007	105	1200	42.36	na	19.38	149	18.35	12.63
111	2007	105	1215	42.66	na	17.79	154.4	14.05	12.64
111	2007	105	1230	43.03	na	17.51	158.7	16.26	12.64
111	2007	105	1245	43.19	na	20.32	156.4	16.27	12.65
111	2007	105	1300	43.19	na	19.57	155.9	16.69	12.63
111	2007	105	1315	43.29	na	18.91	151.4	16.38	12.64
111	2007	105	1330	43.55	na	17.15	156.4	15.85	12.64
111	2007	105	1345	44.08	na	18.56	148.7	14.84	12.64
111	2007	105	1400	44.38	na	16.78	154	21.26	12.63
111	2007	105	1415	44.75	na	15.91	160.7	20.48	12.64
111	2007	105	1430	44.84	na	16.44	155.9	20.22	12.64
111	2007	105	1445	45.25	na	14.61	159.8	17.9	12.63
111	2007	105	1500	45.88	na	15.25	155.4	18.21	12.63
111	2007	105	1515	46.78	na	16.33	168.3	19.98	12.63
111	2007	105	1530	47.34	na	17	168.8	16.11	12.64
111	2007	105	1545	47.27	na	17.03	169.7	19.58	12.64
111	2007	105	1600	47.55	na	15.81	170.8	20.99	12.63
111	2007	105	1615	47.65	na	16.16	172.1	16.43	12.64
111	2007	105	1630	47.8	na	15.03	172	21.26	12.65
111	2007	105	1645	48.02	na	15.05	173	21.32	12.65
111	2007	105	1700	48.21	na	15.63	175.9	18.95	12.64
111	2007	105	1715	48.5	na	16.01	177.7	18.07	12.65
111	2007	105	1730	48.51	na	14.39	177.4	16.96	12.65
111	2007	105	1745	49.36	na	13.99	169.8	19.76	12.65
111	2007	105	1800	48.87	na	13.5	170.7	17.13	12.64
111	2007	105	1815	48.63	na	12.92	171.6	20.44	12.66
111	2007	105	1830	48.71	na	13.69	170.9	19.89	12.66

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	105	1845	48.92	na	14.85	163.3	17.15	12.66
111	2007	105	1900	48.75	na	14.27	156.1	16.52	12.64
111	2007	105	1915	48.66	na	12	156.7	20.83	12.66
111	2007	105	1930	48.48	na	13.07	154.6	16.51	12.66
111	2007	105	1945	49.25	na	13.52	154.8	18.84	12.65
111	2007	105	2000	50.59	na	13.84	149.3	18.21	12.65
111	2007	105	2015	52.32	na	16.5	155.4	17.75	12.66
111	2007	105	2030	51.42	na	17.01	147.5	21.3	12.66
111	2007	105	2045	50.77	na	16.66	146	15.81	12.66
111	2007	105	2100	50.23	na	13.31	138.1	15.16	12.66
111	2007	105	2115	50.35	na	10.9	142.7	16.04	12.66
111	2007	105	2130	51.36	na	10.08	153.3	18.78	12.66
111	2007	105	2145	52.25	na	15.48	150.3	18.28	12.66
111	2007	105	2200	51.26	na	15.45	150.8	16.47	12.66
111	2007	105	2215	50.26	na	6.624	149.6	16.08	12.66
111	2007	105	2230	50.41	na	0.645	154.2	14.37	12.66
111	2007	105	2245	50.61	na	0.616	162.3	15.86	12.66
111	2007	105	2300	51.03	na	0.516	163.7	11.71	12.65
111	2007	105	2315	51.06	na	4.121	158.9	14.67	12.66
111	2007	105	2330	50.82	na	14.21	164.7	22.32	12.66
111	2007	105	2345	50.4	na	13.33	167.8	23.24	12.66
111	2007	105	2400	50.49	na	13.88	160	16.23	12.65
111	2007	106	15	50.52	na	14	157.6	16.73	12.66
111	2007	106	30	50.71	na	0.818	158.3	14.82	12.66
111	2007	106	45	51.47	na	0.395	157.8	11.35	12.66
111	2007	106	100	51.81	na	0.413	163.9	12.46	12.65
111	2007	106	115	52.03	na	0.575	160	15.22	12.66
111	2007	106	130	51.69	na	0.957	162.8	18.13	12.66
111	2007	106	145	51.15	na	2.173	152.7	16.24	12.66
111	2007	106	200	51.33	na	0.55	161.4	12.74	12.65
111	2007	106	215	51.36	na	0.566	162	14.25	12.66
111	2007	106	230	51.48	na	0.485	163.5	12.98	12.66
111	2007	106	245	51.3	na	0.503	160	14.48	12.66
111	2007	106	300	51.29	na	0.521	162.1	12.98	12.64
111	2007	106	315	51.2	na	0.559	148.4	12.96	12.65
111	2007	106	330	51.69	na	0.44	151.6	12.62	12.66
111	2007	106	345	51.6	na	0.61	153.7	17.4	12.66
111	2007	106	400	51.01	na	0.578	158.3	12.84	12.64
111	2007	106	415	50.86	na	0.532	159.4	12.09	12.66
111	2007	106	430	51.26	na	0.731	147.4	13.48	12.66
111	2007	106	445	50.98	na	1.171	140.6	12.96	12.66
111	2007	106	500	50.68	na	4.599	139.3	16.42	12.64
111	2007	106	515	50.28	na	8.52	155	20.14	12.66
111	2007	106	530	49.19	na	9.86	165.2	19.97	12.65
111	2007	106	545	47.37	na	10.12	185.2	18.18	12.65
111	2007	106	600	45.85	na	9.77	185.2	19.4	12.64
111	2007	106	615	44.65	na	10.75	177.3	15.45	12.64
111	2007	106	630	43.73	na	8.42	174	17.23	12.68
111	2007	106	645	43.36	na	9.32	175.6	18.62	12.69
111	2007	106	700	42.62	na	10.57	179	18.26	12.69
111	2007	106	715	42.3	na	11.61	176.7	16.57	12.69
111	2007	106	730	41.7	na	11.6	179.7	18.41	12.7
111	2007	106	745	41.38	na	11.22	180	19.42	12.7
111	2007	106	800	41.01	na	10.89	178.5	17.36	12.81
111	2007	106	815	40.8	na	10.57	175.5	19.08	13.21
111	2007	106	830	40.63	na	10.7	163.3	21.1	13.37
111	2007	106	845	40.36	na	10.65	152.4	17.44	13.47
111	2007	106	900	40.24	na	9.28	142.1	18.88	13.63
111	2007	106	915	40.2	na	9.63	139.6	14.27	13.61
111	2007	106	930	40.31	na	9.54	129.5	16.83	13.77

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	106	945	40.56	na	9.95	123.4	17.19	13.77
111	2007	106	1000	40.89	na	9.76	110.7	22.63	13.75
111	2007	106	1015	41.11	na	9.02	114.5	18.92	13.76
111	2007	106	1030	41.37	na	7.38	98.5	21.92	13.75
111	2007	106	1045	41.46	na	6.904	93.6	25.09	13.76
111	2007	106	1100	41.75	na	5.694	70.6	26.19	13.5
111	2007	106	1115	41.94	na	5.344	51.31	21.48	13.57
111	2007	106	1130	42.13	na	4.618	40.8	28.04	13.77
111	2007	106	1145	42.38	na	4.448	11.57	33.8	13.58
111	2007	106	1200	42.49	na	4.895	2.657	31.1	13.76
111	2007	106	1215	42.57	na	5.704	5.298	26.13	13.76
111	2007	106	1230	42.72	na	4.742	12.03	27.64	13.75
111	2007	106	1245	42.26	na	6.207	11.18	30.86	13.67
111	2007	106	1300	41.83	na	6.64	11.26	20.84	13.75
111	2007	106	1315	41.84	na	7.43	9.54	30.45	13.75
111	2007	106	1330	42.47	na	6.9	20.08	25.83	13.74
111	2007	106	1345	42.56	na	5.27	346.3	36.39	13.45
111	2007	106	1400	42.19	na	5.169	347.3	32.12	13.75
111	2007	106	1415	42.14	na	4.948	346.8	31.2	13.52
111	2007	106	1430	41.84	na	4.817	323.5	36.29	13.39
111	2007	106	1445	41.23	na	5.936	323.7	26.4	13.77
111	2007	106	1500	41.89	na	5.678	325	25.07	13.75
111	2007	106	1515	42.26	na	5.744	315.5	23.14	13.65
111	2007	106	1530	42.41	na	5.732	319.2	31.18	13.77
111	2007	106	1545	42.64	na	5.861	316	35.36	13.41
111	2007	106	1600	42.47	na	5.757	316.5	23.18	13.25
111	2007	106	1615	42.41	na	5.278	313.6	28.23	13.42
111	2007	106	1630	42.23	na	4.927	314.7	23.24	13.35
111	2007	106	1645	42.01	na	5.954	306.2	17.37	13.24
111	2007	106	1700	41.94	na	4.603	307.1	17.77	13.78
111	2007	106	1715	42.11	na	4.946	299.8	15.67	13.79
111	2007	106	1730	42.31	na	5.09	301.6	19.07	13.79
111	2007	106	1745	42.52	na	4.106	301.1	25.19	13.59
111	2007	106	1800	42.59	na	3.75	300.9	23.14	13.49
111	2007	106	1815	42.75	na	3.362	340.6	35.32	13.79
111	2007	106	1830	42.82	na	2.875	345.5	31.46	13.43
111	2007	106	1845	43.04	na	2.343	338.2	34.17	13.25
111	2007	106	1900	43.16	na	3.251	338.7	29.26	13.17
111	2007	106	1915	43.24	na	2.732	349.8	35.86	13.14
111	2007	106	1930	43.09	na	3.409	339.3	23.43	13.11
111	2007	106	1945	42.92	na	3.509	336.6	29.1	13.09
111	2007	106	2000	42.78	na	3.557	338.8	29.93	13.05
111	2007	106	2015	42.78	na	4.006	339.9	27.35	13.06
111	2007	106	2030	42.78	na	4.982	339.8	30.88	13.05
111	2007	106	2045	42.85	na	4.251	348.1	27.78	13.04
111	2007	106	2100	42.92	na	3.32	10.27	28.79	13.02
111	2007	106	2115	42.84	na	3.13	13.62	25.14	13.03
111	2007	106	2130	42.81	na	2.983	1.826	31.04	13.02
111	2007	106	2145	42.88	na	3.195	8.19	25.91	13.01
111	2007	106	2200	42.94	na	3.551	5.393	23.37	12.99
111	2007	106	2215	42.91	na	3.505	17.62	33.71	13
111	2007	106	2230	42.81	na	3.583	23.57	19.51	12.94
111	2007	106	2245	42.68	na	3.728	36.66	25.77	12.92
111	2007	106	2300	42.65	na	4.03	64.33	17.24	12.89
111	2007	106	2315	42.48	na	4.287	66.13	20.28	12.89
111	2007	106	2330	42.26	na	4.245	59.86	15.96	12.89
111	2007	106	2345	42.23	na	4.591	64.46	16.26	12.88
111	2007	106	2400	42.06	na	5.426	78.4	18.68	12.87
111	2007	107	15	41.82	na	4.565	70.7	20.77	12.87
111	2007	107	30	41.72	na	5.587	69.83	21.56	12.87

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	107	45	41.74	na	5.268	80.2	17.47	12.86
111	2007	107	100	41.54	na	7.26	79.3	17.64	12.85
111	2007	107	115	41.26	na	8.85	83.7	19.55	12.85
111	2007	107	130	41.04	na	7.64	87.2	18.08	12.85
111	2007	107	145	40.86	na	7.64	82.1	18.25	12.87
111	2007	107	200	40.52	na	8.35	85.4	18.26	12.89
111	2007	107	215	40.37	na	7.45	81.6	19.45	12.91
111	2007	107	230	40.5	na	7.29	75.5	20.53	12.91
111	2007	107	245	40.54	na	8.34	73.1	20.85	12.91
111	2007	107	300	40.31	na	9.81	78.1	17.75	12.9
111	2007	107	315	40.18	na	7.95	73.3	18.7	12.91
111	2007	107	330	40.05	na	8.1	76	20.26	12.91
111	2007	107	345	39.87	na	8.96	71.1	17.37	12.91
111	2007	107	400	39.71	na	5.915	54.94	23.14	12.89
111	2007	107	415	39.91	na	6.517	50.51	21.24	12.91
111	2007	107	430	40.19	na	5.734	61.42	19.87	12.89
111	2007	107	445	40.35	na	5.094	55.65	15.46	12.9
111	2007	107	500	40.57	na	5.386	50.72	20.81	12.89
111	2007	107	515	40.91	na	6.996	45.68	18.65	12.89
111	2007	107	530	41.14	na	6.785	42.45	19.86	12.9
111	2007	107	545	41.29	na	7.75	46.92	21.42	12.9
111	2007	107	600	41.26	na	8.24	49.72	19.48	12.88
111	2007	107	615	40.88	na	8.14	52.71	19.36	12.89
111	2007	107	630	40.49	na	7.71	55.24	18.81	12.87
111	2007	107	645	40.47	na	8.09	53.7	20.5	12.87
111	2007	107	700	40.59	na	10.59	47.29	16.73	12.83
111	2007	107	715	40.68	na	9.38	51.39	20.08	12.81
111	2007	107	730	40.54	na	9.1	54.77	16.57	12.81
111	2007	107	745	40.21	na	8.9	61.63	18.16	12.81
111	2007	107	800	39.96	na	8.92	53.54	21.8	12.99
111	2007	107	815	40.3	na	9.04	50.87	18.93	13.55
111	2007	107	830	41.16	na	8.1	44.22	23.14	13.81
111	2007	107	845	41.63	na	9.74	54.3	17.8	13.8
111	2007	107	900	42.07	na	10.8	53.42	17.85	13.79
111	2007	107	915	42.65	na	12.2	50.43	22.17	13.77
111	2007	107	930	42.62	na	11.18	46.67	20.86	13.77
111	2007	107	945	42.87	na	11.61	48.49	20.75	13.77
111	2007	107	1000	43.47	na	11.68	44.39	23.46	13.75
111	2007	107	1015	43.3	na	10.97	52.62	22.42	13.76
111	2007	107	1030	43.45	na	9.26	55.35	22.28	13.75
111	2007	107	1045	44.21	na	8.98	57.99	21.41	13.75
111	2007	107	1100	44.15	na	9.16	48.24	26.18	13.74
111	2007	107	1115	44.09	na	9.06	48.08	30.16	13.74
111	2007	107	1130	44.41	na	10.13	40.39	19.51	13.74
111	2007	107	1145	44.67	na	9.5	40.74	26.36	13.72
111	2007	107	1200	45.31	na	9.69	56.51	24.08	13.71
111	2007	107	1215	45.1	na	10.29	48.52	24.14	13.72
111	2007	107	1230	45.64	na	11.73	49.7	21.65	13.7
111	2007	107	1245	45.85	na	10.45	51.96	24.98	13.7
111	2007	107	1300	45.61	na	11.51	46.43	22.25	13.7
111	2007	107	1315	45.88	na	10.89	50.23	22.98	13.7
111	2007	107	1330	47.21	na	10.8	37.97	25.61	13.69
111	2007	107	1345	47.88	na	10.56	35.76	27.32	13.67
111	2007	107	1400	47.47	na	11.55	36.7	25.71	13.66
111	2007	107	1415	48.2	na	11.47	40.48	25.31	13.66
111	2007	107	1430	47.7	na	12.51	44.61	21.22	13.66
111	2007	107	1445	47.12	na	12.05	48.71	24.17	13.68
111	2007	107	1500	47.05	na	10.44	46.72	22.81	13.68
111	2007	107	1515	47.21	na	10.4	46.32	22.3	13.69
111	2007	107	1530	47.14	na	11.07	40.46	19.56	13.69

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	107	1545	47.16	na	10.03	44.18	24.84	13.7
111	2007	107	1600	45.92	na	10.65	51.59	23.48	13.7
111	2007	107	1615	45.64	na	9.05	47.9	19.62	13.46
111	2007	107	1630	44.71	na	11.39	43.27	18.95	13.74
111	2007	107	1645	44.61	na	9.24	39.56	20.88	13.74
111	2007	107	1700	44.66	na	8.86	39.41	22.21	13.74
111	2007	107	1715	44.97	na	9.96	44.34	20.99	13.75
111	2007	107	1730	45.29	na	9.32	35.1	23.5	13.75
111	2007	107	1745	45	na	9.85	42.89	18.11	13.76
111	2007	107	1800	44.39	na	9.07	36.22	20.11	13.17
111	2007	107	1815	43.85	na	8.99	37.13	20.63	13.33
111	2007	107	1830	43.77	na	9.28	38.81	20.92	13.16
111	2007	107	1845	43.88	na	8.17	38.34	18.83	13.06
111	2007	107	1900	43.92	na	8.71	36.36	24.19	12.99
111	2007	107	1915	43.87	na	8.88	43.38	19.1	12.96
111	2007	107	1930	43.62	na	6.525	30.25	24.42	12.93
111	2007	107	1945	43.45	na	5.648	26.5	22.38	12.91
111	2007	107	2000	43.25	na	5.437	32.3	18.61	12.89
111	2007	107	2015	43.16	na	5.942	31.49	22.52	12.88
111	2007	107	2030	43.12	na	6.541	29.89	20.87	12.87
111	2007	107	2045	43.14	na	6.596	32.87	23.88	12.87
111	2007	107	2100	43.2	na	7.43	33.1	19.11	12.85
111	2007	107	2115	43.14	na	6.749	34.89	24.65	12.85
111	2007	107	2130	43.06	na	6.626	40.35	26.69	12.84
111	2007	107	2145	43.1	na	7.43	32.57	22.18	12.83
111	2007	107	2200	43.21	na	7.8	31.57	19.59	12.82
111	2007	107	2215	43.28	na	8.81	30.8	21.05	12.83
111	2007	107	2230	43.23	na	8.72	37.26	20.53	12.82
111	2007	107	2245	43.17	na	9.63	39.62	18.99	12.82
111	2007	107	2300	42.84	na	8.7	35.78	22.05	12.8
111	2007	107	2315	42.75	na	8.99	40.3	21.03	12.81
111	2007	107	2330	42.48	na	9.74	40.14	22.89	12.81
111	2007	107	2345	42.01	na	7.6	35.19	23.55	12.8
111	2007	107	2400	41.6	na	8.8	32.37	25.65	12.79
111	2007	108	15	41.63	na	7.81	31.61	24.67	12.79
111	2007	108	30	42.06	na	8.97	37.9	18.87	12.79
111	2007	108	45	42.34	na	8.19	45.09	23.72	12.79
111	2007	108	100	42.46	na	8.25	49.35	24.67	12.77
111	2007	108	115	42.73	na	9.37	53.42	17.56	12.78
111	2007	108	130	43.22	na	11.03	58.72	22.62	12.78
111	2007	108	145	43.32	na	10.4	67.02	20.35	12.78
111	2007	108	200	43.15	na	11.39	70.1	18.1	12.77
111	2007	108	215	42.79	na	10.39	65.17	20.74	12.77
111	2007	108	230	42.94	na	11.63	74.2	19.98	12.77
111	2007	108	245	42.78	na	11.39	72.8	20.66	12.78
111	2007	108	300	42.75	na	12.06	67.73	18.3	12.77
111	2007	108	315	42.63	na	12.65	71.1	20.66	12.77
111	2007	108	330	42.51	na	10.87	74.1	16.67	12.77
111	2007	108	345	42.36	na	10.87	71.5	19.57	12.77
111	2007	108	400	42.31	na	10.22	69.36	19.26	12.76
111	2007	108	415	42.28	na	10.88	72.1	18.47	12.77
111	2007	108	430	42.23	na	10.13	65.35	19.63	12.77
111	2007	108	445	42.14	na	8.6	69.68	20.82	12.77
111	2007	108	500	42.08	na	8.79	66.37	19.75	12.76
111	2007	108	515	42.08	na	8.9	67.62	19.48	12.77
111	2007	108	530	42.05	na	9.56	69.65	17.62	12.77
111	2007	108	545	41.94	na	8.4	66.4	22.75	12.76
111	2007	108	600	41.9	na	8.55	68.55	17.45	12.75
111	2007	108	615	41.9	na	8.26	65	19.73	12.76
111	2007	108	630	41.94	na	7.66	60.55	23.84	12.76

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	108	645	41.95	na	8.28	71.3	20.24	12.75
111	2007	108	700	42.06	na	8.86	64.08	18.49	12.74
111	2007	108	715	42.04	na	7.88	69.4	18.78	12.75
111	2007	108	730	42	na	9.81	68.51	17.23	12.75
111	2007	108	745	42.02	na	10.25	72.6	21.23	12.78
111	2007	108	800	42.16	na	8.79	74	20.43	12.94
111	2007	108	815	42.25	na	9.68	69.5	21.09	13.17
111	2007	108	830	42.44	na	9.53	73.5	21.06	13.47
111	2007	108	845	42.49	na	9.45	81.9	18.22	13.56
111	2007	108	900	42.55	na	9.87	71.2	22.18	13.63
111	2007	108	915	42.68	na	9.68	76.1	22.2	13.76
111	2007	108	930	42.96	na	9	75.4	20.84	13.75
111	2007	108	945	42.85	na	11.48	71.3	22.28	13.75
111	2007	108	1000	43.26	na	10.13	78.8	16.26	13.74
111	2007	108	1015	43.61	na	8.61	71.4	24.4	13.75
111	2007	108	1030	43.49	na	8.89	61.27	22.47	13.75
111	2007	108	1045	43.49	na	8.92	70.6	23.23	13.75
111	2007	108	1100	43.71	na	9.88	65.57	18.22	13.73
111	2007	108	1115	43.99	na	9.43	69.52	24.02	13.74
111	2007	108	1130	44.46	na	8.54	73	22.63	13.73
111	2007	108	1145	44.52	na	8	71	19.68	13.73
111	2007	108	1200	44.91	na	8.31	68.41	23.2	13.72
111	2007	108	1215	45.37	na	8	65.8	22.14	13.72
111	2007	108	1230	45.1	na	8.52	61.94	23.24	13.73
111	2007	108	1245	45.22	na	7.74	52.57	24.89	13.72
111	2007	108	1300	45.76	na	8.45	75.8	17.45	13.71
111	2007	108	1315	45.78	na	9.1	62.24	22.9	13.72
111	2007	108	1330	45.57	na	8.07	64.26	19.6	13.72
111	2007	108	1345	45.83	na	8.89	60.31	21.58	13.72
111	2007	108	1400	46.34	na	8.47	61.81	20.07	13.7
111	2007	108	1415	46.82	na	8.99	67.38	17.31	13.7
111	2007	108	1430	47.1	na	10.4	76.8	17.09	13.7
111	2007	108	1445	47.68	na	10.46	71.1	23.23	13.69
111	2007	108	1500	48.09	na	8.4	71.3	25.91	13.67
111	2007	108	1515	47.9	na	9.08	64.94	25.83	13.68
111	2007	108	1530	48.45	na	10.5	71	19.13	13.68
111	2007	108	1545	48.77	na	10.11	74.1	22.73	13.67
111	2007	108	1600	48.13	na	11.44	89.7	17.65	13.66
111	2007	108	1615	47.96	na	10.52	72.8	22.36	13.68
111	2007	108	1630	48.23	na	8.78	84.5	22.18	13.68
111	2007	108	1645	48.31	na	9.78	75.5	20.68	13.68
111	2007	108	1700	48.08	na	8.76	68.96	20.12	13.68
111	2007	108	1715	47.99	na	8.65	73.3	22.26	13.69
111	2007	108	1730	48.01	na	9.01	76.7	19.63	13.69
111	2007	108	1745	47.87	na	8.19	77.3	21.01	13.14
111	2007	108	1800	47.38	na	7.42	64.24	20.87	13.06
111	2007	108	1815	47.12	na	7	69.77	21.96	13.01
111	2007	108	1830	46.9	na	6.58	83.8	21.15	12.98
111	2007	108	1845	46.83	na	6.908	70.6	20.58	12.95
111	2007	108	1900	46.69	na	6.791	73.2	21.36	12.92
111	2007	108	1915	46.7	na	5.956	71.2	21.61	12.92
111	2007	108	1930	46.66	na	6.825	71.8	15.96	12.9
111	2007	108	1945	46.63	na	7.23	78.8	18.7	12.9
111	2007	108	2000	46.53	na	5.632	80.8	20.79	12.88
111	2007	108	2015	46.38	na	5.173	67.6	23.23	12.87
111	2007	108	2030	46.25	na	5.221	73.5	17.08	12.87
111	2007	108	2045	46.11	na	4.64	70.9	19.4	12.86
111	2007	108	2100	45.98	na	6.119	80.6	19.34	12.85
111	2007	108	2115	45.77	na	4.948	95.7	16.26	12.85
111	2007	108	2130	45.61	na	2.31	97.8	20.53	12.85

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	108	2145	45.48	na	2.317	93.3	18.76	12.84
111	2007	108	2200	45.41	na	2.895	96.6	16.55	12.83
111	2007	108	2215	45.37	na	3.11	88.1	18.1	12.84
111	2007	108	2230	45.23	na	3.774	107	16.74	12.83
111	2007	108	2245	45.1	na	2.519	102.6	16.81	12.82
111	2007	108	2300	45	na	2.945	108.8	13.99	12.81
111	2007	108	2315	44.91	na	3.372	105.1	18.11	12.82
111	2007	108	2330	44.78	na	2.78	104.8	18.64	12.81
111	2007	108	2345	44.68	na	3.171	103.3	19.94	12.81
111	2007	108	2400	44.67	na	3.859	100.8	15.92	12.8
111	2007	109	15	44.62	na	3.744	105.2	16.16	12.8
111	2007	109	30	44.49	na	2.313	75.8	22.44	12.8
111	2007	109	45	44.37	na	2.782	72.4	21.4	12.79
111	2007	109	100	44.27	na	2.191	61.64	20.98	12.78
111	2007	109	115	44.22	na	2.998	98.2	15.71	12.79
111	2007	109	130	44.11	na	2.722	107	18.86	12.78
111	2007	109	145	43.95	na	2.458	109.3	15.75	12.78
111	2007	109	200	43.86	na	2.084	83.7	20.31	12.75
111	2007	109	215	43.88	na	3.249	82.7	22.53	12.77
111	2007	109	230	43.86	na	2.372	96.2	29.26	12.77
111	2007	109	245	43.84	na	3.346	87.4	18.93	12.76
111	2007	109	300	43.8	na	2.812	63.69	25.86	12.74
111	2007	109	315	43.76	na	3.883	65.62	19.84	12.74
111	2007	109	330	43.69	na	3.549	62.19	20.44	12.75
111	2007	109	345	43.61	na	3.477	61.66	19.2	12.75
111	2007	109	400	43.57	na	3.575	65.02	17.5	12.73
111	2007	109	415	43.57	na	3.951	68.97	21.47	12.74
111	2007	109	430	43.65	na	4.551	77.9	21.26	12.74
111	2007	109	445	43.69	na	4.887	82.4	20.62	12.74
111	2007	109	500	43.68	na	5.344	79.1	21.41	12.73
111	2007	109	515	43.68	na	4.11	78.9	21.94	12.73
111	2007	109	530	43.69	na	4.368	85.9	22.09	12.73
111	2007	109	545	43.69	na	5.374	79.6	22.71	12.73
111	2007	109	600	43.49	na	5.358	87.2	19.42	12.72
111	2007	109	615	43.41	na	4.76	81	18.82	12.73
111	2007	109	630	43.41	na	3.112	67.74	24.17	12.73
111	2007	109	645	43.41	na	3.032	43.5	22.03	12.72
111	2007	109	700	43.41	na	3.923	50.14	16.34	12.71
111	2007	109	715	43.45	na	3.523	56.28	20.54	12.72
111	2007	109	730	43.43	na	4.191	91.8	26.37	12.72
111	2007	109	745	43.02	na	4.549	96.1	22.33	12.81
111	2007	109	800	43.2	na	3.827	78.2	21.05	12.91
111	2007	109	815	43.67	na	5.418	76.4	16.49	12.89
111	2007	109	830	43.96	na	5.169	69.9	22.1	13.05
111	2007	109	845	44.18	na	6	73.8	18.09	13.33
111	2007	109	900	44.69	na	5.573	80.6	22.51	13.73
111	2007	109	915	45.43	na	7.78	67.92	22.48	13.73
111	2007	109	930	45.57	na	8.3	65.87	21.84	13.72
111	2007	109	945	45.69	na	8.07	66.81	21.9	13.72
111	2007	109	1000	45.68	na	8.45	69.45	18.7	13.7
111	2007	109	1015	46.15	na	8.46	71.4	18.5	13.69
111	2007	109	1030	46.86	na	7.74	78.1	20.72	13.69
111	2007	109	1045	46.98	na	8.78	75.3	17.5	13.68
111	2007	109	1100	46.81	na	8.91	67.9	18.67	13.66
111	2007	109	1115	47.61	na	8.18	72.5	21.41	13.68
111	2007	109	1130	47.91	na	7.84	69.36	22.55	13.67
111	2007	109	1145	48	na	8.74	74	24.35	13.66
111	2007	109	1200	48.52	na	7.73	82.8	18.82	13.66
111	2007	109	1215	49.29	na	7.91	70.4	20.91	13.64
111	2007	109	1230	49.72	na	8.79	83.1	22.43	13.64

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	109	1245	50.03	na	7.85	61.07	22.47	13.64
111	2007	109	1300	50.29	na	7.72	76.7	24.25	13.62
111	2007	109	1315	49.7	na	8.1	58.24	24.31	13.63
111	2007	109	1330	49.75	na	6.93	66.61	29.2	13.63
111	2007	109	1345	50.67	na	7.77	74	21.22	13.62
111	2007	109	1400	51.03	na	8.04	61.61	26	13.6
111	2007	109	1415	52.27	na	7.52	61.85	28.47	13.61
111	2007	109	1430	52.51	na	7.27	50.83	25.73	13.6
111	2007	109	1445	52.67	na	6.588	59.05	30.65	13.6
111	2007	109	1500	53.66	na	7.3	77.8	26.86	13.58
111	2007	109	1515	53.89	na	6.437	69.91	27.12	13.59
111	2007	109	1530	54.48	na	6.374	65.53	29.18	13.58
111	2007	109	1545	55.21	na	5.984	85.2	35.6	13.56
111	2007	109	1600	55.56	na	5.962	65.38	25.19	13.55
111	2007	109	1615	55.84	na	7.07	53.4	32.39	13.55
111	2007	109	1630	56.29	na	5.911	62.51	37.97	13.54
111	2007	109	1645	56.52	na	5.298	47.83	31.77	13.54
111	2007	109	1700	57.22	na	6.213	71.8	22.73	13.53
111	2007	109	1715	57.17	na	5.255	85.3	29.61	13.54
111	2007	109	1730	52.4	na	7.4	220.1	48.89	13.56
111	2007	109	1745	47.74	na	6.566	247.6	20.61	13.59
111	2007	109	1800	46.9	na	6.266	243.6	21.29	13.61
111	2007	109	1815	46.22	na	7.26	216.2	25.41	13.64
111	2007	109	1830	45.51	na	6.735	213.7	22.85	13.64
111	2007	109	1845	44.93	na	6.515	223.4	19.71	13.13
111	2007	109	1900	44.69	na	5.863	235.3	20	13.04
111	2007	109	1915	44.6	na	5.424	234.7	22.66	13
111	2007	109	1930	44.58	na	4.686	234.8	22.87	12.96
111	2007	109	1945	44.48	na	4.444	228.5	19.73	12.93
111	2007	109	2000	44.48	na	4.481	225.3	24.75	12.91
111	2007	109	2015	44.61	na	4.646	219.2	23	12.9
111	2007	109	2030	44.73	na	5.557	194	21.33	12.88
111	2007	109	2045	44.65	na	5.761	189.1	18.39	12.87
111	2007	109	2100	44.47	na	4.907	202.9	22.49	12.85
111	2007	109	2115	44.39	na	4.418	196.6	20.36	12.85
111	2007	109	2130	44.44	na	3.07	221.9	24.73	12.85
111	2007	109	2145	44.24	na	3.466	198	18.34	12.85
111	2007	109	2200	44.16	na	3.615	214	15.21	12.83
111	2007	109	2215	44.1	na	2.945	226.1	22.05	12.83
111	2007	109	2230	44.13	na	2.038	203.6	32.61	12.83
111	2007	109	2245	44.17	na	2.599	209.1	24.28	12.83
111	2007	109	2300	44.07	na	2.688	263.4	13.91	12.81
111	2007	109	2315	43.98	na	2.309	258.9	26.83	12.81
111	2007	109	2330	44.02	na	2.058	272.4	39.54	12.81
111	2007	109	2345	44.05	na	2.698	283.5	55.03	12.81
111	2007	109	2400	44.03	na	2.375	283.4	48.01	12.79
111	2007	110	15	44.01	na	4.217	308.4	22.04	12.8
111	2007	110	30	44.03	na	3.722	321.7	25.64	12.8
111	2007	110	45	44.07	na	2.861	322.7	29.62	12.79
111	2007	110	100	44.13	na	2.829	353.2	28.53	12.78
111	2007	110	115	44.15	na	1.801	351	33.98	12.79
111	2007	110	130	44.21	na	2.227	345.7	28.86	12.79
111	2007	110	145	44.14	na	2.661	344.6	26.97	12.78
111	2007	110	200	44	na	2.855	353.1	27.05	12.77
111	2007	110	215	43.89	na	2.599	342.4	32.01	12.77
111	2007	110	230	43.74	na	2.293	353.2	28.54	12.77
111	2007	110	245	43.42	na	2.75	356.3	31.16	12.77
111	2007	110	300	43.08	na	2.692	8.04	26.97	12.75
111	2007	110	315	42.77	na	2.76	1.871	34.21	12.75
111	2007	110	330	42.7	na	3.076	12.07	25.3	12.75

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	110	345	42.77	na	2.434	16.62	27.31	12.74
111	2007	110	400	42.74	na	2.271	16.26	19.24	12.73
111	2007	110	415	42.81	na	2.907	12.12	23.76	12.73
111	2007	110	430	43.09	na	3.11	10.13	20.52	12.73
111	2007	110	445	43.22	na	3.595	13.93	21.32	12.72
111	2007	110	500	43.11	na	3.545	9.83	21.69	12.71
111	2007	110	515	42.74	na	2.853	20.22	24.59	12.71
111	2007	110	530	42.38	na	2.551	9.09	26.7	12.71
111	2007	110	545	42.01	na	2.589	0.534	26.01	12.7
111	2007	110	600	41.98	na	2.931	4.587	26.27	12.69
111	2007	110	615	41.87	na	2.633	13.26	20.59	12.69
111	2007	110	630	41.89	na	2.776	23.19	24.54	12.69
111	2007	110	645	42.36	na	3.086	16.12	21.03	12.68
111	2007	110	700	43.44	na	3.658	35.59	22.83	12.67
111	2007	110	715	44.81	na	3.819	46.29	16	12.7
111	2007	110	730	46.37	na	5.785	51.17	17.91	12.73
111	2007	110	745	47.54	na	5.439	55.56	21.12	12.77
111	2007	110	800	48.67	na	6.334	62.13	21.55	12.8
111	2007	110	815	49.9	na	6.817	62.69	24.03	12.85
111	2007	110	830	50.75	na	8.17	58.95	21.05	12.89
111	2007	110	845	51.18	na	8.68	65.45	21.13	12.93
111	2007	110	900	51.83	na	8.48	64.76	24.11	12.96
111	2007	110	915	52.77	na	8.6	58.68	19.73	13
111	2007	110	930	53.68	na	9.95	61.47	19.82	13.03
111	2007	110	945	54.42	na	9.64	79.6	16.04	13.07
111	2007	110	1000	55.52	na	8.23	77.1	21	13.23
111	2007	110	1015	56.33	na	8.43	71.5	18.45	13.58
111	2007	110	1030	56.65	na	9.02	63	22.42	13.57
111	2007	110	1045	57.02	na	8.94	68.33	18.02	13.56
111	2007	110	1100	57.42	na	10.49	64.82	20.56	13.54
111	2007	110	1115	58.1	na	10.2	43.44	20.82	13.53
111	2007	110	1130	58.75	na	10.08	60.94	21.38	13.53
111	2007	110	1145	59.78	na	9.72	48.71	17.86	13.52
111	2007	110	1200	60.6	na	9.79	56.3	27.31	13.49
111	2007	110	1215	60.85	na	10.69	64.09	22.21	13.51
111	2007	110	1230	61.51	na	10.4	65.71	26.48	13.5
111	2007	110	1245	62.2	na	9.67	72.5	22.73	13.49
111	2007	110	1300	62.5	na	9.5	86	17.24	13.48
111	2007	110	1315	62.98	na	9.71	87.1	28.2	13.49
111	2007	110	1330	63.18	na	10.14	90.3	20.66	13.49
111	2007	110	1345	63.85	na	9.61	103.7	19.38	13.49
111	2007	110	1400	63.87	na	9.37	96.9	37.02	13.48
111	2007	110	1415	51.29	na	9.91	190.2	22.58	13.52
111	2007	110	1430	47.67	na	10.92	188.6	18.65	13.55
111	2007	110	1445	47.74	na	8.99	191.9	20.35	13.57
111	2007	110	1500	47.77	na	8.36	186.4	25.41	13.59
111	2007	110	1515	46.95	na	8.44	184.7	21.38	13.6
111	2007	110	1530	47.36	na	7.27	212.2	26.5	13.61
111	2007	110	1545	47.31	na	6.896	199.6	23.1	13.61
111	2007	110	1600	46.96	na	6.61	207.6	25.62	13.61
111	2007	110	1615	47.49	na	5.811	220.3	19.45	13.61
111	2007	110	1630	47.61	na	5.984	207.4	24.46	13.62
111	2007	110	1645	47.25	na	6.205	214.6	24.24	13.63
111	2007	110	1700	46.9	na	5.606	218.6	28.49	13.63
111	2007	110	1715	47.46	na	5.626	199.2	23.77	13.64
111	2007	110	1730	47.64	na	5.32	235	24.69	13.64
111	2007	110	1745	47.18	na	5.378	226.6	22.95	13.65
111	2007	110	1800	47.19	na	5.398	231.8	30.63	13.66
111	2007	110	1815	46.89	na	5.491	238.8	34.34	13.67
111	2007	110	1830	46.9	na	4.768	230.3	23.2	13.68

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	110	1845	46.53	na	5.096	230.9	21.47	13.69
111	2007	110	1900	46.33	na	4.422	230.1	22.52	13.69
111	2007	110	1915	45.76	na	4.255	230.5	22.88	13.72
111	2007	110	1930	45.17	na	3.974	228	24.01	13.08
111	2007	110	1945	44.53	na	3.217	262.9	16.72	13.02
111	2007	110	2000	44.07	na	2.653	261.1	19.88	12.95
111	2007	110	2015	43.77	na	2.267	271.5	15.88	12.93
111	2007	110	2030	43.45	na	1.979	256.9	20.87	12.89
111	2007	110	2045	43.14	na	1.828	269.5	17.59	12.87
111	2007	110	2100	42.9	na	1.828	272.6	19.33	12.85
111	2007	110	2115	42.72	na	1.909	284	16.92	12.84
111	2007	110	2130	42.49	na	1.512	293.4	17.03	12.83
111	2007	110	2145	42.26	na	1.702	275.6	18.94	12.81
111	2007	110	2200	42.05	na	1.694	279.6	19.18	12.79
111	2007	110	2215	41.83	na	1.111	256.2	20.37	12.79
111	2007	110	2230	41.53	na	1.59	282.3	24.22	12.79
111	2007	110	2245	41.4	na	1.73	309.8	28.65	12.78
111	2007	110	2300	41.62	na	1.897	317.8	19.51	12.77
111	2007	110	2315	41.47	na	1.57	295.1	15.95	12.77
111	2007	110	2330	41.03	na	1.94	310.8	15.72	12.77
111	2007	110	2345	41.1	na	1.314	300	17.77	12.76
111	2007	110	2400	40.86	na	1.303	338.6	35.38	12.75
111	2007	111	15	40.57	na	1.192	333.6	21.48	12.75
111	2007	111	30	40.56	na	1.166	331.4	14.52	12.75
111	2007	111	45	40.39	na	1.282	346.2	21.36	12.74
111	2007	111	100	40.16	na	0.854	337.2	21.69	12.73
111	2007	111	115	39.43	na	0.513	325.9	9.28	12.73
111	2007	111	130	39.09	na	1.165	337	14.09	12.73
111	2007	111	145	39.08	na	1.211	333.1	25.88	12.72
111	2007	111	200	38.62	na	1.556	310.3	18.74	12.71
111	2007	111	215	39.03	na	1.123	322.7	24.07	12.72
111	2007	111	230	38.83	na	1.121	349.6	23.21	12.71
111	2007	111	245	38.68	na	1.274	328.9	15.69	12.71
111	2007	111	300	38.65	na	1.468	4.738	25.3	12.7
111	2007	111	315	39.4	na	0.859	11.22	22.52	12.7
111	2007	111	330	38.51	na	1.055	304.4	10.24	12.7
111	2007	111	345	37.47	na	0.942	318.9	10.7	12.69
111	2007	111	400	36.84	na	na	na	na	12.67
111	2007	111	415	36.33	na	0.809	294.7	9.15	12.68
111	2007	111	430	37.04	na	2.241	312.4	14.56	12.68
111	2007	111	445	38.64	na	1.927	321.8	14.76	12.67
111	2007	111	500	39.29	na	2.525	308.9	13.9	12.66
111	2007	111	515	39.73	na	2.975	304.8	14.88	12.66
111	2007	111	530	40.83	na	3.326	315.5	30.92	12.66
111	2007	111	545	41.72	na	3.028	327	31.58	12.66
111	2007	111	600	41.84	na	3.044	322.9	21.13	12.64
111	2007	111	615	41.58	na	2.943	325.5	18.89	12.67
111	2007	111	630	41.6	na	2.617	322.7	23.18	12.66
111	2007	111	645	42.49	na	2.776	328.7	26.68	12.66
111	2007	111	700	43.86	na	2.177	327.3	25.61	12.65
111	2007	111	715	45.07	na	2.166	332.6	25.99	12.68
111	2007	111	730	46.22	na	2.219	351.3	28.93	12.71
111	2007	111	745	47.8	na	2.476	1.964	27.57	12.75
111	2007	111	800	49.61	na	2.945	2.583	26	12.79
111	2007	111	815	52.04	na	3.307	23.39	22.7	12.84
111	2007	111	830	54.38	na	4.257	24.34	26.94	12.89
111	2007	111	845	56.65	na	4.483	37.83	20.8	12.94
111	2007	111	900	58.46	na	4.716	32.2	19.24	12.98
111	2007	111	915	60.45	na	5.227	37.06	24.79	13.04
111	2007	111	930	61.81	na	5.734	45.29	22.81	13.09

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	111	945	63.34	na	5.732	45.98	28.63	13.15
111	2007	111	1000	64.52	na	5.533	46.16	30.15	13.35
111	2007	111	1015	65.55	na	5.477	32.6	27.27	13.47
111	2007	111	1030	65.95	na	6.05	21	31.05	13.45
111	2007	111	1045	66.65	na	6.129	26.15	27.33	13.45
111	2007	111	1100	67.64	na	4.869	38.66	32.05	13.43
111	2007	111	1115	68.59	na	5.6	45.65	35.18	13.43
111	2007	111	1130	68.34	na	6.682	39.54	24.41	13.42
111	2007	111	1145	68.77	na	6.479	49.77	16.92	13.41
111	2007	111	1200	69.57	na	5.412	36.8	36.52	13.4
111	2007	111	1215	70.3	na	4.885	47.85	45.11	13.39
111	2007	111	1230	71.3	na	5.628	28.43	27.17	13.39
111	2007	111	1245	71.8	na	4.73	30.47	45.94	13.38
111	2007	111	1300	72	na	6.02	27.58	41.17	13.36
111	2007	111	1315	72.2	na	6.461	10.35	37.06	13.38
111	2007	111	1330	72.3	na	5.728	31.89	46.12	13.38
111	2007	111	1345	73.2	na	5.058	19.05	42.2	13.38
111	2007	111	1400	73.3	na	5.646	17.99	37.17	13.36
111	2007	111	1415	74.3	na	6.714	10.86	39.38	13.36
111	2007	111	1430	74.1	na	6.574	6.063	32.73	13.36
111	2007	111	1445	73.9	na	8.29	43.32	25.96	13.36
111	2007	111	1500	74	na	7.16	39.37	27.94	13.34
111	2007	111	1515	74.1	na	7.98	30.39	24.67	13.35
111	2007	111	1530	74.6	na	6.163	22.47	28.97	13.35
111	2007	111	1545	75	na	6.195	35.29	26.29	13.34
111	2007	111	1600	74.7	na	6.883	28.62	27.17	13.34
111	2007	111	1615	74.5	na	7.56	17.81	28.97	13.34
111	2007	111	1630	74.6	na	6.741	21.79	28.02	13.34
111	2007	111	1645	75.1	na	6.01	3.232	34.12	13.34
111	2007	111	1700	75	na	6.883	12.43	34.88	13.34
111	2007	111	1715	75.3	na	5.406	8.98	39.38	13.33
111	2007	111	1730	75.1	na	6.4	26	33.49	13.35
111	2007	111	1745	75.2	na	6.861	23.62	25.47	13.35
111	2007	111	1800	75.2	na	5.127	7.56	32.77	13.35
111	2007	111	1815	75.1	na	5.133	10.43	40.06	13.34
111	2007	111	1830	74.2	na	5.022	330.1	58.8	13.37
111	2007	111	1845	65.64	na	6.515	263.1	21.09	13.4
111	2007	111	1900	65.11	na	4.901	276.8	19.2	13.41
111	2007	111	1915	63.89	na	5.658	271.8	18.4	13.13
111	2007	111	1930	61.95	na	4.541	283.8	16.96	13.04
111	2007	111	1945	61.63	na	4.636	283.4	14.33	12.99
111	2007	111	2000	61.32	na	5.833	287.1	12.16	12.95
111	2007	111	2015	60.73	na	4.06	291.9	14.26	12.94
111	2007	111	2030	60.21	na	4.402	300.8	15.5	12.92
111	2007	111	2045	60	na	4.77	300.8	13.32	12.91
111	2007	111	2100	59.58	na	4.183	303.2	16	12.88
111	2007	111	2115	58.89	na	3.841	299.8	12.37	12.88
111	2007	111	2130	58.54	na	2.981	312.1	22.05	12.88
111	2007	111	2145	58.15	na	2.961	319.9	18.75	12.86
111	2007	111	2200	57.76	na	2.08	325.7	22.74	12.84
111	2007	111	2215	57.18	na	1.297	334.6	22.44	12.84
111	2007	111	2230	56.62	na	1.549	345.3	31.46	12.84
111	2007	111	2245	55.92	na	1.621	312	21.94	12.83
111	2007	111	2300	54.91	na	1.275	313.3	22.22	12.82
111	2007	111	2315	54.44	na	0.434	19.51	9.21	12.81
111	2007	111	2330	53.64	na	0.378	37.31	6.838	12.8
111	2007	111	2345	52.87	na	0.116	340.1	8.46	12.8
111	2007	111	2400	52.07	na	0.071	14.25	2.527	12.78
111	2007	112	15	51.74	na	0.187	7.42	3.527	12.78
111	2007	112	30	50.74	na	0.485	78.5	35.57	12.78

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	112	45	50.61	na	0.9	40.06	21.32	12.77
111	2007	112	100	49.91	na	0.55	65.8	11.77	12.76
111	2007	112	115	49.57	na	0.747	51.42	5.257	12.76
111	2007	112	130	49.42	na	0.878	30.61	14.91	12.75
111	2007	112	145	49.02	na	0.153	32.77	7.28	12.75
111	2007	112	200	49.3	na	0.996	82.8	41.55	12.73
111	2007	112	215	49.73	na	0.556	36.67	19.37	12.74
111	2007	112	230	49.43	na	1.233	67.47	54.13	12.73
111	2007	112	245	49	na	0.092	39.56	2.255	12.73
111	2007	112	300	48.37	na	0.038	54.29	0.2	12.72
111	2007	112	315	48.62	na	1.504	47.38	15.69	12.72
111	2007	112	330	48.39	na	0.429	59.13	10.21	12.72
111	2007	112	345	48.07	na	0.903	76.8	20.02	12.72
111	2007	112	400	47.84	na	0.68	53.25	14.18	12.7
111	2007	112	415	47.34	na	0.416	36.14	5.578	12.71
111	2007	112	430	48.06	na	1.494	36.55	15.32	12.7
111	2007	112	445	47.64	na	0.106	24.72	7.11	12.7
111	2007	112	500	46.93	na	0.797	46.36	11.78	12.69
111	2007	112	515	48.15	na	1.848	51.71	14.51	12.69
111	2007	112	530	50	na	2.062	47.25	14.8	12.69
111	2007	112	545	50.72	na	1.338	49.03	16.9	12.69
111	2007	112	600	49.77	na	1.162	54.82	16.25	12.67
111	2007	112	615	49.84	na	2.156	53.24	11.98	12.69
111	2007	112	630	51.14	na	2.557	61.84	14.82	12.69
111	2007	112	645	52.75	na	3.531	69.45	16.22	12.69
111	2007	112	700	53.88	na	4.287	67.66	16.85	12.67
111	2007	112	715	54.8	na	4.151	63.92	21.16	12.72
111	2007	112	730	55.86	na	3.925	68.47	19.29	12.74
111	2007	112	745	56.79	na	5.33	71.8	14.91	12.78
111	2007	112	800	57.8	na	4.944	70	15.57	12.82
111	2007	112	815	59.01	na	4.867	77.9	16.21	12.86
111	2007	112	830	60.41	na	5.859	81.5	20.81	12.9
111	2007	112	845	61.75	na	5.799	83	22.44	12.94
111	2007	112	900	62.67	na	5.493	94.2	19.18	12.96
111	2007	112	915	63.46	na	5.674	80.6	19.97	13.01
111	2007	112	930	64.29	na	5.422	78.4	22.91	13.05
111	2007	112	945	65.23	na	5.382	51.02	20.1	13.1
111	2007	112	1000	66.18	na	5.098	76.8	29.9	13.25
111	2007	112	1015	67.02	na	4.783	62.99	24.55	13.45
111	2007	112	1030	67.92	na	4.614	103.2	28.1	13.43
111	2007	112	1045	69.02	na	4.69	96.9	35.76	13.42
111	2007	112	1100	69.6	na	3.678	95.9	36.45	13.41
111	2007	112	1115	67.84	na	5.523	219.8	24.33	13.39
111	2007	112	1130	66.91	na	5.243	220.6	22.88	13.41
111	2007	112	1145	65.98	na	6.105	211	16.93	13.41
111	2007	112	1200	64.58	na	6.982	203.3	16.88	13.41
111	2007	112	1215	64.07	na	6.976	196.5	15.87	13.41
111	2007	112	1230	63.49	na	6.809	210.1	20.26	13.42
111	2007	112	1245	63.22	na	5.67	200.4	28.88	13.43
111	2007	112	1300	61.97	na	6.505	229.9	17.88	13.43
111	2007	112	1315	60.79	na	6.811	202.5	27	13.45
111	2007	112	1330	59.35	na	7.14	195.4	25.31	13.46
111	2007	112	1345	58.56	na	7.36	200.1	20.66	13.47
111	2007	112	1400	57.52	na	7.44	196.2	22.5	13.47
111	2007	112	1415	57.07	na	7.85	192.6	21.08	13.5
111	2007	112	1430	57.04	na	6.298	195.4	25.15	13.5
111	2007	112	1445	56.97	na	7.22	218.4	19.99	13.51
111	2007	112	1500	56.24	na	6.258	202.6	16.26	13.5
111	2007	112	1515	56.36	na	6.288	216	16.25	13.51
111	2007	112	1530	56.53	na	5.509	220.1	21.71	13.51

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	112	1545	57.04	na	5.624	208.9	25.23	13.51
111	2007	112	1600	57.12	na	5.726	183.2	15.63	13.5
111	2007	112	1615	57.56	na	5.646	192.7	22.14	13.5
111	2007	112	1630	58	na	5.28	204.7	23.46	13.51
111	2007	112	1645	58.45	na	4.686	213.4	24.61	13.51
111	2007	112	1700	58.41	na	4.73	203.9	22.28	13.5
111	2007	112	1715	57.39	na	5.744	189.6	17.54	13.51
111	2007	112	1730	57.34	na	5.151	206.8	25.88	13.52
111	2007	112	1745	56.61	na	5.692	201.7	20.01	13.52
111	2007	112	1800	56.16	na	5.102	198.3	24.13	13.53
111	2007	112	1815	56.28	na	4.764	214.5	21.91	13.55
111	2007	112	1830	55.7	na	4.825	197.2	24.49	13.55
111	2007	112	1845	55.45	na	4.175	207.9	18.93	13.57
111	2007	112	1900	54.75	na	4.243	201.1	20.5	13.57
111	2007	112	1915	54.38	na	3.33	226.8	25.71	13.59
111	2007	112	1930	53.89	na	3.458	196.2	19.53	13.06
111	2007	112	1945	53.2	na	3.072	198.9	18.41	13
111	2007	112	2000	52.67	na	3.028	222.2	18.15	12.95
111	2007	112	2015	52.33	na	2.887	209.7	25.97	12.92
111	2007	112	2030	52.05	na	2.873	228.9	48.45	12.9
111	2007	112	2045	51.69	na	1.577	250.8	20.72	12.88
111	2007	112	2100	51.59	na	1.598	248.2	28.77	12.86
111	2007	112	2115	51.63	na	2.337	199.2	19.52	12.85
111	2007	112	2130	51.57	na	2.49	217.4	29.34	12.84
111	2007	112	2145	51	na	1.816	251.2	16.62	12.83
111	2007	112	2200	50.44	na	1.6	261.3	17.98	12.82
111	2007	112	2215	50.17	na	1.313	274.2	15.69	12.82
111	2007	112	2230	49.81	na	1.445	264.5	16.78	12.81
111	2007	112	2245	50.08	na	2.937	256.3	19.45	12.8
111	2007	112	2300	50.92	na	4.133	265.7	17.41	12.78
111	2007	112	2315	51.18	na	3.338	264.8	16.67	12.79
111	2007	112	2330	51.19	na	2.333	258.7	18.63	12.79
111	2007	112	2345	50.91	na	1.643	249.3	13.76	12.78
111	2007	112	2400	50.12	na	1.995	258.8	14.45	12.77
111	2007	113	15	49.75	na	1.806	248.9	17.79	12.78
111	2007	113	30	50.1	na	1.861	230	17.31	12.77
111	2007	113	45	49.97	na	1.47	248.2	16.62	12.77
111	2007	113	100	49.47	na	1.467	245.4	16.17	12.76
111	2007	113	115	49.39	na	1.645	265.9	26.12	12.76
111	2007	113	130	48.61	na	0.994	288.6	13.71	12.76
111	2007	113	145	47.95	na	0.553	44.47	4.758	12.75
111	2007	113	200	47.46	na	1.172	283	27.16	12.73
111	2007	113	215	46.94	na	0.333	227.8	36.32	12.74
111	2007	113	230	47.02	na	1.418	295.5	14.33	12.74
111	2007	113	245	46.76	na	0.917	303.3	11.57	12.73
111	2007	113	300	46.96	na	0.226	227.8	33.31	12.71
111	2007	113	315	47.52	na	0.501	128.3	22.97	12.72
111	2007	113	330	47.55	na	0.009	313	0	12.71
111	2007	113	345	46.69	na	1.075	284	18.14	12.71
111	2007	113	400	46.61	na	1.501	267.7	19.66	12.69
111	2007	113	415	47.3	na	1.225	243.6	30.66	12.7
111	2007	113	430	47.25	na	1.778	159.6	9.34	12.7
111	2007	113	445	46.71	na	0.854	137.3	7.98	12.69
111	2007	113	500	46.09	na	0.417	295.5	12.51	12.68
111	2007	113	515	45.26	na	0.386	290.5	7.42	12.69
111	2007	113	530	45.07	na	0.06	311.2	2.706	12.68
111	2007	113	545	44.94	na	0.884	306.2	12.18	12.67
111	2007	113	600	44.86	na	0.172	332.7	4.629	12.66
111	2007	113	615	44.74	na	0.091	227.3	2.801	12.67
111	2007	113	630	45.72	na	0.574	299.5	25.84	12.67

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	113	645	47.26	na	0.162	330.2	7.35	12.67
111	2007	113	700	49.31	na	na	na	na	12.66
111	2007	113	715	51.52	na	0.845	222.1	34.24	12.69
111	2007	113	730	53.19	na	1.991	248.8	25.04	12.73
111	2007	113	745	54.77	na	3.414	264.4	18.86	12.76
111	2007	113	800	56.05	na	4.616	266.9	19.38	12.8
111	2007	113	815	57.04	na	5.646	268.7	18.66	12.87
111	2007	113	830	57.9	na	5.71	276.8	21.57	12.92
111	2007	113	845	58.73	na	4.764	267.3	23.49	12.98
111	2007	113	900	58.66	na	6.592	277.1	21.06	13.02
111	2007	113	915	58.67	na	6.99	270.1	20.38	13.09
111	2007	113	930	59.27	na	5.513	265.7	24.38	13.15
111	2007	113	945	59.3	na	5.994	257.3	25.21	13.2
111	2007	113	1000	60.19	na	6.316	264.2	21.84	13.37
111	2007	113	1015	61.13	na	6.233	265.8	20.63	13.5
111	2007	113	1030	60.89	na	6.95	263.5	21.03	13.49
111	2007	113	1045	61.2	na	7.26	262.9	17.49	13.48
111	2007	113	1100	61.39	na	6.545	254.5	22.78	13.47
111	2007	113	1115	62.23	na	5.674	263.7	24.14	13.47
111	2007	113	1130	62.66	na	5.928	257	24.49	13.45
111	2007	113	1145	63.16	na	6.727	256.5	22.79	13.45
111	2007	113	1200	63.82	na	6.419	262.2	26.37	13.45
111	2007	113	1215	63.86	na	6.207	253.2	28.47	13.45
111	2007	113	1230	64.16	na	6.716	262.2	30.59	13.43
111	2007	113	1245	64.49	na	6.66	275.5	24.38	13.44
111	2007	113	1300	64.37	na	7.26	265.2	24.4	13.44
111	2007	113	1315	63.05	na	7.93	265.5	19.58	13.45
111	2007	113	1330	63.7	na	6.823	248.5	26.18	13.45
111	2007	113	1345	64.93	na	6.636	243	23.85	13.45
111	2007	113	1400	64.34	na	6.926	259.9	25.64	13.45
111	2007	113	1415	64.95	na	6.817	256.1	23.03	13.45
111	2007	113	1430	64.66	na	8.09	266.4	25.08	13.45
111	2007	113	1445	64.42	na	8.11	247.6	20.08	13.45
111	2007	113	1500	64.28	na	8.17	259.5	25.35	13.44
111	2007	113	1515	64.17	na	7.79	243.1	28.01	13.45
111	2007	113	1530	62.15	na	8.79	255.2	21.91	13.45
111	2007	113	1545	62.93	na	7.66	251	20.98	13.45
111	2007	113	1600	63.47	na	7.65	261.4	24.76	13.44
111	2007	113	1615	64.12	na	7.13	280.2	24.3	13.45
111	2007	113	1630	64.39	na	8.48	274.7	23.56	13.45
111	2007	113	1645	64.16	na	8.34	271.3	24.55	13.45
111	2007	113	1700	63.2	na	8.17	275.4	20.25	13.45
111	2007	113	1715	63.66	na	8.68	275.4	20.87	13.45
111	2007	113	1730	63.05	na	8.59	270.7	24.78	13.46
111	2007	113	1745	62.52	na	9.99	264.5	20.37	13.47
111	2007	113	1800	61.97	na	11.73	267.4	23.27	13.47
111	2007	113	1815	61.79	na	11.1	273.4	20.49	13.49
111	2007	113	1830	61.91	na	10.3	273	22.36	13.49
111	2007	113	1845	61.54	na	9.77	273.8	23.85	13.51
111	2007	113	1900	60.89	na	11.44	273.3	21.32	13.31
111	2007	113	1915	60.43	na	12.14	272.7	18.96	13.07
111	2007	113	1930	59.99	na	11.59	271.6	22.07	13.01
111	2007	113	1945	59.44	na	11.47	271.9	22.29	12.97
111	2007	113	2000	58.78	na	12.12	275.8	20.2	12.94
111	2007	113	2015	57.67	na	11.04	272.2	21	12.93
111	2007	113	2030	57.24	na	11.02	276.7	22.11	12.92
111	2007	113	2045	56.89	na	11.96	273.4	22.61	12.9
111	2007	113	2100	56.82	na	11.27	271.8	21.11	12.88
111	2007	113	2115	56.93	na	11.89	275.6	25.3	12.88
111	2007	113	2130	57.31	na	12.17	273	19.5	12.88

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	113	2145	57.16	na	10.8	268.2	22.58	12.87
111	2007	113	2200	57.42	na	11.63	262.7	21.2	12.86
111	2007	113	2215	56.26	na	10.95	269.1	22.04	12.86
111	2007	113	2230	55.64	na	11.41	271.6	22.76	12.86
111	2007	113	2245	55.36	na	11.11	268.9	17.98	12.85
111	2007	113	2300	55.02	na	10.36	270.1	20.41	12.83
111	2007	113	2315	54.51	na	10.09	274.8	24.83	12.84
111	2007	113	2330	54.27	na	9.82	273.2	17.83	12.84
111	2007	113	2345	54.13	na	8.72	272.6	23.05	12.83
111	2007	113	2400	54.08	na	8.77	277.2	19.2	12.81
111	2007	114	15	53.93	na	9.39	273.8	22.27	12.82
111	2007	114	30	53.92	na	8.74	273.6	21.39	12.82
111	2007	114	45	53.94	na	7.97	277.1	22.7	12.81
111	2007	114	100	54.02	na	7.56	280	19.03	12.79
111	2007	114	115	54.01	na	7.22	285.3	20.64	12.8
111	2007	114	130	54.15	na	7.21	285.1	17.73	12.79
111	2007	114	145	54.56	na	7.19	278.3	18.53	12.79
111	2007	114	200	54.74	na	6.811	278.9	21.34	12.78
111	2007	114	215	54.91	na	6.268	282.1	20.69	12.78
111	2007	114	230	55.24	na	6.968	283.9	19.24	12.78
111	2007	114	245	55.39	na	5.744	282.3	22.8	12.78
111	2007	114	300	55.91	na	6.223	284	18.04	12.76
111	2007	114	315	56.36	na	5.596	278.3	21.7	12.77
111	2007	114	330	56.33	na	4.626	280.7	19.24	12.77
111	2007	114	345	56.41	na	4.104	284	16.53	12.76
111	2007	114	400	56.19	na	3.04	286.2	16.81	12.75
111	2007	114	415	55.89	na	2.891	284.8	22.81	12.76
111	2007	114	430	56.19	na	3.682	283.8	14.33	12.76
111	2007	114	445	56.7	na	4.253	291.1	14.69	12.75
111	2007	114	500	57.47	na	3.444	293.5	14.01	12.74
111	2007	114	515	59.08	na	4.424	293.8	15.1	12.75
111	2007	114	530	61.08	na	4.378	291.8	15.83	12.75
111	2007	114	545	61.76	na	3.853	298	15.25	12.74
111	2007	114	600	61.85	na	3.279	292	15.78	12.74
111	2007	114	615	61.74	na	2.09	309.7	27.61	12.75
111	2007	114	630	61.11	na	1.383	285.1	23.46	12.75
111	2007	114	645	60.84	na	1.796	327.8	21.39	12.75
111	2007	114	700	62.15	na	1.959	351.9	28.32	12.74
111	2007	114	715	62.84	na	1.917	324.8	31.04	12.74
111	2007	114	730	63.02	na	2.126	315.6	26.72	12.78
111	2007	114	745	65.57	na	3.229	321.3	20.34	12.87
111	2007	114	800	67.58	na	3.442	312.6	30.57	12.87
111	2007	114	815	68.57	na	4.545	324.2	25.92	12.96
111	2007	114	830	69.89	na	4.781	325.3	30.41	13.04
111	2007	114	845	71.1	na	6.097	321.5	28.4	13.14
111	2007	114	900	71.9	na	7.47	332	33.36	13.21
111	2007	114	915	72.4	na	6.191	344.8	35.52	13.27
111	2007	114	930	73	na	6.568	343.1	37.12	13.33
111	2007	114	945	72.8	na	7.86	355.2	29.75	13.38
111	2007	114	1000	73.3	na	6.887	339.9	31.98	13.37
111	2007	114	1015	73.7	na	7.3	335.4	34.26	13.36
111	2007	114	1030	73.8	na	7.18	0.311	37.1	13.35
111	2007	114	1045	72.5	na	8.62	19.25	26.5	13.35
111	2007	114	1100	72.6	na	9.34	14.19	27.35	13.34
111	2007	114	1115	72.7	na	8.07	20.82	29.19	13.35
111	2007	114	1130	72.6	na	7.52	2.422	33.98	13.34
111	2007	114	1145	72.1	na	9.99	17.19	26.7	13.34
111	2007	114	1200	71.8	na	8.73	10.76	32.03	13.34
111	2007	114	1215	71.2	na	8.75	18.72	32.81	13.34
111	2007	114	1230	71.4	na	8.99	14.67	29.22	13.35

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	114	1245	71.6	na	8.2	14.42	31.41	13.35
111	2007	114	1300	72.3	na	7.73	357.2	40.17	13.35
111	2007	114	1315	73.2	na	7.7	341	37.69	13.35
111	2007	114	1330	72.9	na	9.25	344.1	33.65	13.36
111	2007	114	1345	72.9	na	9.34	338.7	35.22	13.36
111	2007	114	1400	73.4	na	9.03	348.7	36.81	13.35
111	2007	114	1415	73.3	na	9.92	352.4	33.5	13.36
111	2007	114	1430	73.7	na	8.17	355.1	30.52	13.36
111	2007	114	1445	74.4	na	8.27	346.8	33.91	13.36
111	2007	114	1500	73.7	na	7.55	19.28	30.68	13.34
111	2007	114	1515	74	na	8.41	23.26	31.2	13.35
111	2007	114	1530	73.6	na	7.94	19.92	27.64	13.35
111	2007	114	1545	73.7	na	7.46	6.053	34.53	13.35
111	2007	114	1600	73.6	na	7.74	10.6	34.01	13.34
111	2007	114	1615	73.5	na	7.11	17.44	31.88	13.35
111	2007	114	1630	73.5	na	7.71	6.195	31.59	13.35
111	2007	114	1645	73.1	na	8.96	26.8	22.86	13.36
111	2007	114	1700	73.2	na	7.68	22.64	28.37	13.35
111	2007	114	1715	73.3	na	6.135	19.72	42.03	13.36
111	2007	114	1730	73.3	na	6.578	22.31	34.26	13.36
111	2007	114	1745	72.9	na	7.41	22.89	31.86	13.36
111	2007	114	1800	72.4	na	7.18	15.13	28.47	13.36
111	2007	114	1815	71.9	na	7.15	6.688	31.95	13.38
111	2007	114	1830	71.7	na	5.563	21.62	29.66	13.39
111	2007	114	1845	71.2	na	5.966	14.25	32.01	13.4
111	2007	114	1900	70.5	na	6.306	8.38	29.01	13.41
111	2007	114	1915	69.94	na	5.529	11.42	28.42	13.31
111	2007	114	1930	69.3	na	4.44	6.453	31.87	13.05
111	2007	114	1945	68.7	na	3.617	348.3	31.71	13
111	2007	114	2000	67.96	na	2.605	338.1	29.76	12.96
111	2007	114	2015	67.32	na	3.076	352.7	37.04	12.95
111	2007	114	2030	66.67	na	2.921	350.9	31.69	12.93
111	2007	114	2045	66.16	na	4.102	3.824	26.76	12.91
111	2007	114	2100	65.52	na	3.79	11.34	24.39	12.89
111	2007	114	2115	64.86	na	4.33	23.41	24.97	12.89
111	2007	114	2130	64.32	na	4.448	12.58	28.56	12.88
111	2007	114	2145	64.08	na	4.907	13.92	25.68	12.88
111	2007	114	2200	63.54	na	4.336	22.7	26.27	12.86
111	2007	114	2215	62.88	na	3.889	16.72	25.55	12.86
111	2007	114	2230	62.09	na	2.688	38.73	20.24	12.85
111	2007	114	2245	61.28	na	2.947	51.59	22.31	12.84
111	2007	114	2300	60.52	na	3.309	68.49	16.16	12.82
111	2007	114	2315	59.68	na	3.422	67.69	17.52	12.83
111	2007	114	2330	58.95	na	3.511	80.1	21.42	12.82
111	2007	114	2345	58.39	na	3.438	66.62	17.09	12.82
111	2007	114	2400	57.95	na	3.223	61.09	17.74	12.8
111	2007	115	15	57.3	na	3.336	50.52	17.82	12.8
111	2007	115	30	56.52	na	2.611	53.86	16.8	12.8
111	2007	115	45	55.92	na	2.923	54.08	13.86	12.8
111	2007	115	100	55.43	na	3.022	53.96	14.71	12.78
111	2007	115	115	55.01	na	2.531	52.61	16.09	12.78
111	2007	115	130	54.96	na	3.444	51.77	16.55	12.78
111	2007	115	145	54.64	na	3.076	61.76	17.36	12.77
111	2007	115	200	54.3	na	2.442	76.6	22.63	12.76
111	2007	115	215	53.81	na	1.672	98.5	20.91	12.76
111	2007	115	230	53.3	na	2.327	65.45	13.17	12.76
111	2007	115	245	52.78	na	2.998	65.29	16.44	12.75
111	2007	115	300	52.6	na	3.163	59.87	18.44	12.74
111	2007	115	315	52.25	na	2.362	48.46	23.55	12.74
111	2007	115	330	51.9	na	1.647	68.1	28.42	12.74

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	115	345	51.39	na	1.573	44.79	25.15	12.73
111	2007	115	400	50.32	na	0.754	207.5	34.8	12.71
111	2007	115	415	49.07	na	0.82	293.3	55.81	12.71
111	2007	115	430	48.5	na	1.564	6.8	17.8	12.71
111	2007	115	445	47.87	na	1.11	350.1	20.58	12.71
111	2007	115	500	47.57	na	1.29	37.21	9.45	12.69
111	2007	115	515	47.61	na	1.903	34.41	20.86	12.69
111	2007	115	530	48.77	na	1.92	40.93	21.63	12.69
111	2007	115	545	48.74	na	1.583	32.52	20.35	12.68
111	2007	115	600	49.02	na	2.549	57.58	19.62	12.67
111	2007	115	615	49.24	na	2.565	54.2	17.12	12.67
111	2007	115	630	49.4	na	3.758	48.69	18.4	12.67
111	2007	115	645	49.93	na	3.957	64.16	15.84	12.67
111	2007	115	700	50.67	na	4.44	55.6	15.9	12.67
111	2007	115	715	51.4	na	5.773	59.46	19.58	12.7
111	2007	115	730	51.73	na	6.565	63.41	18.19	12.74
111	2007	115	745	52.29	na	6.578	74.9	17.2	12.8
111	2007	115	800	52.75	na	6.692	70.3	17.19	12.86
111	2007	115	815	53.92	na	5.427	70.2	24.54	12.93
111	2007	115	830	54.54	na	6.076	69.59	17.61	13.02
111	2007	115	845	55.51	na	6.477	73.3	21.86	13.6
111	2007	115	900	56.57	na	4.613	82.8	27.05	13.58
111	2007	115	915	57.2	na	4.591	100.5	23.01	13.58
111	2007	115	930	58.32	na	5.316	135.2	29.47	13.56
111	2007	115	945	58.33	na	5.489	155.2	28	13.55
111	2007	115	1000	57.91	na	5.282	166	27.37	13.52
111	2007	115	1015	58.94	na	4.992	145.2	28.93	13.52
111	2007	115	1030	59.28	na	5.962	138.7	22.66	13.51
111	2007	115	1045	60.14	na	7.29	149.2	28.04	13.5
111	2007	115	1100	59.92	na	9.02	167.5	17.8	13.49
111	2007	115	1115	60.07	na	9.9	154.3	19.6	13.49
111	2007	115	1130	59.36	na	10.36	154.6	17.55	13.5
111	2007	115	1145	58.92	na	10.83	154.4	16.83	13.5
111	2007	115	1200	58.65	na	10.38	152.8	16.86	13.5
111	2007	115	1215	58.15	na	11.14	152.2	17.67	13.51
111	2007	115	1230	57.87	na	10.07	163.6	23.67	13.51
111	2007	115	1245	57.91	na	10.11	162.9	18.75	13.51
111	2007	115	1300	57.73	na	11.13	150.3	21.96	13.51
111	2007	115	1315	58.06	na	9.71	150.5	16.66	13.52
111	2007	115	1330	57.88	na	10.26	141.2	16.86	13.52
111	2007	115	1345	57.44	na	10.1	134.5	17.63	13.51
111	2007	115	1400	57.24	na	10.14	144.6	18.22	13.52
111	2007	115	1415	57.15	na	9.1	158.1	21.82	13.53
111	2007	115	1430	56.44	na	10.64	141.3	19.82	13.53
111	2007	115	1445	55.89	na	11.04	148.6	16.6	13.54
111	2007	115	1500	55.26	na	9.5	157.6	20.38	13.54
111	2007	115	1515	54.2	na	8.21	162	19.3	13.56
111	2007	115	1530	53.11	na	8.69	162.3	19.69	13.13
111	2007	115	1545	52.6	na	7.58	155.9	15.93	13.09
111	2007	115	1600	52.26	na	8.46	143.3	14.71	13.01
111	2007	115	1615	52.2	na	8.01	145.7	18.22	13.02
111	2007	115	1630	52.44	na	6.751	136.6	17.78	12.99
111	2007	115	1645	52.69	na	6.833	142.3	19.15	13.62
111	2007	115	1700	52.8	na	6.33	141.6	17.78	13.25
111	2007	115	1715	52.82	na	7.13	131.7	19.28	13.25
111	2007	115	1730	52.63	na	7.08	127.8	14.11	13.06
111	2007	115	1745	51.94	na	6.06	121.4	20.74	12.98
111	2007	115	1800	50.81	na	5.487	115.9	17.33	12.92
111	2007	115	1815	49.69	na	4.722	98.3	19.77	12.91
111	2007	115	1830	48.53	na	3.817	82	21.44	12.88

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	115	1845	47.88	na	3.855	99.4	18.98	12.87
111	2007	115	1900	47.48	na	3.877	81.4	19.21	12.84
111	2007	115	1915	47.07	na	3.688	73.2	29.18	12.85
111	2007	115	1930	46.64	na	4.43	73.1	45.07	12.84
111	2007	115	1945	45.88	na	3.1	76.7	24.62	12.82
111	2007	115	2000	45.97	na	4.394	91.8	17.05	12.81
111	2007	115	2015	45.97	na	5.096	92.6	19.57	12.81
111	2007	115	2030	45.94	na	7.3	85.3	15.37	12.81
111	2007	115	2045	45.53	na	7.78	97.6	16.75	12.81
111	2007	115	2100	45.32	na	6.765	99.6	22.98	12.79
111	2007	115	2115	45.28	na	5.443	97.8	19.69	12.79
111	2007	115	2130	45.48	na	5.648	79.1	18.81	12.79
111	2007	115	2145	45.45	na	5.318	81.8	18.24	12.79
111	2007	115	2200	45.29	na	4.939	91.1	20.56	12.77
111	2007	115	2215	45.25	na	4.805	89.1	16.44	12.77
111	2007	115	2230	45.17	na	4.71	89.7	16.25	12.77
111	2007	115	2245	45.25	na	4.881	78.6	17.69	12.77
111	2007	115	2300	45.21	na	4.875	85.8	20.29	12.75
111	2007	115	2315	45.26	na	3.724	97.9	22.47	12.75
111	2007	115	2330	45.4	na	4.39	77.5	20.92	12.75
111	2007	115	2345	45.63	na	4.909	81.5	21.11	12.74
111	2007	115	2400	45.72	na	4.451	85.6	17.28	12.72
111	2007	116	15	45.99	na	3.798	79.2	22.49	12.73
111	2007	116	30	46.19	na	4.346	78.7	17.85	12.72
111	2007	116	45	46.19	na	4.394	81.3	22.23	12.71
111	2007	116	100	45.94	na	4.43	107.2	23.11	12.7
111	2007	116	115	45.58	na	3.448	81.9	19.09	12.7
111	2007	116	130	45.42	na	2.824	95.2	16.31	12.69
111	2007	116	145	45.16	na	2.802	91	13.55	12.69
111	2007	116	200	45	na	3.368	78.9	17.12	12.67
111	2007	116	215	44.82	na	3.442	78.4	21.95	12.67
111	2007	116	230	44.61	na	2.897	92.8	17.05	12.67
111	2007	116	245	44.55	na	1.38	90.5	14.91	12.67
111	2007	116	300	44.63	na	1.154	91.1	20.35	12.65
111	2007	116	315	44.68	na	2.48	108.6	25.49	12.66
111	2007	116	330	44.5	na	1.884	104.7	14.28	12.66
111	2007	116	345	44.23	na	1.4	48.7	28.82	12.65
111	2007	116	400	43.9	na	1.703	39.03	27.86	12.64
111	2007	116	415	43.77	na	1.804	56.76	11.13	12.65
111	2007	116	430	43.85	na	1.808	74.5	16.67	12.65
111	2007	116	445	43.98	na	1.979	66.68	22.8	12.65
111	2007	116	500	44.17	na	2.086	73.6	18.49	12.63
111	2007	116	515	44.17	na	1.783	52.8	30.05	12.65
111	2007	116	530	43.91	na	0.196	308.9	10.21	12.65
111	2007	116	545	43.8	na	0.728	37.41	19.62	12.64
111	2007	116	600	43.74	na	2.217	73	8.3	12.63
111	2007	116	615	43.76	na	1.76	58.3	21.06	12.65
111	2007	116	630	43.82	na	1.836	63.72	16.41	12.64
111	2007	116	645	44.14	na	1.669	69.89	23.57	12.65
111	2007	116	700	44.72	na	2.737	64.36	21.59	12.69
111	2007	116	715	45.34	na	2.629	66.23	23.5	12.93
111	2007	116	730	46.32	na	3.527	58.67	18.39	13.28
111	2007	116	745	46.57	na	4.491	77.4	23.7	13.73
111	2007	116	800	46.71	na	3.696	51.65	34.06	13.59
111	2007	116	815	46.83	na	3.249	54.76	26.16	13.68
111	2007	116	830	47.72	na	4.191	56.89	29.16	13.7
111	2007	116	845	47.96	na	4.919	94.1	16.27	13.7
111	2007	116	900	49.19	na	4.65	77	22.59	13.68
111	2007	116	915	50.14	na	4.096	82.6	28.21	13.66
111	2007	116	930	50.46	na	4.666	89.9	19.78	13.65

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	116	945	51.21	na	3.847	133.9	37.75	13.64
111	2007	116	1000	51.56	na	5.404	123.6	29.55	13.62
111	2007	116	1015	52.41	na	5.264	163.4	22.44	13.62
111	2007	116	1030	52.73	na	6.141	192.9	23.56	13.6
111	2007	116	1045	53.29	na	6.089	201.7	29.18	13.59
111	2007	116	1100	53.16	na	6.459	186.5	22.52	13.58
111	2007	116	1115	52.28	na	6.974	210.2	26.48	13.59
111	2007	116	1130	52.78	na	6.183	195.6	25.53	13.58
111	2007	116	1145	51.86	na	7.04	198.9	24.46	13.58
111	2007	116	1200	50.99	na	7.55	195.8	29.04	13.58
111	2007	116	1215	51.22	na	7.63	172.7	23.47	13.59
111	2007	116	1230	51.61	na	8.18	182.4	19.63	13.59
111	2007	116	1245	51.91	na	8.46	185.2	21.08	13.58
111	2007	116	1300	51.9	na	8.13	183.2	19.92	13.59
111	2007	116	1315	52	na	7.91	187	27.34	13.6
111	2007	116	1330	51.67	na	6.938	182.1	24.61	13.6
111	2007	116	1345	51.32	na	7.45	192.7	24.73	13.6
111	2007	116	1400	50.86	na	6.787	203.7	27.66	13.59
111	2007	116	1415	50.53	na	6.578	205.3	29.99	13.6
111	2007	116	1430	50.19	na	6.364	193.4	29.62	13.6
111	2007	116	1445	50.15	na	7.03	185.1	24.39	13.6
111	2007	116	1500	49.33	na	8.68	179.1	24.81	13.6
111	2007	116	1515	49.39	na	6.922	189.8	24.84	13.62
111	2007	116	1530	49.82	na	7.01	207.8	25.98	13.61
111	2007	116	1545	49.61	na	6.992	199.1	26.85	13.61
111	2007	116	1600	49.35	na	6.972	209.3	23.41	13.6
111	2007	116	1615	48.86	na	6.829	202.2	23.64	13.63
111	2007	116	1630	49.03	na	6.382	186.5	26.96	13.63
111	2007	116	1645	48.93	na	6.674	193.1	21.46	13.64
111	2007	116	1700	48.69	na	5.883	211.3	25.82	13.64
111	2007	116	1715	48.92	na	5.501	200.4	26.99	13.65
111	2007	116	1730	48.87	na	6.288	196.5	19.61	13.64
111	2007	116	1745	48.42	na	5.298	190.1	21.06	13.66
111	2007	116	1800	48.56	na	5.765	174.3	26.32	13.65
111	2007	116	1815	48.34	na	5.628	173.2	21.12	13.4
111	2007	116	1830	48.28	na	5.626	161.9	21.99	13.26
111	2007	116	1845	48.47	na	5.008	171	26.12	13.68
111	2007	116	1900	48.66	na	6.064	154.3	18.84	13.46
111	2007	116	1915	48.62	na	6.372	147.9	15.99	13.1
111	2007	116	1930	48.5	na	6.282	157.7	17.16	13.03
111	2007	116	1945	48.37	na	6.239	158.6	15.29	12.98
111	2007	116	2000	48.03	na	6.833	167	17.91	12.94
111	2007	116	2015	47.85	na	7.57	173.1	16.09	12.92
111	2007	116	2030	47.65	na	7.48	173	17.98	12.9
111	2007	116	2045	47.58	na	6.797	181.2	20.28	12.89
111	2007	116	2100	47.29	na	7.21	178.5	18.4	12.87
111	2007	116	2115	47.13	na	7.42	182.8	19.09	12.87
111	2007	116	2130	47.07	na	7.13	181.4	17.69	12.86
111	2007	116	2145	47.18	na	6.988	172.2	18.36	12.86
111	2007	116	2200	47.01	na	8.77	165	14.52	12.84
111	2007	116	2215	46.91	na	7.29	165.6	19.22	12.84
111	2007	116	2230	46.89	na	6.863	167.2	20.15	12.84
111	2007	116	2245	47.15	na	7.25	169.4	20.91	12.84
111	2007	116	2300	47.24	na	6.632	175.8	23.77	12.82
111	2007	116	2315	47.28	na	5.988	165.7	20.2	12.82
111	2007	116	2330	47.22	na	5.698	149.6	18.85	12.83
111	2007	116	2345	47.18	na	5.28	146.4	14.69	12.82
111	2007	116	2400	47.22	na	4.173	161.4	18.65	12.81
111	2007	117	15	47.69	na	6.121	166.7	19.16	12.82
111	2007	117	30	47.75	na	7.1	163.6	18.75	12.81

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	117	45	47.82	na	6.867	160.7	17.14	12.81
111	2007	117	100	47.99	na	7.23	160.8	20.4	12.8
111	2007	117	115	48.09	na	6.34	151.8	17.77	12.8
111	2007	117	130	48.04	na	6.364	152.7	13.78	12.8
111	2007	117	145	48.2	na	7.07	148.1	14.76	12.8
111	2007	117	200	48.27	na	7.21	149.7	18.79	12.78
111	2007	117	215	47.95	na	5.569	140	19.22	12.78
111	2007	117	230	47.84	na	4.992	136.1	17.57	12.78
111	2007	117	245	47.91	na	5.394	134.8	22.71	12.77
111	2007	117	300	48.12	na	5.893	127.6	27.2	12.76
111	2007	117	315	48.39	na	5.354	99.2	21.74	12.76
111	2007	117	330	48.33	na	6.183	94.2	17.96	12.76
111	2007	117	345	48.01	na	5.59	120.6	38.65	12.75
111	2007	117	400	48.25	na	5.42	122.4	28.42	12.73
111	2007	117	415	48.95	na	7.82	121.5	23.2	12.74
111	2007	117	430	48.72	na	8.93	112.6	18.65	12.73
111	2007	117	445	48.41	na	7.49	125.5	19.03	12.72
111	2007	117	500	48.27	na	6.741	23.92	72.3	12.71
111	2007	117	515	47.63	na	4.7	16.9	40.7	12.71
111	2007	117	530	46.62	na	5.453	45.54	18.13	12.7
111	2007	117	545	46.06	na	5.551	78.3	18.91	12.7
111	2007	117	600	46.05	na	5.227	88.5	18.33	12.69
111	2007	117	615	46.25	na	4.233	81.8	28.08	12.69
111	2007	117	630	46.42	na	4.175	97.3	21.1	12.69
111	2007	117	645	46.64	na	4.344	104.3	15.69	12.68
111	2007	117	700	46.98	na	3.625	96.1	21.99	12.66
111	2007	117	715	47.31	na	4.338	100.4	16.82	12.68
111	2007	117	730	47.55	na	3.547	96.5	25.29	12.68
111	2007	117	745	47.84	na	4	86.4	20.64	12.76
111	2007	117	800	48.12	na	3.599	104.7	25.64	12.88
111	2007	117	815	48.52	na	2.657	98.3	27.35	13.27
111	2007	117	830	48.98	na	3.402	86.2	21.35	13.32
111	2007	117	845	49.24	na	2.396	358.1	59.2	13.22
111	2007	117	900	49.58	na	3.625	22.82	16.38	13.09
111	2007	117	915	49.55	na	3.851	42.71	26.25	13.15
111	2007	117	930	49.69	na	2.996	47.07	28.87	13.3
111	2007	117	945	49.85	na	1.847	51.2	28.61	13.11
111	2007	117	1000	49.9	na	1.901	326.2	39.44	13.06
111	2007	117	1015	50.12	na	2.275	6.889	31.91	13.11
111	2007	117	1030	50.04	na	4.575	44.46	17.43	13.1
111	2007	117	1045	49.97	na	3.509	80.1	22.76	13.66
111	2007	117	1100	50.2	na	3.714	101.8	36.96	13.4
111	2007	117	1115	50.56	na	4.4	164	16.35	13.66
111	2007	117	1130	51.36	na	2.613	153.7	28.96	13.65
111	2007	117	1145	52.34	na	1.688	130.5	64.61	13.63
111	2007	117	1200	52.87	na	2.345	205.2	30.54	13.28
111	2007	117	1215	52.64	na	2.804	210.9	37.8	13.2
111	2007	117	1230	52.55	na	2.036	226.5	30.79	13.22
111	2007	117	1245	52.46	na	1.337	222.5	29.87	13.1
111	2007	117	1300	52.54	na	2.611	171.2	35.79	13.03
111	2007	117	1315	52.51	na	3.485	142.1	16.2	13.63
111	2007	117	1330	52.98	na	4.469	177.6	19.88	13.62
111	2007	117	1345	53.69	na	4.352	173.6	20.86	13.61
111	2007	117	1400	53.45	na	5.404	194.2	21.61	13.61
111	2007	117	1415	52.9	na	4.656	217.4	21.49	13.61
111	2007	117	1430	52.81	na	3.547	224.7	21.26	13.61
111	2007	117	1445	52.65	na	2.411	259	31.54	13.2
111	2007	117	1500	52.63	na	2.098	242.2	18.75	13.09
111	2007	117	1515	52.58	na	1.928	193	36.31	13.04
111	2007	117	1530	52.65	na	3.316	205.3	22.15	13

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	117	1545	51.99	na	3.418	195.1	28	12.96
111	2007	117	1600	51.76	na	4.404	154.8	30.15	12.95
111	2007	117	1615	51.91	na	3.311	177.4	38.52	12.98
111	2007	117	1630	51.73	na	3.328	211.7	30.26	13.07
111	2007	117	1645	51.38	na	2.41	81.2	71.9	13.05
111	2007	117	1700	52.01	na	1.846	46.85	70.1	13.63
111	2007	117	1715	52.75	na	2.052	165.8	36.39	13.2
111	2007	117	1730	52.74	na	3.409	205.1	20.81	13.08
111	2007	117	1745	52.33	na	2.339	241.6	50.17	13
111	2007	117	1800	52.18	na	2.784	213.9	18.88	13.5
111	2007	117	1815	52.35	na	2.51	189	36.45	13.12
111	2007	117	1830	52.26	na	2.18	244.1	33.65	13.07
111	2007	117	1845	51.87	na	3.35	223	27.15	13
111	2007	117	1900	51.51	na	2.066	256.7	20.74	12.94
111	2007	117	1915	51.68	na	2.142	347.6	41.62	12.91
111	2007	117	1930	52.05	na	1.937	25.61	27.13	12.89
111	2007	117	1945	52.55	na	1.973	94.1	40.2	12.88
111	2007	117	2000	52.74	na	2.225	93.7	17.6	12.86
111	2007	117	2015	52.95	na	2.772	93.4	45.03	12.85
111	2007	117	2030	53.04	na	2.885	60.92	24.61	12.85
111	2007	117	2045	52.97	na	2.621	121.5	36.61	12.84
111	2007	117	2100	53.09	na	1.977	82	39.06	12.82
111	2007	117	2115	53.14	na	1.879	50.62	21.27	12.82
111	2007	117	2130	53	na	2.02	89.8	35.07	12.81
111	2007	117	2145	53.07	na	1.504	124.3	29.21	12.8
111	2007	117	2200	53.17	na	2.053	57.46	27.61	12.78
111	2007	117	2215	53.15	na	1.799	123.8	53.97	12.77
111	2007	117	2230	53.26	na	1.527	222	72.9	12.77
111	2007	117	2245	53.34	na	2.511	4.693	28.54	12.76
111	2007	117	2300	53.03	na	4.151	20.61	23.36	12.74
111	2007	117	2315	52.76	na	4.221	26.12	17.43	12.74
111	2007	117	2330	52.68	na	3.454	29.2	21.29	12.74
111	2007	117	2345	52.84	na	2.68	21.8	22.54	12.73
111	2007	117	2400	52.91	na	1.155	45.5	31.03	12.72
111	2007	118	15	52.94	na	1.755	47.48	19.65	12.72
111	2007	118	30	52.92	na	2.69	32.74	21.4	12.72
111	2007	118	45	53.02	na	1.361	38.08	28.72	12.71
111	2007	118	100	53.1	na	2.342	26.73	45.73	12.69
111	2007	118	115	53.01	na	3.066	356.2	36.21	12.71
111	2007	118	130	52.9	na	2.983	6.097	29.81	12.7
111	2007	118	145	52.87	na	2.68	356.9	32.64	12.7
111	2007	118	200	52.92	na	2.931	354.2	31.64	12.69
111	2007	118	215	52.89	na	4.279	1.862	29.8	12.7
111	2007	118	230	52.89	na	3.253	13.86	30.71	12.7
111	2007	118	245	52.98	na	1.905	346.2	51.64	12.7
111	2007	118	300	53.1	na	1.387	349.5	41.03	12.69
111	2007	118	315	53.23	na	1.646	352.5	28.41	12.7
111	2007	118	330	53.31	na	2.467	348.3	31.29	12.7
111	2007	118	345	53.42	na	2.271	331.5	31.34	12.7
111	2007	118	400	53.54	na	2.227	310.2	25.27	12.69
111	2007	118	415	53.53	na	0.89	8.03	21.28	12.7
111	2007	118	430	53.34	na	0.304	174.7	11.06	12.7
111	2007	118	445	53.32	na	0.027	165.4	0.03	12.7
111	2007	118	500	53.27	na	0.451	274	5.052	12.69
111	2007	118	515	53.23	na	0.709	309.7	26.16	12.7
111	2007	118	530	53.21	na	0	0	0	12.7
111	2007	118	545	53.17	na	1.331	284	50.25	12.7
111	2007	118	600	53.06	na	1.001	275.2	33.17	12.68
111	2007	118	615	53	na	1.226	280.5	18.78	12.7
111	2007	118	630	52.98	na	1.01	297.7	16.99	12.7

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	118	645	53.16	na	0.159	296.5	6.474	12.7
111	2007	118	700	53.26	na	0.5	228.1	19.22	12.68
111	2007	118	715	53.46	na	0.159	279.2	15.39	12.7
111	2007	118	730	53.82	na	1.021	251.7	31.7	12.82
111	2007	118	745	54.51	na	1.198	293.2	44.15	12.95
111	2007	118	800	54.96	na	2.074	292.4	21.28	13.12
111	2007	118	815	56.07	na	2.541	330.5	44.08	13.22
111	2007	118	830	56.62	na	3.225	344.3	24.92	13.24
111	2007	118	845	57.87	na	3.229	328.4	27.59	13.25
111	2007	118	900	59.22	na	3.98	357.9	35.56	13.26
111	2007	118	915	60.5	na	4.418	331.7	31.65	13.36
111	2007	118	930	61.67	na	4.189	333	38.95	13.43
111	2007	118	945	62.25	na	4.292	5.325	39.85	13.48
111	2007	118	1000	63.2	na	3.027	1.492	50.03	13.46
111	2007	118	1015	62.66	na	5.507	151	77.3	13.45
111	2007	118	1030	59.82	na	6.507	192.2	14.15	13.45
111	2007	118	1045	60.41	na	6.763	215.3	17.85	13.46
111	2007	118	1100	59.44	na	6.318	214.3	18.23	13.46
111	2007	118	1115	59.38	na	6.898	207.7	19.57	13.47
111	2007	118	1130	59.59	na	6.328	213.2	24.83	13.47
111	2007	118	1145	60.62	na	6.217	202.6	23.26	13.45
111	2007	118	1200	60.29	na	6.237	200.6	22.23	13.45
111	2007	118	1215	61.17	na	5.944	221.9	29.77	13.45
111	2007	118	1230	62.18	na	6.539	235.1	23.65	13.45
111	2007	118	1245	61.89	na	6.306	263.1	26.15	13.46
111	2007	118	1300	59.48	na	4.921	246.3	21.69	13.47
111	2007	118	1315	59.51	na	5.239	265.9	21.93	13.49
111	2007	118	1330	61.38	na	6.364	267.9	23.89	13.47
111	2007	118	1345	62.84	na	6.31	270.6	25.09	13.47
111	2007	118	1400	62.28	na	6.841	273.1	24.38	13.47
111	2007	118	1415	60.56	na	7.61	264.2	20.27	13.48
111	2007	118	1430	61.29	na	8.1	272.5	24.86	13.47
111	2007	118	1445	62.55	na	7.93	274.4	20.29	13.47
111	2007	118	1500	62.9	na	8.42	270.7	22.58	13.47
111	2007	118	1515	62.85	na	9.74	268.1	20.11	13.47
111	2007	118	1530	63.44	na	7.17	264.4	22.48	13.47
111	2007	118	1545	63.72	na	6.409	267.8	25.51	13.47
111	2007	118	1600	63.53	na	7.69	263.2	23.74	13.45
111	2007	118	1615	63.59	na	7.74	269.8	22.66	13.47
111	2007	118	1630	63.13	na	7.22	274.1	20.36	13.47
111	2007	118	1645	63.04	na	7.61	269.3	21.43	13.47
111	2007	118	1700	62.49	na	7.62	264.8	22.69	13.47
111	2007	118	1715	61.01	na	7.04	263.9	19.53	13.49
111	2007	118	1730	59.9	na	6.885	268.5	22.64	13.5
111	2007	118	1745	60.8	na	6.873	271.6	20.2	13.5
111	2007	118	1800	60.16	na	7.1	283.1	20.37	13.51
111	2007	118	1815	60.11	na	7.47	276.9	21.33	13.51
111	2007	118	1830	59.91	na	6.109	273.9	22.42	13.31
111	2007	118	1845	59.99	na	5.384	276.7	20.45	13.11
111	2007	118	1900	59.19	na	5.207	265.9	20.07	13.04
111	2007	118	1915	58.1	na	5.239	280.2	21.16	13.22
111	2007	118	1930	58.12	na	3.356	274.6	18.59	13.03
111	2007	118	1945	58.04	na	2.187	273.2	21.82	12.98
111	2007	118	2000	57.88	na	1.506	294.1	17.97	12.94
111	2007	118	2015	59.86	na	3.835	321.9	26.11	12.92
111	2007	118	2030	61.79	na	4.463	322.5	23.95	12.91
111	2007	118	2045	61.66	na	3.185	333.7	25.84	12.9
111	2007	118	2100	61.05	na	3.028	344.3	28.6	12.88
111	2007	118	2115	60.4	na	2.686	359.5	26.48	12.88
111	2007	118	2130	60.23	na	2.969	2.956	27.27	12.88

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	118	2145	60.05	na	2.907	354.6	26.81	12.88
111	2007	118	2200	59.97	na	3.428	346.9	31.89	12.86
111	2007	118	2215	59.9	na	3.523	346.1	26.01	12.87
111	2007	118	2230	59.76	na	3.412	354.2	28.15	12.86
111	2007	118	2245	59.69	na	2.704	352.5	26.17	12.86
111	2007	118	2300	59.52	na	3.794	341.7	25.78	12.85
111	2007	118	2315	59.32	na	3.207	347.5	27.11	12.86
111	2007	118	2330	59.13	na	3.523	344.7	25.75	12.86
111	2007	118	2345	59.23	na	4.587	346	35.93	12.85
111	2007	118	2400	59.22	na	4.37	341.2	30.41	12.84
111	2007	119	15	59.14	na	3.402	342.3	34.43	12.85
111	2007	119	30	58.92	na	2.517	327.7	26.9	12.84
111	2007	119	45	58.7	na	2.313	334.5	25.72	12.84
111	2007	119	100	58.44	na	2.521	298.9	15.55	12.83
111	2007	119	115	58.17	na	2.643	291.3	13.78	12.84
111	2007	119	130	58.02	na	3.124	301.7	14.92	12.84
111	2007	119	145	57.9	na	2.957	306.8	18.19	12.83
111	2007	119	200	57.84	na	2.623	320.6	28.37	12.82
111	2007	119	215	57.77	na	2.257	334.7	27.86	12.82
111	2007	119	230	57.6	na	1.686	359.1	28.62	12.82
111	2007	119	245	57.4	na	2.062	356.1	31.66	12.82
111	2007	119	300	57.28	na	1.98	334.3	22	12.8
111	2007	119	315	57.19	na	2.253	331	24.52	12.8
111	2007	119	330	56.9	na	2.183	340.2	31.75	12.8
111	2007	119	345	56.52	na	1.844	346.6	24.55	12.79
111	2007	119	400	56.28	na	2.432	10	24.2	12.78
111	2007	119	415	56.14	na	2.603	9.41	20.91	12.78
111	2007	119	430	55.74	na	2.404	3.21	29.87	12.78
111	2007	119	445	55.4	na	2.126	353.2	33.88	12.77
111	2007	119	500	55.14	na	2.224	24.3	28.15	12.76
111	2007	119	515	55.03	na	2.38	23.77	31.4	12.76
111	2007	119	530	54.85	na	2.285	11.91	26.74	12.75
111	2007	119	545	54.79	na	1.517	357.9	32.18	12.74
111	2007	119	600	54.72	na	1.081	34.71	32.01	12.73
111	2007	119	615	54.57	na	1.087	314.2	13.67	12.74
111	2007	119	630	54.44	na	1.086	49.34	19.58	12.73
111	2007	119	645	54.49	na	0.832	50.38	20.32	12.72
111	2007	119	700	54.57	na	0.836	355.4	21.38	12.71
111	2007	119	715	54.64	na	1.422	320.2	19.37	12.72
111	2007	119	730	54.69	na	1.537	317.2	18.73	12.72
111	2007	119	745	54.56	na	2.732	332.3	28.67	12.78
111	2007	119	800	54.53	na	1.48	337	28.82	12.92
111	2007	119	815	54.94	na	1.733	349.7	39.91	13.1
111	2007	119	830	55.44	na	2.436	338.8	34.35	13.55
111	2007	119	845	56.13	na	2.68	334.5	39.22	13.6
111	2007	119	900	56.97	na	3.209	354.1	40.81	13.58
111	2007	119	915	57.16	na	4.328	327.5	34.26	13.58
111	2007	119	930	57.29	na	5.068	359.9	42.1	13.57
111	2007	119	945	57.16	na	5.155	5.573	35.22	13.57
111	2007	119	1000	57.56	na	4.442	11.88	26.8	13.55
111	2007	119	1015	57.95	na	5.296	357.3	33.46	13.55
111	2007	119	1030	57.98	na	5.435	324.9	30.53	13.55
111	2007	119	1045	58.76	na	4.662	348.2	39.57	13.54
111	2007	119	1100	58.73	na	5.692	358.7	33.05	13.53
111	2007	119	1115	58.69	na	5.616	9.84	24.89	13.53
111	2007	119	1130	59.11	na	5.531	345.1	33.46	13.53
111	2007	119	1145	59.15	na	5.394	354.3	36.11	13.52
111	2007	119	1200	59.32	na	5.451	347.9	38.57	13.51
111	2007	119	1215	59.67	na	5.157	341.9	36	13.52
111	2007	119	1230	59.96	na	6.242	349.5	37.71	13.51

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	119	1245	60.45	na	6.451	348.8	39.73	13.5
111	2007	119	1300	60.65	na	7.04	359.7	35.34	13.49
111	2007	119	1315	60.86	na	6.207	12.25	32.91	13.49
111	2007	119	1330	61.29	na	6.141	3.646	37.05	13.49
111	2007	119	1345	61.92	na	6.087	356.9	39.15	13.49
111	2007	119	1400	63.05	na	7.44	347	28.79	13.47
111	2007	119	1415	63.18	na	7.21	349.9	37.68	13.47
111	2007	119	1430	62.86	na	5.797	351.4	37.81	13.47
111	2007	119	1445	62.91	na	6.574	358.3	33.65	13.48
111	2007	119	1500	63.3	na	8.25	14.72	35.22	13.46
111	2007	119	1515	63.39	na	9.09	15.73	27.04	13.47
111	2007	119	1530	63.64	na	7.39	24.89	27.14	13.46
111	2007	119	1545	63.62	na	8.55	26.48	22.68	13.45
111	2007	119	1600	63.22	na	9.35	26.99	21.85	13.45
111	2007	119	1615	62.15	na	8.86	18.37	27.58	13.47
111	2007	119	1630	61.65	na	8.06	16.96	27.27	13.49
111	2007	119	1645	61.24	na	7.51	10.46	26.2	13.49
111	2007	119	1700	60.79	na	6.968	6.035	26.11	13.49
111	2007	119	1715	61.49	na	7.74	15.57	32.49	13.49
111	2007	119	1730	61.62	na	6.948	13.92	32.1	13.49
111	2007	119	1745	61.87	na	8.16	37.93	26.25	13.5
111	2007	119	1800	61.99	na	7.45	31.06	27.42	13.49
111	2007	119	1815	61.49	na	8.16	33.88	24.66	13.51
111	2007	119	1830	61.25	na	7	29.57	22.48	13.51
111	2007	119	1845	61.32	na	7.45	37.48	23.3	13.51
111	2007	119	1900	61.31	na	7.31	46.46	18.61	13.51
111	2007	119	1915	61.09	na	7.66	38.27	18.25	13.52
111	2007	119	1930	60.66	na	6.743	54.17	19.51	13.09
111	2007	119	1945	60.05	na	5.924	59.18	23.42	13.03
111	2007	119	2000	59.51	na	6.016	64.64	19.03	12.98
111	2007	119	2015	58.91	na	6.318	67.99	19.99	12.96
111	2007	119	2030	58.46	na	6.68	57.6	19.81	12.94
111	2007	119	2045	57.97	na	5.255	62.72	17.83	12.92
111	2007	119	2100	57.55	na	4	57.86	16.2	12.9
111	2007	119	2115	57.09	na	3.4	60.56	15.08	12.9
111	2007	119	2130	56.57	na	2.366	64.71	18.87	12.88
111	2007	119	2145	55.97	na	1.993	70.8	16.93	12.88
111	2007	119	2200	55.28	na	1.083	332.8	49.67	12.86
111	2007	119	2215	54.14	na	0.882	308.3	11.42	12.86
111	2007	119	2230	53.26	na	0.485	48.78	37.78	12.85
111	2007	119	2245	52.5	na	0.293	316	3.53	12.84
111	2007	119	2300	51.79	na	0.16	346.9	15.48	12.82
111	2007	119	2315	51.42	na	1.154	297.7	12.59	12.82
111	2007	119	2330	50.37	na	0.732	271.3	5.198	12.82
111	2007	119	2345	49.62	na	2.484	288.9	15.3	12.81
111	2007	119	2400	49.31	na	2.668	291.5	11.88	12.79
111	2007	120	15	49.17	na	1.12	44.2	82.3	12.8
111	2007	120	30	48.42	na	1.278	283.2	10.81	12.79
111	2007	120	45	47.56	na	0.855	287.6	5.521	12.79
111	2007	120	100	47.29	na	2.573	280.5	11.27	12.77
111	2007	120	115	46.98	na	1.571	281.2	13.68	12.77
111	2007	120	130	46.95	na	0	0	0	12.77
111	2007	120	145	46.93	na	1.298	297	6.311	12.76
111	2007	120	200	46.39	na	0.359	283.5	6.794	12.75
111	2007	120	215	46	na	0.799	300.4	12.27	12.75
111	2007	120	230	45.75	na	0.054	112.4	0.142	12.74
111	2007	120	245	45.71	na	0.485	34.63	46.78	12.74
111	2007	120	300	45.94	na	0.68	327.6	13.99	12.72
111	2007	120	315	45.28	na	0.214	280.8	5.199	12.72
111	2007	120	330	45.14	na	0.763	331.3	25.86	12.71

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	120	345	45.09	na	0.442	292.1	7.7	12.71
111	2007	120	400	44.8	na	0.936	300.9	10.19	12.69
111	2007	120	415	44.8	na	1.086	302.4	15	12.7
111	2007	120	430	44.93	na	1.243	303.1	13.18	12.69
111	2007	120	445	45.54	na	2.082	291.8	11.15	12.69
111	2007	120	500	46.17	na	1.957	285.6	14	12.67
111	2007	120	515	46.56	na	0.796	284	9.09	12.68
111	2007	120	530	47.18	na	1.828	261.8	38.69	12.67
111	2007	120	545	49.26	na	3.688	274.7	23.35	12.67
111	2007	120	600	50.28	na	3.644	276.3	18.45	12.66
111	2007	120	615	50.82	na	3.664	277.7	19.82	12.67
111	2007	120	630	51.44	na	4.201	269.1	21.21	12.67
111	2007	120	645	52.28	na	5.334	272.1	23.01	12.69
111	2007	120	700	53.09	na	5.4	270.3	19.57	12.76
111	2007	120	715	53.49	na	6.791	272.9	20.08	12.75
111	2007	120	730	53.68	na	6.755	287.6	23.92	12.9
111	2007	120	745	54.11	na	6.767	281.1	22.34	12.9
111	2007	120	800	53.97	na	6.837	274.1	23.77	12.93
111	2007	120	815	53.89	na	6.668	270.1	23.67	13
111	2007	120	830	53.92	na	6.934	264.5	25.12	13.44
111	2007	120	845	54.83	na	9.19	259.5	19.07	13.58
111	2007	120	900	56	na	9.21	269.9	24.43	13.59
111	2007	120	915	56.3	na	8.57	265.8	24.56	13.58
111	2007	120	930	56.21	na	10.61	270.7	20.71	13.58
111	2007	120	945	56.37	na	9.95	275.7	22.93	13.56
111	2007	120	1000	57	na	8.02	282.2	21.68	13.56
111	2007	120	1015	58	na	8.03	275.3	24.51	13.56
111	2007	120	1030	58.02	na	8.93	277.3	23	13.56
111	2007	120	1045	58.59	na	8.29	276.1	19.11	13.54
111	2007	120	1100	59.29	na	10.05	268.8	20.47	13.52
111	2007	120	1115	60.21	na	9.21	273.3	24.87	13.52
111	2007	120	1130	60.2	na	10.24	285.7	18.69	13.51
111	2007	120	1145	60.66	na	9.33	284.3	22.57	13.51
111	2007	120	1200	61.78	na	7.56	270	24.78	13.49
111	2007	120	1215	64.5	na	8.99	279.8	22.9	13.49
111	2007	120	1230	65.7	na	8.34	267	22.45	13.47
111	2007	120	1245	66.42	na	9.57	269.6	24.17	13.47
111	2007	120	1300	66.56	na	8.01	275.5	23.49	13.46
111	2007	120	1315	67.15	na	8.96	277.4	20.8	13.46
111	2007	120	1330	69.56	na	8.48	277.8	39.78	13.45
111	2007	120	1345	75.2	na	9.65	334.6	30.64	13.42
111	2007	120	1400	76.1	na	11.15	325.3	34.32	13.39
111	2007	120	1415	76.3	na	10.49	346.7	36.32	13.39
111	2007	120	1430	77	na	9.24	331.8	31.49	13.37
111	2007	120	1445	77.6	na	11.49	343.5	32.17	13.36
111	2007	120	1500	78	na	11.61	339.4	37.55	13.35
111	2007	120	1515	77.7	na	12.23	356.8	29.39	13.35
111	2007	120	1530	77.4	na	11.8	2.326	31.59	13.35
111	2007	120	1545	76.8	na	10.76	15.39	26.77	13.34
111	2007	120	1600	75.8	na	11.04	11.73	28.64	13.34
111	2007	120	1615	75.5	na	12.2	12.82	28.84	13.34
111	2007	120	1630	75.5	na	10.71	11.3	26.65	13.35
111	2007	120	1645	75.3	na	10.98	0.126	35.11	13.34
111	2007	120	1700	75.4	na	9.66	16.44	31.03	13.34
111	2007	120	1715	75.1	na	10.07	6.864	32.9	13.34
111	2007	120	1730	74.4	na	10.68	14.7	35.92	13.35
111	2007	120	1745	73.9	na	10.48	13.57	36.6	13.36
111	2007	120	1800	73.1	na	10.88	18.65	31.28	13.36
111	2007	120	1815	72.6	na	11.19	9.65	32.46	13.38
111	2007	120	1830	72.2	na	11.05	20.39	23.42	13.38

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	120	1845	71.7	na	9.45	21.23	30.64	13.39
111	2007	120	1900	71.2	na	8.29	9.98	32.09	13.39
111	2007	120	1915	70.4	na	9.01	13.14	34.13	13.41
111	2007	120	1930	69.36	na	9.42	17.96	27.27	13.06
111	2007	120	1945	68.66	na	10.89	19.61	24.27	13.01
111	2007	120	2000	67.82	na	8.02	18.32	25.83	12.97
111	2007	120	2015	66.97	na	6.024	17.74	25.04	12.96
111	2007	120	2030	66.07	na	5.608	12.62	27.32	12.95
111	2007	120	2045	65.41	na	6.61	10.95	35.77	12.93
111	2007	120	2100	64.86	na	6.97	19.19	25.06	12.91
111	2007	120	2115	64.29	na	6.348	8.27	25.95	12.91
111	2007	120	2130	63.69	na	5.62	5.266	28.1	12.89
111	2007	120	2145	62.9	na	5.062	15.45	25.04	12.89
111	2007	120	2200	62.62	na	5.978	5.539	23.42	12.88
111	2007	120	2215	62.16	na	5.266	23.25	21.79	12.88
111	2007	120	2230	61.58	na	6.376	18.05	26.14	12.87
111	2007	120	2245	61.08	na	6.246	27.43	20.22	12.86
111	2007	120	2300	60.38	na	6.664	24.65	23.9	12.85
111	2007	120	2315	59.97	na	7.25	32.68	21.11	12.85
111	2007	120	2330	59.18	na	5.97	30.15	26.51	12.85
111	2007	120	2345	58.53	na	6.004	24.52	23.31	12.84
111	2007	120	2400	57.81	na	4.682	25.44	23.77	12.82
111	2007	121	15	57.38	na	5.117	28.61	19.76	12.83
111	2007	121	30	57.07	na	4.07	26.53	27.43	12.82
111	2007	121	45	56.38	na	2.863	18.87	29.61	12.82
111	2007	121	100	55.64	na	2.945	7.11	31.02	12.8
111	2007	121	115	54.72	na	0.902	240.5	55.87	12.8
111	2007	121	130	52.72	na	2.062	285.8	24.08	12.78
111	2007	121	145	51.64	na	2.217	310.3	18.07	12.78
111	2007	121	200	50.61	na	1.252	254.1	22.39	12.76
111	2007	121	215	49.96	na	0.995	25.11	32.84	12.76
111	2007	121	230	49.07	na	0.744	246.6	14.01	12.75
111	2007	121	245	47.99	na	1.412	313.6	28.81	12.75
111	2007	121	300	49.61	na	2.02	334.4	22.32	12.73
111	2007	121	315	50.19	na	1.232	273.3	25.23	12.73
111	2007	121	330	49.14	na	1.792	331.1	34.77	12.73
111	2007	121	345	49.55	na	1.392	341.5	30.63	12.72
111	2007	121	400	48.92	na	0.809	285.5	20.16	12.7
111	2007	121	415	48.35	na	1.529	3.364	20.69	12.71
111	2007	121	430	48.07	na	1.594	307.5	30.16	12.69
111	2007	121	445	47.09	na	1.192	321.8	21.27	12.69
111	2007	121	500	46.65	na	1.504	319.4	10.89	12.67
111	2007	121	515	46.5	na	1.509	342.5	16.85	12.67
111	2007	121	530	46.15	na	2.042	300.1	13.67	12.67
111	2007	121	545	46.06	na	1.194	338.5	18.4	12.67
111	2007	121	600	46.37	na	1.656	354.1	28.15	12.65
111	2007	121	615	47.37	na	1.951	325.8	18.83	12.65
111	2007	121	630	47.71	na	1.69	348.1	24.93	12.65
111	2007	121	645	48.45	na	2.822	357.7	33.69	12.65
111	2007	121	700	49.6	na	3.14	15.3	27.67	12.72
111	2007	121	715	50.74	na	3.418	7.52	32.57	12.9
111	2007	121	730	52.09	na	4.402	12.66	27.06	13.02
111	2007	121	745	52.98	na	4.585	14.49	33.39	13.12
111	2007	121	800	53.27	na	4.247	13.3	29.57	13.28
111	2007	121	815	54.3	na	4.475	9	31.32	13.65
111	2007	121	830	55.63	na	3.652	349.2	41.04	13.6
111	2007	121	845	55.94	na	4.694	17.19	25.49	13.62
111	2007	121	900	57.04	na	5.575	22.81	33.26	13.59
111	2007	121	915	57.69	na	6.334	36.2	24.34	13.58
111	2007	121	930	58.13	na	6.807	29.29	25.4	13.56

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	121	945	58.66	na	6.566	28.27	21.91	13.55
111	2007	121	1000	59.38	na	6.119	26	24.26	13.53
111	2007	121	1015	59.6	na	5.274	38.68	24.32	13.53
111	2007	121	1030	60.63	na	4.451	1.466	46.93	13.51
111	2007	121	1045	61.81	na	5.185	322.8	40.7	13.49
111	2007	121	1100	62.18	na	6.392	324.7	48.01	13.48
111	2007	121	1115	62.01	na	5.322	329.4	44.29	13.49
111	2007	121	1130	62.85	na	4.97	314.2	40.9	13.48
111	2007	121	1145	61.21	na	6.165	251.5	24.93	13.48
111	2007	121	1200	61.24	na	7.31	246.3	22.58	13.47
111	2007	121	1215	61.44	na	7.72	269.9	23.66	13.48
111	2007	121	1230	61.09	na	8.87	267.2	22.96	13.49
111	2007	121	1245	62.61	na	8.52	273.7	22.52	13.48
111	2007	121	1300	61.99	na	9.14	267.1	22.62	13.48
111	2007	121	1315	63.04	na	8.81	267	23.75	13.48
111	2007	121	1330	63.57	na	8.91	269	22.73	13.48
111	2007	121	1345	64.2	na	8.86	276.3	24.93	13.47
111	2007	121	1400	64	na	7.76	256.5	23.66	13.46
111	2007	121	1415	61.65	na	8.74	254.7	22.38	13.48
111	2007	121	1430	62.18	na	8.95	260.5	22.25	13.48
111	2007	121	1445	62.47	na	9.43	260.9	21.59	13.47
111	2007	121	1500	62.05	na	9.04	263.7	22.02	13.47
111	2007	121	1515	61.99	na	8.59	266.2	23.12	13.48
111	2007	121	1530	61.89	na	8.99	260.4	21.81	13.47
111	2007	121	1545	61.41	na	8.55	265.8	22.12	13.47
111	2007	121	1600	60.79	na	8.06	256.4	23.99	13.48
111	2007	121	1615	59.58	na	7.42	260.3	24.28	13.49
111	2007	121	1630	59.55	na	7.17	262.4	27.38	13.5
111	2007	121	1645	58.2	na	7.69	266	22.85	13.51
111	2007	121	1700	58.32	na	7.41	269.6	24.15	13.51
111	2007	121	1715	58.93	na	7.98	276.8	19.05	13.52
111	2007	121	1730	58.3	na	7.3	276.8	22.08	13.39
111	2007	121	1745	57.29	na	7.45	271.5	19.26	13.54
111	2007	121	1800	56.89	na	6.574	260.4	20.84	13.54
111	2007	121	1815	56.82	na	6.04	271.8	22.86	13.56
111	2007	121	1830	56.8	na	5.781	270.7	24.78	13.13
111	2007	121	1845	56.57	na	5.65	266.6	24.94	13.08
111	2007	121	1900	56.54	na	6.445	279.9	23.44	13
111	2007	121	1915	56.49	na	5.437	285.5	18.14	12.97
111	2007	121	1930	55.65	na	6.509	267.2	20.75	12.94
111	2007	121	1945	54.67	na	5.674	266	24.46	12.92
111	2007	121	2000	54.66	na	6.624	270.1	24.16	12.9
111	2007	121	2015	54.41	na	5.654	260.1	23.5	12.9
111	2007	121	2030	54.02	na	5.785	265.2	18.75	12.88
111	2007	121	2045	53.99	na	6.346	259.2	18.75	12.88
111	2007	121	2100	53.93	na	5.972	258.5	16.85	12.86
111	2007	121	2115	53.99	na	5.37	264.8	21.56	12.86
111	2007	121	2130	53.92	na	5.801	266.5	20.6	12.86
111	2007	121	2145	54.07	na	6.523	280.5	18.76	12.85
111	2007	121	2200	54.28	na	6.455	290.6	15.15	12.84
111	2007	121	2215	54.53	na	6.123	276	26.44	12.84
111	2007	121	2230	54.26	na	7.42	283.7	21.11	12.84
111	2007	121	2245	54.12	na	7.4	281.8	24.75	12.84
111	2007	121	2300	51	na	6.129	250.6	21.54	12.82
111	2007	121	2315	48.94	na	4.966	258.4	20.56	12.82
111	2007	121	2330	48.91	na	5.861	275.9	20.89	12.82
111	2007	121	2345	48.27	na	4.76	262.6	26.44	12.8
111	2007	121	2400	47.67	na	5.249	259.5	25.48	12.78
111	2007	122	15	47.28	na	5.139	262.6	30.86	12.78
111	2007	122	30	47.23	na	5.36	239.5	21.04	12.78

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	122	45	47.07	na	5.68	232.8	27.43	12.77
111	2007	122	100	46.59	na	6.648	253.8	19.92	12.76
111	2007	122	115	46.4	na	6.072	235.8	21.68	12.76
111	2007	122	130	46.97	na	6.726	233.9	26.64	12.75
111	2007	122	145	47.24	na	6.123	243.8	18.84	12.75
111	2007	122	200	47.27	na	4.861	236.5	23.12	12.73
111	2007	122	215	47.87	na	4.77	209.5	16.28	12.73
111	2007	122	230	49.16	na	4.915	222.7	16.38	12.73
111	2007	122	245	50.12	na	5.092	228.7	23.53	12.72
111	2007	122	300	50.82	na	3.12	243.1	39.25	12.71
111	2007	122	315	51.31	na	1.528	40.03	51.92	12.72
111	2007	122	330	51.52	na	1.66	279.3	69.22	12.72
111	2007	122	345	51.59	na	2.12	32.73	68.47	12.71
111	2007	122	400	51.59	na	2.7	350.6	44.37	12.7
111	2007	122	415	51.48	na	1.759	277.4	35	12.7
111	2007	122	430	51.24	na	2.533	345.9	47.87	12.7
111	2007	122	445	50.76	na	3.927	39.55	18.41	12.7
111	2007	122	500	50.16	na	3.792	47.37	37.6	12.68
111	2007	122	515	49.99	na	4.487	62.06	37.27	12.69
111	2007	122	530	49.34	na	5.843	59.06	23.83	12.69
111	2007	122	545	48.58	na	4.575	54.56	21.44	12.68
111	2007	122	600	48.36	na	4.328	53.64	16.74	12.67
111	2007	122	615	48.42	na	4.35	63.07	17.61	12.68
111	2007	122	630	48.44	na	4.29	68.17	19.93	12.68
111	2007	122	645	48.57	na	4.549	76.5	14	12.68
111	2007	122	700	48.88	na	3.945	75.6	19.94	12.66
111	2007	122	715	49.16	na	2.961	80.5	25.72	12.67
111	2007	122	730	49.34	na	3.517	88.5	15.73	12.67
111	2007	122	745	49.62	na	3.352	83.4	20.83	12.7
111	2007	122	800	49.88	na	2.682	94.8	18.25	12.72
111	2007	122	815	50.03	na	3.138	117.2	22.42	12.76
111	2007	122	830	50.27	na	2.734	136.6	25.69	12.83
111	2007	122	845	50.69	na	1.396	156.8	23.63	13.05
111	2007	122	900	50.93	na	2.482	162.1	25.55	13.26
111	2007	122	915	51.24	na	1.784	119	35.13	13.5
111	2007	122	930	51.53	na	2.985	81.9	15.86	13.64
111	2007	122	945	51.8	na	3.738	69.93	24.28	13.62
111	2007	122	1000	51.99	na	4.221	61.95	22.48	13.62
111	2007	122	1015	51.98	na	5.123	75.6	17.84	13.6
111	2007	122	1030	52.1	na	5.435	63.49	21.05	13.63
111	2007	122	1045	52.27	na	6.352	57.35	18.73	13.61
111	2007	122	1100	52.86	na	5.962	73.7	20.05	13.6
111	2007	122	1115	53.25	na	6.505	61.93	23.97	13.6
111	2007	122	1130	53.01	na	7.36	47.33	21.46	13.6
111	2007	122	1145	53.06	na	6.769	63.22	21.68	13.6
111	2007	122	1200	53.36	na	6.089	47.7	24.83	13.59
111	2007	122	1215	52.77	na	8.35	52.69	19.29	13.6
111	2007	122	1230	52.4	na	6.894	56.95	18.67	13.6
111	2007	122	1245	52.92	na	5.972	47.22	21.1	13.6
111	2007	122	1300	53.21	na	6.616	48.07	23.73	13.58
111	2007	122	1315	53.96	na	5.664	54.37	28.79	13.59
111	2007	122	1330	54.95	na	4.547	38.81	33.46	13.58
111	2007	122	1345	55.07	na	5.201	51.27	24.28	13.58
111	2007	122	1400	55.47	na	4.644	38.85	23.74	13.57
111	2007	122	1415	56	na	4.905	37.18	33.68	13.58
111	2007	122	1430	56.67	na	4.336	44.86	36.28	13.57
111	2007	122	1445	57.13	na	5.479	63.33	28.77	13.56
111	2007	122	1500	57.57	na	4.758	66.81	32.19	13.55
111	2007	122	1515	57.75	na	5.783	67.98	22.69	13.55
111	2007	122	1530	58.84	na	4.702	38.98	42.87	13.54

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	122	1545	58.98	na	4.76	46.51	26.46	13.53
111	2007	122	1600	60.06	na	4.384	16.73	38.24	13.51
111	2007	122	1615	60.96	na	5.175	74.3	24.35	13.51
111	2007	122	1630	61.78	na	6.111	57.59	37.14	13.5
111	2007	122	1645	62.69	na	5.706	5.875	45.8	13.49
111	2007	122	1700	62.45	na	5.455	11.58	37.81	13.49
111	2007	122	1715	63.41	na	4.869	33.77	29.62	13.49
111	2007	122	1730	63.93	na	4.559	17.8	36.68	13.49
111	2007	122	1745	64.51	na	4.026	4.967	41.46	13.49
111	2007	122	1800	60.35	na	6.483	222.6	63.82	13.49
111	2007	122	1815	56.98	na	5.501	248.2	23.82	13.52
111	2007	122	1830	56.18	na	6.718	264.2	23.02	13.53
111	2007	122	1845	56.27	na	5.483	264.8	23.87	13.55
111	2007	122	1900	55.72	na	5.237	248.6	19.22	13.56
111	2007	122	1915	55.35	na	4.766	255.3	23.17	13.57
111	2007	122	1930	54.79	na	3.875	249.9	26.11	13.08
111	2007	122	1945	54.24	na	3.865	269.1	20	13.02
111	2007	122	2000	53.36	na	3.263	258.9	22.22	12.97
111	2007	122	2015	52.75	na	3.444	268.3	21.49	12.95
111	2007	122	2030	52.27	na	2.201	276.1	22.78	12.93
111	2007	122	2045	52.12	na	2.511	273.6	27.18	12.91
111	2007	122	2100	51.96	na	3.305	282.6	20.08	12.88
111	2007	122	2115	51.88	na	3.8	290.2	22.73	12.88
111	2007	122	2130	51.75	na	3.002	314.3	18.66	12.87
111	2007	122	2145	51.63	na	3.426	307.1	17.27	12.86
111	2007	122	2200	51.45	na	2.935	312.7	25.32	12.84
111	2007	122	2215	51.11	na	2.7	334	38.75	12.85
111	2007	122	2230	50.88	na	2.144	328.5	25.32	12.84
111	2007	122	2245	50.82	na	2.283	324.8	32.14	12.84
111	2007	122	2300	50.6	na	2.837	311.6	19.91	12.82
111	2007	122	2315	50.75	na	2.16	6.524	45.68	12.82
111	2007	122	2330	50.41	na	2.269	337	38.93	12.82
111	2007	122	2345	49.95	na	2.191	317.9	42.87	12.82
111	2007	122	2400	49.41	na	1.612	307.9	37.3	12.79
111	2007	123	15	48.6	na	1.943	291.6	16.66	12.8
111	2007	123	30	47.92	na	1.456	312.8	24.47	12.8
111	2007	123	45	48.48	na	1.885	7.2	32.59	12.79
111	2007	123	100	47.96	na	0.589	20.36	14.28	12.77
111	2007	123	115	47.32	na	1.811	15.06	19.52	12.78
111	2007	123	130	47.04	na	0.833	4.631	19.67	12.77
111	2007	123	145	46.72	na	1.45	36.98	16.29	12.77
111	2007	123	200	47.19	na	2.424	33.54	25.86	12.75
111	2007	123	215	48.45	na	2.865	43.55	22.63	12.75
111	2007	123	230	49.78	na	3.911	52.22	19.41	12.75
111	2007	123	245	50.84	na	4.203	70.6	19.77	12.74
111	2007	123	300	51.11	na	5.062	68.77	17.17	12.73
111	2007	123	315	50.45	na	3.557	71	15.59	12.73
111	2007	123	330	50.11	na	3.744	71.1	18.91	12.73
111	2007	123	345	49.65	na	3.05	66.41	18.71	12.72
111	2007	123	400	49.14	na	2.329	71.5	15.66	12.71
111	2007	123	415	48.66	na	2.17	67.86	15.27	12.71
111	2007	123	430	48.07	na	1.21	57.99	12.5	12.7
111	2007	123	445	46.32	na	0.957	322.8	14.49	12.69
111	2007	123	500	44.24	na	0.862	283.5	18.1	12.67
111	2007	123	515	43.24	na	1.025	16.09	10.38	12.67
111	2007	123	530	42.63	na	0.132	339.7	2.565	12.66
111	2007	123	545	41.76	na	0.332	311.6	10.38	12.65
111	2007	123	600	41.41	na	0.529	15.04	10.76	12.63
111	2007	123	615	41.77	na	1.365	23.93	6.592	12.63
111	2007	123	630	42.94	na	0.36	301.6	7.01	12.63

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	123	645	44.39	na	0.42	12.08	14.07	12.63
111	2007	123	700	46.36	na	1.359	17.36	15.43	12.64
111	2007	123	715	49.13	na	2.217	22.1	12.59	12.7
111	2007	123	730	51.1	na	2.209	20.86	30.47	12.76
111	2007	123	745	52.55	na	2.827	36.41	24.46	12.85
111	2007	123	800	53.51	na	3.181	22.41	22.43	12.92
111	2007	123	815	54.75	na	3.638	28.98	23.62	13.04
111	2007	123	830	55.8	na	3.925	43.33	28.73	13.15
111	2007	123	845	56.39	na	5.7	63.43	17.08	13.27
111	2007	123	900	57.45	na	4.521	52.02	33.94	13.35
111	2007	123	915	58.27	na	4.346	53.75	29.66	13.4
111	2007	123	930	58.65	na	5.69	72.8	40.66	13.42
111	2007	123	945	58.61	na	6.02	82	23.73	13.46
111	2007	123	1000	58.92	na	6.483	89.8	22.42	13.54
111	2007	123	1015	59.3	na	6.079	87.4	25.09	13.52
111	2007	123	1030	59.55	na	5.231	61.45	27.82	13.52
111	2007	123	1045	59.81	na	5.497	60.74	35.87	13.51
111	2007	123	1100	59.79	na	5.485	81.7	35.42	13.5
111	2007	123	1115	60.33	na	5.602	54.36	29.45	13.5
111	2007	123	1130	60.37	na	4.233	34.25	54.96	13.49
111	2007	123	1145	60.74	na	3.837	41.24	37.9	13.47
111	2007	123	1200	61.98	na	3.782	327.3	64.12	13.47
111	2007	123	1215	61.8	na	4.562	57.99	69.08	13.47
111	2007	123	1230	61.89	na	6.378	280.3	23.8	13.48
111	2007	123	1245	62.01	na	6.894	259.8	24.49	13.48
111	2007	123	1300	62.17	na	7.7	265.3	25.1	13.47
111	2007	123	1315	61.92	na	8.27	255.6	21.34	13.48
111	2007	123	1330	61.63	na	8.73	258.4	25.93	13.49
111	2007	123	1345	61.46	na	8.25	256	24.9	13.54
111	2007	123	1400	61.24	na	8.47	248.9	22.1	13.49
111	2007	123	1415	61.86	na	8.75	259.8	23.07	13.49
111	2007	123	1430	61.38	na	9.22	255.8	23.01	13.49
111	2007	123	1445	60.94	na	10	257.7	20.6	13.5
111	2007	123	1500	61.6	na	8.31	260.1	22.65	13.49
111	2007	123	1515	61.65	na	8.79	259.4	22.29	13.49
111	2007	123	1530	61.23	na	8.78	252.9	21.65	13.49
111	2007	123	1545	61.16	na	9.44	273.4	17.89	13.49
111	2007	123	1600	61.31	na	8.24	258.2	21.21	13.48
111	2007	123	1615	61.35	na	7.57	258	28.04	13.49
111	2007	123	1630	60.89	na	8.28	258.7	23.53	13.49
111	2007	123	1645	60.72	na	8.11	260.8	20.77	13.49
111	2007	123	1700	61	na	7.32	259.2	21.08	13.49
111	2007	123	1715	60.83	na	7.92	262.1	24.04	13.5
111	2007	123	1730	60.2	na	6.873	273.2	24.8	13.51
111	2007	123	1745	59.48	na	8.66	270.1	21.42	13.51
111	2007	123	1800	58.85	na	8.02	270.6	19.24	13.51
111	2007	123	1815	58.83	na	7.49	280.5	23.14	13.53
111	2007	123	1830	58.11	na	8.93	275.1	23.93	13.54
111	2007	123	1845	56.84	na	8.49	277.4	22.71	13.55
111	2007	123	1900	56.1	na	9.34	281.4	17.36	13.56
111	2007	123	1915	55.26	na	8.24	275.5	21.06	13.62
111	2007	123	1930	54.46	na	8.15	279.7	21.54	13.08
111	2007	123	1945	54.01	na	7.85	280.9	21.65	13.01
111	2007	123	2000	53.84	na	7.45	290.3	16.88	12.96
111	2007	123	2015	53.82	na	6.547	292.6	19.31	12.94
111	2007	123	2030	53.62	na	6.457	292.1	17.78	12.91
111	2007	123	2045	53.56	na	6.25	285.5	17.85	12.9
111	2007	123	2100	53.4	na	4.923	285.2	19.85	12.92
111	2007	123	2115	53.3	na	4.481	286.2	18.46	12.87
111	2007	123	2130	53.11	na	3.798	289.1	21.66	12.86

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	123	2145	52.76	na	2.086	349.8	33.77	12.85
111	2007	123	2200	52.29	na	1.709	340.6	31.87	12.83
111	2007	123	2215	51.76	na	2.711	302.9	20.58	12.84
111	2007	123	2230	51.43	na	2.237	296.1	23.66	12.83
111	2007	123	2245	50.57	na	1.124	276.7	27.99	12.82
111	2007	123	2300	49.83	na	0.702	68.75	13.59	12.8
111	2007	123	2315	49.07	na	0.83	294.1	22.67	12.81
111	2007	123	2330	47.69	na	0.898	290.4	7.06	12.8
111	2007	123	2345	46.76	na	0.02	269.8	0.115	12.79
111	2007	123	2400	46.32	na	0.467	305.2	11.54	12.77
111	2007	124	15	46.44	na	1.077	8.36	24.33	12.77
111	2007	124	30	46.36	na	0.681	3.708	35.34	12.77
111	2007	124	45	45.57	na	0.144	1.493	9.85	12.76
111	2007	124	100	45.09	na	0.44	326.3	12.89	12.74
111	2007	124	115	45.11	na	0.758	346.9	15.68	12.75
111	2007	124	130	45.23	na	0.939	29.39	19.5	12.74
111	2007	124	145	44.64	na	0.993	30.89	31.1	12.73
111	2007	124	200	44.88	na	1.183	10.9	27.97	12.71
111	2007	124	215	45.62	na	0.716	31.5	28.39	12.71
111	2007	124	230	45.69	na	0.879	27.33	25.42	12.71
111	2007	124	245	45.42	na	0.41	2.973	13.67	12.7
111	2007	124	300	44.99	na	0.334	356.8	18.89	12.69
111	2007	124	315	44.19	na	na	na	na	12.69
111	2007	124	330	43.42	na	na	na	na	12.68
111	2007	124	345	43.81	na	0.318	332.1	13.45	12.67
111	2007	124	400	43.72	na	1.004	342.8	7.07	12.65
111	2007	124	415	43.34	na	0.481	357.3	9.84	12.65
111	2007	124	430	42.64	na	0.481	1.034	13.39	12.65
111	2007	124	445	42.03	na	1.009	326.5	5.74	12.65
111	2007	124	500	41.21	na	0.059	331.3	0.707	12.63
111	2007	124	515	41.01	na	1.139	329.4	8.84	12.63
111	2007	124	530	40.79	na	0.871	7.38	15.51	12.62
111	2007	124	545	40.51	na	0.089	335.5	1.651	12.62
111	2007	124	600	39.9	na	0.145	315.4	4.502	12.59
111	2007	124	615	40.18	na	1.079	319.8	13.95	12.6
111	2007	124	630	41.51	na	1.02	306.3	11.12	12.6
111	2007	124	645	43.19	na	0.164	323.4	11.25	12.61
111	2007	124	700	45.88	na	0.105	352.8	8.61	12.7
111	2007	124	715	49.41	na	0.735	19.27	14.23	12.7
111	2007	124	730	51.44	na	2.736	24.15	15.8	12.77
111	2007	124	745	53.26	na	3.11	39.78	18.15	12.83
111	2007	124	800	54.64	na	3.694	25.93	23.41	12.88
111	2007	124	815	55.49	na	4.06	33.54	22.34	13.03
111	2007	124	830	56.64	na	4.674	35.63	28.67	13.2
111	2007	124	845	57.71	na	4.94	25.48	26.76	13.45
111	2007	124	900	58.27	na	5.736	35.76	28.85	13.58
111	2007	124	915	58.31	na	6.942	40.78	22.04	13.57
111	2007	124	930	58.8	na	5.974	40.11	24.09	13.55
111	2007	124	945	59.07	na	7.7	59.45	24.09	13.54
111	2007	124	1000	58.72	na	7.87	56.59	23.38	13.54
111	2007	124	1015	59.42	na	6.274	39.48	33.55	13.53
111	2007	124	1030	59.51	na	6.077	58	30.63	13.51
111	2007	124	1045	59.74	na	5.839	49.81	39.1	13.51
111	2007	124	1100	60.49	na	7.29	44.9	26.89	13.5
111	2007	124	1115	61.01	na	7.08	18.62	40.07	13.53
111	2007	124	1130	61.41	na	6.338	22.05	32.73	13.49
111	2007	124	1145	61.23	na	7.99	24.08	31.57	13.49
111	2007	124	1200	61.4	na	8.65	50.91	21.3	13.48
111	2007	124	1215	61.47	na	8.84	26.03	24.02	13.49
111	2007	124	1230	62.21	na	7.39	18.27	33.1	13.49

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	124	1245	62.33	na	8.28	38.2	25.27	13.48
111	2007	124	1300	62.25	na	7.04	26.39	30.58	13.48
111	2007	124	1315	62.21	na	8.73	44.07	31.09	13.49
111	2007	124	1330	62.66	na	8.34	21.5	27.45	13.48
111	2007	124	1345	63.37	na	7.23	19.3	30.58	13.48
111	2007	124	1400	63.73	na	7.94	28.36	30.68	13.47
111	2007	124	1415	63.69	na	7.08	29.42	37.54	13.47
111	2007	124	1430	64.9	na	6.845	10.35	35.66	13.47
111	2007	124	1445	64.77	na	7.27	1.046	33	13.46
111	2007	124	1500	64.84	na	7.45	351.2	31.13	13.45
111	2007	124	1515	65.05	na	6.479	358.9	42.89	13.46
111	2007	124	1530	64.73	na	6.32	0.389	48.08	13.45
111	2007	124	1545	65.51	na	6.511	20.45	38.11	13.45
111	2007	124	1600	65.6	na	7.89	4.75	41.23	13.44
111	2007	124	1615	66.2	na	6.704	19.52	36.19	13.44
111	2007	124	1630	66.36	na	7.02	14.7	39.08	13.44
111	2007	124	1645	66.45	na	7.92	22.82	31.11	13.44
111	2007	124	1700	66.98	na	6.879	17.96	36.59	13.43
111	2007	124	1715	63.42	na	7.83	284.3	22.84	13.45
111	2007	124	1730	62.19	na	6.908	268.3	25.61	13.47
111	2007	124	1745	60.15	na	7.78	253.8	21.31	13.48
111	2007	124	1800	59.13	na	8.85	272.8	20.4	13.49
111	2007	124	1815	59.27	na	8.14	280.1	18.87	13.51
111	2007	124	1830	59.19	na	8.83	280.8	15.96	13.51
111	2007	124	1845	58.9	na	8.06	282.8	22.08	13.53
111	2007	124	1900	58.23	na	8.64	285.8	15.96	13.53
111	2007	124	1915	57.6	na	7.06	280.5	20.12	13.55
111	2007	124	1930	56.85	na	6.873	287.7	21.22	13.08
111	2007	124	1945	55.99	na	5.064	276.1	27.38	13.02
111	2007	124	2000	55.21	na	4.718	270.4	22.01	12.96
111	2007	124	2015	54.67	na	4.952	272.3	21.94	12.99
111	2007	124	2030	54.06	na	5.225	276.8	20.36	12.92
111	2007	124	2045	53.88	na	5.161	288.3	15.52	12.9
111	2007	124	2100	53.57	na	3.648	280.2	23.98	12.88
111	2007	124	2115	53.4	na	4.537	285.3	21.02	12.87
111	2007	124	2130	53.26	na	4.905	284.1	20.6	12.86
111	2007	124	2145	53.38	na	5.115	280.6	19.59	12.86
111	2007	124	2200	53.26	na	4.718	289.5	19.08	12.84
111	2007	124	2215	53.56	na	6.095	293.3	19.38	12.89
111	2007	124	2230	53.73	na	5.875	293.9	20.66	12.84
111	2007	124	2245	53.42	na	5.09	284.3	20.19	12.83
111	2007	124	2300	53.28	na	6.105	288.9	17.41	12.82
111	2007	124	2315	53.39	na	7.04	291.5	16.22	12.82
111	2007	124	2330	53.5	na	6.258	289.1	18.43	12.82
111	2007	124	2345	53.25	na	4.833	291.2	16.26	12.82
111	2007	124	2400	52.88	na	5.435	292.4	14.07	12.8
111	2007	125	15	52.82	na	5.503	287.6	15.47	12.81
111	2007	125	30	52.71	na	5.441	290.7	13.48	12.8
111	2007	125	45	52.47	na	4.988	293.8	14.03	12.8
111	2007	125	100	52.04	na	4.422	299.3	15.2	12.78
111	2007	125	115	51.85	na	4.459	300.1	11.7	12.79
111	2007	125	130	51.43	na	3.867	306.3	15.45	12.78
111	2007	125	145	50.74	na	2.682	312.3	23.35	12.78
111	2007	125	200	50.12	na	2.668	317.7	25.97	12.82
111	2007	125	215	49.57	na	3.074	302.8	13.76	12.76
111	2007	125	230	49.32	na	2.754	310.9	19.14	12.76
111	2007	125	245	48.73	na	1.685	323.7	31.51	12.75
111	2007	125	300	47.59	na	2.239	319.9	44.91	12.73
111	2007	125	315	46.97	na	0.497	334.6	44.09	12.73
111	2007	125	330	46.04	na	0.499	349.9	27.11	12.72

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	125	345	45.56	na	0.762	37.85	19.9	12.71
111	2007	125	400	45.1	na	1.401	49.45	9.67	12.69
111	2007	125	415	44.53	na	0.316	47.93	5.435	12.69
111	2007	125	430	43.93	na	1.263	49.63	13.03	12.68
111	2007	125	445	43.5	na	0.845	43.83	12.13	12.74
111	2007	125	500	42.96	na	na	na	na	12.65
111	2007	125	515	42.45	na	0.54	272.7	2.593	12.65
111	2007	125	530	41.81	na	1.341	319.8	52.03	12.71
111	2007	125	545	42	na	0.562	54.05	5.115	12.64
111	2007	125	600	41.8	na	0.944	88.6	31.65	12.62
111	2007	125	615	42.44	na	0.319	132.7	16.54	12.62
111	2007	125	630	43.88	na	0.358	57.92	8.18	12.62
111	2007	125	645	46.18	na	2.148	58.19	16.54	12.62
111	2007	125	700	48.27	na	3.169	67.99	16.37	12.63
111	2007	125	715	50.06	na	3.631	64.26	17.79	12.69
111	2007	125	730	51.76	na	3.704	65.85	21.58	12.73
111	2007	125	745	53.16	na	4.527	77.7	18.6	12.79
111	2007	125	800	54.66	na	3.901	94.5	23.08	12.82
111	2007	125	815	56.33	na	3.883	95.7	21.87	12.88
111	2007	125	830	57.77	na	4.235	92.4	25.21	12.99
111	2007	125	845	59.08	na	4.324	119.9	23.96	13.04
111	2007	125	900	59.59	na	4.191	118.2	29.9	13.09
111	2007	125	915	60.57	na	4.364	119.1	31.09	13.1
111	2007	125	930	61.37	na	3.947	92	30.54	13.16
111	2007	125	945	61.97	na	3.788	112.9	55.99	13.24
111	2007	125	1000	61.88	na	5.67	205.7	24.07	13.48
111	2007	125	1015	61.39	na	6.57	192.1	20.31	13.5
111	2007	125	1030	61.14	na	6.058	209.3	28.44	13.49
111	2007	125	1045	61.27	na	6.193	210.6	23.67	13.49
111	2007	125	1100	60.78	na	7.32	200	18.36	13.48
111	2007	125	1115	60.93	na	7.21	197.2	20.69	13.53
111	2007	125	1130	60.69	na	7.87	191.2	19.12	13.49
111	2007	125	1145	61.12	na	6.739	204.8	20.35	13.53
111	2007	125	1200	60.92	na	7.3	209.5	19.02	13.47
111	2007	125	1215	61.22	na	6.334	203.2	26.12	13.48
111	2007	125	1230	61.77	na	6.644	208.6	22.41	13.47
111	2007	125	1245	62.31	na	6.6	187.4	19.89	13.47
111	2007	125	1300	62.5	na	6.537	188	23.58	13.47
111	2007	125	1315	62.28	na	8.03	223.5	28.07	13.47
111	2007	125	1330	61.95	na	8.12	227.2	23.49	13.48
111	2007	125	1345	61.9	na	7.51	234.2	22.9	13.48
111	2007	125	1400	62.04	na	8.51	233.6	21.57	13.47
111	2007	125	1415	62.46	na	7.57	256.1	27.9	13.48
111	2007	125	1430	62.38	na	6.952	252.8	25.63	13.48
111	2007	125	1445	62.53	na	8.98	267.8	23.49	13.48
111	2007	125	1500	62.55	na	8.51	258.4	21.43	13.47
111	2007	125	1515	63.01	na	7.84	258.8	23.26	13.47
111	2007	125	1530	62.7	na	7.59	249.6	20.72	13.47
111	2007	125	1545	63.33	na	7.33	253.1	23.66	13.47
111	2007	125	1600	62.65	na	7.41	245.3	20.37	13.46
111	2007	125	1615	62.58	na	7.31	224.9	18.74	13.51
111	2007	125	1630	63.23	na	5.69	229	22.58	13.47
111	2007	125	1645	63.23	na	6.676	237.7	21.28	13.46
111	2007	125	1700	62.86	na	6.847	229.8	24.57	13.45
111	2007	125	1715	62.16	na	5.924	218.9	26.05	13.47
111	2007	125	1730	61.48	na	7.31	214.6	20.4	13.47
111	2007	125	1745	61.09	na	6.739	225.1	20.93	13.48
111	2007	125	1800	59.4	na	7.36	248.3	20.74	13.49
111	2007	125	1815	57.66	na	6.797	251.1	21.9	13.47
111	2007	125	1830	56.79	na	5.755	267.4	22.38	13.51

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	125	1845	56.57	na	4.09	271	32	13.55
111	2007	125	1900	57.02	na	3.289	283.7	22.23	13.1
111	2007	125	1915	57.17	na	2.736	293.1	58.94	13.04
111	2007	125	1930	57.38	na	1.497	37.65	68.65	12.99
111	2007	125	1945	57.53	na	2.114	83.4	18.01	12.96
111	2007	125	2000	57.63	na	0.879	89.3	50.03	12.92
111	2007	125	2015	57.89	na	1.915	24.12	14.52	12.92
111	2007	125	2030	58.03	na	2.011	82	28.58	12.9
111	2007	125	2045	57.93	na	2.337	85.6	38.67	12.9
111	2007	125	2100	58.03	na	1.786	135.6	76.2	12.88
111	2007	125	2115	58.01	na	2.26	235.6	76.7	12.88
111	2007	125	2130	58.04	na	2.81	146.5	92.1	12.88
111	2007	125	2145	58.22	na	3.093	146.9	18.3	12.87
111	2007	125	2200	58.1	na	1.486	244.9	85.6	12.86
111	2007	125	2215	57.98	na	2.479	104	74.5	12.86
111	2007	125	2230	57.64	na	0.384	240.5	29.75	12.86
111	2007	125	2245	57.5	na	1.605	179.4	70.8	12.85
111	2007	125	2300	57.35	na	2.024	81.3	68.5	12.84
111	2007	125	2315	57.18	na	2.29	116.1	49.75	12.84
111	2007	125	2330	57.12	na	2.134	84.9	41.33	12.84
111	2007	125	2345	57.24	na	2.466	29.25	73.2	12.83
111	2007	125	2400	57.19	na	3.11	338.1	63.88	12.82
111	2007	126	15	58.28	na	8.69	53.44	23.84	12.82
111	2007	126	30	58.2	na	9.39	73	17.83	12.82
111	2007	126	45	57.57	na	11.46	59.8	21.37	12.82
111	2007	126	100	56.78	na	9.81	63.51	22.79	12.8
111	2007	126	115	56.1	na	11.15	62.17	18.12	12.81
111	2007	126	130	55.63	na	11.35	69.73	22.14	12.8
111	2007	126	145	55.02	na	12.03	68.88	19.45	12.8
111	2007	126	200	54.37	na	12.71	73.2	21.91	12.78
111	2007	126	215	53.73	na	12.98	66.52	19.58	12.78
111	2007	126	230	53	na	11.46	74.1	20.27	12.78
111	2007	126	245	52.52	na	11.29	70.6	21.62	12.77
111	2007	126	300	52.14	na	11.61	80.6	18.36	12.75
111	2007	126	315	51.86	na	11.68	74.8	20.16	12.75
111	2007	126	330	51.65	na	10.23	78.8	20.67	12.74
111	2007	126	345	51.47	na	10.86	73.3	19.15	12.74
111	2007	126	400	51.31	na	10.16	82.2	20.41	12.72
111	2007	126	415	51.12	na	9.16	78.7	19.25	12.71
111	2007	126	430	50.87	na	7.49	80.6	18.18	12.72
111	2007	126	445	50.46	na	7.13	70.7	21.96	12.71
111	2007	126	500	50.03	na	9.35	74.3	21.46	12.69
111	2007	126	515	49.66	na	8.73	65.13	19.09	12.7
111	2007	126	530	49.27	na	8.22	65.92	18.92	12.74
111	2007	126	545	48.88	na	7.92	64.89	22.34	12.68
111	2007	126	600	48.56	na	7.99	71.3	20.1	12.66
111	2007	126	615	48.18	na	8.46	66.69	21.34	12.68
111	2007	126	630	47.57	na	8.71	67.54	19.77	12.67
111	2007	126	645	47.25	na	8.32	77.6	19.42	12.66
111	2007	126	700	47.16	na	8.69	75	23.53	12.65
111	2007	126	715	47.11	na	8.07	71.4	22.1	12.66
111	2007	126	730	46.99	na	8.73	69.08	21.65	12.67
111	2007	126	745	47.13	na	7.84	77.8	20.18	12.76
111	2007	126	800	47.42	na	8.3	80	23.05	13.12
111	2007	126	815	48.02	na	8.68	74.6	19.49	13.42
111	2007	126	830	47.94	na	8.49	68.38	20.57	13.52
111	2007	126	845	47.48	na	10.51	77.9	20.31	13.7
111	2007	126	900	47.16	na	8.01	95.6	20.04	13.7
111	2007	126	915	47.7	na	8.97	96.9	21.84	13.7
111	2007	126	930	48.36	na	10.27	94.7	21.11	13.68

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	126	945	48.07	na	11.16	90.1	21.98	13.68
111	2007	126	1000	49.08	na	11.54	84.9	22.43	13.67
111	2007	126	1015	48.99	na	9.72	77.4	25.25	13.67
111	2007	126	1030	48.24	na	9.37	78.8	22.25	13.68
111	2007	126	1045	49.69	na	11.86	78.8	24.52	13.67
111	2007	126	1100	50	na	9.76	80.9	24.54	13.65
111	2007	126	1115	50.67	na	10.26	93	20.63	13.65
111	2007	126	1130	51.29	na	10.79	80.2	22.32	13.64
111	2007	126	1145	52.86	na	8.74	88.7	29.7	13.62
111	2007	126	1200	53.26	na	10.61	100.7	21.56	13.6
111	2007	126	1215	52.99	na	10.93	91.6	24.21	13.61
111	2007	126	1230	52.86	na	10.34	92.8	21.85	13.6
111	2007	126	1245	53.63	na	9.54	79.3	20.81	13.6
111	2007	126	1300	54.1	na	9.74	74.1	17.7	13.64
111	2007	126	1315	53.99	na	9.24	87.2	20.02	13.6
111	2007	126	1330	55.46	na	9.04	87.9	26.73	13.59
111	2007	126	1345	55.32	na	8.1	87.3	24.57	13.58
111	2007	126	1400	55.38	na	9.97	88.3	25.68	13.58
111	2007	126	1415	55.83	na	9.15	115	25.21	13.58
111	2007	126	1430	56.29	na	8.44	97.2	26.22	13.57
111	2007	126	1445	56.08	na	8.72	99.8	27.9	13.56
111	2007	126	1500	56.14	na	7.69	82.5	28.06	13.6
111	2007	126	1515	55.27	na	4.465	98.9	70.8	13.56
111	2007	126	1530	53.67	na	6.344	154	31.01	13.57
111	2007	126	1545	52.45	na	9.82	169.8	21.76	13.58
111	2007	126	1600	52.05	na	11.09	172.3	18.24	13.59
111	2007	126	1615	52.3	na	10.86	172.9	18.29	13.6
111	2007	126	1630	52.13	na	11.12	158.3	21.61	13.59
111	2007	126	1645	51.77	na	10.92	156.2	18.2	13.6
111	2007	126	1700	51.31	na	11.35	150.1	18.1	13.6
111	2007	126	1715	51.29	na	11.05	142.4	13.05	13.61
111	2007	126	1730	51.16	na	11.13	149.7	18.99	13.61
111	2007	126	1745	50.58	na	11.41	148.7	14.95	13.67
111	2007	126	1800	50.13	na	11.46	155.9	18.26	13.62
111	2007	126	1815	49.78	na	11.55	148.7	18.02	13.64
111	2007	126	1830	49.4	na	11.86	152.2	16.69	13.65
111	2007	126	1845	49.05	na	10.63	145.1	18.52	13.66
111	2007	126	1900	49.01	na	10.32	144.9	17.35	13.66
111	2007	126	1915	48.63	na	10.41	151	17.51	13.67
111	2007	126	1930	48.26	na	9.8	140.7	15.62	13.14
111	2007	126	1945	47.92	na	7.76	145.7	16.15	13.06
111	2007	126	2000	47.62	na	6.65	145.5	17.43	12.99
111	2007	126	2015	47.33	na	5.103	162.8	21.02	13
111	2007	126	2030	46.92	na	5.39	139.8	16.27	12.92
111	2007	126	2045	46.76	na	3.895	122.2	35.94	12.96
111	2007	126	2100	46.53	na	3.629	100.6	18.33	12.87
111	2007	126	2115	46.34	na	4.036	102.2	22.21	12.87
111	2007	126	2130	46.12	na	3.44	97.1	18.11	12.91
111	2007	126	2145	45.81	na	2.06	60	25.58	12.85
111	2007	126	2200	45.61	na	1.71	121.6	31.82	12.89
111	2007	126	2215	45.5	na	2.223	97.4	16.21	12.83
111	2007	126	2230	45.04	na	1.617	47.81	30.28	12.81
111	2007	126	2245	44.46	na	1.929	94.9	16.19	12.81
111	2007	126	2300	44.09	na	0.717	40.18	31.71	12.79
111	2007	126	2315	43.6	na	1.859	64.2	23.5	12.79
111	2007	126	2330	43.46	na	2.442	79.9	18.38	12.79
111	2007	126	2345	43.27	na	1.925	82.4	16.93	12.78
111	2007	126	2400	43.01	na	2.967	69.21	14.18	12.76
111	2007	127	15	43.02	na	2.187	55.1	19.51	12.83
111	2007	127	30	42.62	na	1.535	76.1	21.89	12.82

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	127	45	41.97	na	0.466	39.72	8.41	12.76
111	2007	127	100	41.32	na	0.054	319.9	4.035	12.74
111	2007	127	115	40.53	na	0.644	53.47	6.603	12.74
111	2007	127	130	40.32	na	0.414	50.62	5.374	12.74
111	2007	127	145	39.6	na	0.036	280.3	1.104	12.73
111	2007	127	200	39.27	na	0.63	37.86	4.502	12.71
111	2007	127	215	39.83	na	1.855	32.59	13.09	12.71
111	2007	127	230	39.95	na	1.683	25.11	16.31	12.7
111	2007	127	245	39.81	na	1.347	55.69	18.12	12.7
111	2007	127	300	39.93	na	1.849	48.92	11.55	12.68
111	2007	127	315	40.36	na	2.022	81.6	21.58	12.68
111	2007	127	330	40.91	na	2.223	75.7	14.61	12.68
111	2007	127	345	40.7	na	1.262	73.3	12.5	12.67
111	2007	127	400	40.16	na	0.935	73.3	18.72	12.65
111	2007	127	415	39.69	na	1.361	63.32	20.45	12.65
111	2007	127	430	39.71	na	2.02	52.09	22.17	12.64
111	2007	127	445	39.38	na	1.028	47.83	17.24	12.64
111	2007	127	500	39.18	na	1.818	32.49	11.77	12.68
111	2007	127	515	38.91	na	1.836	23.51	10.84	12.62
111	2007	127	530	38.28	na	0.493	24.74	9.26	12.61
111	2007	127	545	37.69	na	0.516	12.28	9.88	12.6
111	2007	127	600	38.19	na	1.977	52.95	16.17	12.58
111	2007	127	615	39.17	na	2.434	53.72	14.63	12.6
111	2007	127	630	40.35	na	2.042	76.8	23.27	12.59
111	2007	127	645	41.69	na	2.203	73.2	19.14	12.61
111	2007	127	700	42.96	na	3.477	71.6	16.52	12.64
111	2007	127	715	44.15	na	4.658	74.5	17.01	12.71
111	2007	127	730	45.37	na	4.579	82.8	23.85	12.78
111	2007	127	745	46.4	na	5.014	76.5	22.88	12.86
111	2007	127	800	47.14	na	5.344	71.3	20.38	12.96
111	2007	127	815	47.97	na	5.217	57.4	24.54	13.09
111	2007	127	830	48.59	na	5.487	79.2	26.97	13.23
111	2007	127	845	49.24	na	5.553	73.1	24.26	13.34
111	2007	127	900	49.93	na	5.41	77.4	27.05	13.4
111	2007	127	915	50.65	na	5.899	73.8	28.64	13.48
111	2007	127	930	51.09	na	5.61	82.2	38.13	13.53
111	2007	127	945	51.81	na	6.244	68.93	17.35	13.64
111	2007	127	1000	52.56	na	4.865	84.2	34.13	13.62
111	2007	127	1015	53.22	na	5.183	95	46.53	13.6
111	2007	127	1030	54.17	na	5.891	70.6	33.87	13.59
111	2007	127	1045	54.44	na	4.915	114.3	45.56	13.58
111	2007	127	1100	54.96	na	6.169	74.5	27.24	13.57
111	2007	127	1115	55.52	na	5.95	122	31.91	13.57
111	2007	127	1130	55.67	na	4.762	190.1	35.7	13.56
111	2007	127	1145	55.38	na	6.362	206.1	21.96	13.56
111	2007	127	1200	55.41	na	7.27	204.7	20.16	13.55
111	2007	127	1215	55.32	na	6.616	214	25.28	13.55
111	2007	127	1230	55.33	na	6.223	208.1	27.59	13.56
111	2007	127	1245	55.46	na	6.235	202	27.18	13.56
111	2007	127	1300	55.71	na	5.922	196.5	31.51	13.54
111	2007	127	1315	55.6	na	6.996	212.5	31.77	13.56
111	2007	127	1330	54.81	na	7.28	212.9	30.92	13.61
111	2007	127	1345	54.2	na	8.37	189.6	21.49	13.56
111	2007	127	1400	54.26	na	7.2	185.9	24.47	13.56
111	2007	127	1415	55.39	na	7.18	177	25.85	13.56
111	2007	127	1430	55.69	na	6.887	181.2	25.3	13.56
111	2007	127	1445	55.3	na	7.78	173.5	22.71	13.56
111	2007	127	1500	55.2	na	8.13	174.3	23.22	13.55
111	2007	127	1515	55.53	na	7.72	170.1	22.51	13.56
111	2007	127	1530	55.85	na	7.8	177.2	24.14	13.55

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	127	1545	55.38	na	7.59	178.7	21.8	13.55
111	2007	127	1600	55.5	na	7.7	179.7	19.46	13.57
111	2007	127	1615	55.36	na	7.73	202.7	19.12	13.55
111	2007	127	1630	55.54	na	7.71	184.4	23.9	13.55
111	2007	127	1645	55.07	na	7.13	174.2	18.99	13.55
111	2007	127	1700	55.06	na	7.49	181.2	22.26	13.55
111	2007	127	1715	54.38	na	7.56	179.6	16.22	13.56
111	2007	127	1730	54.03	na	7.05	189	24.78	13.57
111	2007	127	1745	54.18	na	6.044	188.6	27.98	13.57
111	2007	127	1800	53.37	na	7.2	192.4	22.19	13.58
111	2007	127	1815	52.81	na	6.745	187.5	20.71	13.59
111	2007	127	1830	51.99	na	6.411	182.6	22.92	13.6
111	2007	127	1845	51.16	na	6.076	184.9	24.18	13.62
111	2007	127	1900	50.9	na	4.917	190.6	24.25	13.63
111	2007	127	1915	50.44	na	5.622	200.8	24.19	13.64
111	2007	127	1930	50.04	na	4.43	195.4	20.91	13.12
111	2007	127	1945	49.75	na	4.448	196.9	17.83	13.05
111	2007	127	2000	49.26	na	3.706	209.2	22.92	12.98
111	2007	127	2015	48.97	na	4.159	192.7	23.83	12.95
111	2007	127	2030	48.77	na	4.056	200.7	19.94	12.92
111	2007	127	2045	48.57	na	3.39	211.2	21.21	12.9
111	2007	127	2100	48.42	na	2.732	228.1	37.1	12.87
111	2007	127	2115	47.98	na	2.494	225.8	21.9	12.86
111	2007	127	2130	47.9	na	2.867	224.5	20.73	12.86
111	2007	127	2145	47.88	na	2.728	219.7	24.89	12.85
111	2007	127	2200	47.53	na	2.126	229.8	22.88	12.83
111	2007	127	2215	47.21	na	2.488	247.1	22.26	12.89
111	2007	127	2230	47.14	na	3.261	229	22.66	12.83
111	2007	127	2245	47.1	na	3.259	238.2	22.48	12.82
111	2007	127	2300	47.05	na	3.285	228.1	21.59	12.8
111	2007	127	2315	46.75	na	2.607	252.7	21.23	12.81
111	2007	127	2330	46.39	na	3.146	241.6	17.65	12.8
111	2007	127	2345	46.53	na	3.957	239.5	20.13	12.8
111	2007	127	2400	46.29	na	2.662	248.9	19.5	12.78
111	2007	128	15	46	na	1.971	263.6	15.86	12.79
111	2007	128	30	45.51	na	2.118	255.1	14.39	12.84
111	2007	128	45	45.42	na	2.73	250.4	17.42	12.83
111	2007	128	100	45.29	na	2.279	296.1	26.39	12.76
111	2007	128	115	44.81	na	0.715	18.95	17.3	12.77
111	2007	128	130	44.11	na	0.572	13.66	11.06	12.76
111	2007	128	145	43.44	na	0.744	21.42	14.6	12.75
111	2007	128	200	43	na	0.686	14.18	6.34	12.73
111	2007	128	215	42.63	na	na	na	na	12.73
111	2007	128	230	42.19	na	1.074	325.9	36.03	12.72
111	2007	128	245	41.92	na	0.198	328.5	4.029	12.71
111	2007	128	300	41.63	na	0.636	20.42	10	12.69
111	2007	128	315	41.56	na	0.49	1.388	22.95	12.69
111	2007	128	330	41.34	na	0.276	35.37	1.901	12.69
111	2007	128	345	41.23	na	0.572	331.5	27.61	12.68
111	2007	128	400	41.02	na	0.047	349.2	9.58	12.66
111	2007	128	415	40.81	na	0.292	287.7	12.37	12.66
111	2007	128	430	40.67	na	1.625	10.12	19.81	12.65
111	2007	128	445	40.52	na	0.138	26.58	5.072	12.65
111	2007	128	500	40.11	na	na	na	na	12.63
111	2007	128	515	39.9	na	0.372	30.92	5.138	12.63
111	2007	128	530	39.84	na	0.44	31.18	7.13	12.62
111	2007	128	545	39.73	na	1.233	12.78	17.25	12.61
111	2007	128	600	39.97	na	0.618	21.09	23.1	12.6
111	2007	128	615	40.56	na	0.127	60.27	14.43	12.61
111	2007	128	630	43.04	na	0.158	81.2	3.408	12.61

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	128	645	44.26	na	1.483	75.6	19.44	12.65
111	2007	128	700	46.38	na	0.424	165.1	26.06	12.69
111	2007	128	715	48.97	na	1.266	251.7	21.82	12.73
111	2007	128	730	49.31	na	2.179	263.3	28.6	12.76
111	2007	128	745	50.31	na	2.226	284.7	29.51	12.79
111	2007	128	800	51.35	na	2.496	337	63.53	12.81
111	2007	128	815	51.79	na	3.267	341.3	47.54	12.85
111	2007	128	830	52.71	na	3.305	289.3	32.41	12.89
111	2007	128	845	53.87	na	2.975	295.6	48.75	12.92
111	2007	128	900	54.95	na	2.556	287.4	37.54	12.94
111	2007	128	915	54.89	na	3.613	219	33.9	13
111	2007	128	930	55.45	na	3.633	207.8	38.36	13.03
111	2007	128	945	55.69	na	5.056	189.3	24.1	13.11
111	2007	128	1000	55.68	na	5.396	174.2	27.16	13.37
111	2007	128	1015	56.29	na	5.606	224.4	27.71	13.54
111	2007	128	1030	56.58	na	5.612	225.1	24.22	13.54
111	2007	128	1045	56.9	na	5.354	211.2	28.12	13.54
111	2007	128	1100	56.96	na	5.117	226.2	32.99	13.52
111	2007	128	1115	57.41	na	5.899	214.2	22.49	13.52
111	2007	128	1130	57.8	na	5.547	230.4	26.51	13.52
111	2007	128	1145	58.03	na	6.409	226.5	22.82	13.52
111	2007	128	1200	58.4	na	6.841	225.7	21.13	13.51
111	2007	128	1215	57.94	na	7.38	232	21.48	13.51
111	2007	128	1230	58.4	na	7.09	213.2	19.56	13.51
111	2007	128	1245	58.25	na	7.44	227.9	22.21	13.5
111	2007	128	1300	57.35	na	7.78	235.9	26.41	13.51
111	2007	128	1315	57.76	na	7.74	253.9	17.64	13.51
111	2007	128	1330	57.37	na	8.1	249.5	20.38	13.52
111	2007	128	1345	57.45	na	6.833	244.5	24.94	13.52
111	2007	128	1400	57.28	na	6.787	247.2	22.36	13.52
111	2007	128	1415	57.47	na	6.722	225.5	26.25	13.52
111	2007	128	1430	58.01	na	6.111	232.1	28.31	13.51
111	2007	128	1445	57.84	na	6.902	229.5	24.43	13.51
111	2007	128	1500	58.18	na	6.151	230.9	29.44	13.51
111	2007	128	1515	59.89	na	6.346	253.1	31.02	13.51
111	2007	128	1530	58.84	na	7.1	218.3	21.11	13.5
111	2007	128	1545	58.53	na	6.867	236.1	27.14	13.5
111	2007	128	1600	58.48	na	6.409	228	25.78	13.49
111	2007	128	1615	58.08	na	6.795	226.4	18.24	13.5
111	2007	128	1630	57.92	na	6.688	237.4	27.98	13.5
111	2007	128	1645	58.07	na	6.338	253.2	25.46	13.51
111	2007	128	1700	57.82	na	6.425	231.7	18.58	13.5
111	2007	128	1715	58.06	na	6.92	248.9	26.75	13.51
111	2007	128	1730	57.67	na	5.986	249.5	22.63	13.51
111	2007	128	1745	57.56	na	5.92	251.4	23.36	13.52
111	2007	128	1800	57.26	na	5.702	219.6	24.1	13.51
111	2007	128	1815	56.33	na	5.869	221	21.69	13.53
111	2007	128	1830	56.09	na	4.551	222.7	29.16	13.54
111	2007	128	1845	56.16	na	4.885	225.6	19.09	13.55
111	2007	128	1900	55.7	na	4.944	229.8	23.04	13.55
111	2007	128	1915	55.48	na	4.084	249.3	23.84	13.57
111	2007	128	1930	55	na	4.479	240.4	24.99	13.14
111	2007	128	1945	54.21	na	4.078	241.2	23.94	13.06
111	2007	128	2000	53.46	na	4.271	250.9	22.39	12.99
111	2007	128	2015	52.98	na	3.257	251.9	21.27	12.96
111	2007	128	2030	52.72	na	2.935	246.3	22.34	12.93
111	2007	128	2045	52.51	na	2.333	268.4	25.52	12.91
111	2007	128	2100	52.28	na	2.45	252.7	20.12	12.88
111	2007	128	2115	52.21	na	3.249	235.4	19.19	12.88
111	2007	128	2130	52.35	na	3.078	255.3	32.63	12.87

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	128	2145	52.44	na	2.829	275.4	25.08	12.86
111	2007	128	2200	52.35	na	2.702	259.1	17.43	12.84
111	2007	128	2215	52.52	na	2.525	250.4	17.48	12.84
111	2007	128	2230	52.73	na	2.782	263.8	14.61	12.84
111	2007	128	2245	53.55	na	4.372	266.2	22.17	12.84
111	2007	128	2300	54.15	na	4.521	274	22.25	12.82
111	2007	128	2315	54.32	na	5.779	271	20.91	12.84
111	2007	128	2330	54.21	na	4.728	267.8	23.28	12.84
111	2007	128	2345	54.11	na	4.714	279.6	22.95	12.83
111	2007	128	2400	54.19	na	4.334	277.8	24.2	12.82
111	2007	129	15	54.38	na	4.332	283.8	20.42	12.82
111	2007	129	30	54.6	na	4.801	282.7	19.65	12.82
111	2007	129	45	54.66	na	3.881	282	25.72	12.82
111	2007	129	100	54.72	na	3.998	276.3	21.82	12.81
111	2007	129	115	54.72	na	4.517	285.2	21.53	12.82
111	2007	129	130	54.89	na	4.616	290.2	15.3	12.81
111	2007	129	145	55	na	4.976	289.3	21.48	12.81
111	2007	129	200	54.97	na	4.034	305.3	32.91	12.79
111	2007	129	215	55.06	na	4.116	310.7	20.3	12.8
111	2007	129	230	55.05	na	3.458	286.2	20.95	12.79
111	2007	129	245	55	na	3.175	268.2	23.98	12.78
111	2007	129	300	54.96	na	2.69	291.3	26.24	12.77
111	2007	129	315	54.92	na	2.575	279.4	24.78	12.77
111	2007	129	330	54.68	na	2.527	300	25.92	12.82
111	2007	129	345	54.58	na	1.955	277.1	41.63	12.76
111	2007	129	400	54.48	na	1.875	281.7	21.99	12.74
111	2007	129	415	54.17	na	2.135	241.7	25.84	12.74
111	2007	129	430	53.8	na	1.696	258.8	23.73	12.74
111	2007	129	445	53.33	na	1.885	246.6	15.82	12.73
111	2007	129	500	52.69	na	1.859	263.4	17.65	12.71
111	2007	129	515	52.22	na	1.499	267.1	19.41	12.78
111	2007	129	530	51.96	na	1.432	264.7	17.67	12.71
111	2007	129	545	51.67	na	2.016	265.5	23.21	12.7
111	2007	129	600	52.07	na	2.432	254.6	20.64	12.69
111	2007	129	615	52.51	na	3.016	241.2	20.89	12.7
111	2007	129	630	51.8	na	2.998	251.8	20.2	12.69
111	2007	129	645	51.59	na	2.46	273.6	31.24	12.71
111	2007	129	700	51.9	na	2.223	253.2	22.31	12.76
111	2007	129	715	52.34	na	1.55	257.6	40.01	12.86
111	2007	129	730	52.89	na	1.34	253.8	45.39	13.01
111	2007	129	745	53.65	na	1.876	241.4	30.19	13.22
111	2007	129	800	54.49	na	2.233	261.5	31	13.26
111	2007	129	815	55.96	na	1.917	267.9	32.8	13.26
111	2007	129	830	57.04	na	3.175	234.2	28.86	13.18
111	2007	129	845	58.59	na	3.69	252.7	25.64	13.17
111	2007	129	900	59.55	na	4.716	234.9	21.19	13.16
111	2007	129	915	59.29	na	4.793	225.2	21.17	13.19
111	2007	129	930	58.27	na	5.598	218.6	16.94	13.21
111	2007	129	945	59.2	na	4.585	259.4	30.83	13.27
111	2007	129	1000	61.33	na	4.774	271.4	25.25	13.47
111	2007	129	1015	62.57	na	4.116	263.2	30.75	13.47
111	2007	129	1030	64.06	na	4.907	246.8	27.46	13.45
111	2007	129	1045	64.53	na	5.109	256.1	33.06	13.44
111	2007	129	1100	65.76	na	4.428	256.3	27.98	13.43
111	2007	129	1115	66.85	na	5.889	250.9	30.18	13.48
111	2007	129	1130	65.8	na	5.62	237.2	28.28	13.43
111	2007	129	1145	65.08	na	5.209	242.2	23.83	13.42
111	2007	129	1200	65.38	na	5.968	253.4	26.89	13.41
111	2007	129	1215	66.38	na	5.346	254.2	32.03	13.41
111	2007	129	1230	68.28	na	5.654	256	25.41	13.41

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	129	1245	68.69	na	6.256	269.6	27.07	13.4
111	2007	129	1300	68.91	na	5.056	259.5	24.57	13.39
111	2007	129	1315	69.46	na	5.92	255.9	25.6	13.4
111	2007	129	1330	69.84	na	7.24	260.6	29.32	13.39
111	2007	129	1345	69.46	na	6.557	260.5	30.52	13.39
111	2007	129	1400	69.78	na	6.652	259.4	24.28	13.38
111	2007	129	1415	70.5	na	7.4	266.3	25.94	13.39
111	2007	129	1430	69.37	na	6.857	237.2	25.05	13.39
111	2007	129	1445	66.94	na	7.75	241.4	22.04	13.39
111	2007	129	1500	65.84	na	7.22	241.2	23.32	13.39
111	2007	129	1515	63.05	na	7.85	219.1	20.88	13.41
111	2007	129	1530	63.58	na	7.27	250.8	30.27	13.41
111	2007	129	1545	64.17	na	6.708	237	23	13.41
111	2007	129	1600	64.29	na	6.861	246.2	24.48	13.4
111	2007	129	1615	64.52	na	7.13	250	27.64	13.41
111	2007	129	1630	64.56	na	5.712	258.5	24.93	13.41
111	2007	129	1645	64.09	na	5.688	254.2	28.25	13.42
111	2007	129	1700	63.32	na	6.533	266.1	25.75	13.41
111	2007	129	1715	64.11	na	5.66	262.8	24.42	13.43
111	2007	129	1730	64.46	na	6.242	254.8	27.26	13.43
111	2007	129	1745	62.14	na	7.19	230.9	21.5	13.45
111	2007	129	1800	60.1	na	6.193	237.5	23.91	13.45
111	2007	129	1815	60.45	na	4.823	233.7	25.98	13.47
111	2007	129	1830	60.09	na	5.388	243.5	24.57	13.2
111	2007	129	1845	60.12	na	5.282	239	23.64	13.11
111	2007	129	1900	60.01	na	4.632	241.1	25.56	13.02
111	2007	129	1915	59.49	na	4.183	246.8	20	12.99
111	2007	129	1930	59.29	na	3.718	240.9	25.44	12.95
111	2007	129	1945	59.38	na	3.392	255.3	29.85	12.94
111	2007	129	2000	59.9	na	3.702	256.7	26.95	12.91
111	2007	129	2015	60.36	na	4.905	248.9	22.55	12.91
111	2007	129	2030	59.1	na	6.117	234.6	20.08	12.9
111	2007	129	2045	58.21	na	4.046	247.4	22.45	12.89
111	2007	129	2100	58.23	na	2.953	259.3	27.9	12.88
111	2007	129	2115	59.04	na	3.883	255.5	28.91	12.88
111	2007	129	2130	59.65	na	5.437	271.6	27.48	12.87
111	2007	129	2145	59.84	na	4.235	268.3	24.89	12.87
111	2007	129	2200	60.2	na	5.294	274.8	23.13	12.85
111	2007	129	2215	60.15	na	5.708	263.8	23.92	12.86
111	2007	129	2230	59.6	na	6.095	277.5	21.46	12.86
111	2007	129	2245	58.27	na	5.608	277.8	19.89	12.85
111	2007	129	2300	58.07	na	4.616	275.1	23.16	12.84
111	2007	129	2315	58.29	na	4.064	272.4	24.05	12.84
111	2007	129	2330	58.53	na	5.579	271.6	24.41	12.84
111	2007	129	2345	57.88	na	4.388	262	24.9	12.84
111	2007	129	2400	57.77	na	6.01	275.3	22.96	12.82
111	2007	130	15	57.92	na	5.193	266.7	27.33	12.82
111	2007	130	30	57.92	na	5.304	279.5	22.14	12.82
111	2007	130	45	57.72	na	5.507	273.5	23.1	12.82
111	2007	130	100	57.8	na	4.879	275.4	22.41	12.8
111	2007	130	115	58.19	na	3.955	273.1	23.17	12.8
111	2007	130	130	58.33	na	4.147	261.2	21.92	12.8
111	2007	130	145	58.16	na	4.334	266.6	23.89	12.79
111	2007	130	200	58.02	na	4.271	267.7	24.85	12.78
111	2007	130	215	58.05	na	4.779	282.3	23.03	12.78
111	2007	130	230	58.4	na	3.466	303.1	26.11	12.77
111	2007	130	245	59.08	na	2.901	307.2	24.79	12.77
111	2007	130	300	59.76	na	2.492	281.9	32.45	12.76
111	2007	130	315	60.15	na	2.22	253.9	32.9	12.76
111	2007	130	330	60.41	na	3.028	267.9	28.57	12.8

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	130	345	60.06	na	3.138	250.3	25.6	12.75
111	2007	130	400	59.08	na	2.929	230.8	17.11	12.74
111	2007	130	415	58.44	na	2.486	259.8	25.58	12.74
111	2007	130	430	58.14	na	2.217	256.3	18.66	12.74
111	2007	130	445	57.93	na	2.307	241.2	19.49	12.74
111	2007	130	500	57.73	na	2.205	243.2	23.83	12.77
111	2007	130	515	57.67	na	2.195	274.3	27.14	12.73
111	2007	130	530	57.76	na	1.744	323.9	26.1	12.72
111	2007	130	545	58.01	na	0.623	277.3	32.04	12.72
111	2007	130	600	58.39	na	1.757	231.1	34.09	12.77
111	2007	130	615	58.55	na	2.221	207.1	18.41	12.72
111	2007	130	630	58.63	na	1.937	207.4	18.99	12.72
111	2007	130	645	58.66	na	2.653	196.4	19.27	12.72
111	2007	130	700	57.86	na	3.945	204.2	23.05	12.71
111	2007	130	715	56.54	na	3.817	211.4	21.03	12.75
111	2007	130	730	56.49	na	3.052	210.3	21.53	12.84
111	2007	130	745	56.91	na	3.279	220.2	20.77	12.96
111	2007	130	800	57.06	na	3.704	226.8	22.31	13.14
111	2007	130	815	57.12	na	3.573	224.3	27.1	13.29
111	2007	130	830	57.02	na	3.893	235.9	19.4	13.46
111	2007	130	845	57.65	na	3.513	239.8	30.16	13.55
111	2007	130	900	57.81	na	3.648	279.2	23.43	13.54
111	2007	130	915	58.17	na	2.839	288.1	21.85	13.53
111	2007	130	930	59.41	na	3.485	284.7	29.39	13.52
111	2007	130	945	60.21	na	3.754	277.8	21.11	13.51
111	2007	130	1000	60.87	na	3.144	263.1	29.11	13.49
111	2007	130	1015	61.48	na	3.412	239.5	28.86	13.48
111	2007	130	1030	62.33	na	3.756	261	30.76	13.47
111	2007	130	1045	63.18	na	4.314	253.7	24.15	13.46
111	2007	130	1100	64.28	na	4.805	264.7	26.3	13.43
111	2007	130	1115	65.27	na	5.102	259.9	22.61	13.43
111	2007	130	1130	66.54	na	5.497	265.7	33.84	13.42
111	2007	130	1145	67.18	na	5.746	272.6	25.62	13.41
111	2007	130	1200	68.25	na	4.722	256.4	31.08	13.39
111	2007	130	1215	68.5	na	6.231	239.9	22.34	13.39
111	2007	130	1230	69.02	na	5.263	256.9	24.81	13.39
111	2007	130	1245	69.82	na	6.149	228.4	36.48	13.38
111	2007	130	1300	68.87	na	7.09	218.1	23.09	13.37
111	2007	130	1315	66.25	na	6.831	223.4	22.12	13.45
111	2007	130	1330	65.87	na	6.68	231.1	17.88	13.38
111	2007	130	1345	66.95	na	6.193	200.8	24.71	13.39
111	2007	130	1400	67.02	na	6.189	204	28.65	13.44
111	2007	130	1415	66.42	na	6.602	202.1	25.61	13.39
111	2007	130	1430	65.71	na	6.739	216.3	31.77	13.39
111	2007	130	1445	63.88	na	7.51	218.8	20.59	13.46
111	2007	130	1500	63.55	na	7.1	216.4	24.77	13.39
111	2007	130	1515	63.57	na	7.55	213.3	23.45	13.4
111	2007	130	1530	63.08	na	7.04	221	20.82	13.41
111	2007	130	1545	63.89	na	6.066	246.7	22.34	13.41
111	2007	130	1600	65.24	na	5.515	229.6	24.2	13.4
111	2007	130	1615	66.07	na	5.905	247.1	26.2	13.41
111	2007	130	1630	67.38	na	5.141	241.3	23.75	13.4
111	2007	130	1645	66.94	na	6.515	228.3	25.45	13.4
111	2007	130	1700	64.28	na	5.4	215.9	27.82	13.41
111	2007	130	1715	62.88	na	5.35	202.5	20.61	13.43
111	2007	130	1730	62.68	na	4.76	238.8	18.98	13.43
111	2007	130	1745	63.06	na	3.903	255.6	32.41	13.44
111	2007	130	1800	62.51	na	4.939	210.2	33.23	13.44
111	2007	130	1815	61.3	na	4.197	189.4	19.32	13.29
111	2007	130	1830	61.12	na	4.052	199.1	21.27	13.21

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	130	1845	60.84	na	3.014	220.3	28.41	13.09
111	2007	130	1900	60.84	na	3.557	227.3	21.03	13.01
111	2007	130	1915	60.61	na	4.07	213.8	23.75	12.98
111	2007	130	1930	60.35	na	3.857	205.5	21	12.96
111	2007	130	1945	59.81	na	3.778	213.5	21.92	12.93
111	2007	130	2000	59.38	na	3.595	218.6	24.81	12.91
111	2007	130	2015	59.27	na	4.374	207.9	19.09	12.91
111	2007	130	2030	58.51	na	3.913	218.1	23.96	12.9
111	2007	130	2045	58.31	na	3.686	221.4	23.03	12.89
111	2007	130	2100	58.24	na	3.744	226.9	20.83	12.87
111	2007	130	2115	57.8	na	4.104	222.7	20.55	12.88
111	2007	130	2130	57.14	na	4.229	198.8	21.08	12.87
111	2007	130	2145	56.76	na	5.68	197.8	18.47	12.86
111	2007	130	2200	56.22	na	4.038	200.6	22.82	12.85
111	2007	130	2215	55.86	na	4.43	205	15.52	12.85
111	2007	130	2230	55.98	na	3.332	234.3	23.92	12.84
111	2007	130	2245	56.21	na	2.839	256.2	29.34	12.84
111	2007	130	2300	56.54	na	2.925	246.7	27.87	12.83
111	2007	130	2315	56.42	na	3.947	255	27.18	12.83
111	2007	130	2330	56.14	na	3.483	240.2	26.74	12.83
111	2007	130	2345	55.91	na	3.491	230	24.32	12.82
111	2007	130	2400	55.89	na	2.688	222.5	20.58	12.81
111	2007	131	15	56.11	na	3.267	237.2	29.9	12.82
111	2007	131	30	55.94	na	3.865	241	23.58	12.82
111	2007	131	45	55.8	na	3.253	241.7	24.8	12.81
111	2007	131	100	55.65	na	3.627	223.8	18.05	12.79
111	2007	131	115	55.66	na	3.366	225.8	23.56	12.8
111	2007	131	130	55.67	na	3.253	223.7	22.82	12.8
111	2007	131	145	55.5	na	2.919	250.8	26.46	12.79
111	2007	131	200	55.27	na	2.593	246.2	21.11	12.78
111	2007	131	215	55.21	na	3.547	222.4	16.94	12.78
111	2007	131	230	55.16	na	3.78	216.2	20.1	12.77
111	2007	131	245	54.81	na	3.104	218.3	20.83	12.77
111	2007	131	300	54.48	na	2.444	246.7	22.11	12.81
111	2007	131	315	54.51	na	2.118	250	27.24	12.76
111	2007	131	330	54.7	na	1.963	235.9	26.91	12.75
111	2007	131	345	54.92	na	2.977	232.1	17.33	12.74
111	2007	131	400	55.01	na	3.14	236.6	24.29	12.72
111	2007	131	415	54.62	na	3.201	227.9	24.03	12.73
111	2007	131	430	54.21	na	3.028	228.7	21.26	12.72
111	2007	131	445	54.19	na	1.925	247.7	24.43	12.79
111	2007	131	500	54.3	na	2.573	282.9	25.08	12.7
111	2007	131	515	54.34	na	1.573	246.6	38.26	12.71
111	2007	131	530	54.49	na	2.76	216.5	27.35	12.71
111	2007	131	545	54.61	na	2.024	254.2	20.7	12.7
111	2007	131	600	54.72	na	2.267	223.4	20.27	12.69
111	2007	131	615	54.69	na	2.464	220.6	24.59	12.7
111	2007	131	630	54.85	na	2.217	221.9	26.64	12.74
111	2007	131	645	55.2	na	2.825	230.6	28.64	13.15
111	2007	131	700	55.79	na	3.074	230.4	30.02	13.57
111	2007	131	715	56.33	na	3.398	252.7	28.29	13.44
111	2007	131	730	56.76	na	3.714	263.7	25.01	13.2
111	2007	131	745	56.51	na	2.863	243.7	31.06	13.08
111	2007	131	800	56.25	na	2.887	254.2	23.7	12.99
111	2007	131	815	56.26	na	2.818	247.1	30.06	12.93
111	2007	131	830	56.48	na	3.297	220.3	27.57	12.88
111	2007	131	845	56.47	na	3.09	232.1	20.6	12.85
111	2007	131	900	56.26	na	4.062	203	20.17	12.82
111	2007	131	915	55.95	na	5.521	218.7	33.89	13
111	2007	131	930	55.89	na	4.45	225.5	22.88	13.17

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	131	945	56.38	na	3.412	228.3	24.56	13.46
111	2007	131	1000	57.04	na	4.12	237	25.6	13.54
111	2007	131	1015	57.79	na	3.668	244.9	26.35	13.56
111	2007	131	1030	58.11	na	3.579	254.9	21.59	13.58
111	2007	131	1045	58.77	na	3.485	257.5	27.88	13.54
111	2007	131	1100	58.96	na	6.427	280.2	21.92	13.54
111	2007	131	1115	59.07	na	4.577	279	27.5	13.53
111	2007	131	1130	59.33	na	5.056	257.5	24.43	13.52
111	2007	131	1145	60	na	4.33	255.4	31.23	13.57
111	2007	131	1200	60.4	na	4.376	236.4	29.68	13.49
111	2007	131	1215	60.08	na	5.583	227	25.15	13.48
111	2007	131	1230	59.05	na	5.708	241.1	20.31	13.49
111	2007	131	1245	59.14	na	4.607	268.7	27.95	13.49
111	2007	131	1300	59.17	na	3.74	257.1	23.17	13.49
111	2007	131	1315	59.31	na	4.722	222.6	23.46	13.49
111	2007	131	1330	59.3	na	5.463	218.3	19.85	13.49
111	2007	131	1345	60.11	na	4.819	249.2	25.55	13.48
111	2007	131	1400	61.52	na	5.626	235.3	31.1	13.46
111	2007	131	1415	62.29	na	4.499	240.1	28.96	13.47
111	2007	131	1430	63.17	na	4.044	236.2	26.14	13.46
111	2007	131	1445	63.97	na	4.118	243.4	42.2	13.45
111	2007	131	1500	66.02	na	3.917	288.3	47.32	13.43
111	2007	131	1515	66.86	na	4.096	260.1	36.15	13.43
111	2007	131	1530	67.1	na	3.794	236.9	32.48	13.42
111	2007	131	1545	67.12	na	3.795	224.3	36.63	13.41
111	2007	131	1600	67.95	na	3.857	199.4	26.78	13.39
111	2007	131	1615	68	na	5.308	184.5	17.44	13.4
111	2007	131	1630	66.08	na	5.38	213.6	15.39	13.41
111	2007	131	1645	65.08	na	5.292	217.8	16.91	13.42
111	2007	131	1700	65.15	na	4.714	219.5	18.22	13.42
111	2007	131	1715	65.18	na	3.412	204.6	24.92	13.43
111	2007	131	1730	64.06	na	5.336	226.4	25.12	13.43
111	2007	131	1745	62.26	na	4.599	237.4	19.57	13.31
111	2007	131	1800	60.68	na	4.084	208.4	20.73	13.44
111	2007	131	1815	59.56	na	4.211	201.9	20.69	13.49
111	2007	131	1830	59.27	na	3.621	233	24.92	13.44
111	2007	131	1845	59.25	na	3.533	210	22.33	13.15
111	2007	131	1900	59.16	na	4.052	239.3	28.3	13.05
111	2007	131	1915	59.19	na	2.12	258.2	35.39	13.02
111	2007	131	1930	59.44	na	1.953	231.4	35.77	12.98
111	2007	131	1945	59.77	na	2.494	258.8	29.14	12.96
111	2007	131	2000	59.96	na	1.79	251.2	29.85	12.92
111	2007	131	2015	60.13	na	2.058	245.3	27.55	12.92
111	2007	131	2030	60.35	na	1.826	243.8	18.04	12.91
111	2007	131	2045	60.2	na	1.817	258.1	17.88	12.9
111	2007	131	2100	60.02	na	0.919	275	24.35	12.88
111	2007	131	2115	60.06	na	0.816	267.4	13.24	12.88
111	2007	131	2130	59.89	na	0.773	271.1	20.96	12.88
111	2007	131	2145	59.91	na	0.358	186	13.02	12.88
111	2007	131	2200	60.16	na	0.82	253.2	59.81	12.86
111	2007	131	2215	59.75	na	1.6	295	21.62	12.86
111	2007	131	2230	59.46	na	0.545	295.2	25.11	12.86
111	2007	131	2245	59.35	na	0.865	340.6	17.58	12.85
111	2007	131	2300	59.24	na	0.069	335.7	3.059	12.84
111	2007	131	2315	59.06	na	0.482	301.8	5.031	12.84
111	2007	131	2330	58.81	na	0.713	268.7	19.2	12.84
111	2007	131	2345	58.63	na	0.009	1.927	0	12.83
111	2007	131	2400	58.86	na	0.058	356.2	1.621	12.82
111	2007	132	15	58.64	na	0.394	283	5.634	12.82
111	2007	132	30	58.36	na	1.074	8.09	38.53	12.82

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	132	45	58.41	na	0.314	304.5	18.75	12.8
111	2007	132	100	58.01	na	1.104	286	12.69	12.79
111	2007	132	115	57.72	na	0.553	58.66	9.25	12.8
111	2007	132	130	57.92	na	0.692	308	37.55	12.79
111	2007	132	145	58.03	na	0.703	39.65	8.5	12.78
111	2007	132	200	58.13	na	1.391	99.7	26.02	12.76
111	2007	132	215	58.22	na	0.128	305.7	2.341	12.77
111	2007	132	230	57.72	na	1.937	272.8	27.39	12.76
111	2007	132	245	57.24	na	0.241	290.5	16.86	12.75
111	2007	132	300	57.58	na	1.341	351.8	17.88	12.74
111	2007	132	315	57.5	na	0.776	267.3	68.44	12.74
111	2007	132	330	60.51	na	4.125	58.45	23	12.74
111	2007	132	345	63.8	na	5.722	54.06	20.1	12.73
111	2007	132	400	64.26	na	5.06	52.98	21.46	12.72
111	2007	132	415	64.03	na	5.217	50.43	22.23	12.72
111	2007	132	430	63.69	na	5.306	50	20.33	12.72
111	2007	132	445	63.41	na	5.881	49.9	19.98	12.72
111	2007	132	500	63.09	na	5.585	52.66	17.5	12.71
111	2007	132	515	62.73	na	4.825	51.26	21.66	12.72
111	2007	132	530	62.63	na	5.59	49.69	21.45	12.72
111	2007	132	545	62.67	na	5.102	60.29	20.74	12.72
111	2007	132	600	62.67	na	5.453	57.98	20.99	12.71
111	2007	132	615	62.55	na	4.917	58.43	20.26	12.72
111	2007	132	630	62.39	na	5.63	58.75	18.67	12.72
111	2007	132	645	62.31	na	5.302	64.31	17.47	12.75
111	2007	132	700	62.71	na	4.553	64.96	21	12.83
111	2007	132	715	62.87	na	5.652	70.2	18.91	12.9
111	2007	132	730	63.18	na	6.312	60.16	20.77	13.03
111	2007	132	745	63.59	na	6.219	65.67	20.65	13.23
111	2007	132	800	63.7	na	7.11	79	22.98	13.48
111	2007	132	815	63.95	na	6.785	74.6	20.54	13.48
111	2007	132	830	64.38	na	7.9	70.2	19.97	13.48
111	2007	132	845	65.08	na	7.31	60.37	22.53	13.46
111	2007	132	900	64.94	na	7.45	56.86	18.01	13.45
111	2007	132	915	65.65	na	7.49	65.23	20.96	13.45
111	2007	132	930	65.32	na	6.821	58.22	22.04	13.45
111	2007	132	945	65.85	na	6.431	69.44	21.03	13.44
111	2007	132	1000	66.39	na	7.95	76.8	23.98	13.43
111	2007	132	1015	66.32	na	7.6	88.9	21.49	13.43
111	2007	132	1030	66.59	na	8.29	102.4	24.97	13.43
111	2007	132	1045	66.89	na	7.06	84.1	26.57	13.42
111	2007	132	1100	66.46	na	6.652	75.7	27.54	13.41
111	2007	132	1115	66.46	na	6.085	81.5	20.07	13.41
111	2007	132	1130	66.39	na	5.918	87.9	55.89	13.41
111	2007	132	1145	64.51	na	8.85	174	20.06	13.42
111	2007	132	1200	63.62	na	9.41	190.1	19.1	13.42
111	2007	132	1215	62.87	na	9.49	185.9	20.39	13.43
111	2007	132	1230	62.09	na	10.03	186	18.08	13.45
111	2007	132	1245	62.19	na	9.49	186.2	16.18	13.45
111	2007	132	1300	62.31	na	9.71	188	15.53	13.44
111	2007	132	1315	62.3	na	9.49	185.8	18.93	13.45
111	2007	132	1330	62.13	na	9.53	185.5	18.12	13.45
111	2007	132	1345	61.89	na	8.6	184.1	23.06	13.46
111	2007	132	1400	61.39	na	8.94	182	20.46	13.45
111	2007	132	1415	61.49	na	9.45	179.2	21.35	13.46
111	2007	132	1430	61.37	na	10.06	177.5	21.05	13.46
111	2007	132	1445	60.55	na	10.6	180.1	19.12	13.47
111	2007	132	1500	59.62	na	10.61	181	18.27	13.47
111	2007	132	1515	59.31	na	10.37	179.2	17.36	13.48
111	2007	132	1530	58.95	na	10.49	174.1	21.99	13.48

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	132	1545	58.76	na	10.09	174.4	20.79	13.49
111	2007	132	1600	58.72	na	9.54	168.2	21.52	13.49
111	2007	132	1615	58.62	na	9.83	167.9	21.11	13.49
111	2007	132	1630	58.23	na	9.27	172.2	22.48	13.5
111	2007	132	1645	57.95	na	9.56	180.4	16.18	13.51
111	2007	132	1700	57.89	na	9.6	166.3	20.05	13.5
111	2007	132	1715	57.71	na	9.75	175.2	21.26	13.51
111	2007	132	1730	57.1	na	9.48	180.3	19.27	13.52
111	2007	132	1745	57.12	na	9.07	175.7	22.05	13.53
111	2007	132	1800	56.36	na	10.71	163.7	19.35	13.53
111	2007	132	1815	56.06	na	10.05	169.5	19.62	13.55
111	2007	132	1830	55.35	na	7.93	167.3	18.21	13.21
111	2007	132	1845	54.71	na	7.75	156.1	18.5	13.22
111	2007	132	1900	54.51	na	8.46	165.8	17.34	13.1
111	2007	132	1915	54.32	na	7.95	166.8	17.59	13.03
111	2007	132	1930	54.12	na	6.825	159.6	20.6	12.98
111	2007	132	1945	53.83	na	7.63	154.8	18.47	12.94
111	2007	132	2000	53.52	na	7.14	155.7	19.5	12.9
111	2007	132	2015	53.39	na	5.954	148.9	17.15	12.9
111	2007	132	2030	53.22	na	5.443	145.8	18.17	12.88
111	2007	132	2045	53.04	na	5.326	151.2	20.92	12.87
111	2007	132	2100	52.9	na	4.748	154.1	17.77	12.85
111	2007	132	2115	52.79	na	4.807	147.4	17.53	12.85
111	2007	132	2130	52.71	na	4.296	153.5	24.45	12.84
111	2007	132	2145	52.79	na	4.513	147.9	15.7	12.84
111	2007	132	2200	52.83	na	3.911	127.1	25.79	12.82
111	2007	132	2215	52.79	na	3.776	135.6	17.6	12.82
111	2007	132	2230	52.8	na	1.321	137.2	62.34	12.82
111	2007	132	2245	52.88	na	1.985	8.34	28.09	12.82
111	2007	132	2300	52.73	na	2.174	2.133	32.15	12.81
111	2007	132	2315	52.57	na	2.998	4.445	26.69	12.81
111	2007	132	2330	52.43	na	2.068	18.88	32.94	12.8
111	2007	132	2345	52.24	na	3.269	91.8	34.7	12.8
111	2007	132	2400	51.95	na	3.957	127.9	19.89	12.79
111	2007	133	15	51.63	na	3.249	137.6	31.64	12.79
111	2007	133	30	51.2	na	3.398	105.2	38.11	12.79
111	2007	133	45	51.05	na	1.541	76.9	43.67	12.79
111	2007	133	100	50.98	na	2.094	84.5	30.82	12.77
111	2007	133	115	50.9	na	3.239	51.14	21.86	12.78
111	2007	133	130	50.7	na	2.678	76.4	42.49	12.77
111	2007	133	145	50.68	na	2.503	109.2	87	12.77
111	2007	133	200	50.66	na	2.68	69.67	17.98	12.74
111	2007	133	215	50.56	na	2.33	82.6	20.98	12.76
111	2007	133	230	50.43	na	3.036	95.7	21.42	12.75
111	2007	133	245	50.03	na	2.44	69.31	16.8	12.74
111	2007	133	300	50	na	2.943	63.24	24.54	12.73
111	2007	133	315	50.06	na	2.597	41.61	22.25	12.73
111	2007	133	330	50.13	na	1.681	33.22	33.83	12.74
111	2007	133	345	50.31	na	2.267	61.76	15.11	12.72
111	2007	133	400	50.42	na	1.73	38.58	22.19	12.7
111	2007	133	415	50.37	na	1.333	29.29	20.82	12.71
111	2007	133	430	50.27	na	1.073	48.16	33.01	12.7
111	2007	133	445	50.24	na	1.238	30.15	35.29	12.7
111	2007	133	500	50.19	na	1.17	93.6	27.57	12.68
111	2007	133	515	50.23	na	0.705	99.6	22.64	12.68
111	2007	133	530	50.48	na	1.782	75	19.11	12.68
111	2007	133	545	50.69	na	1.529	44.75	20.12	12.68
111	2007	133	600	50.76	na	2.436	39.76	21	12.66
111	2007	133	615	50.96	na	1.447	60.45	22.55	12.67
111	2007	133	630	51.16	na	1.961	50.4	22.31	12.66

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	133	645	51.42	na	2.998	29.88	17.81	12.66
111	2007	133	700	51.73	na	4.704	41.08	21.37	12.66
111	2007	133	715	51.89	na	6.372	56.4	20.72	12.89
111	2007	133	730	52.15	na	7.29	59.48	21.65	13.09
111	2007	133	745	52.59	na	7.57	73.8	23.84	13.16
111	2007	133	800	53.27	na	8.87	69.8	23.16	13.24
111	2007	133	815	53.4	na	10.05	68.47	20.27	13.42
111	2007	133	830	53.87	na	10.05	69.18	20.82	13.46
111	2007	133	845	54.66	na	8.92	71.2	21.76	13.44
111	2007	133	900	55.22	na	9.55	69.82	23.22	13.44
111	2007	133	915	55.57	na	9.81	70.4	23	13.48
111	2007	133	930	55.85	na	10.04	61.28	20.18	13.53
111	2007	133	945	56.63	na	9.15	58.18	22.53	13.58
111	2007	133	1000	57.24	na	9.87	64.5	22.35	13.56
111	2007	133	1015	57.47	na	9.35	69.04	20.95	13.56
111	2007	133	1030	57.9	na	9.22	56.4	19.97	13.55
111	2007	133	1045	58.51	na	8.44	60.31	24.68	13.54
111	2007	133	1100	58.77	na	9.17	64.38	24.12	13.53
111	2007	133	1115	59.05	na	9.07	64.64	22.91	13.53
111	2007	133	1130	59.84	na	8.95	54.78	23.2	13.52
111	2007	133	1145	60.17	na	8.53	58.54	25.17	13.52
111	2007	133	1200	60.61	na	8.5	45.13	27.18	13.51
111	2007	133	1215	61.48	na	8.38	38.86	24.24	13.51
111	2007	133	1230	61.51	na	8.7	56.46	26.78	13.5
111	2007	133	1245	62.04	na	8.4	50.02	25.86	13.5
111	2007	133	1300	62.45	na	8.02	40.94	31.88	13.48
111	2007	133	1315	62.79	na	7.94	34.22	31.83	13.49
111	2007	133	1330	63.11	na	7.06	46.69	30.65	13.49
111	2007	133	1345	63.42	na	7.36	38.31	31.99	13.48
111	2007	133	1400	63.35	na	8.68	52.27	33.72	13.47
111	2007	133	1415	63.43	na	8.35	61.4	26.13	13.48
111	2007	133	1430	63.87	na	8.01	42.86	32.86	13.47
111	2007	133	1445	64.02	na	8.03	45.01	28.42	13.47
111	2007	133	1500	64.2	na	8.69	45.98	32.1	13.46
111	2007	133	1515	64.73	na	7.65	47.14	20.89	13.46
111	2007	133	1530	64.66	na	9.2	59.85	20.24	13.46
111	2007	133	1545	64.91	na	7.73	16.74	33.51	13.46
111	2007	133	1600	65.02	na	7.81	26.64	28.33	13.45
111	2007	133	1615	64.82	na	8.97	34.5	24.35	13.45
111	2007	133	1630	65.25	na	8.34	45.85	24.31	13.45
111	2007	133	1645	65.59	na	7.89	43.45	31.69	13.45
111	2007	133	1700	65.79	na	8.57	42.26	26.48	13.45
111	2007	133	1715	65.81	na	7.95	20.19	29.29	13.45
111	2007	133	1730	65.6	na	9.2	34.82	25.28	13.45
111	2007	133	1745	65.52	na	8.65	38.1	27.31	13.46
111	2007	133	1800	65.42	na	8.38	34.6	23.95	13.45
111	2007	133	1815	65.08	na	8.09	48.05	24.64	13.47
111	2007	133	1830	64.68	na	7.93	54.16	23.54	13.47
111	2007	133	1845	64.42	na	7.91	50.74	20.46	13.48
111	2007	133	1900	63.94	na	7.43	53.29	22.69	13.48
111	2007	133	1915	63.69	na	5.433	52.99	22.27	13.49
111	2007	133	1930	63.04	na	5.199	65.22	21.63	13.15
111	2007	133	1945	62.25	na	3.963	64.16	21.98	13.06
111	2007	133	2000	61.46	na	3.231	75	21.39	13
111	2007	133	2015	60.57	na	2.327	58.32	20.87	12.97
111	2007	133	2030	59.69	na	1.811	71.5	13.64	12.94
111	2007	133	2045	58.4	na	1.174	41.6	15.5	12.92
111	2007	133	2100	57.28	na	0.75	34.69	14.3	12.9
111	2007	133	2115	56.25	na	0.294	14.8	16.91	12.89
111	2007	133	2130	55.11	na	0.853	36.13	12.04	12.88

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	133	2145	54.25	na	0.407	24.7	10.79	12.86
111	2007	133	2200	53.47	na	0.323	4.196	16.89	12.84
111	2007	133	2215	52.65	na	0.947	314.2	18.13	12.84
111	2007	133	2230	51.72	na	1.406	303.4	7.49	12.83
111	2007	133	2245	51.11	na	1.176	335.9	24.56	12.82
111	2007	133	2300	50.68	na	0.444	4.899	18.92	12.81
111	2007	133	2315	50.59	na	0.225	62.92	8.83	12.81
111	2007	133	2330	50.86	na	1.344	45.51	22.83	12.8
111	2007	133	2345	51.2	na	1.597	23.34	25.16	12.79
111	2007	133	2400	50.88	na	1.543	14.94	33.45	12.77
111	2007	134	15	52.44	na	4.235	49.63	22.76	12.78
111	2007	134	30	54.38	na	4.911	47.5	17.72	12.78
111	2007	134	45	54.67	na	4.837	50.57	20.42	12.78
111	2007	134	100	54.51	na	5.288	55.52	20.16	12.76
111	2007	134	115	53.89	na	4.533	65.4	18.25	12.77
111	2007	134	130	53.18	na	4.762	65.43	17.94	12.78
111	2007	134	145	52.52	na	3.414	64.92	21.81	12.77
111	2007	134	200	51.81	na	3.338	61.09	17.22	12.76
111	2007	134	215	51.23	na	2.738	64.76	18.24	12.76
111	2007	134	230	50.47	na	1.8	52.79	16.16	12.76
111	2007	134	245	49.31	na	1.365	64.63	14.33	12.75
111	2007	134	300	48.9	na	1.977	65.62	13.75	12.73
111	2007	134	315	48.39	na	2.014	49.83	15.53	12.73
111	2007	134	330	47.8	na	1.802	57.02	12.75	12.72
111	2007	134	345	47.09	na	2.018	45.27	14.19	12.71
111	2007	134	400	46.88	na	2.125	61.52	22.19	12.69
111	2007	134	415	46.82	na	1.999	55.22	17.46	12.69
111	2007	134	430	46.19	na	0.843	35.19	34.68	12.68
111	2007	134	445	44.32	na	1.746	293.8	9.52	12.68
111	2007	134	500	42.73	na	0.789	286.4	9.46	12.65
111	2007	134	515	41.72	na	0.529	326	16.81	12.66
111	2007	134	530	41.39	na	0.881	21.19	10.05	12.64
111	2007	134	545	41.25	na	0.442	22.44	9.23	12.63
111	2007	134	600	40.75	na	na	na	na	12.61
111	2007	134	615	41.47	na	0.26	311.4	9.18	12.61
111	2007	134	630	43.12	na	0.4	16.63	10.26	12.61
111	2007	134	645	46.33	na	1.451	51.38	12.34	12.63
111	2007	134	700	48.08	na	1.896	58.7	23.16	12.67
111	2007	134	715	50.2	na	1.593	53.76	21.92	12.72
111	2007	134	730	51.87	na	2.46	62.23	23.55	12.78
111	2007	134	745	53.67	na	2.192	49.15	48.65	12.85
111	2007	134	800	55.63	na	1.262	53.21	43.53	12.9
111	2007	134	815	57.4	na	1.78	318.7	77.9	12.98
111	2007	134	830	58.41	na	1.407	227.6	82.4	13.04
111	2007	134	845	58.87	na	2.478	182.5	57.36	13.11
111	2007	134	900	58.81	na	4.626	181.5	27.64	13.17
111	2007	134	915	59.22	na	3.297	194.7	40.65	13.24
111	2007	134	930	59.73	na	3.374	181.7	46.18	13.3
111	2007	134	945	60.14	na	4.408	223.2	36.64	13.39
111	2007	134	1000	60.65	na	4.368	231.5	25.55	13.51
111	2007	134	1015	60.68	na	5.557	243.6	35.2	13.51
111	2007	134	1030	60.89	na	5.563	232.7	31.79	13.5
111	2007	134	1045	60.63	na	6.246	256.2	26.49	13.5
111	2007	134	1100	61.42	na	5.962	264.3	24.17	13.49
111	2007	134	1115	61.31	na	5.984	252.1	24.67	13.49
111	2007	134	1130	61.26	na	6.829	255	27.05	13.49
111	2007	134	1145	61.55	na	6.837	254.4	23.66	13.49
111	2007	134	1200	61.89	na	6.803	244.8	25.04	13.47
111	2007	134	1215	62.16	na	7.58	267.8	24.01	13.48
111	2007	134	1230	62.5	na	8.2	273.8	26.32	13.48

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	134	1245	62.33	na	8.58	281.7	22.11	13.48
111	2007	134	1300	62.69	na	8.78	272.3	25.83	13.47
111	2007	134	1315	62.65	na	8.64	271.1	23.25	13.48
111	2007	134	1330	62.32	na	8.72	274.2	25.29	13.49
111	2007	134	1345	61.81	na	9.48	266.6	22.9	13.49
111	2007	134	1400	61.71	na	8.7	260.5	22.77	13.47
111	2007	134	1415	61.48	na	9.81	280.4	22.75	13.49
111	2007	134	1430	61.18	na	9.74	269.6	24.36	13.49
111	2007	134	1445	61.47	na	9.6	271.5	28.15	13.49
111	2007	134	1500	60.63	na	10.26	265.7	21.65	13.48
111	2007	134	1515	60.5	na	10.49	269.4	23.43	13.49
111	2007	134	1530	61.04	na	8.98	277.3	25.94	13.49
111	2007	134	1545	60.99	na	9.69	271.7	20.25	13.49
111	2007	134	1600	60.48	na	9.12	255.2	24.84	13.48
111	2007	134	1615	60.62	na	8.7	271.2	25.94	13.49
111	2007	134	1630	60.52	na	9.35	263.3	24.91	13.49
111	2007	134	1645	59.98	na	9.18	269.4	22.11	13.5
111	2007	134	1700	59.59	na	9.92	264.3	25	13.5
111	2007	134	1715	59.54	na	8.63	265.8	23.55	13.51
111	2007	134	1730	59.32	na	8.73	255.5	23.99	13.51
111	2007	134	1745	59.42	na	8.04	262.5	24.86	13.52
111	2007	134	1800	58.62	na	8.81	262.4	22.06	13.52
111	2007	134	1815	58.15	na	7.98	256.5	28.77	13.53
111	2007	134	1830	57.73	na	7.67	266.3	26.5	13.54
111	2007	134	1845	56.99	na	7.27	255.6	23.41	13.56
111	2007	134	1900	56.61	na	6.984	259.7	22.63	13.55
111	2007	134	1915	56	na	7.75	267.4	24.25	13.58
111	2007	134	1930	55.12	na	6.336	262.3	22.47	13.24
111	2007	134	1945	54.71	na	6.358	257.6	21.93	13.08
111	2007	134	2000	54.35	na	5.264	259.7	23.24	13
111	2007	134	2015	54.2	na	5.507	253.4	23.15	12.96
111	2007	134	2030	54.17	na	6.803	255.8	21.23	12.93
111	2007	134	2045	54.05	na	7.56	263.2	21.6	12.91
111	2007	134	2100	54.05	na	5.684	261.8	25.2	12.88
111	2007	134	2115	54.1	na	6.105	264.7	24.96	12.88
111	2007	134	2130	54.19	na	6.177	257.6	23.39	12.87
111	2007	134	2145	54.31	na	6.165	259.4	22.76	12.86
111	2007	134	2200	54.61	na	7.96	266.8	22.98	12.84
111	2007	134	2215	54.64	na	7.64	262.6	22.08	12.85
111	2007	134	2230	54.39	na	8.5	271.8	18.21	12.84
111	2007	134	2245	54.19	na	7.09	273	25.66	12.84
111	2007	134	2300	54.33	na	7.43	274	24.26	12.82
111	2007	134	2315	54.34	na	6.451	264.5	25.44	12.83
111	2007	134	2330	54.37	na	6.207	269.1	18.7	12.83
111	2007	134	2345	54.49	na	6.578	270.5	22.73	12.82
111	2007	134	2400	54.76	na	6.602	276.2	24.83	12.81
111	2007	135	15	54.82	na	5.718	273.8	24.51	12.82
111	2007	135	30	55.12	na	6.413	283.6	20.27	12.82
111	2007	135	45	55.37	na	7.68	284.1	24.13	12.81
111	2007	135	100	55.53	na	8.15	277.8	22.76	12.8
111	2007	135	115	55.67	na	7.56	277.8	22.49	12.8
111	2007	135	130	55.3	na	7.52	278.2	25.56	12.8
111	2007	135	145	55.11	na	7.05	272.3	25.54	12.8
111	2007	135	200	55.24	na	7.51	271.3	22.48	12.78
111	2007	135	215	54.96	na	8.15	275.9	23.38	12.78
111	2007	135	230	54.8	na	6.457	280.7	25.18	12.78
111	2007	135	245	54.64	na	7.14	277.7	22.88	12.78
111	2007	135	300	54.71	na	8.6	274.3	23.07	12.75
111	2007	135	315	54.68	na	7.44	269.7	22.76	12.76
111	2007	135	330	54.6	na	7.67	265.9	25.24	12.76

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	135	345	54.49	na	7.72	265.4	25.02	12.75
111	2007	135	400	54.24	na	6.109	274.7	23.25	12.73
111	2007	135	415	54.52	na	7.72	267.1	23.41	12.74
111	2007	135	430	54.88	na	6.964	273.4	24.54	12.73
111	2007	135	445	55.04	na	7.6	264.7	24.29	12.72
111	2007	135	500	55.07	na	7.03	263.1	22.77	12.71
111	2007	135	515	55.02	na	6.831	269.2	25.7	12.71
111	2007	135	530	55.22	na	7.85	265.3	23.4	12.71
111	2007	135	545	55.36	na	7.33	271	19.22	12.7
111	2007	135	600	55.69	na	6.91	271.6	22.57	12.69
111	2007	135	615	55.95	na	7.94	272	26	12.7
111	2007	135	630	55.92	na	7.46	265.7	23.87	12.7
111	2007	135	645	55.98	na	8.31	268.8	26.02	12.7
111	2007	135	700	56.36	na	9.01	277.1	19.96	12.68
111	2007	135	715	56.97	na	9	283.8	19.3	12.74
111	2007	135	730	57.92	na	11.36	279.1	22.15	12.82
111	2007	135	745	58.46	na	9.8	271	24.11	12.9
111	2007	135	800	58.7	na	10.12	276.1	19.67	12.99
111	2007	135	815	59.09	na	11.16	278.5	23.42	13.17
111	2007	135	830	58.73	na	10.11	270.7	24.03	13.29
111	2007	135	845	59.26	na	9.61	278.9	21.45	13.36
111	2007	135	900	59.51	na	10.02	280.2	23.93	13.4
111	2007	135	915	59.27	na	11.78	275.7	20.44	13.46
111	2007	135	930	59.69	na	10.74	279.8	22.88	13.52
111	2007	135	945	60.28	na	9.21	276.3	25.23	13.52
111	2007	135	1000	60.88	na	9.31	271.3	21.8	13.5
111	2007	135	1015	61.42	na	9.61	265.8	22.78	13.5
111	2007	135	1030	61.79	na	9.48	268.8	22.66	13.49
111	2007	135	1045	62.03	na	9.93	279.5	21.32	13.49
111	2007	135	1100	61.86	na	9.39	269.4	22.88	13.48
111	2007	135	1115	61.87	na	10.03	273.5	22.04	13.48
111	2007	135	1130	62.99	na	8.18	267.4	20.32	13.47
111	2007	135	1145	63.44	na	9.52	281.5	21.07	13.47
111	2007	135	1200	63.11	na	10.54	282.9	19.57	13.46
111	2007	135	1215	63.85	na	9.59	272.1	23.37	13.46
111	2007	135	1230	63.87	na	9.55	267.6	22.28	13.46
111	2007	135	1245	64.41	na	8.3	260.2	25.78	13.45
111	2007	135	1300	65.2	na	9.16	264	25.25	13.45
111	2007	135	1315	65.27	na	8.95	256	26.36	13.45
111	2007	135	1330	65.41	na	9.33	260.9	20.83	13.45
111	2007	135	1345	65.49	na	9.31	261.5	24.2	13.45
111	2007	135	1400	65.52	na	10.86	268.7	22.19	13.44
111	2007	135	1415	65.49	na	10.76	268.4	25.24	13.45
111	2007	135	1430	66.3	na	10.29	267.4	20.75	13.44
111	2007	135	1445	67.36	na	9.11	266.1	21.57	13.43
111	2007	135	1500	67.2	na	9.04	260.5	18.73	13.42
111	2007	135	1515	66.86	na	9.3	260.5	24.44	13.43
111	2007	135	1530	66.15	na	11.74	269.7	17.79	13.43
111	2007	135	1545	66.72	na	10.04	267.9	20.78	13.43
111	2007	135	1600	66.59	na	10.67	261.1	21.35	13.41
111	2007	135	1615	66.57	na	9.57	265	21.94	13.43
111	2007	135	1630	67.44	na	9.27	272	24.13	13.43
111	2007	135	1645	66.24	na	11.27	272.8	19.11	13.43
111	2007	135	1700	66.32	na	10.65	271.6	22.01	13.42
111	2007	135	1715	66.38	na	9.87	273.1	21.75	13.43
111	2007	135	1730	66.12	na	9.85	269.3	23.2	13.43
111	2007	135	1745	65.61	na	11.23	275	20.32	13.44
111	2007	135	1800	65.46	na	10.23	273.1	20.21	13.44
111	2007	135	1815	65.54	na	10.69	279.3	20.8	13.45
111	2007	135	1830	65.09	na	9.53	282.6	21.49	13.45

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	135	1845	65.03	na	8.97	276.7	25.38	13.46
111	2007	135	1900	64.46	na	8.46	270.3	21.55	13.46
111	2007	135	1915	63.88	na	8.04	275.3	28.82	13.47
111	2007	135	1930	62.84	na	9.15	276.9	22.22	13.17
111	2007	135	1945	62.23	na	7.07	280.5	19.62	13.06
111	2007	135	2000	61.52	na	8.77	278.2	22.83	13
111	2007	135	2015	61.53	na	8.33	273.9	20.54	12.97
111	2007	135	2030	61.52	na	7.98	275.5	22.45	12.95
111	2007	135	2045	61.39	na	7.09	280	22.62	12.93
111	2007	135	2100	61.38	na	8.34	280.4	18.14	12.91
111	2007	135	2115	61.38	na	7.31	276.7	24.61	12.91
111	2007	135	2130	61.65	na	7.92	273.3	21.28	12.9
111	2007	135	2145	61.95	na	7.01	274.7	25.05	12.89
111	2007	135	2200	62.37	na	8.71	285.5	18.06	12.88
111	2007	135	2215	62.6	na	8.31	281.7	22.27	12.88
111	2007	135	2230	62.84	na	8.32	283.5	21.16	12.88
111	2007	135	2245	62.73	na	7.91	277.8	22.38	12.88
111	2007	135	2300	62.4	na	7.01	279.3	22.7	12.86
111	2007	135	2315	62.07	na	6.908	277.3	27.56	12.87
111	2007	135	2330	61.61	na	7.87	275.6	23.31	12.86
111	2007	135	2345	61.22	na	6.729	274.8	20.52	12.86
111	2007	135	2400	60.94	na	6.479	271.3	22.11	12.85
111	2007	136	15	60.77	na	6.499	278.7	21.25	12.85
111	2007	136	30	60.87	na	5.547	275.5	24.58	12.85
111	2007	136	45	60.6	na	5.654	275.6	23.48	12.84
111	2007	136	100	60.61	na	5.461	277.1	24.3	12.83
111	2007	136	115	60.73	na	5.757	270.1	21.39	12.84
111	2007	136	130	60.59	na	5.859	274.6	21.88	12.83
111	2007	136	145	60.55	na	5.93	273.8	28.27	12.82
111	2007	136	200	60.56	na	6.513	269.2	19.12	12.81
111	2007	136	215	60.57	na	6.95	271.2	23.38	12.82
111	2007	136	230	60.75	na	6.604	278.7	21.27	12.81
111	2007	136	245	60.98	na	5.67	279.5	21.28	12.8
111	2007	136	300	61.03	na	5.4	275.3	24.6	12.78
111	2007	136	315	60.68	na	6.284	273.4	20.26	12.79
111	2007	136	330	60.32	na	6.25	278.7	21.78	12.78
111	2007	136	345	60	na	6.57	284.9	21.47	12.78
111	2007	136	400	59.55	na	5.489	271.8	22.34	12.76
111	2007	136	415	59.17	na	4.455	276.9	21.17	12.76
111	2007	136	430	59	na	5.992	277.1	23.22	12.76
111	2007	136	445	58.76	na	5.825	277.3	25.49	12.74
111	2007	136	500	58.51	na	4.658	273.5	26.22	12.73
111	2007	136	515	58.26	na	5.135	277.2	22.27	12.74
111	2007	136	530	58.29	na	5.328	273.6	23.41	12.73
111	2007	136	545	58.34	na	5.125	275.3	20.34	12.72
111	2007	136	600	58.4	na	5.101	271.4	25.83	12.71
111	2007	136	615	58.68	na	4.774	267.4	26.31	12.72
111	2007	136	630	59.05	na	5.899	273.2	19.02	12.72
111	2007	136	645	59.61	na	4.652	275.1	23.98	12.72
111	2007	136	700	60.32	na	5.459	272.1	22.28	12.74
111	2007	136	715	60.67	na	5.809	272.7	24.65	12.8
111	2007	136	730	61.01	na	5.583	268.3	25.38	12.88
111	2007	136	745	61.51	na	6.67	272.5	22.37	12.97
111	2007	136	800	62.4	na	7.1	274.5	19.82	13.06
111	2007	136	815	62.87	na	8.01	277.1	22.16	13.18
111	2007	136	830	63.72	na	7.34	280.5	22.89	13.27
111	2007	136	845	64.29	na	7.26	277.9	19.2	13.37
111	2007	136	900	64.87	na	6.97	269.2	25.17	13.42
111	2007	136	915	65.69	na	7.53	271	21.45	13.45
111	2007	136	930	65.89	na	8.79	284.8	22.6	13.44

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	136	945	65.93	na	8.46	269.5	23.59	13.43
111	2007	136	1000	66.04	na	8.76	273.2	23.89	13.43
111	2007	136	1015	66.28	na	7.81	270.3	23.66	13.43
111	2007	136	1030	65.61	na	8.38	275.5	23.27	13.42
111	2007	136	1045	66.07	na	8.46	281.8	19.81	13.42
111	2007	136	1100	66.47	na	8.22	261.8	22.74	13.41
111	2007	136	1115	65.22	na	9.85	270.6	26.92	13.42
111	2007	136	1130	65.25	na	9.76	278.8	17.9	13.42
111	2007	136	1145	66	na	10.02	274.7	22.21	13.42
111	2007	136	1200	65.69	na	8.94	264.2	25.26	13.41
111	2007	136	1215	65.16	na	10.25	264	21.56	13.42
111	2007	136	1230	66.01	na	8.26	267.1	23.72	13.42
111	2007	136	1245	66.91	na	7.88	272.9	26.16	13.42
111	2007	136	1300	66.07	na	9.64	264.4	25.99	13.41
111	2007	136	1315	66.72	na	8.55	260.4	27.46	13.41
111	2007	136	1330	67.33	na	8.75	251.8	20.32	13.41
111	2007	136	1345	66.79	na	8.74	267.1	23.52	13.41
111	2007	136	1400	67.01	na	8.23	257.1	22.47	13.4
111	2007	136	1415	67.12	na	10.33	272.3	23.98	13.41
111	2007	136	1430	66.04	na	12.15	266.1	25.05	13.41
111	2007	136	1445	66.47	na	10.34	266.7	23.83	13.41
111	2007	136	1500	66.44	na	8.88	270.9	25.97	13.41
111	2007	136	1515	66.18	na	10.65	266.8	21.24	13.41
111	2007	136	1530	66.03	na	8.93	266.3	24.46	13.42
111	2007	136	1545	66.06	na	8.72	271.4	23.24	13.42
111	2007	136	1600	65.79	na	8.36	276.3	22.35	13.41
111	2007	136	1615	66.06	na	9.73	276.2	24.46	13.42
111	2007	136	1630	65.97	na	9.44	271.2	24.16	13.42
111	2007	136	1645	65.18	na	9.87	275.2	25.29	13.38
111	2007	136	1700	64.24	na	11.34	297.3	17.11	13.43
111	2007	136	1715	63.98	na	5.02	263.8	27.04	13.47
111	2007	136	1730	63.65	na	3.577	249.3	51.39	13.11
111	2007	136	1745	65.05	na	4.221	310.3	34.94	13.13
111	2007	136	1800	67.75	na	5.352	302.8	30.46	13.16
111	2007	136	1815	67.62	na	5.056	237	30.91	13.04
111	2007	136	1830	64.21	na	4.992	248.4	24.66	12.99
111	2007	136	1845	64.49	na	6.936	279	24.02	12.96
111	2007	136	1900	63.39	na	5.915	275.4	26.37	12.93
111	2007	136	1915	62.28	na	5.885	261.4	26.04	12.93
111	2007	136	1930	61.99	na	4.342	263.2	22.64	12.91
111	2007	136	1945	61.95	na	4.97	253.6	20.92	12.9
111	2007	136	2000	60.95	na	6.378	285.6	19.57	12.89
111	2007	136	2015	61.44	na	7.08	285.7	24.12	12.89
111	2007	136	2030	61.75	na	7.15	288.1	21.81	12.88
111	2007	136	2045	61.67	na	4.746	279.5	20.82	12.88
111	2007	136	2100	61.31	na	4.577	255.7	30.62	12.86
111	2007	136	2115	60.23	na	6.505	263.2	22.4	12.86
111	2007	136	2130	60.25	na	5.563	284.4	26.1	12.86
111	2007	136	2145	60.35	na	5.241	259.8	25.24	12.93
111	2007	136	2200	60.21	na	5.243	276.1	28	12.9
111	2007	136	2215	59.85	na	5.724	287.9	24.81	12.84
111	2007	136	2230	59.55	na	4.332	285.2	23.09	12.84
111	2007	136	2245	59.42	na	6.535	284.9	15.6	12.84
111	2007	136	2300	59.27	na	7.03	286.2	22.18	12.82
111	2007	136	2315	59.15	na	5.734	281.8	22.57	12.82
111	2007	136	2330	58.86	na	5.889	284.9	19.17	12.82
111	2007	136	2345	58.97	na	6.242	282.6	19.07	12.86
111	2007	136	2400	59.07	na	5.96	278.1	23.72	12.8
111	2007	137	15	59.19	na	6.555	284	19	12.8
111	2007	137	30	59.33	na	5.157	288.5	19.56	12.8

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	137	45	59.22	na	4.752	285	18.74	12.84
111	2007	137	100	58.98	na	4.221	287.6	17.38	12.77
111	2007	137	115	58.6	na	4.189	289.8	14.24	12.78
111	2007	137	130	58.34	na	2.175	323.4	31.89	12.77
111	2007	137	145	58.22	na	2.352	302.3	13.79	12.76
111	2007	137	200	58.16	na	2.533	323.2	30.09	12.74
111	2007	137	215	58.12	na	2.549	340.6	32.11	12.74
111	2007	137	230	57.72	na	3.549	345.8	39.27	12.74
111	2007	137	245	57.18	na	3.479	2.655	36.77	12.73
111	2007	137	300	56.76	na	2.857	359.6	37.7	12.71
111	2007	137	315	56.26	na	2.47	1.741	35.74	12.72
111	2007	137	330	55.94	na	2.589	5.968	29.6	12.73
111	2007	137	345	55.73	na	2.69	16.66	34.25	12.7
111	2007	137	400	55.46	na	2.235	6.867	38.08	12.68
111	2007	137	415	55.14	na	2.583	14.36	27.4	12.7
111	2007	137	430	54.9	na	2.43	0.002	32.5	12.69
111	2007	137	445	54.54	na	1.684	345.3	33.75	12.68
111	2007	137	500	54.15	na	2.346	10.79	33.02	12.66
111	2007	137	515	53.85	na	1.799	5.578	30.73	12.68
111	2007	137	530	53.59	na	1.792	1.902	30.43	12.68
111	2007	137	545	53.34	na	1.562	23.58	33.31	12.67
111	2007	137	600	53.25	na	0.614	23.36	18.99	12.65
111	2007	137	615	53.29	na	1.557	69.07	27.4	12.66
111	2007	137	630	53.77	na	2.152	78.3	22.99	12.66
111	2007	137	645	54.31	na	2.583	33.67	18.53	12.68
111	2007	137	700	55.41	na	2.215	47.12	21.07	12.73
111	2007	137	715	56.34	na	3.263	55.29	24.91	12.8
111	2007	137	730	57.01	na	3.412	70.9	19.25	12.87
111	2007	137	745	57.95	na	3.495	78.1	21.4	12.97
111	2007	137	800	58.79	na	3.422	90.2	23.15	13.09
111	2007	137	815	59.04	na	3.581	87.7	33.11	13.4
111	2007	137	830	59.73	na	4.344	84.3	27.32	13.53
111	2007	137	845	59.71	na	4.356	74.7	25.93	13.53
111	2007	137	900	59.82	na	4.412	87.2	19.89	13.51
111	2007	137	915	60.34	na	4.475	86.7	31.15	13.5
111	2007	137	930	60.43	na	5.058	89.5	29.17	13.49
111	2007	137	945	59.95	na	5.167	100.1	35	13.5
111	2007	137	1000	58.74	na	5.688	161.8	26.8	13.5
111	2007	137	1015	57.2	na	6.441	180.1	30.54	13.51
111	2007	137	1030	55.32	na	5.27	203.9	26.53	13.52
111	2007	137	1045	56.02	na	5.012	186.5	26.35	13.52
111	2007	137	1100	56.78	na	5.871	195.4	27.25	13.5
111	2007	137	1115	56.08	na	7.75	188.1	17.93	13.52
111	2007	137	1130	54.45	na	7.58	183.7	25.12	13.52
111	2007	137	1145	53.78	na	8.21	180.8	16.29	13.54
111	2007	137	1200	53.57	na	7.13	181.5	18.26	13.54
111	2007	137	1215	54.5	na	7.55	179.4	22.29	13.54
111	2007	137	1230	55.98	na	7.21	189.4	21.14	13.53
111	2007	137	1245	56.32	na	8.26	189.2	23.16	13.53
111	2007	137	1300	54.77	na	8.71	179.6	16.88	13.52
111	2007	137	1315	54.22	na	7.73	173	20.69	13.54
111	2007	137	1330	53.76	na	8.42	182.4	15.76	13.55
111	2007	137	1345	54.58	na	9.01	177.3	24.49	13.54
111	2007	137	1400	55.55	na	8.6	171.4	21.9	13.53
111	2007	137	1415	54.62	na	8.2	189.4	21.86	13.54
111	2007	137	1430	54.93	na	8.06	181.1	20.5	13.55
111	2007	137	1445	55.68	na	7.34	190.6	23.37	13.55
111	2007	137	1500	55.41	na	7.36	179.5	23.77	13.53
111	2007	137	1515	56.03	na	7.69	180.3	19.71	13.54
111	2007	137	1530	56.21	na	8	181.2	21.97	13.54

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	137	1545	56.1	na	9.11	176	16.46	13.54
111	2007	137	1600	56.19	na	8.29	185.2	23.07	13.53
111	2007	137	1615	55.52	na	9.05	174.2	17.77	13.54
111	2007	137	1630	54.87	na	9.11	178.2	16.72	13.54
111	2007	137	1645	55.25	na	7.96	181.8	21.7	13.55
111	2007	137	1700	55.45	na	7.61	169.2	25.74	13.54
111	2007	137	1715	55.02	na	8.13	170.6	23.47	13.56
111	2007	137	1730	54.29	na	7.77	171.8	22.47	13.56
111	2007	137	1745	53.63	na	9.4	163.1	23.65	13.58
111	2007	137	1800	53.69	na	9.27	162.1	20.78	13.57
111	2007	137	1815	53.96	na	8.32	154.5	22.67	13.58
111	2007	137	1830	53.4	na	8.33	151.5	22.45	13.6
111	2007	137	1845	53.13	na	8.22	156.2	21.98	13.6
111	2007	137	1900	52.9	na	7.55	159.5	21.9	13.53
111	2007	137	1915	52.48	na	7.98	151.5	19.54	13.62
111	2007	137	1930	52.33	na	7.97	156.5	16.78	13.14
111	2007	137	1945	52.18	na	8.52	134.9	19.29	13.05
111	2007	137	2000	52.12	na	8.19	139.5	19.39	12.99
111	2007	137	2015	52.26	na	7.34	133	21.25	12.95
111	2007	137	2030	52.27	na	6.235	137	18.42	12.92
111	2007	137	2045	52.25	na	5.728	141.3	21.62	12.9
111	2007	137	2100	52.27	na	7.94	131.4	19.04	12.88
111	2007	137	2115	52.2	na	6.209	131.5	20.71	12.88
111	2007	137	2130	52.14	na	7.76	140.9	19.41	12.86
111	2007	137	2145	52	na	9.92	139.2	17.76	12.86
111	2007	137	2200	51.96	na	8.66	140.9	24.4	12.84
111	2007	137	2215	51.65	na	11.57	140.1	18.07	12.84
111	2007	137	2230	51.44	na	8.17	125.7	22.49	12.84
111	2007	137	2245	51	na	8.68	138	20.13	12.84
111	2007	137	2300	50.82	na	9.29	131.2	17.81	12.82
111	2007	137	2315	50.89	na	6.145	121.5	23.27	12.83
111	2007	137	2330	50.79	na	6.783	116.9	21.62	12.82
111	2007	137	2345	50.61	na	6.728	124.7	21.74	12.82
111	2007	137	2400	50.5	na	5.748	110.4	22.81	12.8
111	2007	138	15	50.24	na	6.276	110.1	22	12.82
111	2007	138	30	50.08	na	5.757	109.6	18.85	12.81
111	2007	138	45	49.79	na	8.18	111.1	18.55	12.8
111	2007	138	100	49.56	na	7.09	106.1	22.18	12.79
111	2007	138	115	49.19	na	6.916	92.1	19.49	12.8
111	2007	138	130	48.8	na	7.29	92.6	25.35	12.79
111	2007	138	145	48.6	na	6.737	101.8	24.84	12.79
111	2007	138	200	48.25	na	11.41	112.1	21.4	12.77
111	2007	138	215	47.35	na	9.04	105	21.48	12.77
111	2007	138	230	46.75	na	7.86	92.3	25.44	12.76
111	2007	138	245	46.7	na	6.499	79.1	29.67	12.75
111	2007	138	300	46.86	na	5.968	87.2	25.82	12.74
111	2007	138	315	46.93	na	6.636	93.3	20.87	12.74
111	2007	138	330	46.71	na	7.28	90.8	21.97	12.73
111	2007	138	345	46.32	na	6.211	77.8	19.92	12.73
111	2007	138	400	46.18	na	6.656	83.5	27.47	12.71
111	2007	138	415	46.07	na	6.773	90.1	23.98	12.71
111	2007	138	430	46.03	na	8.56	95	22.38	12.7
111	2007	138	445	45.97	na	7.66	93.5	19.47	12.75
111	2007	138	500	45.89	na	9.29	93.7	22.23	12.67
111	2007	138	515	45.77	na	8.9	87.5	21.87	12.67
111	2007	138	530	45.48	na	6.644	92.2	25.1	12.67
111	2007	138	545	45.12	na	6.978	90.5	19.36	12.67
111	2007	138	600	44.68	na	7.1	102.3	17.83	12.65
111	2007	138	615	44.39	na	7.68	99.9	22.29	12.65
111	2007	138	630	44.29	na	7.28	94.9	20.53	12.64

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	138	645	44.24	na	7.15	95.3	19.07	12.64
111	2007	138	700	44.38	na	5.879	92.8	24.12	12.63
111	2007	138	715	44.4	na	8.53	83.3	21.68	12.63
111	2007	138	730	44.42	na	8.11	89.1	20.15	12.67
111	2007	138	745	44.46	na	6.588	79.8	21.85	12.63
111	2007	138	800	44.49	na	8.17	74.4	20.8	12.63
111	2007	138	815	44.48	na	6.692	63.18	20.91	12.65
111	2007	138	830	44.41	na	8.43	77.6	19.83	12.71
111	2007	138	845	44.55	na	7.67	79.2	22.97	12.77
111	2007	138	900	44.53	na	9.33	83.7	21.07	12.79
111	2007	138	915	44.57	na	8.52	85.4	22.43	13.01
111	2007	138	930	44.65	na	8.4	75.3	21.64	13.31
111	2007	138	945	44.71	na	7.48	70.6	20.85	13.33
111	2007	138	1000	44.83	na	7.29	56.15	21.61	13.27
111	2007	138	1015	44.9	na	6.708	62.22	26.23	13.27
111	2007	138	1030	44.82	na	6.749	62.89	21.99	13.75
111	2007	138	1045	44.88	na	8.07	80.5	20.66	13.75
111	2007	138	1100	45.1	na	8.1	83.9	22.48	13.75
111	2007	138	1115	45.21	na	7.35	77	22.2	13.75
111	2007	138	1130	45.47	na	7.72	76	21.11	13.75
111	2007	138	1145	45.8	na	7.03	63.8	22.06	13.78
111	2007	138	1200	45.74	na	7.38	66.88	18.35	13.74
111	2007	138	1215	45.94	na	6.972	65.07	23.81	13.74
111	2007	138	1230	45.89	na	8.13	64.55	19.62	13.68
111	2007	138	1245	45.92	na	7.82	63.58	23.84	13.65
111	2007	138	1300	45.57	na	8.22	67.39	23.25	13.74
111	2007	138	1315	45.62	na	7.66	66.32	19.73	13.74
111	2007	138	1330	45.6	na	9.05	64.14	21.1	13.74
111	2007	138	1345	46.01	na	8.77	72.9	25.55	13.73
111	2007	138	1400	46.28	na	10.29	61.36	19.64	13.73
111	2007	138	1415	46.17	na	10.13	58.45	23.28	13.73
111	2007	138	1430	46.44	na	8.83	62.75	22.14	13.73
111	2007	138	1445	46.28	na	8.96	64.02	21.83	13.73
111	2007	138	1500	46.17	na	10.26	57.93	20.51	13.73
111	2007	138	1515	46.46	na	9.29	61.71	20.17	13.73
111	2007	138	1530	46.5	na	7.83	58.11	22.33	13.73
111	2007	138	1545	46.55	na	8.87	60.29	26.08	13.35
111	2007	138	1600	46.39	na	8.04	57	23.09	13.24
111	2007	138	1615	46.37	na	9.14	62.04	22.32	13.17
111	2007	138	1630	46.46	na	9.25	59.72	19.09	13.11
111	2007	138	1645	46.6	na	9.06	66.66	22.6	13.04
111	2007	138	1700	46.69	na	9.6	68.03	18.26	12.99
111	2007	138	1715	46.77	na	7.99	61.16	20.46	12.96
111	2007	138	1730	46.83	na	7.68	62.8	21	12.94
111	2007	138	1745	46.92	na	7.25	61.84	24.54	12.92
111	2007	138	1800	46.82	na	9.17	62.11	18.64	12.89
111	2007	138	1815	46.62	na	10.03	59.97	19.52	12.89
111	2007	138	1830	46.23	na	9	64.25	22.01	12.88
111	2007	138	1845	46.16	na	7.69	70.9	23.05	12.87
111	2007	138	1900	45.81	na	8.4	66.11	22.62	12.85
111	2007	138	1915	45.57	na	8.6	60.24	25.95	12.85
111	2007	138	1930	45.41	na	7.51	68.01	23	12.85
111	2007	138	1945	45.37	na	8.18	61.14	20.01	12.84
111	2007	138	2000	45.42	na	8.18	60.91	22.77	12.82
111	2007	138	2015	45.47	na	7.45	61.18	20.86	12.82
111	2007	138	2030	45.62	na	8.38	53.79	25.47	12.81
111	2007	138	2045	45.86	na	7.56	54.19	23.06	12.8
111	2007	138	2100	46.16	na	8.56	66.96	21.15	12.79
111	2007	138	2115	46.46	na	9.28	59.93	19.84	12.78
111	2007	138	2130	46.56	na	6.433	60.33	21.77	12.77

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	138	2145	46.59	na	5.648	54.88	20.82	12.76
111	2007	138	2200	46.87	na	6.811	58	21.53	12.73
111	2007	138	2215	46.98	na	6.334	60.93	18.51	12.73
111	2007	138	2230	47.03	na	6.187	63.62	22.26	12.72
111	2007	138	2245	47.12	na	6.407	62.2	21.62	12.71
111	2007	138	2300	47.18	na	5.171	61.23	20.19	12.69
111	2007	138	2315	47.2	na	5.429	54.37	23.33	12.69
111	2007	138	2330	47.17	na	4.642	58.13	20.92	12.67
111	2007	138	2345	47.21	na	4.501	46.04	27.44	12.67
111	2007	138	2400	47.25	na	5.004	46.94	21.29	12.65
111	2007	139	15	47.28	na	3.919	53.56	27.68	12.65
111	2007	139	30	47.34	na	4.296	46.49	19.66	12.65
111	2007	139	45	47.45	na	3.294	40.59	29.38	12.65
111	2007	139	100	47.37	na	2.953	17.17	27.54	12.63
111	2007	139	115	47.25	na	3.625	23	25.18	12.64
111	2007	139	130	47.24	na	3.092	26.29	23.36	12.65
111	2007	139	145	47.22	na	2.913	13.8	29.79	12.64
111	2007	139	200	47.29	na	2.776	18.62	27.11	12.62
111	2007	139	215	47.3	na	2.674	12.07	27.74	12.64
111	2007	139	230	47.16	na	2.531	352.8	29.32	12.64
111	2007	139	245	46.94	na	2.503	353.6	43.08	12.64
111	2007	139	300	46.68	na	2.867	340.5	27.88	12.63
111	2007	139	315	46.43	na	2.281	327	23	12.63
111	2007	139	330	46.05	na	1.673	322.2	22.28	12.64
111	2007	139	345	45.75	na	1.849	309.7	12.51	12.63
111	2007	139	400	45.93	na	2.623	307	12.12	12.62
111	2007	139	415	46.31	na	2.664	315.1	22.55	12.63
111	2007	139	430	46.76	na	2.929	326.8	31.93	12.63
111	2007	139	445	47.29	na	3.046	332.4	27.81	12.63
111	2007	139	500	47.69	na	3.227	323.8	26.18	12.63
111	2007	139	515	47.94	na	2.784	323.7	28.27	12.63
111	2007	139	530	48.15	na	3.404	328.1	27.45	12.63
111	2007	139	545	48.34	na	3.126	332.6	29.89	12.64
111	2007	139	600	48.49	na	2.849	336.8	28.61	12.62
111	2007	139	615	48.58	na	1.821	335	31.51	12.64
111	2007	139	630	48.72	na	2.021	346.8	32.78	12.64
111	2007	139	645	49.31	na	3.809	2.233	34.5	12.64
111	2007	139	700	50.16	na	3.895	8.83	31.29	12.64
111	2007	139	715	50.54	na	4.275	14.93	29.61	12.66
111	2007	139	730	50.84	na	3.905	358.8	36.95	12.68
111	2007	139	745	51.05	na	6.161	14.58	33.28	12.68
111	2007	139	800	51.02	na	6.99	20.7	28.49	12.74
111	2007	139	815	50.95	na	7.06	12.65	28.59	12.95
111	2007	139	830	51.04	na	6.827	16.71	32.1	13.22
111	2007	139	845	51.09	na	6.853	23.74	29.38	13.66
111	2007	139	900	51.43	na	6.809	26.64	28.55	13.64
111	2007	139	915	51.7	na	7.98	28.63	25.99	13.64
111	2007	139	930	51.19	na	7.75	30.01	21.72	13.65
111	2007	139	945	50.6	na	6.97	26.76	27.14	13.67
111	2007	139	1000	50.86	na	6.654	15.27	24.65	13.64
111	2007	139	1015	50.74	na	8.46	23.41	23.7	13.65
111	2007	139	1030	50.46	na	7.01	25.99	31.22	13.66
111	2007	139	1045	50.65	na	6.282	17.95	30.33	13.66
111	2007	139	1100	51.2	na	7.3	14.86	30.07	13.65
111	2007	139	1115	51.82	na	7.31	27.84	24.97	13.64
111	2007	139	1130	52.24	na	7.09	19.5	30.73	13.62
111	2007	139	1145	52.57	na	6.668	16.35	29.31	13.62
111	2007	139	1200	52.61	na	6.92	14.78	29.56	13.62
111	2007	139	1215	53.11	na	6.36	3.656	32.98	13.62
111	2007	139	1230	53.04	na	6.809	24.03	32.09	13.62

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	139	1245	52.77	na	5.022	11.75	35.54	13.62
111	2007	139	1300	52.68	na	5.889	358.4	34.25	13.61
111	2007	139	1315	52.69	na	6.781	354.3	36.47	13.62
111	2007	139	1330	52.94	na	6.455	334.2	35.79	13.6
111	2007	139	1345	52.77	na	7.76	325.4	25.35	13.6
111	2007	139	1400	52.39	na	5.28	353.5	39.28	13.6
111	2007	139	1415	52.98	na	6.566	341.4	30.97	13.6
111	2007	139	1430	53.56	na	5.873	349.2	37.89	13.6
111	2007	139	1445	54.11	na	6.877	342.4	35.4	13.58
111	2007	139	1500	54.4	na	5.499	338.1	31.19	13.57
111	2007	139	1515	54.11	na	6.197	339.7	34.36	13.58
111	2007	139	1530	53.98	na	6.183	349	35.34	13.58
111	2007	139	1545	53.79	na	6.662	3.961	30.21	13.59
111	2007	139	1600	53.88	na	5.873	349.6	36.33	13.59
111	2007	139	1615	53.85	na	5.767	340.2	30.47	13.6
111	2007	139	1630	53.79	na	5.885	340.2	35.23	13.6
111	2007	139	1645	53.71	na	4.817	337.7	32.18	13.6
111	2007	139	1700	53.51	na	5.048	334.6	28.96	13.2
111	2007	139	1715	53.12	na	5.612	334	27.44	13.1
111	2007	139	1730	52.64	na	6.62	323	31.34	13.04
111	2007	139	1745	52.32	na	4.893	330.9	31.79	13
111	2007	139	1800	52.1	na	5.435	325.3	30.17	12.96
111	2007	139	1815	52.12	na	4.835	329.8	29.12	12.95
111	2007	139	1830	52.28	na	4.292	324.7	28.94	12.94
111	2007	139	1845	52.44	na	4.937	322.2	26.35	12.92
111	2007	139	1900	52.48	na	5.032	321.7	25.71	12.9
111	2007	139	1915	52.38	na	4.785	324.8	32.36	12.9
111	2007	139	1930	52.16	na	4.374	330.6	29.45	12.9
111	2007	139	1945	51.7	na	3.601	337.7	31.83	12.89
111	2007	139	2000	50.84	na	3.633	328.8	31.18	12.87
111	2007	139	2015	50.27	na	2.7	325.6	20.97	12.88
111	2007	139	2030	50.09	na	3.034	316	23.17	12.87
111	2007	139	2045	49.99	na	2.953	316.8	28.42	12.86
111	2007	139	2100	49.95	na	3.03	314.1	20.82	12.84
111	2007	139	2115	50.04	na	2.927	311.9	19.39	12.85
111	2007	139	2130	50.12	na	2.384	311.5	19.17	12.85
111	2007	139	2145	50.25	na	1.933	312.4	29.04	12.84
111	2007	139	2200	50.18	na	2.722	307.7	28.72	12.83
111	2007	139	2215	50.06	na	3.221	318.8	25.66	12.84
111	2007	139	2230	49.95	na	2.64	329.8	31	12.83
111	2007	139	2245	50.02	na	3.04	333.6	28.98	12.83
111	2007	139	2300	50.05	na	3.575	329.4	29.39	12.82
111	2007	139	2315	50.04	na	3.247	320.1	28.63	12.82
111	2007	139	2330	50.01	na	2.994	320.2	26.7	12.82
111	2007	139	2345	49.89	na	3.442	317.7	22.02	12.81
111	2007	139	2400	49.87	na	3.569	326.3	22.82	12.8
111	2007	140	15	49.85	na	3.142	323.2	26.5	12.8
111	2007	140	30	49.87	na	2.81	312.3	22.29	12.8
111	2007	140	45	49.95	na	2.412	320.5	27.83	12.79
111	2007	140	100	50.03	na	2.734	322.3	24.93	12.77
111	2007	140	115	50.1	na	2.35	318.1	25.15	12.78
111	2007	140	130	50.14	na	2.21	324.1	26.06	12.77
111	2007	140	145	50.21	na	2.17	322.4	28.49	12.76
111	2007	140	200	50.25	na	2.607	315.5	24.54	12.74
111	2007	140	215	50.3	na	3.124	319	22.81	12.75
111	2007	140	230	50.31	na	2.577	336.9	30.99	12.74
111	2007	140	245	50.27	na	2.837	336.7	31.97	12.73
111	2007	140	300	50.3	na	3.193	337.7	25.37	12.7
111	2007	140	315	50.28	na	2.321	335.6	27.57	12.72
111	2007	140	330	50.18	na	3.191	333.9	31.7	12.71

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	140	345	50.4	na	2.835	335.7	25.78	12.7
111	2007	140	400	50.56	na	2.762	325.8	22.77	12.69
111	2007	140	415	50.75	na	3.279	326.9	22.75	12.69
111	2007	140	430	50.96	na	3.8	335.1	30.26	12.69
111	2007	140	445	51.12	na	3.557	345.3	33.47	12.68
111	2007	140	500	51.24	na	4.189	321	28.38	12.67
111	2007	140	515	51.15	na	3.897	313.9	23.4	12.68
111	2007	140	530	51.06	na	3.038	322.9	30.79	12.68
111	2007	140	545	51.07	na	3.054	333.2	26.87	12.67
111	2007	140	600	51.08	na	3.243	318.6	21.01	12.73
111	2007	140	615	51.17	na	4.849	311.2	20.84	12.66
111	2007	140	630	51.24	na	3.728	327	33.01	12.67
111	2007	140	645	52.05	na	3.955	328.5	33.13	12.82
111	2007	140	700	53.53	na	4.432	325.6	30.87	12.96
111	2007	140	715	53.63	na	3.593	340.3	38.69	13.01
111	2007	140	730	53.43	na	3.607	324.7	34.49	13.04
111	2007	140	745	53.65	na	3.05	331.1	32.83	12.97
111	2007	140	800	54.79	na	4.133	333.1	30.29	13.07
111	2007	140	815	56.59	na	4.754	332.8	30.83	13.3
111	2007	140	830	56.85	na	5.507	338.3	42.45	13.52
111	2007	140	845	57.45	na	5.314	342.5	41.12	13.56
111	2007	140	900	57.77	na	5.742	359.8	28.88	13.55
111	2007	140	915	57.82	na	5.722	342.3	37.37	13.55
111	2007	140	930	58.91	na	6.062	339.8	37.99	13.53
111	2007	140	945	59.92	na	7.17	356.6	31.04	13.52
111	2007	140	1000	60.44	na	7.34	2.852	31.13	13.5
111	2007	140	1015	60.73	na	6.525	357.7	34.89	13.5
111	2007	140	1030	60.36	na	6.602	358.5	35.93	13.5
111	2007	140	1045	61.52	na	6.421	348.1	40.81	13.49
111	2007	140	1100	62.32	na	7.22	339.5	43.69	13.47
111	2007	140	1115	62.96	na	7.66	355	36.45	13.47
111	2007	140	1130	63.29	na	7.84	349.7	32.54	13.45
111	2007	140	1145	63.9	na	8.34	9.41	30.04	13.45
111	2007	140	1200	64.63	na	7.61	350.6	33.49	13.45
111	2007	140	1215	65.01	na	7.59	338	40.36	13.45
111	2007	140	1230	64.43	na	7.88	341.5	36.92	13.45
111	2007	140	1245	65	na	7.97	330.2	32.9	13.45
111	2007	140	1300	66.75	na	7.22	331.7	34.72	13.43
111	2007	140	1315	67.48	na	8.13	341.9	35.38	13.43
111	2007	140	1330	68.6	na	7.39	330.8	43.04	13.43
111	2007	140	1345	69.97	na	7.25	325.4	34.02	13.41
111	2007	140	1400	70.1	na	7.01	320.9	29.95	13.41
111	2007	140	1415	69.9	na	7.96	324.2	32.81	13.41
111	2007	140	1430	71.7	na	7.2	352.3	37.82	13.4
111	2007	140	1445	72.3	na	6.704	338.4	37.64	13.39
111	2007	140	1500	72.7	na	7.74	333.6	37.22	13.37
111	2007	140	1515	73.1	na	7.56	339	34.87	13.39
111	2007	140	1530	73.8	na	9.5	324.6	34.2	13.37
111	2007	140	1545	74.1	na	7.42	316.7	35.31	13.37
111	2007	140	1600	73.7	na	8.71	316.7	32.47	13.37
111	2007	140	1615	73.3	na	6.755	314	35.23	13.37
111	2007	140	1630	71.8	na	9.21	293.4	22.13	13.39
111	2007	140	1645	71.4	na	8.05	276.1	19.01	13.39
111	2007	140	1700	71.9	na	7.53	274.7	26.61	13.37
111	2007	140	1715	69.98	na	6.733	262.4	21.87	13.39
111	2007	140	1730	69.77	na	5.392	258.8	21.77	13.39
111	2007	140	1745	70.8	na	5.111	278	33.14	13.4
111	2007	140	1800	72.2	na	4.742	314.3	33.47	13.12
111	2007	140	1815	73	na	5.698	304.6	27.96	13.06
111	2007	140	1830	71.7	na	7	291.4	20.42	13.02

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	140	1845	68.81	na	10.84	301.1	20.69	13.2
111	2007	140	1900	66.1	na	7.02	306.6	22.31	13.44
111	2007	140	1915	67.09	na	6.058	306.2	23.46	13.47
111	2007	140	1930	67.52	na	5.308	312	24.02	13.1
111	2007	140	1945	67.03	na	3.428	335.3	34.87	13.03
111	2007	140	2000	66.97	na	4.302	348.2	36.97	12.97
111	2007	140	2015	66.91	na	6.024	0.457	34.16	12.96
111	2007	140	2030	66.31	na	5.304	4.774	33.83	12.94
111	2007	140	2045	65.62	na	5.445	8.02	30.7	12.93
111	2007	140	2100	65.12	na	5.38	354.3	26.46	12.91
111	2007	140	2115	64.74	na	5.334	357.3	29.71	12.91
111	2007	140	2130	64.04	na	4.127	9.86	31.2	12.9
111	2007	140	2145	63.37	na	4.799	9.34	29.05	12.89
111	2007	140	2200	63.16	na	5.362	14.06	32.32	12.88
111	2007	140	2215	62.78	na	4.102	5.419	31.35	12.88
111	2007	140	2230	62.18	na	3.603	357.3	37.51	12.88
111	2007	140	2245	61.97	na	4.742	9.89	37.95	12.87
111	2007	140	2300	62.04	na	5.964	355.9	33.2	12.86
111	2007	140	2315	61.74	na	5.553	345.8	32.1	12.86
111	2007	140	2330	61.44	na	4.994	357.4	30.42	12.86
111	2007	140	2345	61.02	na	4.634	349.3	28.64	12.86
111	2007	140	2400	60.49	na	4.203	338.6	33.09	12.84
111	2007	141	15	59.85	na	5.084	340	25.37	12.85
111	2007	141	30	59.35	na	5.348	338.4	29.36	12.84
111	2007	141	45	59.21	na	5.666	345.1	29.45	12.84
111	2007	141	100	58.79	na	4.382	331.1	28.17	12.82
111	2007	141	115	58.3	na	4.116	330.4	26.13	12.82
111	2007	141	130	57.9	na	4.384	336	25.35	12.82
111	2007	141	145	57.69	na	4.871	338.9	27.29	12.82
111	2007	141	200	57.42	na	4.253	338	25.48	12.79
111	2007	141	215	57	na	4.75	356.5	35.91	12.8
111	2007	141	230	56.57	na	3.947	349.3	30.15	12.8
111	2007	141	245	56.27	na	5.054	352.2	30.72	12.79
111	2007	141	300	56	na	4.837	359.3	32.47	12.78
111	2007	141	315	55.69	na	4.628	356.3	31.88	12.78
111	2007	141	330	55.43	na	4.352	359	36.15	12.78
111	2007	141	345	55.17	na	4.569	6.695	28.53	12.76
111	2007	141	400	54.91	na	4.145	356.1	31.04	12.75
111	2007	141	415	54.64	na	3.686	3.769	32.19	12.75
111	2007	141	430	54.3	na	3.931	2.326	30.05	12.74
111	2007	141	445	54.1	na	4.734	6.455	28.75	12.74
111	2007	141	500	54.05	na	5.135	10.54	31.18	12.72
111	2007	141	515	54.1	na	5.604	12.29	23.03	12.74
111	2007	141	530	53.91	na	6.7	5.727	27.12	12.72
111	2007	141	545	53.6	na	5.042	15.14	37.2	12.72
111	2007	141	600	53.43	na	4.956	8.83	41	12.7
111	2007	141	615	53.44	na	4.495	11.22	33.59	12.7
111	2007	141	630	53.65	na	4.193	17.58	30.86	12.7
111	2007	141	645	54.08	na	3.414	11.81	33.55	12.72
111	2007	141	700	54.38	na	3.953	8.58	31.92	12.74
111	2007	141	715	54.75	na	4.66	17.27	29.69	12.78
111	2007	141	730	55.12	na	4.68	27.17	29.15	12.96
111	2007	141	745	55.84	na	6.278	45.94	27.37	13.51
111	2007	141	800	56.52	na	5.94	67.6	21.97	13.56
111	2007	141	815	56.45	na	6.555	64.82	23.86	13.56
111	2007	141	830	55.79	na	7.35	50.83	23.55	13.56
111	2007	141	845	56.2	na	7.12	53.95	25.31	13.56
111	2007	141	900	57.08	na	6.205	47.67	30.96	13.54
111	2007	141	915	57.49	na	5.787	29.04	34.99	13.53
111	2007	141	930	55.92	na	7.13	21.41	27.1	13.54

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	141	945	56.44	na	7.32	43.37	25.27	13.54
111	2007	141	1000	56.58	na	6.475	33.82	24.7	13.54
111	2007	141	1015	57.51	na	6.338	43.74	28.24	13.54
111	2007	141	1030	59.24	na	6.513	47.51	37.86	13.52
111	2007	141	1045	58.92	na	7.01	20.48	35.22	13.52
111	2007	141	1100	59.13	na	6.262	27.28	36.58	13.51
111	2007	141	1115	59.57	na	6.883	22.37	34.14	13.51
111	2007	141	1130	60.08	na	6.254	44.74	38.16	13.51
111	2007	141	1145	60.65	na	7.03	62.25	24.28	13.5
111	2007	141	1200	61.17	na	6.89	19.62	35.77	13.49
111	2007	141	1215	61.23	na	7.38	32.41	22.81	13.49
111	2007	141	1230	61.74	na	6.926	24.67	23.16	13.49
111	2007	141	1245	61.79	na	6.195	47.27	25.98	13.49
111	2007	141	1300	61.73	na	6.809	51.75	20.97	13.48
111	2007	141	1315	62.55	na	6.928	44.89	34.39	13.49
111	2007	141	1330	63.83	na	5.692	8.45	39.44	13.48
111	2007	141	1345	64.69	na	5.907	358.1	38.24	13.47
111	2007	141	1400	64.86	na	6.857	21.05	35.39	13.46
111	2007	141	1415	65.24	na	6.69	27.27	33.39	13.45
111	2007	141	1430	65.49	na	6.352	33.1	40.39	13.45
111	2007	141	1445	65.87	na	6.735	27.84	39.57	13.44
111	2007	141	1500	66.26	na	4.843	15.05	62.73	13.43
111	2007	141	1515	65.9	na	7.52	50.36	29.95	13.43
111	2007	141	1530	66.68	na	5.622	9.02	45.79	13.43
111	2007	141	1545	66.36	na	6.097	46.95	28.4	13.43
111	2007	141	1600	66.59	na	5.05	26.42	46.48	13.42
111	2007	141	1615	65.33	na	5.181	280.9	40.66	13.43
111	2007	141	1630	64.85	na	4.859	263.9	75.6	13.43
111	2007	141	1645	66.56	na	4.783	35.53	37.33	13.42
111	2007	141	1700	67.41	na	6.032	3.989	43.99	13.41
111	2007	141	1715	67.43	na	6.437	43.09	27.64	13.42
111	2007	141	1730	67.32	na	6.712	32.47	24.61	13.43
111	2007	141	1745	67.51	na	5.292	12.54	41.62	13.43
111	2007	141	1800	67.68	na	5.517	24.43	35.81	13.42
111	2007	141	1815	67.84	na	5.773	36.06	26.09	13.43
111	2007	141	1830	67.88	na	4.106	14.51	43.13	13.43
111	2007	141	1845	67.59	na	4.183	27.75	46.4	13.44
111	2007	141	1900	67.12	na	4.36	70.4	25.85	13.43
111	2007	141	1915	65.89	na	3.483	161.5	42.77	13.45
111	2007	141	1930	65.15	na	2.419	142.2	42.43	13.47
111	2007	141	1945	63.85	na	2.8	193.3	32.1	13.09
111	2007	141	2000	62.45	na	2.798	200.9	15.43	13.02
111	2007	141	2015	61.2	na	1.895	233.3	17.36	12.99
111	2007	141	2030	60.34	na	0.725	241.9	18.99	12.95
111	2007	141	2045	59.59	na	1.137	261.5	18.13	12.94
111	2007	141	2100	59.08	na	1.278	260.3	12.45	12.91
111	2007	141	2115	58.1	na	2.448	266.3	22.06	12.9
111	2007	141	2130	57.14	na	3.929	259.4	18.55	12.89
111	2007	141	2145	56.5	na	4.259	270.2	22.63	12.88
111	2007	141	2200	56.16	na	3.972	283.1	19.64	12.86
111	2007	141	2215	55.89	na	3.774	283.1	18.02	12.86
111	2007	141	2230	55.65	na	3.328	306.4	17.48	12.85
111	2007	141	2245	55.56	na	3.726	297.4	15.46	12.84
111	2007	141	2300	55.46	na	3.076	304.2	17.49	12.83
111	2007	141	2315	55.32	na	2.915	297.4	13.23	12.84
111	2007	141	2330	55.04	na	1.999	301.3	17.09	12.83
111	2007	141	2345	54.64	na	1.838	299.1	18.83	12.82
111	2007	141	2400	54.26	na	0.901	299.4	18.09	12.81
111	2007	142	15	53.71	na	0.97	291.6	16.78	12.82
111	2007	142	30	53.29	na	0.919	306.1	22.57	12.81

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	142	45	53.31	na	1.646	317	19.13	12.79
111	2007	142	100	53.34	na	1.518	324.8	16.31	12.78
111	2007	142	115	53.4	na	1.865	330	22.16	12.79
111	2007	142	130	53.1	na	1.341	343.2	19.13	12.78
111	2007	142	145	52.19	na	1.486	307.2	18.86	12.78
111	2007	142	200	51.88	na	1.571	331.9	15.05	12.76
111	2007	142	215	51.67	na	1.851	355.9	22.32	12.76
111	2007	142	230	51.31	na	2.295	20.62	19.68	12.76
111	2007	142	245	51.13	na	2.488	22.91	15.12	12.76
111	2007	142	300	50.89	na	1.837	356.2	28.3	12.74
111	2007	142	315	50.5	na	1.517	327.7	28.47	12.74
111	2007	142	330	49.95	na	0.657	304.1	26.14	12.74
111	2007	142	345	49.47	na	0.038	30.32	0.123	12.73
111	2007	142	400	48.77	na	0.645	290	8.69	12.71
111	2007	142	415	48.19	na	0.654	54.67	13.18	12.72
111	2007	142	430	47.97	na	0.098	328.4	10.63	12.71
111	2007	142	445	47.52	na	0.509	33.57	7.73	12.7
111	2007	142	500	47.4	na	1.207	35.85	9.14	12.68
111	2007	142	515	47.12	na	0.677	35.97	10.35	12.69
111	2007	142	530	47.05	na	0.856	39.64	16.76	12.68
111	2007	142	545	47.13	na	1.488	62.4	18.27	12.67
111	2007	142	600	47.46	na	1.536	41.91	23.31	12.65
111	2007	142	615	48.61	na	1.9	73.8	27.87	12.66
111	2007	142	630	49.99	na	1.816	72.3	25.13	12.66
111	2007	142	645	51.52	na	1.433	80.1	35.32	12.68
111	2007	142	700	52.66	na	2.563	84.6	24.96	12.71
111	2007	142	715	53.16	na	3.128	75.9	26.2	12.77
111	2007	142	730	54.28	na	2.483	81.3	27.58	12.86
111	2007	142	745	55.05	na	2.162	90.6	36.56	12.94
111	2007	142	800	56	na	3.132	133.7	21.61	13.04
111	2007	142	815	56.6	na	2.788	112.8	34.07	13.14
111	2007	142	830	57.75	na	2.762	110.8	31.64	13.23
111	2007	142	845	58.47	na	2.694	145	30.66	13.33
111	2007	142	900	59.33	na	3.04	134.3	51.64	13.41
111	2007	142	915	60.32	na	2.454	120.9	53.13	13.52
111	2007	142	930	61.61	na	2.366	149	89.6	13.51
111	2007	142	945	61.8	na	3.326	207.4	41.2	13.5
111	2007	142	1000	61.72	na	3.869	216.3	26.67	13.48
111	2007	142	1015	61.68	na	4.511	185.1	27.44	13.48
111	2007	142	1030	61.74	na	5.318	184.8	22.7	13.48
111	2007	142	1045	61.59	na	5.797	193.1	18.91	13.48
111	2007	142	1100	61.68	na	5.899	189.7	21.31	13.47
111	2007	142	1115	62.5	na	6.276	195.1	29.08	13.47
111	2007	142	1130	62.46	na	6.724	190.5	23.26	13.47
111	2007	142	1145	62.97	na	6.598	190.4	22.97	13.47
111	2007	142	1200	62.16	na	7.69	217.7	23.26	13.46
111	2007	142	1215	61.7	na	7.54	209.5	21.18	13.47
111	2007	142	1230	60.84	na	7.87	217.4	23.36	13.48
111	2007	142	1245	61.28	na	6.535	202.4	25.84	13.47
111	2007	142	1300	60.98	na	6.654	227.3	27.99	13.47
111	2007	142	1315	60.97	na	6.916	205.1	26.89	13.47
111	2007	142	1330	61.17	na	6.694	190.8	22.37	13.48
111	2007	142	1345	60.58	na	6.755	193.1	26.95	13.48
111	2007	142	1400	60.46	na	7.08	204.8	24.52	13.47
111	2007	142	1415	60.72	na	6.974	222.3	28.12	13.47
111	2007	142	1430	61.02	na	7.15	203.5	29.2	13.47
111	2007	142	1445	60.54	na	7	204.8	25.71	13.47
111	2007	142	1500	60.32	na	7.88	181.6	23.37	13.46
111	2007	142	1515	60.01	na	7.8	183	21.93	13.47
111	2007	142	1530	60.64	na	6.584	191.4	26.99	13.46

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	142	1545	60.48	na	7.35	190.6	22.12	13.46
111	2007	142	1600	60.54	na	7.01	192.1	21.65	13.45
111	2007	142	1615	60.81	na	7.13	198.4	21.59	13.46
111	2007	142	1630	60.15	na	7.17	205.3	26.1	13.46
111	2007	142	1645	59.81	na	7.82	219.7	22.98	13.47
111	2007	142	1700	59.3	na	7.31	211.9	24.54	13.47
111	2007	142	1715	58.93	na	6.376	212.2	20.59	13.49
111	2007	142	1730	58.93	na	6.109	205	26.45	13.49
111	2007	142	1745	58.43	na	5.513	209.5	25.25	13.51
111	2007	142	1800	57.94	na	5.692	211.6	21.64	13.51
111	2007	142	1815	57.74	na	5.336	220	24.44	13.53
111	2007	142	1830	57.48	na	4.801	227.4	24.71	13.54
111	2007	142	1845	57.06	na	5.849	222.5	19.69	13.56
111	2007	142	1900	57.14	na	5.596	229.8	23.74	13.55
111	2007	142	1915	56.93	na	4.35	236.7	25.77	13.12
111	2007	142	1930	56.64	na	3.873	236	21.95	13.08
111	2007	142	1945	56.58	na	4.096	232.1	21.31	13.02
111	2007	142	2000	56.33	na	4.183	233.1	20.89	12.96
111	2007	142	2015	56.01	na	3.746	234.1	20.69	12.94
111	2007	142	2030	55.67	na	3.364	243.7	21.7	12.91
111	2007	142	2045	55.43	na	2.935	245.6	25.6	12.9
111	2007	142	2100	55.31	na	3.138	242.2	27.17	12.87
111	2007	142	2115	55.23	na	2.7	245.6	23.49	12.87
111	2007	142	2130	55.01	na	2.961	253.4	23.21	12.86
111	2007	142	2145	54.95	na	3.549	256.1	18.44	12.86
111	2007	142	2200	54.8	na	2.949	251.8	25.77	12.84
111	2007	142	2215	54.75	na	2.68	252.7	23.69	12.84
111	2007	142	2230	54.61	na	3.199	253.7	21.37	12.84
111	2007	142	2245	54.57	na	3.386	261.3	21.31	12.83
111	2007	142	2300	54.45	na	3.64	252.7	21.64	12.82
111	2007	142	2315	54.37	na	2.722	255.8	23.49	12.82
111	2007	142	2330	54.32	na	3.416	256.5	21.92	12.82
111	2007	142	2345	54.31	na	3.587	251.7	24.61	12.82
111	2007	142	2400	54.33	na	4.241	263.1	21.72	12.8
111	2007	143	15	54.32	na	3.656	251.6	24.25	12.81
111	2007	143	30	54.21	na	2.949	249.1	19.58	12.8
111	2007	143	45	53.97	na	2.79	256.6	18.88	12.8
111	2007	143	100	53.86	na	2.808	261.8	22.48	12.78
111	2007	143	115	53.9	na	3.106	250.5	23.74	12.79
111	2007	143	130	53.9	na	3.096	253.6	20.23	12.78
111	2007	143	145	53.89	na	3.561	258.4	22.39	12.78
111	2007	143	200	53.83	na	3.07	263.2	23.57	12.76
111	2007	143	215	53.84	na	3.159	263.3	20.26	12.77
111	2007	143	230	53.72	na	2.603	255.8	22.65	12.76
111	2007	143	245	53.65	na	2.478	250.9	22.92	12.76
111	2007	143	300	53.59	na	2.513	256.9	24.35	12.74
111	2007	143	315	53.68	na	2.955	239	22.95	12.74
111	2007	143	330	53.74	na	2.623	238	22.75	12.74
111	2007	143	345	53.51	na	1.792	245	17.31	12.73
111	2007	143	400	53.34	na	2.005	248.6	22.53	12.72
111	2007	143	415	53.3	na	2.048	234.1	19.53	12.72
111	2007	143	430	53.22	na	1.782	245.1	19.34	12.72
111	2007	143	445	53.12	na	2.255	237.6	21.65	12.71
111	2007	143	500	53.09	na	1.894	235.2	26.78	12.69
111	2007	143	515	53.06	na	1.645	223.6	19.43	12.69
111	2007	143	530	52.89	na	1.257	242.2	17.44	12.69
111	2007	143	545	52.69	na	1.195	241.5	21.58	12.68
111	2007	143	600	52.71	na	0.738	238	15.9	12.67
111	2007	143	615	53.14	na	0.374	247.1	54.5	12.68
111	2007	143	630	54.69	na	0.922	226.7	24.71	12.68

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	143	645	55.49	na	1.941	229.2	30.95	12.71
111	2007	143	700	56.03	na	3.235	216.8	24.69	12.74
111	2007	143	715	56.76	na	3.281	246.4	25.85	12.8
111	2007	143	730	57.46	na	4.004	233.3	30.05	12.86
111	2007	143	745	57.91	na	3.929	243.7	24.21	12.92
111	2007	143	800	58.52	na	4.485	250.4	26.07	12.97
111	2007	143	815	59.24	na	4.223	246.6	32.27	13.06
111	2007	143	830	59.86	na	4.7	263.8	29.75	13.14
111	2007	143	845	60.18	na	6.264	266.5	27.36	13.22
111	2007	143	900	60.02	na	5.684	266.5	28.45	13.28
111	2007	143	915	60.81	na	5.746	258.5	23.56	13.34
111	2007	143	930	61.11	na	7.13	261.1	23.1	13.4
111	2007	143	945	61.11	na	7.16	250.1	23.4	13.49
111	2007	143	1000	61.68	na	6.839	267.6	24.93	13.48
111	2007	143	1015	62.73	na	5.732	271.4	27.47	13.47
111	2007	143	1030	62.68	na	6.964	257.2	28.25	13.47
111	2007	143	1045	62.68	na	7.61	249	23.34	13.47
111	2007	143	1100	62.99	na	7.92	263.7	27.36	13.46
111	2007	143	1115	63.02	na	7.97	270.5	25.46	13.47
111	2007	143	1130	63.63	na	7.08	256.5	28.42	13.46
111	2007	143	1145	63.09	na	7.27	249	26.01	13.46
111	2007	143	1200	63.52	na	7.22	264	29.64	13.45
111	2007	143	1215	63.14	na	7.6	240.4	24.82	13.45
111	2007	143	1230	62.95	na	7.79	236.9	23.28	13.45
111	2007	143	1245	62.79	na	7.55	238.5	24.78	13.45
111	2007	143	1300	63.34	na	7.35	240.4	27.39	13.45
111	2007	143	1315	63.7	na	8.47	258.4	32.46	13.45
111	2007	143	1330	63.17	na	8.67	257.1	23.89	13.46
111	2007	143	1345	63.39	na	9.31	251.8	24.66	13.46
111	2007	143	1400	63.17	na	9.06	252.3	27.53	13.45
111	2007	143	1415	64.26	na	8.9	269.3	24.3	13.45
111	2007	143	1430	64.35	na	8.41	253.9	26.79	13.45
111	2007	143	1445	63	na	9.55	248.8	23.31	13.45
111	2007	143	1500	63.44	na	8.72	246.2	26.82	13.45
111	2007	143	1515	63.13	na	8	238.8	24.12	13.45
111	2007	143	1530	63.31	na	8.5	242.3	28.85	13.45
111	2007	143	1545	63.46	na	6.926	247	28.11	13.45
111	2007	143	1600	63.45	na	8.16	247.8	25.45	13.44
111	2007	143	1615	63.06	na	7.74	238.8	29.19	13.45
111	2007	143	1630	63.32	na	7.4	249	24.87	13.45
111	2007	143	1645	62.84	na	7.76	252.5	26.58	13.45
111	2007	143	1700	62.99	na	8.15	261.7	22.6	13.45
111	2007	143	1715	62.74	na	7.59	241.2	24.8	13.46
111	2007	143	1730	61.89	na	7.83	237.1	25.96	13.47
111	2007	143	1745	61.15	na	8.64	249.5	27.03	13.47
111	2007	143	1800	60.53	na	8.93	251.7	20.93	13.47
111	2007	143	1815	60.67	na	7.23	242.6	25.47	13.49
111	2007	143	1830	60.41	na	7.1	252.9	27.8	13.5
111	2007	143	1845	60.41	na	5.668	242.9	29.49	13.5
111	2007	143	1900	59.79	na	5.96	242.7	26	13.5
111	2007	143	1915	59.5	na	5.73	245.4	24.75	13.52
111	2007	143	1930	58.97	na	7.17	249.5	22.39	13.53
111	2007	143	1945	58.39	na	5.773	249.2	24.88	13.1
111	2007	143	2000	57.88	na	6.386	254.2	22.53	13.02
111	2007	143	2015	57.58	na	6.417	258.7	23.46	12.98
111	2007	143	2030	57.37	na	6.509	255.8	27.73	12.95
111	2007	143	2045	57.19	na	6.584	253.4	26.88	12.92
111	2007	143	2100	57.22	na	6.433	257.5	26.71	12.9
111	2007	143	2115	57.26	na	6.258	253.5	29.37	12.89
111	2007	143	2130	57.35	na	6.022	263.8	26.91	12.88

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	143	2145	57.37	na	6.022	256.8	24.29	12.87
111	2007	143	2200	57.38	na	5.445	262.7	29.72	12.86
111	2007	143	2215	57.44	na	6.074	259.4	26.36	12.86
111	2007	143	2230	57.31	na	5.008	260.4	28.52	12.86
111	2007	143	2245	57.29	na	5.706	268.1	26.8	12.85
111	2007	143	2300	57.25	na	6.69	266.2	27.21	12.84
111	2007	143	2315	57.23	na	5.509	267.3	25.93	12.84
111	2007	143	2330	57.21	na	6.682	275.6	22.73	12.84
111	2007	143	2345	57.2	na	5.012	277.1	25.46	12.84
111	2007	143	2400	57.11	na	5.827	265.4	21.5	12.82
111	2007	144	15	57.08	na	5.823	270	22.98	12.83
111	2007	144	30	56.97	na	5.769	267.1	25.35	12.82
111	2007	144	45	56.97	na	6.197	274.4	25.04	12.82
111	2007	144	100	56.9	na	5.606	272.2	23.47	12.82
111	2007	144	115	56.85	na	4.624	263.6	28.2	12.81
111	2007	144	130	56.69	na	4.742	267.3	21.94	12.81
111	2007	144	145	56.64	na	4.616	279	25.1	12.8
111	2007	144	200	56.54	na	3.742	265.9	26.06	12.79
111	2007	144	215	56.41	na	3.79	275.3	26.79	12.79
111	2007	144	230	56.56	na	4.897	280.7	24.2	12.79
111	2007	144	245	56.62	na	5.831	285.3	18.05	12.78
111	2007	144	300	56.88	na	6.054	287.6	16.51	12.77
111	2007	144	315	56.74	na	5.203	285.4	23.08	12.77
111	2007	144	330	56.8	na	6.217	290.5	17.45	12.77
111	2007	144	345	56.88	na	6.879	281.7	19.75	12.76
111	2007	144	400	56.76	na	5.702	287.5	23.48	12.74
111	2007	144	415	56.42	na	5.092	287.3	18.49	12.74
111	2007	144	430	56.23	na	5.171	280.7	21.3	12.74
111	2007	144	445	56.17	na	5.195	287.1	22.44	12.74
111	2007	144	500	56.18	na	6.376	286.2	21.05	12.72
111	2007	144	515	55.99	na	5.229	287.2	20.64	12.72
111	2007	144	530	55.93	na	5.541	285.7	18.29	12.72
111	2007	144	545	56.14	na	5.427	289.4	20.87	12.71
111	2007	144	600	56.27	na	5.952	292.5	15.32	12.7
111	2007	144	615	56.55	na	5.807	290.4	19.63	12.7
111	2007	144	630	56.96	na	6.195	292.3	18.95	12.7
111	2007	144	645	57.54	na	6.085	296.5	17.45	12.72
111	2007	144	700	58.27	na	5.827	294.8	19.61	12.75
111	2007	144	715	58.94	na	6.952	296.8	18.26	12.82
111	2007	144	730	59.72	na	7.1	293.2	21.73	12.88
111	2007	144	745	60.52	na	7.01	301.4	22.31	12.96
111	2007	144	800	61.34	na	7.79	298.3	23.72	13.04
111	2007	144	815	62.17	na	7.23	295.4	22.75	13.13
111	2007	144	830	63.08	na	7.7	291	19.98	13.22
111	2007	144	845	63.68	na	6.996	299.3	20.93	13.3
111	2007	144	900	64.71	na	6.97	301	25.75	13.35
111	2007	144	915	65.87	na	6.509	297	24.43	13.42
111	2007	144	930	66.53	na	6.505	283.5	26.6	13.43
111	2007	144	945	66.68	na	6.258	276.6	23.13	13.43
111	2007	144	1000	66.52	na	6.887	266.6	26.21	13.43
111	2007	144	1015	66.92	na	6.531	264.1	24.25	13.42
111	2007	144	1030	66.81	na	7.53	266.4	27.06	13.42
111	2007	144	1045	67.07	na	6.773	265.3	25.81	13.42
111	2007	144	1100	67.57	na	7.46	263.1	26.98	13.41
111	2007	144	1115	67.59	na	7.86	273.2	25.85	13.41
111	2007	144	1130	68	na	7.82	257.3	21.58	13.41
111	2007	144	1145	68.43	na	8.15	270.7	24.95	13.41
111	2007	144	1200	69.1	na	8.34	262.1	24.7	13.4
111	2007	144	1215	70.4	na	7.6	266.6	24.85	13.4
111	2007	144	1230	70.7	na	7.83	274.1	23.54	13.39

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	144	1245	70.6	na	8.59	277.7	23.78	13.39
111	2007	144	1300	70.7	na	7.58	266.4	25.86	13.41
111	2007	144	1315	71.2	na	7.36	263.5	24.52	13.39
111	2007	144	1330	71.8	na	8.47	277	21.95	13.38
111	2007	144	1345	71.1	na	8.48	276.9	28.67	13.42
111	2007	144	1400	71.7	na	6.735	264.1	26.3	13.37
111	2007	144	1415	70.8	na	7.28	267.2	25.47	13.38
111	2007	144	1430	71.6	na	7.75	275.4	20.23	13.38
111	2007	144	1445	71.8	na	7.11	273.6	29.96	13.37
111	2007	144	1500	71.3	na	9.27	268.9	18.91	13.37
111	2007	144	1515	70.8	na	8.08	270.8	25.29	13.37
111	2007	144	1530	71.2	na	8.3	268.8	22.38	13.37
111	2007	144	1545	70.8	na	8.43	264.3	20.57	13.42
111	2007	144	1600	70.8	na	8.58	268.8	23.08	13.36
111	2007	144	1615	70.8	na	7.42	266.4	23.59	13.37
111	2007	144	1630	71.2	na	7.27	269.8	22.23	13.37
111	2007	144	1645	71	na	7.45	271.8	25.11	13.37
111	2007	144	1700	71	na	7.2	265.8	23.18	13.41
111	2007	144	1715	70.5	na	8.06	272.3	23.76	13.38
111	2007	144	1730	70.7	na	7.17	273.7	25.54	13.38
111	2007	144	1745	70.8	na	7.77	281.8	22.09	13.39
111	2007	144	1800	71.2	na	5.233	262.4	28.96	13.38
111	2007	144	1815	70.7	na	5.587	261.5	18.76	13.39
111	2007	144	1830	70.4	na	5.243	263.5	22.52	13.43
111	2007	144	1845	69.99	na	4.288	269.2	22.56	13.4
111	2007	144	1900	69.81	na	4.227	269.4	25.67	13.4
111	2007	144	1915	69.52	na	3.8	260.4	24.28	13.41
111	2007	144	1930	68.93	na	3.569	260.3	20.5	13.43
111	2007	144	1945	67.84	na	3.966	260.6	26.87	13.15
111	2007	144	2000	66.49	na	4.742	268.3	22.97	13.01
111	2007	144	2015	65.39	na	4.213	272.3	22.99	12.99
111	2007	144	2030	64.54	na	4.086	268.2	25.25	12.95
111	2007	144	2045	64.17	na	4.827	284.3	18.19	12.98
111	2007	144	2100	63.84	na	3.301	277.7	25.06	12.91
111	2007	144	2115	63.51	na	3.235	280.1	21.2	12.91
111	2007	144	2130	63.57	na	3.519	285.9	17.63	12.89
111	2007	144	2145	63.61	na	3.905	285.8	18.58	12.89
111	2007	144	2200	63.64	na	3.664	280.8	22.21	12.87
111	2007	144	2215	63.74	na	3.1	289.6	20.08	12.88
111	2007	144	2230	63.96	na	2.664	289.9	21.57	12.87
111	2007	144	2245	64.66	na	3.499	283.9	17.14	12.87
111	2007	144	2300	64.91	na	2.824	282.7	18.5	12.85
111	2007	144	2315	65.1	na	3.998	284.6	18.08	12.86
111	2007	144	2330	65.73	na	4.517	294	17.15	12.86
111	2007	144	2345	66.66	na	5.441	293.8	14.74	12.86
111	2007	144	2400	66.69	na	4.863	293.1	15.77	12.84
111	2007	145	15	67.17	na	6.042	296.8	17.57	12.85
111	2007	145	30	67.43	na	5.909	301.5	16.43	12.85
111	2007	145	45	67.32	na	5.704	295.9	18.3	12.85
111	2007	145	100	67.18	na	5.251	295.3	14.12	12.83
111	2007	145	115	67.01	na	5.05	297.1	14.49	12.84
111	2007	145	130	66.79	na	5.197	297.7	15.01	12.89
111	2007	145	145	66.9	na	4.855	303.3	21.86	12.83
111	2007	145	200	66.93	na	4.67	304.7	22.8	12.82
111	2007	145	215	66.77	na	4.535	303.6	17.91	12.83
111	2007	145	230	66.49	na	3.996	307	18.55	12.82
111	2007	145	245	66.19	na	4.153	301.6	19.78	12.82
111	2007	145	300	65.8	na	3.919	297.4	19.41	12.8
111	2007	145	315	65.31	na	3.472	299.2	17.87	12.81
111	2007	145	330	64.97	na	2.668	304.3	23.05	12.79

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	145	345	64.48	na	2.378	297.4	21.78	12.79
111	2007	145	400	63.9	na	2.305	296.7	13.75	12.77
111	2007	145	415	63.19	na	2.179	291.3	13.87	12.77
111	2007	145	430	62.19	na	2.064	291.1	12.76	12.77
111	2007	145	445	61.54	na	2.046	280.4	12.48	12.76
111	2007	145	500	60.65	na	2.074	292.9	10.23	12.75
111	2007	145	515	59.93	na	1.971	284.7	10.79	12.74
111	2007	145	530	59.18	na	3.352	285	12.41	12.74
111	2007	145	545	60.15	na	4.114	291.4	12.6	12.74
111	2007	145	600	60.86	na	4.893	293.2	11.88	12.72
111	2007	145	615	61.56	na	4.428	293.7	13.21	12.72
111	2007	145	630	62.43	na	4.026	294.1	16.12	12.72
111	2007	145	645	63.56	na	3.77	307.2	25.09	12.74
111	2007	145	700	64.98	na	2.515	332.7	37.67	12.8
111	2007	145	715	65.89	na	3.865	319.1	22.14	12.81
111	2007	145	730	66.94	na	3.625	306.1	21.68	12.87
111	2007	145	745	67.71	na	4.477	304.5	22.51	12.93
111	2007	145	800	68.88	na	4.986	302.3	17.7	12.99
111	2007	145	815	69.79	na	4.744	309.5	26.56	13.08
111	2007	145	830	70.9	na	4.787	310.8	28.7	13.16
111	2007	145	845	71.9	na	5.549	308.6	24.22	13.25
111	2007	145	900	73	na	5.469	312.7	30.76	13.31
111	2007	145	915	74.3	na	4.557	311.5	26.33	13.37
111	2007	145	930	75.8	na	4.672	306	21.09	13.41
111	2007	145	945	77	na	4.362	307.7	29.75	13.35
111	2007	145	1000	78.5	na	4.994	301	29.31	13.33
111	2007	145	1015	79.6	na	4.06	320.1	36.79	13.32
111	2007	145	1030	80.4	na	5.068	279.3	28.03	13.32
111	2007	145	1045	79.6	na	4.895	260.4	30.06	13.31
111	2007	145	1100	78.2	na	5.062	263.1	26.01	13.3
111	2007	145	1115	78.1	na	5.539	264.5	28	13.31
111	2007	145	1130	78	na	6.445	262	22.57	13.36
111	2007	145	1145	78.6	na	6.509	271.1	23.44	13.3
111	2007	145	1200	79.4	na	6.809	268.5	26.6	13.3
111	2007	145	1215	79.4	na	6.688	257.7	22.86	13.3
111	2007	145	1230	79.9	na	6.881	257.6	24.56	13.3
111	2007	145	1245	79.4	na	7.37	259.6	24.6	13.3
111	2007	145	1300	80.1	na	7.63	268.8	23.19	13.29
111	2007	145	1315	81	na	7.54	274.8	22.42	13.32
111	2007	145	1330	82	na	6.916	273.5	25.97	13.29
111	2007	145	1345	82.1	na	7.47	259.2	24.3	13.28
111	2007	145	1400	82	na	7.44	265.3	21.74	13.28
111	2007	145	1415	81.3	na	7.97	263.5	24.03	13.28
111	2007	145	1430	80.7	na	8.09	274.7	23.9	13.28
111	2007	145	1445	80.4	na	8.19	271.7	21.66	13.28
111	2007	145	1500	80.3	na	9.55	280.3	17.98	13.28
111	2007	145	1515	80.1	na	7.95	265.7	23.39	13.28
111	2007	145	1530	79.7	na	9.36	269.3	21.46	13.32
111	2007	145	1545	80.2	na	8.16	271.3	21.25	13.28
111	2007	145	1600	80.9	na	7.31	268.6	22.57	13.28
111	2007	145	1615	80.2	na	8.27	277	22.05	13.28
111	2007	145	1630	79.2	na	8.5	277.3	24.08	13.29
111	2007	145	1645	78.2	na	8.28	279.5	23.67	13.3
111	2007	145	1700	77.3	na	8.72	278.8	18.68	13.3
111	2007	145	1715	76.8	na	8.33	273.1	20.76	13.31
111	2007	145	1730	76	na	7.76	270.7	20.6	13.32
111	2007	145	1745	76.2	na	7.51	273.5	22.81	13.32
111	2007	145	1800	76.9	na	5.557	279.2	23.55	13.32
111	2007	145	1815	76.6	na	6.012	268.5	22.02	13.33
111	2007	145	1830	76	na	5.807	277.9	23.32	13.34

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	145	1845	75.2	na	6.859	282.8	21.22	13.34
111	2007	145	1900	75	na	6.761	281.6	20.82	13.35
111	2007	145	1915	74.2	na	5.481	282.4	22.41	13.36
111	2007	145	1930	73.5	na	5.412	281.8	21.34	13.37
111	2007	145	1945	72.1	na	3.883	269.6	21.42	13.08
111	2007	145	2000	70.7	na	3.571	264.2	23.95	13.01
111	2007	145	2015	69.83	na	3.8	281.9	20.12	12.98
111	2007	145	2030	69.28	na	3.911	276.6	22.98	12.95
111	2007	145	2045	68.83	na	3.728	283	19.8	12.93
111	2007	145	2100	68.24	na	3.362	279.8	21.5	12.91
111	2007	145	2115	67.83	na	3.126	286.1	19.72	12.9
111	2007	145	2130	67.33	na	1.87	271.3	19.61	12.89
111	2007	145	2145	66.77	na	1.853	275.1	18.37	12.88
111	2007	145	2200	66.43	na	2.275	282.5	16.39	12.87
111	2007	145	2215	66.31	na	2.084	297.9	18.05	12.87
111	2007	145	2230	66.39	na	1.563	310.4	23.96	12.85
111	2007	145	2245	66.23	na	1.941	292.5	18.53	12.85
111	2007	145	2300	66.46	na	1.899	300.1	27.23	12.83
111	2007	145	2315	66.82	na	1.798	301.5	23.68	12.84
111	2007	145	2330	66.31	na	2.116	286.9	14.55	12.83
111	2007	145	2345	66.66	na	2.899	295	13.58	12.83
111	2007	145	2400	67.06	na	3.213	288	11.86	12.85
111	2007	146	15	66.98	na	2.941	286.2	13.83	12.83
111	2007	146	30	67.5	na	2.975	283.6	18.01	12.83
111	2007	146	45	68.19	na	3.179	292.7	13.63	12.82
111	2007	146	100	68.56	na	3.326	297.6	13.92	12.81
111	2007	146	115	68.63	na	2.402	302.5	25.96	12.82
111	2007	146	130	68.49	na	2.802	296.9	16.6	12.82
111	2007	146	145	68.38	na	3.432	303.6	14.58	12.81
111	2007	146	200	69.13	na	4.304	305.6	18.71	12.8
111	2007	146	215	69.6	na	4.35	305.7	20.12	12.81
111	2007	146	230	69.58	na	4.477	303.8	15.78	12.81
111	2007	146	245	69.29	na	3.744	312.6	21.64	12.81
111	2007	146	300	69.01	na	3.517	317.3	19.97	12.79
111	2007	146	315	68.51	na	3.13	312.3	22.61	12.79
111	2007	146	330	67.96	na	3.239	304.9	20.05	12.79
111	2007	146	345	67.39	na	2.474	304.4	16.55	12.79
111	2007	146	400	66.85	na	1.718	290	21.41	12.77
111	2007	146	415	65.86	na	1.327	267.4	21.62	12.77
111	2007	146	430	64.9	na	1.718	274.4	22.5	12.77
111	2007	146	445	64.55	na	0.972	251.9	16	12.76
111	2007	146	500	64.22	na	0.923	310.6	18.88	12.74
111	2007	146	515	63.77	na	1.092	294.9	18.35	12.78
111	2007	146	530	63.1	na	0.405	13.65	18.23	12.74
111	2007	146	545	63.25	na	0.51	39.93	8.58	12.74
111	2007	146	600	63.28	na	0.543	269.6	4.479	12.73
111	2007	146	615	62.87	na	1.679	293.7	18.31	12.73
111	2007	146	630	63.77	na	1.061	295.5	32.68	12.73
111	2007	146	645	64.89	na	0.942	296	18.63	12.74
111	2007	146	700	66.11	na	0.528	293.2	9.1	12.82
111	2007	146	715	67.31	na	0.633	332.6	26.34	12.94
111	2007	146	730	68.77	na	1.135	317.7	33.1	13.07
111	2007	146	745	70.1	na	1.757	301.9	39.19	13.18
111	2007	146	800	70.8	na	1.596	356.8	30.4	13.27
111	2007	146	815	71.9	na	1.493	15.35	32.01	13.43
111	2007	146	830	73.8	na	2.35	9.01	31.6	13.41
111	2007	146	845	75.7	na	3.593	22.06	24.79	13.38
111	2007	146	900	77	na	4.074	34.61	29.24	13.36
111	2007	146	915	77.7	na	4.785	22.38	25.08	13.35
111	2007	146	930	78.6	na	3.726	19.99	34.95	13.33

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	146	945	78.8	na	4.263	37.3	30.19	13.32
111	2007	146	1000	79.3	na	4.39	29.65	32.06	13.3
111	2007	146	1015	79.6	na	3.947	41.51	30.67	13.3
111	2007	146	1030	80.7	na	3.221	58.13	47.5	13.3
111	2007	146	1045	82.2	na	2.694	317.1	60.16	13.29
111	2007	146	1100	82.6	na	3.957	17.44	38.93	13.27
111	2007	146	1115	82.6	na	5.692	27.3	29.7	13.27
111	2007	146	1130	83.4	na	4.758	338.3	48.78	13.27
111	2007	146	1145	83.4	na	5.887	347.7	38.35	13.26
111	2007	146	1200	83.1	na	6.549	28.83	30.14	13.26
111	2007	146	1215	83.3	na	6.392	25.07	32.91	13.26
111	2007	146	1230	83.5	na	4.801	17.19	38.69	13.25
111	2007	146	1245	85	na	4.587	327.4	41.45	13.26
111	2007	146	1300	85	na	5.797	319.6	40.81	13.24
111	2007	146	1315	85.6	na	5.992	320.2	28.21	13.25
111	2007	146	1330	85.6	na	6.483	325.1	34.53	13.24
111	2007	146	1345	85.7	na	6.175	338.9	40.21	13.24
111	2007	146	1400	85.5	na	6.847	330.8	39.88	13.23
111	2007	146	1415	85.1	na	5.201	347.6	39.06	13.24
111	2007	146	1430	85.6	na	6.57	315.8	28.28	13.24
111	2007	146	1445	84.6	na	5.837	336.6	38.17	13.24
111	2007	146	1500	83.7	na	6.646	344.9	34.27	13.24
111	2007	146	1515	83.7	na	5.487	6.718	31.22	13.25
111	2007	146	1530	83.5	na	5.551	15.95	38.59	13.25
111	2007	146	1545	84.3	na	5.424	335.5	40.06	13.24
111	2007	146	1600	84.1	na	5.261	341.9	41.49	13.24
111	2007	146	1615	83.7	na	6.099	3.23	32.82	13.28
111	2007	146	1630	83.1	na	5.718	8.14	35.93	13.26
111	2007	146	1645	82.9	na	6.803	339.3	34.66	13.29
111	2007	146	1700	84.2	na	6.141	340.7	39.07	13.26
111	2007	146	1715	83.4	na	7.23	7.39	37.77	13.26
111	2007	146	1730	82.8	na	6.871	7.77	29.17	13.26
111	2007	146	1745	82.4	na	6.574	20.52	31.22	13.26
111	2007	146	1800	81.9	na	6.976	16.17	30.71	13.26
111	2007	146	1815	81.4	na	5.547	0.489	31.29	13.28
111	2007	146	1830	81.4	na	5.336	354.2	34.6	13.31
111	2007	146	1845	81	na	5.779	353.9	40.58	13.29
111	2007	146	1900	80.7	na	5.757	359.2	35.43	13.29
111	2007	146	1915	80.5	na	5.117	356.5	27.27	13.3
111	2007	146	1930	80	na	5.094	11.77	28.88	13.3
111	2007	146	1945	79.5	na	3.583	3.045	32.45	13.09
111	2007	146	2000	78.7	na	2.074	352.6	30.06	13.02
111	2007	146	2015	77.8	na	1.993	332.8	37.4	12.98
111	2007	146	2030	76.8	na	1.859	2.308	26.74	12.97
111	2007	146	2045	76.2	na	2.106	15.64	24.54	12.95
111	2007	146	2100	75.4	na	2.098	343.1	30.19	12.92
111	2007	146	2115	74.5	na	1.685	278.5	29.65	12.92
111	2007	146	2130	72.8	na	1.653	300.2	17.42	12.9
111	2007	146	2145	72.2	na	0.889	286.7	44.37	12.89
111	2007	146	2200	71.3	na	1.17	254.6	23.5	12.87
111	2007	146	2215	70.4	na	1.818	276.3	16.97	12.87
111	2007	146	2230	69.86	na	1.776	264.2	19.24	12.87
111	2007	146	2245	69.66	na	2.342	277.1	22.11	12.9
111	2007	146	2300	69.79	na	2.825	303.3	18.41	12.84
111	2007	146	2315	69.73	na	2.67	289	18.39	12.85
111	2007	146	2330	69.17	na	2.043	289.6	13.16	12.88
111	2007	146	2345	68.43	na	0.433	308.4	17.25	12.83
111	2007	146	2400	67.39	na	1.324	290.2	31.95	12.81
111	2007	147	15	66.63	na	1.427	300.5	28.93	12.82
111	2007	147	30	66.12	na	1.226	339.7	22.77	12.82

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	147	45	65.86	na	0.936	273.5	25.54	12.82
111	2007	147	100	65	na	0.968	284.3	23.91	12.8
111	2007	147	115	64.9	na	1.638	301.5	26.82	12.8
111	2007	147	130	65.4	na	1.743	354.6	22.59	12.8
111	2007	147	145	65.08	na	1.128	38.29	12.84	12.83
111	2007	147	200	64.61	na	0.471	355.3	23.82	12.78
111	2007	147	215	64.74	na	1.585	22.72	10.98	12.78
111	2007	147	230	65.23	na	1.386	10.29	23.38	12.78
111	2007	147	245	65.39	na	0.78	17.72	22.52	12.77
111	2007	147	300	65.6	na	1.387	348.2	39.31	12.76
111	2007	147	315	65.93	na	1.78	288.4	14.17	12.77
111	2007	147	330	65.78	na	0.429	280.2	9.77	12.76
111	2007	147	345	65.49	na	0.734	310.9	10.53	12.76
111	2007	147	400	65.49	na	0.573	340.6	50.12	12.74
111	2007	147	415	65.68	na	0.375	342.6	22.03	12.75
111	2007	147	430	65.5	na	0.673	346	17.34	12.75
111	2007	147	445	65.02	na	0.277	17.28	8.7	12.74
111	2007	147	500	64.92	na	1.174	340.9	32.78	12.73
111	2007	147	515	65.44	na	1.865	19.2	30.13	12.74
111	2007	147	530	65.95	na	1.666	23.8	29.61	12.73
111	2007	147	545	66.07	na	1.872	25.9	30.3	12.74
111	2007	147	600	66.22	na	1.949	34.3	21.83	12.73
111	2007	147	615	66.41	na	1.848	52.51	20.34	12.73
111	2007	147	630	66.47	na	1.478	63.04	19.62	12.73
111	2007	147	645	66.37	na	2.072	61.13	15.81	12.76
111	2007	147	700	66.57	na	2.8	64.14	22.59	12.88
111	2007	147	715	66.91	na	2.925	76.8	22.23	12.8
111	2007	147	730	67.02	na	2.808	85.8	23.23	12.9
111	2007	147	745	67.19	na	3.662	63.16	21.14	13.15
111	2007	147	800	67.58	na	3.891	60.16	21.28	13.45
111	2007	147	815	68.06	na	4.147	75.4	21.56	13.48
111	2007	147	830	68.62	na	4.074	56.87	21.38	13.44
111	2007	147	845	69.75	na	4.461	62.75	21.41	13.42
111	2007	147	900	70.9	na	4.901	79.4	25.06	13.41
111	2007	147	915	71.4	na	5.368	75.2	21.71	13.39
111	2007	147	930	72.1	na	4.463	83.5	25.02	13.39
111	2007	147	945	72.9	na	4.424	110.2	28.96	13.41
111	2007	147	1000	73.5	na	3.124	103.6	42.07	13.36
111	2007	147	1015	74.4	na	3.04	103	51.32	13.36
111	2007	147	1030	75.6	na	3.386	129.6	67.16	13.37
111	2007	147	1045	75	na	4.658	187.8	21.38	13.35
111	2007	147	1100	74.2	na	6.014	201.8	22.37	13.37
111	2007	147	1115	73.4	na	6.083	182.1	22.12	13.34
111	2007	147	1130	72.4	na	6.813	189.9	18.34	13.34
111	2007	147	1145	72	na	6.95	191.2	20.27	13.34
111	2007	147	1200	71.6	na	7.26	195.1	20.85	13.34
111	2007	147	1215	71.9	na	6.873	188.4	21.05	13.35
111	2007	147	1230	71.1	na	7.25	189	20.5	13.34
111	2007	147	1245	71.5	na	6.889	185.7	21.5	13.35
111	2007	147	1300	71.5	na	6.773	183.4	17.83	13.34
111	2007	147	1315	71.8	na	6.016	194.9	24.83	13.35
111	2007	147	1330	72.1	na	6.219	207	19.23	13.35
111	2007	147	1345	71.4	na	5.688	202.6	23.5	13.38
111	2007	147	1400	71.8	na	5.956	189.2	27.56	13.34
111	2007	147	1415	71.7	na	5.692	188.7	21.22	13.37
111	2007	147	1430	71	na	6.044	189.2	19.38	13.35
111	2007	147	1445	71.2	na	5.775	206.3	20.91	13.35
111	2007	147	1500	71.1	na	5.994	212.2	25.73	13.34
111	2007	147	1515	71	na	6.221	222.6	22.99	13.34
111	2007	147	1530	70.5	na	6.099	220.9	17.15	13.35

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	147	1545	71	na	6.117	214.9	19.25	13.35
111	2007	147	1600	71.1	na	6.527	194.2	17.39	13.34
111	2007	147	1615	70.5	na	6.417	193	20.4	13.35
111	2007	147	1630	70.8	na	5.672	184.9	18.01	13.35
111	2007	147	1645	71.3	na	4.915	207.1	25.47	13.35
111	2007	147	1700	71.9	na	4.847	201	24.54	13.35
111	2007	147	1715	72.6	na	4.479	204.5	23.09	13.35
111	2007	147	1730	72.8	na	4.642	201.5	22.12	13.35
111	2007	147	1745	72	na	5.288	189.9	18.77	13.36
111	2007	147	1800	71.1	na	5.503	189.8	20.71	13.39
111	2007	147	1815	71.1	na	4.553	205.4	27.75	13.37
111	2007	147	1830	70.6	na	5.527	209.2	20.02	13.37
111	2007	147	1845	69.45	na	4.978	199.9	24.14	13.39
111	2007	147	1900	68.71	na	5.453	194.5	19.77	13.39
111	2007	147	1915	68.52	na	4.974	213.3	21.87	13.41
111	2007	147	1930	67.57	na	5.066	218	20.96	13.1
111	2007	147	1945	66.97	na	5.175	221.3	25.82	13.03
111	2007	147	2000	66.45	na	4.209	229.6	20.37	12.98
111	2007	147	2015	66.43	na	3.328	230.7	25.52	12.95
111	2007	147	2030	66.2	na	3.374	248.3	26.69	12.93
111	2007	147	2045	66.09	na	3.619	246.9	26.96	12.92
111	2007	147	2100	65.95	na	4.046	232.9	27.88	12.89
111	2007	147	2115	65.7	na	4.583	230.7	22.16	12.89
111	2007	147	2130	65.31	na	3.676	224.2	25.22	12.88
111	2007	147	2145	65.35	na	2.853	243.6	33.29	12.92
111	2007	147	2200	65.38	na	4.098	225.9	21.28	12.86
111	2007	147	2215	65.63	na	4.066	245.6	20.29	12.86
111	2007	147	2230	65.71	na	3.925	251.9	26.65	12.9
111	2007	147	2245	66.29	na	5.71	280.9	21.96	12.86
111	2007	147	2300	67.27	na	6.326	284.4	21.22	12.84
111	2007	147	2315	67.42	na	5.022	291.9	23.25	12.85
111	2007	147	2330	67.48	na	3.825	273.8	23.45	12.85
111	2007	147	2345	67.77	na	3.573	305.5	28.86	12.85
111	2007	147	2400	68.85	na	2.621	329.2	33.29	12.84
111	2007	148	15	69.5	na	2.589	235.7	49.74	12.85
111	2007	148	30	69.38	na	4.901	250.7	26.71	12.85
111	2007	148	45	68.82	na	9.67	272.5	28.26	12.84
111	2007	148	100	70	na	10.79	285.5	20.29	12.83
111	2007	148	115	70.9	na	8.8	290.9	19.48	12.84
111	2007	148	130	71.3	na	7.44	286.5	20.63	12.84
111	2007	148	145	70.1	na	5.103	300.3	29.14	12.83
111	2007	148	200	69.69	na	2.845	324.6	35.78	12.87
111	2007	148	215	69.7	na	2.831	9.19	37.43	12.83
111	2007	148	230	70.1	na	3.76	16.41	24.17	12.82
111	2007	148	245	70	na	2.384	351.5	40.86	12.82
111	2007	148	300	69.78	na	1.949	256.5	29.58	12.8
111	2007	148	315	69.16	na	3.64	240.3	16.41	12.81
111	2007	148	330	67.5	na	4.072	254.1	28.06	12.84
111	2007	148	345	66.45	na	3.384	248	21.57	12.79
111	2007	148	400	66.13	na	2.829	252.8	19.52	12.77
111	2007	148	415	66.11	na	3.452	253.7	26.19	12.77
111	2007	148	430	65.85	na	3.448	258	27.94	12.77
111	2007	148	445	65.54	na	3.748	250.8	22.56	12.76
111	2007	148	500	65.3	na	3.346	267.6	26.38	12.75
111	2007	148	515	65.23	na	3.497	277.6	19.67	12.75
111	2007	148	530	65.21	na	2.627	272.6	25.79	12.75
111	2007	148	545	65.25	na	1.952	280.2	23.45	12.74
111	2007	148	600	65.55	na	2.847	268.2	23.73	12.73
111	2007	148	615	65.71	na	3.841	279.1	24.47	12.74
111	2007	148	630	65.76	na	3.253	280.5	19.24	12.74

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	148	645	65.94	na	4.811	285.9	20.77	12.79
111	2007	148	700	66.3	na	5.235	288.5	19.94	12.83
111	2007	148	715	66.52	na	5.288	293.2	19.11	12.91
111	2007	148	730	66.85	na	4.585	292	19.3	13.09
111	2007	148	745	67.64	na	3.167	298.2	31.83	13.38
111	2007	148	800	68.64	na	4.732	288.5	21.28	13.44
111	2007	148	815	69.1	na	4.555	295.7	21.63	13.44
111	2007	148	830	69.61	na	4.654	298.9	20.83	13.43
111	2007	148	845	70.5	na	4.126	301.7	24.19	13.42
111	2007	148	900	71.5	na	3.688	259.6	29.97	13.4
111	2007	148	915	71.6	na	4.269	246.3	23.63	13.39
111	2007	148	930	71.5	na	4.686	241.6	23.68	13.39
111	2007	148	945	72.2	na	4.917	255.4	23.52	13.42
111	2007	148	1000	73	na	5.028	239.6	28.64	13.36
111	2007	148	1015	73	na	5.284	257.9	29.93	13.37
111	2007	148	1030	72.2	na	4.96	263.3	24.58	13.37
111	2007	148	1045	71.7	na	5.541	259	25.73	13.39
111	2007	148	1100	71.7	na	4.71	270.7	27.48	13.37
111	2007	148	1115	71.3	na	5.223	263.1	21.87	13.37
111	2007	148	1130	73.3	na	6.187	282.3	22.45	13.39
111	2007	148	1145	74.9	na	5.702	266.1	24.72	13.35
111	2007	148	1200	75.4	na	6.231	247.7	23.64	13.33
111	2007	148	1215	76.4	na	6.213	266.2	29.47	13.33
111	2007	148	1230	77	na	6.529	263.3	28.74	13.32
111	2007	148	1245	76.5	na	6.887	259.5	24.62	13.34
111	2007	148	1300	75.2	na	6.934	276.7	22.59	13.32
111	2007	148	1315	75.3	na	7.63	274	24.95	13.33
111	2007	148	1330	76.4	na	7.43	279.2	29.72	13.32
111	2007	148	1345	77.3	na	6.912	258.8	26.51	13.32
111	2007	148	1400	77.9	na	6.652	262.7	29.61	13.3
111	2007	148	1415	78.7	na	6.014	254.3	25.77	13.34
111	2007	148	1430	78.2	na	6.69	256.7	29.15	13.3
111	2007	148	1445	79.4	na	7.62	265.9	28.7	13.3
111	2007	148	1500	79.3	na	7.23	271	31.82	13.29
111	2007	148	1515	79.5	na	7.01	267.7	25.91	13.3
111	2007	148	1530	78.9	na	8.06	272.9	20.9	13.3
111	2007	148	1545	77.2	na	8.05	264.1	26.33	13.3
111	2007	148	1600	76.4	na	8.3	271.6	20.61	13.3
111	2007	148	1615	76.1	na	8.31	271.6	22.03	13.31
111	2007	148	1630	75.1	na	8.29	274.2	22.41	13.32
111	2007	148	1645	75.8	na	8.16	274.3	25.23	13.32
111	2007	148	1700	76.5	na	7.71	273.5	22.79	13.31
111	2007	148	1715	75.5	na	6.976	267.6	26.59	13.33
111	2007	148	1730	75.3	na	5.938	268.8	29.99	13.33
111	2007	148	1745	75.4	na	5.527	275.8	21.4	13.23
111	2007	148	1800	74.4	na	5.249	271.5	20.32	13.34
111	2007	148	1815	73.8	na	5.201	274.1	18.99	13.11
111	2007	148	1830	72.7	na	4.616	268.8	21.79	13.11
111	2007	148	1845	70.7	na	4.366	270.4	26.29	13.37
111	2007	148	1900	70.3	na	4.63	284	23.35	13.18
111	2007	148	1915	70.8	na	5.346	296.6	18.41	13.41
111	2007	148	1930	71.5	na	5.205	289.1	24.41	13.12
111	2007	148	1945	70.7	na	3.823	266.9	27.97	13.06
111	2007	148	2000	70.5	na	2.498	279.7	18.44	13.11
111	2007	148	2015	70.4	na	3.301	284	34.92	12.96
111	2007	148	2030	70.2	na	2.408	345	31.33	12.94
111	2007	148	2045	69.81	na	1.352	351.3	35.27	12.92
111	2007	148	2100	69.53	na	1.607	352.8	31.53	12.9
111	2007	148	2115	69.38	na	1.15	0.593	30.36	12.89
111	2007	148	2130	69.05	na	1.118	351.8	31.58	12.89

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	148	2145	68.65	na	0.745	19.14	25.91	12.88
111	2007	148	2200	67.9	na	1.19	335	18.16	12.87
111	2007	148	2215	66.93	na	1.108	332.7	21.18	12.87
111	2007	148	2230	65.72	na	1.824	330.9	12.65	12.86
111	2007	148	2245	65.46	na	0.945	9.82	17.35	12.85
111	2007	148	2300	65.01	na	1.355	30.63	23.25	12.84
111	2007	148	2315	65.27	na	0.902	19.38	21.97	12.84
111	2007	148	2330	65.4	na	2.505	57.64	25.84	12.84
111	2007	148	2345	66.97	na	3.159	61.88	19.77	12.83
111	2007	148	2400	66.73	na	3.112	52.75	24.19	12.82
111	2007	149	15	66.55	na	3.251	60.43	20.38	12.82
111	2007	149	30	65.71	na	2.653	50.78	20.02	12.82
111	2007	149	45	65.19	na	2.257	61.86	25.61	12.82
111	2007	149	100	64.86	na	2.72	68.41	24.49	12.8
111	2007	149	115	64.82	na	3.434	70.4	20.93	12.8
111	2007	149	130	64.84	na	3.589	73.2	18.66	12.8
111	2007	149	145	64.15	na	2.7	53.91	16.92	12.8
111	2007	149	200	63.13	na	2.237	49.26	23.51	12.82
111	2007	149	215	62.2	na	1.217	10.42	29.16	12.78
111	2007	149	230	60.81	na	0.789	344.5	23.75	12.78
111	2007	149	245	60.12	na	2.032	52.22	27.17	12.77
111	2007	149	300	61.96	na	3.615	53.2	21.4	12.75
111	2007	149	315	62	na	2.513	63.69	27.11	12.75
111	2007	149	330	61.12	na	1.623	41.45	33.22	12.75
111	2007	149	345	59.62	na	1.063	3.369	27.75	12.74
111	2007	149	400	58.3	na	1.396	341.3	22.21	12.78
111	2007	149	415	57.8	na	1.243	354.6	26.57	12.72
111	2007	149	430	57.5	na	1.575	352.1	28.45	12.71
111	2007	149	445	57.09	na	1.236	6.581	23.39	12.71
111	2007	149	500	56.77	na	1.333	21.93	29.26	12.68
111	2007	149	515	56.64	na	1.51	328.8	26.87	12.69
111	2007	149	530	55.63	na	1.357	325.3	9.59	12.68
111	2007	149	545	55.08	na	0.905	335.1	7.75	12.68
111	2007	149	600	55.09	na	1.214	336.9	10.06	12.66
111	2007	149	615	55.7	na	1.615	326.6	14.7	12.67
111	2007	149	630	57.57	na	1.619	333.4	20.93	12.67
111	2007	149	645	59.32	na	2.018	344.9	26.35	12.7
111	2007	149	700	60.07	na	2.613	1.676	35.15	12.76
111	2007	149	715	61.08	na	2.352	23.23	33.21	12.77
111	2007	149	730	62.42	na	4.674	45.52	21.8	12.83
111	2007	149	745	63.28	na	5.835	58.27	21.53	12.88
111	2007	149	800	64.13	na	5.781	49.79	22.24	12.93
111	2007	149	815	65.12	na	5.346	50.87	25.2	12.99
111	2007	149	830	65.69	na	6.726	48.04	21.32	13.1
111	2007	149	845	66.18	na	6.566	57.33	27.67	13.11
111	2007	149	900	66.54	na	7.46	66.93	24.07	13.16
111	2007	149	915	66.5	na	7.36	63.62	25.98	13.22
111	2007	149	930	66.86	na	7.1	65.19	24.7	13.26
111	2007	149	945	67.01	na	7.35	50.16	26.72	13.34
111	2007	149	1000	66.69	na	8.06	66.66	23.31	13.43
111	2007	149	1015	66.86	na	8.14	54.43	24.72	13.43
111	2007	149	1030	67.25	na	7.88	35.83	23.39	13.42
111	2007	149	1045	67.39	na	8.58	48.99	31.72	13.42
111	2007	149	1100	67.87	na	7.3	36.56	31.01	13.41
111	2007	149	1115	68.12	na	7.71	49.86	36.18	13.41
111	2007	149	1130	68.46	na	8.19	61.92	28.4	13.41
111	2007	149	1145	68.94	na	8.42	43.85	25.4	13.41
111	2007	149	1200	69.5	na	8.02	53.2	26.35	13.4
111	2007	149	1215	69.91	na	8.23	49.6	27.23	13.4
111	2007	149	1230	70.5	na	6.545	9.32	35.7	13.39

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	149	1245	70.9	na	6.127	18.91	38.36	13.39
111	2007	149	1300	71.2	na	5.803	44.2	41.38	13.38
111	2007	149	1315	71.8	na	6.087	20.41	44.4	13.37
111	2007	149	1330	71.4	na	5.831	54.06	40.93	13.36
111	2007	149	1345	72.5	na	6.604	46.76	27.34	13.35
111	2007	149	1400	74	37.14	4.856	16.87	54.75	13.34
111	2007	149	1415	73.8	34.97	5.711	17.73	45.84	13.34
111	2007	149	1430	73.9	36.21	5.925	39.16	33.27	13.34
111	2007	149	1445	74.5	33.87	5.644	36.64	73.8	13.34
111	2007	149	1500	75.2	36.14	4.254	22.69	49.84	13.34
111	2007	149	1515	75.1	35.03	4.546	358.4	37.17	13.34
111	2007	149	1530	75.3	33.16	5.987	31.54	53.1	13.33
111	2007	149	1545	75.5	31.49	5.497	345.6	51.49	13.33
111	2007	149	1600	75.5	31.69	6.706	353.2	31.17	13.32
111	2007	149	1615	75.1	44.29	5.252	286.6	50.73	13.32
111	2007	149	1630	73	47.43	5.818	259.9	26.26	13.33
111	2007	149	1645	73.2	44.63	4.698	263.4	30.58	13.34
111	2007	149	1700	73.8	46.03	4.667	266.1	36.41	13.34
111	2007	149	1715	72.9	44.93	5.727	267.6	29.36	13.34
111	2007	149	1730	72.7	46.8	5.306	269.9	31.26	13.35
111	2007	149	1745	72.5	45.7	5.481	251.5	28.48	13.36
111	2007	149	1800	72.2	50.55	5.969	244	24.65	13.37
111	2007	149	1815	70.8	51.35	6.223	250.7	24.52	13.37
111	2007	149	1830	72	46	5.35	281.3	24.51	13.38
111	2007	149	1845	72.5	47.07	3.251	251	33.26	13.39
111	2007	149	1900	71.2	55.3	4.506	223.3	21	13.39
111	2007	149	1915	69.97	54.26	3.896	246	22.27	13.39
111	2007	149	1930	69.49	54.43	3.773	259.2	22.18	13.41
111	2007	149	1945	69	57.21	3.622	260.4	22.26	13.19
111	2007	149	2000	67.88	58.09	2.659	262.8	20.74	13.13
111	2007	149	2015	67.2	60.7	2.133	265	22.3	13.09
111	2007	149	2030	66.3	68.8	3.779	273.8	21.1	13.07
111	2007	149	2045	65.45	75.7	5.05	282.2	17.69	13.05
111	2007	149	2100	64.82	74.3	5.79	286	17.73	13.03
111	2007	149	2115	64.5	71.5	5.407	294.1	14.31	13.03
111	2007	149	2130	64.17	73.4	2.939	310.9	21.09	13.02
111	2007	149	2145	63.3	75	2.479	311	23.1	13
111	2007	149	2200	62.8	75	3.585	304.1	17.76	13
111	2007	149	2215	62.46	73.4	4.031	310.3	21.67	12.99
111	2007	149	2230	62.26	73.3	3.618	311.4	21.8	12.98
111	2007	149	2245	61.93	74.2	3.279	313.6	15.83	12.98
111	2007	149	2300	61.58	74.3	2.502	309.3	18.82	12.97
111	2007	149	2315	61.34	75.2	2.486	303.5	22.51	12.96
111	2007	149	2330	60.8	76.4	1.909	313.4	28.51	12.96
111	2007	149	2345	60.45	77.6	2.207	319.2	27.25	12.95
111	2007	149	2400	59.97	78.6	1.974	293.8	22.83	12.94
111	2007	150	15	59.41	79.8	0.712	229.9	21.63	12.94
111	2007	150	30	59.16	80.6	0.58	42.62	5.338	12.94
111	2007	150	45	58.53	82	1.084	300.8	21.87	12.93
111	2007	150	100	58.08	82.7	1.151	296.5	44.59	12.92
111	2007	150	115	57.63	83.9	1.168	296.6	28.23	12.92
111	2007	150	130	57.56	83.4	1.025	312.3	27.98	12.92
111	2007	150	145	57.22	84.2	1.444	298.4	15.29	12.91
111	2007	150	200	57.17	83.9	1.48	311.9	15.3	12.91
111	2007	150	215	57.17	84	1.529	301	11.98	12.9
111	2007	150	230	57.37	82.9	1.431	320.8	19.64	12.9
111	2007	150	245	57.53	82.7	1.494	311.5	19.94	12.9
111	2007	150	300	57	83.4	1.188	287.8	15.41	12.9
111	2007	150	315	56.2	84.9	1.191	289.9	10.58	12.9
111	2007	150	330	55.89	85.8	0.741	313	22.3	12.89

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	150	345	55.71	86.2	0.796	297.4	14.96	12.89
111	2007	150	400	56.09	84.6	1.952	323.4	18.12	12.88
111	2007	150	415	56.74	83.3	1.875	317	18.11	12.88
111	2007	150	430	56.56	83.3	1.469	325.9	25.6	12.88
111	2007	150	445	56.41	83.5	1.42	345.5	31.42	12.88
111	2007	150	500	55.82	84.5	1.527	283.8	15.79	12.88
111	2007	150	515	55.45	85.2	1.616	332.5	22.66	12.88
111	2007	150	530	55.58	85.2	1.17	342.4	30.22	12.88
111	2007	150	545	55.29	85.4	0.221	312.2	25.71	12.88
111	2007	150	600	55.39	86.1	na	na	na	12.87
111	2007	150	615	56.58	84.3	0.531	336.7	40.81	12.87
111	2007	150	630	57.52	83.4	0.791	292.4	34.85	12.87
111	2007	150	645	58.87	80	1.495	28.13	22.93	12.87
111	2007	150	700	60.45	75.5	2.058	44.84	25.29	12.9
111	2007	150	715	61.74	71.9	2.272	60.95	26.63	12.94
111	2007	150	730	62.67	68.6	2.878	51.91	15.55	13
111	2007	150	745	63.89	64.34	2.802	57.75	27.29	13.06
111	2007	150	800	66.1	60.32	1.946	54.94	32.57	13.14
111	2007	150	815	67.12	57.7	3.457	78.8	23.95	13.2
111	2007	150	830	68.46	54.46	3.038	60.12	27.37	13.29
111	2007	150	845	69.8	51.24	3.056	79.7	38.5	13.4
111	2007	150	900	71	47.43	3.124	87.2	44.63	13.43
111	2007	150	915	71.8	41.64	2.941	84	42.17	13.42
111	2007	150	930	72.9	39.59	2.828	74.3	69.84	13.41
111	2007	150	945	74.2	39.39	2.284	299.7	65.37	13.4
111	2007	150	1000	74.3	46.71	3.314	257	62.35	13.38
111	2007	150	1015	73.1	50.92	5.993	201.2	24.68	13.39
111	2007	150	1030	72.4	45.6	5.238	234.7	23.83	13.39
111	2007	150	1045	72.8	48.65	5.532	221.7	26.85	13.39
111	2007	150	1100	72.6	49.48	6.336	205.6	20.65	13.38
111	2007	150	1115	73.3	49.25	5.473	226	29.71	13.38
111	2007	150	1130	72.9	47.14	6.146	220.8	24.74	13.38
111	2007	150	1145	73.4	49.48	6.021	236	28.33	13.37
111	2007	150	1200	72.8	49.38	6.342	220.2	18.85	13.37
111	2007	150	1215	73.3	40.29	6.372	237.9	31.9	13.37
111	2007	150	1230	73.3	41.52	6.231	228.1	26.45	13.37
111	2007	150	1245	73.7	46.04	6.662	230.4	23.86	13.37
111	2007	150	1300	73.1	40.52	7.12	225.6	20.26	13.37
111	2007	150	1315	73.5	41.42	6.996	229.9	22.48	13.37
111	2007	150	1330	74	41.93	6.642	239.6	29.75	13.37
111	2007	150	1345	73.4	42.9	7.72	225	21.62	13.37
111	2007	150	1400	73.2	45.7	6.992	243.2	24.75	13.37
111	2007	150	1415	73.8	49.75	6.06	235.4	26.04	13.36
111	2007	150	1430	74.5	46.34	7.14	268.8	26.57	13.35
111	2007	150	1445	74	47.98	7.24	267.9	25.38	13.35
111	2007	150	1500	74.2	50.28	7.02	264.5	25.92	13.35
111	2007	150	1515	73.6	47.17	6.531	260.4	23.51	13.35
111	2007	150	1530	74.6	50.08	6.225	264	29.14	13.35
111	2007	150	1545	74.7	43.99	6.197	258.4	30.52	13.34
111	2007	150	1600	73.9	47.94	6.708	249	27.53	13.34
111	2007	150	1615	73.7	51.21	6.259	248.2	23.32	13.35
111	2007	150	1630	73.7	52.38	5.906	244.1	22.27	13.34
111	2007	150	1645	72.9	57.53	7.19	255.1	27.78	13.34
111	2007	150	1700	72.7	56.86	6.569	271.7	24.13	13.35
111	2007	150	1715	72.6	60.45	6.092	254.9	27.17	13.36
111	2007	150	1730	71.8	61.02	6.237	259.9	27.3	13.36
111	2007	150	1745	71.7	59.61	6.914	269.9	25.76	13.37
111	2007	150	1800	71	60.82	6.593	264	27.51	13.37
111	2007	150	1815	71.3	60.48	6.41	273	25.02	13.38
111	2007	150	1830	71.2	58.98	6.225	277.9	29.82	13.38

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	150	1845	71	59.71	6.753	277.8	23.55	13.39
111	2007	150	1900	70.6	61.28	6.501	277.6	20.78	13.4
111	2007	150	1915	70.1	61.29	5.61	279.1	23.51	13.41
111	2007	150	1930	69.9	62.6	5.663	277.1	22.69	13.41
111	2007	150	1945	69.35	64.3	5.691	278.6	21.43	13.42
111	2007	150	2000	68.8	65.31	4.734	281.7	21.32	13.14
111	2007	150	2015	68.11	66.45	4.599	279.1	24.7	13.1
111	2007	150	2030	67.63	66.09	5.493	286.3	19.92	13.07
111	2007	150	2045	67.25	66.59	4.915	280.6	21.08	13.05
111	2007	150	2100	66.89	66.02	4.873	282.4	19.91	13.03
111	2007	150	2115	66.66	65.36	4.619	279.2	22	13.02
111	2007	150	2130	66.5	65.03	4.903	284.7	17.97	13.01
111	2007	150	2145	66.4	65.06	4.329	282	20.3	13
111	2007	150	2200	66.3	64.36	4.881	290.4	17.08	12.99
111	2007	150	2215	66.3	63.52	4.448	289.5	18.49	12.98
111	2007	150	2230	66.21	63.05	3.876	290.5	23.86	12.98
111	2007	150	2245	66.18	63.12	4.311	287.3	18.84	12.97
111	2007	150	2300	65.92	65.66	4.601	283	23.19	12.97
111	2007	150	2315	65.62	68.11	5	290.3	16.29	12.96
111	2007	150	2330	65.1	70.7	4.254	285.4	17.43	12.95
111	2007	150	2345	64.71	72.8	3.672	286.7	19.15	12.95
111	2007	150	2400	64.42	74.1	3.749	290.2	15.48	12.95
111	2007	151	15	64.23	74.9	3.501	287.2	19.69	12.94
111	2007	151	30	63.84	76.9	2.977	285.4	21.8	12.94
111	2007	151	45	63.63	78.3	2.794	279.8	23.9	12.93
111	2007	151	100	63.41	79.4	2.88	294.9	20.5	12.93
111	2007	151	115	63.45	79.8	3.013	301.3	20.61	12.93
111	2007	151	130	63.5	80	3.181	288.4	22.61	12.92
111	2007	151	145	63.57	80	3.092	291.3	21.31	12.92
111	2007	151	200	63.23	81.4	2.558	280.3	23.5	12.92
111	2007	151	215	62.94	82.2	2.526	296.2	18.88	12.92
111	2007	151	230	62.75	82.6	2.138	291.1	19.58	12.91
111	2007	151	245	62.5	82.7	2.207	289.7	21.2	12.91
111	2007	151	300	62.57	81.8	2.179	293.5	15.55	12.9
111	2007	151	315	62.46	81.6	0.718	300.9	15.97	12.9
111	2007	151	330	62.06	82.1	1.604	299.1	16.61	12.9
111	2007	151	345	61.71	83.1	1.938	286.4	15.28	12.9
111	2007	151	400	61.49	83.5	1.659	308	19.91	12.9
111	2007	151	415	61.63	83.4	1.946	301.3	17.83	12.89
111	2007	151	430	61.57	83.5	2.036	307.7	14.87	12.89
111	2007	151	445	61.31	84.1	1.756	293.6	15.86	12.89
111	2007	151	500	60.91	84.9	1.52	283.2	14.6	12.89
111	2007	151	515	60.54	85.9	1.486	315.7	46.9	12.88
111	2007	151	530	60.93	85.3	0.789	308.3	63.01	12.88
111	2007	151	545	60.79	85.7	1.078	276.9	13.48	12.88
111	2007	151	600	60.87	85.9	1.102	317.5	23.21	12.88
111	2007	151	615	62.16	83.3	0.861	350.8	60.11	12.88
111	2007	151	630	64.14	78.8	0.359	109.7	16.17	12.88
111	2007	151	645	65.45	76.8	1.204	90	20.97	12.88
111	2007	151	700	66.23	74.2	1.359	120.6	38.96	12.88
111	2007	151	715	67.43	71.9	1.794	306.2	33.06	12.9
111	2007	151	730	68.89	68.74	2.053	293.1	25.01	12.94
111	2007	151	745	70.1	66.26	2.433	297.5	29.29	13
111	2007	151	800	71.5	64.48	2.58	287.7	33.48	13.05
111	2007	151	815	72.5	59.53	1.963	319.9	50.04	13.12
111	2007	151	830	73.5	58.69	2.802	304.9	32.62	13.2
111	2007	151	845	75	55.91	3.104	292.7	32.94	13.3
111	2007	151	900	76.5	52.76	1.749	14.78	83.4	13.37
111	2007	151	915	77.9	50.12	2.506	26.62	60.59	13.35
111	2007	151	930	79.2	46.24	2.264	83.1	90.3	13.35

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	151	945	79.7	45.87	3.175	111	54.21	13.33
111	2007	151	1000	81	40.75	2.986	119.6	81.9	13.32
111	2007	151	1015	81.1	52.84	3.146	173.3	83.4	13.31
111	2007	151	1030	79.7	56.75	4.853	216	16.95	13.31
111	2007	151	1045	79	55.75	4.949	217	21.73	13.31
111	2007	151	1100	79.8	51.84	4.023	246.9	24.51	13.31
111	2007	151	1115	82.4	45.69	3.622	243	40.63	13.3
111	2007	151	1130	81.6	51.27	5.383	209.4	21.86	13.3
111	2007	151	1145	81.1	51.07	4.98	222.9	21.85	13.3
111	2007	151	1200	80.2	55.82	5.86	200.3	27.43	13.3
111	2007	151	1215	78.3	54.91	7.69	185.3	22.22	13.3
111	2007	151	1230	75.4	62.33	9.94	175.6	19.42	13.3
111	2007	151	1245	73.5	64.3	10.59	183.5	17.5	13.31
111	2007	151	1300	72.5	64.68	9.96	183.1	17.83	13.32
111	2007	151	1315	72	63.38	9.51	179	22.34	13.33
111	2007	151	1330	71.1	58.84	9.57	176.9	20.69	13.34
111	2007	151	1345	69.35	61.85	10.52	178.5	18.72	13.35
111	2007	151	1400	68.8	62.62	10.29	180.9	17.64	13.36
111	2007	151	1415	69.51	57.94	9.48	183.8	21.22	13.37
111	2007	151	1430	69.42	58.74	9.27	178.9	21.89	13.37
111	2007	151	1445	69.45	59.95	9.62	180.4	18.28	13.37
111	2007	151	1500	68.95	62.12	9.43	180.3	17.54	13.38
111	2007	151	1515	68.67	63.93	9.6	179.8	17.97	13.38
111	2007	151	1530	67.74	62.96	9.84	175.7	21.54	13.39
111	2007	151	1545	67.86	67.51	9.36	181.6	18.1	13.39
111	2007	151	1600	67.79	68.61	9.11	181.3	18.23	13.4
111	2007	151	1615	67.17	67.11	9.5	160.1	19.52	13.4
111	2007	151	1630	67.52	64.54	9.24	177.7	21.4	13.4
111	2007	151	1645	67.47	63.33	8.97	164.9	21.49	13.41
111	2007	151	1700	67.39	67.61	10.07	161.9	19.59	13.41
111	2007	151	1715	67.13	69.95	8.89	180.2	20.04	13.41
111	2007	151	1730	66.87	71.7	8.78	178.8	19.69	13.42
111	2007	151	1745	66.12	71.3	8.72	165.6	19.45	13.43
111	2007	151	1800	66.12	72.9	8.91	175.6	21.53	13.43
111	2007	151	1815	65.65	73.1	7.88	177.9	21.66	13.43
111	2007	151	1830	65.57	72.4	7.13	153	17.49	13.44
111	2007	151	1845	64.9	74.4	7.99	172.9	20.76	13.45
111	2007	151	1900	64.36	75.9	7.94	159.7	18.33	13.45
111	2007	151	1915	63.8	77.5	8.56	151.2	19.54	13.46
111	2007	151	1930	63.39	79	7.46	153.6	21.1	13.47
111	2007	151	1945	63.24	80	6.444	151.3	22.19	13.19
111	2007	151	2000	62.77	81.6	6.847	157.3	19.38	13.11
111	2007	151	2015	62.43	82.8	6.755	140.8	17.41	13.09
111	2007	151	2030	62.45	80.3	6.477	104.1	29.05	13.06
111	2007	151	2045	62.5	75.9	6.98	97.3	19.58	13.05
111	2007	151	2100	62.34	71.7	7.98	107.7	21.43	13.03
111	2007	151	2115	62.07	70.2	7.41	117.9	19.76	13.02
111	2007	151	2130	62.06	70.3	7.68	129	18.5	13
111	2007	151	2145	61.88	70.3	6.962	144.7	22.33	13
111	2007	151	2200	61.57	71.2	8.03	143.9	17.25	12.98
111	2007	151	2215	61.61	71.5	7.24	125.1	29.3	12.98
111	2007	151	2230	61.61	71.5	5.82	128.8	25.61	12.97
111	2007	151	2245	61.75	72.6	6.313	154.6	19.16	12.96
111	2007	151	2300	62.15	71.1	6.976	173.5	22.42	12.96
111	2007	151	2315	62.56	73.2	8.13	178.9	21.53	12.95
111	2007	151	2330	62.4	76.3	8.44	182.2	20.24	12.94
111	2007	151	2345	61.95	76.7	6.501	142.3	37.14	12.94
111	2007	151	2400	61.79	75.8	4.23	148	36.28	12.94
111	2007	152	15	61.62	77.2	4.853	169.6	24.05	12.94
111	2007	152	30	61.39	80.1	5.971	172.9	23.29	12.93

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	152	45	61.79	80.7	5.594	175.4	18.84	12.93
111	2007	152	100	61.96	81.9	4.661	197.1	24.38	12.92
111	2007	152	115	61.72	82.6	4.385	199.5	21.52	12.92
111	2007	152	130	61.43	83.6	4.206	203.1	16.02	12.92
111	2007	152	145	61.42	84.5	3.545	201.4	18.82	12.92
111	2007	152	200	61.52	85.1	1.563	245.4	37.22	12.91
111	2007	152	215	61.66	85.3	2.11	69.71	21.74	12.91
111	2007	152	230	61.81	85	1.066	42.73	23.87	12.9
111	2007	152	245	61.38	84.8	2.691	84.9	18.77	12.9
111	2007	152	300	60.87	84.7	3.116	72.9	16.42	12.9
111	2007	152	315	60.67	84.9	2.556	55.1	17.61	12.9
111	2007	152	330	60.49	85.1	0.284	35.45	12.28	12.9
111	2007	152	345	60.41	85.4	1.269	58.4	6.342	12.89
111	2007	152	400	60.47	84.8	2.997	50.08	17.88	12.89
111	2007	152	415	60.43	84.5	3.08	55.41	21.33	12.88
111	2007	152	430	60.28	84.6	2.528	69.12	19.86	12.88
111	2007	152	445	60.06	84.9	3.7	56.95	19.08	12.88
111	2007	152	500	59.91	85.4	3.769	57.64	19.85	12.88
111	2007	152	515	59.79	85.6	2.904	47.09	30.58	12.88
111	2007	152	530	59.91	85.5	2.677	77.3	20.27	12.88
111	2007	152	545	60.07	85.2	1.442	37.27	35.12	12.88
111	2007	152	600	60.26	84.6	2.336	88	18.42	12.87
111	2007	152	615	60.64	83.8	2.542	85.1	17.47	12.87
111	2007	152	630	61.12	83	2.118	109.3	22.49	12.87
111	2007	152	645	61.61	82.3	1.771	45.01	60.63	12.87
111	2007	152	700	62.49	80.5	2.333	291.6	25.36	12.89
111	2007	152	715	63.22	79.3	3.269	284.1	26.74	12.96
111	2007	152	730	63.85	79	4.325	278.6	21.73	13.24
111	2007	152	745	65.1	78.2	5.207	285.3	21.29	13.5
111	2007	152	800	65.62	80	7.78	284.6	20.78	13.49
111	2007	152	815	65.63	79.9	6.694	275.3	24.96	13.48
111	2007	152	830	66.7	77.5	6.007	270.6	28.66	13.47
111	2007	152	845	67.22	78.4	6.368	279	21.19	13.47
111	2007	152	900	67.42	76.9	5.902	281.9	22.06	13.47
111	2007	152	915	69.31	74.2	5.522	273.8	26.31	13.45
111	2007	152	930	70.3	71	5.965	276.5	23.16	13.43
111	2007	152	945	70.9	69.99	6.724	272.9	26.06	13.42
111	2007	152	1000	71.6	68.48	6.319	281.2	24.88	13.41
111	2007	152	1015	72.6	69.59	6.612	273.3	23.86	13.41
111	2007	152	1030	73.1	67.04	5.552	257.1	29.01	13.4
111	2007	152	1045	74.2	65.7	6.297	273.2	30.69	13.39
111	2007	152	1100	74.4	64.03	7.48	285.8	24.27	13.38
111	2007	152	1115	74	65.93	7.34	278.1	19.92	13.38
111	2007	152	1130	74.2	66.7	5.749	269.4	31.51	13.34
111	2007	152	1145	74.6	66.89	5.989	253.6	25.84	13.34
111	2007	152	1200	74.7	64.68	6.299	233.5	25.51	13.34
111	2007	152	1215	75.6	62.21	6.799	261.5	26.09	13.34
111	2007	152	1230	76.5	62.91	7.87	278.6	25.17	13.34
111	2007	152	1245	76.5	61.88	7.51	273.6	25.24	13.33
111	2007	152	1300	77	62.44	7.03	264.4	27.95	13.32
111	2007	152	1315	77.5	62.07	7.06	276	26.16	13.32
111	2007	152	1330	76.9	64.92	7.59	272.4	22.44	13.32
111	2007	152	1345	75.8	65.52	8.06	274.2	23.99	13.32
111	2007	152	1400	75.8	65.28	7.61	274.8	24.19	13.32
111	2007	152	1415	76.1	65.15	8.01	274.3	23.49	13.32
111	2007	152	1430	76.1	62.64	7.32	277.3	23.78	13.32
111	2007	152	1445	76.3	65.79	7.22	264.5	26.94	13.32
111	2007	152	1500	75.9	66.08	7.22	263	27.22	13.32
111	2007	152	1515	75.9	66.02	7.01	265.6	26.38	13.32
111	2007	152	1530	75	66.12	8.61	275.1	22.67	13.32

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	152	1545	75.5	67.09	8.48	283	19.95	13.32
111	2007	152	1600	75.7	66.92	7.94	273.8	24.62	13.32
111	2007	152	1615	74.9	68.66	7.52	263.9	25.72	13.32
111	2007	152	1630	74.7	68.26	6.575	260.6	28.97	13.32
111	2007	152	1645	74.5	68.23	6.521	255	23.46	13.32
111	2007	152	1700	73.3	69.26	7.55	263.3	26.52	13.32
111	2007	152	1715	73.3	72.4	7.62	274	23.63	13.33
111	2007	152	1730	72.1	73	5.649	258.3	25.88	13.34
111	2007	152	1745	71.4	74.4	7.04	278.2	23.1	13.36
111	2007	152	1800	71.3	73.8	5.516	277	24.32	13.37
111	2007	152	1815	70.7	75.5	6.863	291.5	18.69	13.37
111	2007	152	1830	70.4	75.3	6.037	271.9	26.18	13.26
111	2007	152	1845	70.1	76.2	7.24	278.3	20.99	13.18
111	2007	152	1900	70	76.4	6.938	283.5	21.74	13.15
111	2007	152	1915	69.86	76.3	6.751	284.8	21.81	13.17
111	2007	152	1930	69.48	76.6	7.08	292.6	22.1	13.11
111	2007	152	1945	69.51	75.9	6.992	291.7	18.88	13.05
111	2007	152	2000	69.61	75.4	4.855	288	24.63	12.99
111	2007	152	2015	69.6	75.6	4.816	292.9	18.11	12.95
111	2007	152	2030	69.6	75.7	3.336	323.8	86	12.93
111	2007	152	2045	69.83	75.3	2.003	229.8	30.9	12.9
111	2007	152	2100	69.72	76.6	3.426	239	31.58	12.89
111	2007	152	2115	69.49	76.9	2.697	227.6	30.48	12.87
111	2007	152	2130	69.57	77.4	1.624	244.1	47.33	12.87
111	2007	152	2145	69.3	79.1	2.483	246.7	16.31	12.85
111	2007	152	2200	69	80	2.209	266.5	29.03	12.85
111	2007	152	2215	68.76	81	3.328	251.7	24.05	12.84
111	2007	152	2230	68.35	81.3	4.059	267.4	23.35	12.83
111	2007	152	2245	68.35	81.4	4.575	284.3	19.26	12.83
111	2007	152	2300	68.55	81	5.489	290.1	15.85	12.82
111	2007	152	2315	68.86	80.7	5.405	293.8	13.65	12.82
111	2007	152	2330	69.06	80.2	4.293	295.3	18.48	12.81
111	2007	152	2345	68.98	80.3	3.418	309	21.62	12.81
111	2007	152	2400	68.98	80.1	2.665	319.3	29.24	12.81
111	2007	153	15	68.71	81	2.282	320.3	16.64	12.81
111	2007	153	30	68.59	81.2	1.692	315.7	25.57	12.81
111	2007	153	45	68.74	81.1	0.802	5.668	24.48	12.81
111	2007	153	100	68.58	81.3	1.103	84.9	13.31	12.8
111	2007	153	115	68.06	82.4	0.262	236.4	6.006	12.8
111	2007	153	130	67.62	83.6	1.242	277.5	26.42	12.8
111	2007	153	145	67.16	85.3	1.392	291.4	57.06	12.79
111	2007	153	200	67.27	85.1	0.897	274.5	31.11	12.79
111	2007	153	215	67.04	86.7	2.073	259.6	24.29	12.79
111	2007	153	230	66.94	86.9	3.517	262.3	24.03	12.79
111	2007	153	245	66.4	87.1	2.679	266.6	22.53	12.79
111	2007	153	300	66.16	87.5	2.594	268.2	21.94	12.79
111	2007	153	315	66.08	87.9	2.842	284.4	23.45	12.79
111	2007	153	330	66.11	87.7	2.034	308.4	23.67	12.79
111	2007	153	345	65.73	88.2	2.262	278.9	18.51	12.78
111	2007	153	400	65.43	88.8	2.834	286	21.27	12.78
111	2007	153	415	65.67	88.1	2.86	289.4	18.86	12.78
111	2007	153	430	65.98	87.2	2.838	310.4	24.45	12.78
111	2007	153	445	66.04	86.5	1.567	340.4	20.59	12.77
111	2007	153	500	65.67	86.5	0.628	310.9	30.42	12.77
111	2007	153	515	65.2	87	0.253	240.1	2.049	12.77
111	2007	153	530	64.77	87.9	0.465	229.7	5.312	12.77
111	2007	153	545	64.66	88.3	1.12	279.3	43.82	12.77
111	2007	153	600	65	88.4	1.639	280.6	19.48	12.77
111	2007	153	615	66.14	86.4	2.969	279.1	21.53	12.76
111	2007	153	630	67.16	84.3	3.08	292.5	19.19	12.76

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	153	645	67.55	83.6	2.745	295.5	22.03	12.76
111	2007	153	700	67.98	82.2	3.448	280.6	20.71	12.77
111	2007	153	715	68.88	80.9	4.385	279.5	21.74	12.83
111	2007	153	730	69.53	79.8	5.199	280.1	24.32	12.91
111	2007	153	745	69.43	80.4	6.166	267.4	24.19	13.03
111	2007	153	800	69	81.4	6.883	282.1	23.63	13.24
111	2007	153	815	68.99	80.9	5.868	278.1	22.65	13.42
111	2007	153	830	69.96	78.3	4.508	288.3	22.1	13.41
111	2007	153	845	70.4	78.4	4.629	273.7	20.01	13.41
111	2007	153	900	70.4	78.4	4.353	283.9	19.35	13.41
111	2007	153	915	71.4	75.3	4.301	290.2	25.03	13.4
111	2007	153	930	72.5	72.2	4.077	284.5	21.03	13.39
111	2007	153	945	74	69.98	3.316	284.3	27.2	13.38
111	2007	153	1000	74.2	74.9	5.117	267.3	22.46	13.37
111	2007	153	1015	74.2	69.01	4.109	271.3	32.03	13.35
111	2007	153	1030	76.5	66	3.432	260.6	38.19	13.34
111	2007	153	1045	77.7	63.62	4.077	250.8	27.83	13.33
111	2007	153	1100	78	64.89	4.48	252.1	32.94	13.32
111	2007	153	1115	78.3	64.85	5.246	237.7	28.71	13.31
111	2007	153	1130	77.9	63.81	6.033	267.9	25.24	13.31
111	2007	153	1145	77.8	66.01	6.491	263	27.23	13.3
111	2007	153	1200	75.6	67.48	6.583	260.1	26.54	13.31
111	2007	153	1215	75.5	68.05	7.11	271.6	27.27	13.31
111	2007	153	1230	75.6	68.76	6.603	267.1	32.7	13.31
111	2007	153	1245	75	69.09	7.06	241.3	23.59	13.31
111	2007	153	1300	75.8	66.92	7.01	267.2	31.85	13.31
111	2007	153	1315	76.6	65.95	6.408	263.8	31.4	13.31
111	2007	153	1330	75.6	67.09	7.47	274	28.79	13.31
111	2007	153	1345	75.5	67.32	7.46	270.2	28.56	13.31
111	2007	153	1400	74.8	69.13	7.88	255.1	25.69	13.31
111	2007	153	1415	75.1	67.99	7.97	283.1	21.51	13.31
111	2007	153	1430	75.7	69.23	7.06	260.5	30.61	13.31
111	2007	153	1445	74.3	70.6	7.38	243.8	24.93	13.31
111	2007	153	1500	74.5	68.59	6.759	240.6	24.09	13.31
111	2007	153	1515	74.5	69.83	6.742	249.4	26.54	13.32
111	2007	153	1530	75.2	65.92	6.428	258.5	28.58	13.31
111	2007	153	1545	75.3	67.99	8.5	273.5	28.53	13.31
111	2007	153	1600	74.9	69.86	7.63	271.1	28.36	13.31
111	2007	153	1615	73.4	72	8.43	271.2	28.68	13.32
111	2007	153	1630	72.8	71.7	6.998	260.9	25.46	13.32
111	2007	153	1645	72.7	72.3	6.958	264.4	31.71	13.33
111	2007	153	1700	72.1	70.8	7.65	258.4	25.79	13.34
111	2007	153	1715	72.8	68.57	7.83	262.5	31.32	13.35
111	2007	153	1730	73.5	66.33	6.513	263	28.96	13.35
111	2007	153	1745	73	67.17	8.83	266.4	24.05	13.35
111	2007	153	1800	72.7	68.61	8.46	268.5	25.58	13.35
111	2007	153	1815	72	71.5	7.99	257.7	25.9	13.35
111	2007	153	1830	71.8	70.7	7.93	270.5	25.35	13.36
111	2007	153	1845	71.4	71.8	8.13	265.9	27.18	13.36
111	2007	153	1900	70.9	71.8	7.76	269.5	30.29	13.37
111	2007	153	1915	70.1	74	7.82	265.4	25.44	13.38
111	2007	153	1930	69.38	74.8	7.21	271.1	24.32	13.17
111	2007	153	1945	68.92	75.4	6.495	261.7	30.08	13.07
111	2007	153	2000	68.52	75.5	7.09	261	25.22	13.01
111	2007	153	2015	68.22	76.6	7.24	262.3	22.88	12.97
111	2007	153	2030	67.96	77.1	6.966	266.9	29.89	12.94
111	2007	153	2045	67.87	77.3	7.88	269.6	26	12.93
111	2007	153	2100	67.74	75.7	8.05	268.2	26.67	12.91
111	2007	153	2115	67.88	75.2	7.56	272.3	25.01	12.89
111	2007	153	2130	67.78	76.6	7.67	270.1	24.61	12.89

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	153	2145	67.5	78.3	7.51	272.9	26.71	12.87
111	2007	153	2200	67.19	79.6	7.62	267.8	25.73	12.87
111	2007	153	2215	67.02	79.8	6.92	266.4	29.08	12.87
111	2007	153	2230	66.95	80.1	6.823	275.9	25.74	12.86
111	2007	153	2245	66.84	80.6	6.384	282.8	28.84	12.86
111	2007	153	2300	66.66	80.8	6.565	279.1	25.72	12.85
111	2007	153	2315	66.62	80.8	7.59	282	21.5	12.85
111	2007	153	2330	66.56	80.9	7.18	279.7	23.5	12.85
111	2007	153	2345	66.41	80.7	7.39	272.6	25.85	12.85
111	2007	153	2400	66.32	80.9	7.87	275	27.61	12.84
111	2007	154	15	66.12	80.2	7.51	274.4	26.49	12.83
111	2007	154	30	66.02	79.5	8.14	281.1	21.5	12.83
111	2007	154	45	65.87	79.5	7.77	276.3	25.02	12.83
111	2007	154	100	65.73	79.8	7.43	275.7	24.4	12.83
111	2007	154	115	65.68	80.3	8.19	277.4	24.74	12.82
111	2007	154	130	65.53	81.1	8.07	280.5	22.06	12.81
111	2007	154	145	65.36	81.8	7.68	276.2	24.62	12.81
111	2007	154	200	65.14	82.6	7.68	269.4	25.98	12.81
111	2007	154	215	65.04	83.4	7.69	272.2	26.39	12.8
111	2007	154	230	64.97	83.8	6.454	272.8	27.04	12.79
111	2007	154	245	64.97	84	8.29	281.6	19.89	12.79
111	2007	154	300	64.93	84.5	7.32	271.4	20.95	12.79
111	2007	154	315	64.78	85	6.581	274.1	21.93	12.78
111	2007	154	330	64.68	85.5	5.685	276.9	24.05	12.78
111	2007	154	345	64.67	85.7	5.876	266.3	22.2	12.77
111	2007	154	400	64.57	86.1	5.925	269.6	25.19	12.77
111	2007	154	415	64.51	86.3	6.833	262.8	25.25	12.76
111	2007	154	430	64.53	86.3	6.509	267.4	25.99	12.76
111	2007	154	445	64.51	86.5	5.963	271.3	23.19	12.76
111	2007	154	500	64.42	86.7	6.198	273.2	24.56	12.76
111	2007	154	515	64.37	86.9	4.635	268.7	32.37	12.76
111	2007	154	530	64.36	87.1	5.101	268.2	25.46	12.75
111	2007	154	545	64.42	87.1	4.305	268.7	27.88	12.75
111	2007	154	600	64.41	87.2	3.61	260	29.99	12.75
111	2007	154	615	64.47	87.1	4.859	267.9	28.01	12.75
111	2007	154	630	64.62	87	4.603	264.1	28.75	12.74
111	2007	154	645	64.79	86.8	4.268	266.4	26.86	12.75
111	2007	154	700	65.02	86.4	4.859	271.7	28.62	12.8
111	2007	154	715	65.29	86.1	5.276	259.9	26.34	12.85
111	2007	154	730	65.7	85.1	5.737	259.8	26.55	12.97
111	2007	154	745	66.38	84	6.624	265.3	25.58	13.27
111	2007	154	800	67.03	82.5	6.14	267.3	28.21	13.45
111	2007	154	815	67.15	81.3	5.447	264.8	27.73	13.45
111	2007	154	830	67.53	80.9	6.706	273.2	25.03	13.43
111	2007	154	845	68.22	80.4	6.74	274.1	27.63	13.43
111	2007	154	900	68.66	80.1	7.03	266.2	24.91	13.41
111	2007	154	915	69.02	78	6.992	267.8	24.6	13.41
111	2007	154	930	70	77.4	7.19	264.5	28.53	13.39
111	2007	154	945	69.71	78.4	6.311	254.5	28.91	13.39
111	2007	154	1000	69.85	77.1	6.35	258.8	29.65	13.39
111	2007	154	1015	69.36	78.5	6.67	254.4	26.49	13.39
111	2007	154	1030	69.12	78.8	7.29	249.7	27.98	13.39
111	2007	154	1045	69.04	78.6	7.02	251.4	25.31	13.39
111	2007	154	1100	69.5	77	5.32	252.8	27.05	13.39
111	2007	154	1115	70.6	76.1	5.842	242.4	25.5	13.38
111	2007	154	1130	71.5	74.1	5.695	233.9	27.06	13.37
111	2007	154	1145	71.5	73.4	6.164	235.4	24.6	13.36
111	2007	154	1200	71.7	72.1	7.02	251.7	29.7	13.36
111	2007	154	1215	71.5	71.9	7.06	234.3	28.67	13.35
111	2007	154	1230	71.6	73.4	6.628	229.9	25.41	13.36

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	154	1245	71.8	74.3	6.205	240.9	23.77	13.35
111	2007	154	1300	71	77.9	7.13	232.8	25.73	13.35
111	2007	154	1315	68.98	81	7.25	221.5	21	13.36
111	2007	154	1330	68.54	81.1	6.396	223.6	26.13	13.37
111	2007	154	1345	68.56	80.7	6.237	221.2	25.72	13.38
111	2007	154	1400	69.26	79.7	5.171	228.4	27.17	13.38
111	2007	154	1415	69.47	78	4.486	221.9	21.21	13.39
111	2007	154	1430	69.6	79.4	5.628	217.4	26.38	13.39
111	2007	154	1445	69.31	80.7	6.055	215.9	24.48	13.39
111	2007	154	1500	68.73	81.2	6.674	205	22.27	13.39
111	2007	154	1515	68.77	80.4	5.781	199.6	21.63	13.4
111	2007	154	1530	68.64	81.5	6.632	193.6	23.58	13.41
111	2007	154	1545	68.31	81.3	6.11	191	20.65	13.41
111	2007	154	1600	68.1	82.9	5.777	201.1	24.64	13.41
111	2007	154	1615	67.93	83.4	6.475	194.2	19.63	13.42
111	2007	154	1630	67.75	86.1	5.09	191.1	26.24	13.43
111	2007	154	1645	67.08	88	6.1	184.9	18.74	13.43
111	2007	154	1700	66.61	89.1	6.64	178.3	17.8	13.27
111	2007	154	1715	66.48	90	6.35	177.9	18.04	13.1
111	2007	154	1730	66.45	90.6	6.634	184	19.09	13.05
111	2007	154	1745	66.41	90.5	6.059	179.1	21.4	13.01
111	2007	154	1800	66.24	90.6	5.912	178.4	15.78	12.97
111	2007	154	1815	66.41	89.6	7.81	180.1	17.68	12.95
111	2007	154	1830	66.49	89.7	8.2	182.2	20.86	12.93
111	2007	154	1845	66.63	89.7	8.44	178.7	19.75	12.91
111	2007	154	1900	66	87.8	9.46	178.7	15.91	12.9
111	2007	154	1915	65.47	87	9.59	177.5	18	12.89
111	2007	154	1930	65.42	88.2	8	173.7	21.84	12.89
111	2007	154	1945	65.3	88	8.49	163.3	19.82	12.88
111	2007	154	2000	65.14	88.9	7.85	157.8	20.17	12.87
111	2007	154	2015	65.07	88.6	9.02	158.7	17.11	12.87
111	2007	154	2030	64.5	88	7.62	149.5	20.67	12.86
111	2007	154	2045	64.06	89.4	8.56	147.9	17.96	12.86
111	2007	154	2100	63.7	90.3	8.44	147.5	20.16	12.86
111	2007	154	2115	63.46	90.7	9.07	146.7	19.35	12.85
111	2007	154	2130	63.14	90.8	9.7	145.8	25.66	12.85
111	2007	154	2145	62.71	91.5	10.89	142.2	21.98	12.84
111	2007	154	2200	62.61	92	11.75	144.8	18.21	12.84
111	2007	154	2215	62.64	91.8	13.74	149.4	16.14	12.83
111	2007	154	2230	62.66	92	13.49	151	16.68	12.82
111	2007	154	2245	62.59	92.3	11.73	143.4	20.46	12.82
111	2007	154	2300	62.55	92.2	13.61	141.9	18.12	12.82
111	2007	154	2315	62.65	92.3	14.57	142.5	19.89	12.81
111	2007	154	2330	62.47	92.5	13.41	147.5	19.17	12.8
111	2007	154	2345	62.42	92.6	13.4	144.6	18.64	12.8
111	2007	154	2400	62.36	92.4	13.74	141.4	18.99	12.79
111	2007	155	15	62.23	92.5	13.26	141.1	19.05	12.78
111	2007	155	30	62.07	92.7	12.39	144.9	20.65	12.78
111	2007	155	45	61.9	92.6	14.16	140.1	18.92	12.77
111	2007	155	100	61.89	92.5	13.32	142.6	16.31	12.76
111	2007	155	115	61.83	92.8	13.57	144.4	19.46	12.76
111	2007	155	130	61.98	93	13.41	144.5	14.72	12.75
111	2007	155	145	62.07	93	12.17	148.7	19.97	12.74
111	2007	155	200	62.07	92.8	12.76	141.9	17.69	12.74
111	2007	155	215	62.01	92.9	11.91	142.5	18.33	12.74
111	2007	155	230	61.99	93	12.06	148.9	19.73	12.73
111	2007	155	245	61.97	93.1	10.2	144.4	19.31	12.73
111	2007	155	300	62	93.2	11.46	148.3	19	12.73
111	2007	155	315	62.05	93.4	11.22	142.8	20.63	12.72
111	2007	155	330	62.09	93.5	11.33	146.1	18.99	12.72

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	155	345	62.08	93.6	11.46	143.4	17.43	12.72
111	2007	155	400	62.28	93.5	11.21	145.7	18.69	12.72
111	2007	155	415	62.25	93.7	10.83	142.2	17.78	12.72
111	2007	155	430	62.2	93.7	10.99	142.6	16.83	12.72
111	2007	155	445	62.23	93.7	9.47	143.4	18.21	12.72
111	2007	155	500	62.37	93.4	10.28	141.2	22.14	12.72
111	2007	155	515	62.31	93.5	9.5	148.5	18.01	12.72
111	2007	155	530	62.09	93.9	11.09	141.9	17.73	12.72
111	2007	155	545	61.88	94.1	10.52	146.3	18.85	12.72
111	2007	155	600	61.91	94.3	9.77	137.9	17.42	12.72
111	2007	155	615	62.07	94.4	9.12	138.1	19.75	12.72
111	2007	155	630	62.14	94.5	8.59	133.9	21.88	12.72
111	2007	155	645	62.26	94.7	9.51	129.6	17.53	12.72
111	2007	155	700	62.22	94.6	8.75	134	21.15	12.72
111	2007	155	715	62.28	94.9	8.16	133.2	16.76	12.72
111	2007	155	730	62.59	95	7.75	132	20.98	12.72
111	2007	155	745	62.68	95	8.17	121.8	19.3	12.72
111	2007	155	800	62.86	95	6.618	114	19.05	12.72
111	2007	155	815	63.09	95	6.986	117.6	19.58	12.72
111	2007	155	830	63.41	94.8	7.69	120.7	24.78	12.76
111	2007	155	845	63.61	94.6	7.48	115.3	21.24	12.76
111	2007	155	900	63.66	94.5	5.987	105.6	19.4	12.74
111	2007	155	915	63.47	94.6	5.675	103.4	20.92	12.72
111	2007	155	930	63.56	94.6	5.379	104	21.29	12.72
111	2007	155	945	63.78	94.6	5.362	94.9	19.07	12.72
111	2007	155	1000	63.87	94.6	4.663	99.2	22.17	12.72
111	2007	155	1015	63.59	94.4	4.859	67.47	27.18	12.72
111	2007	155	1030	62.59	94.6	3.801	73.5	32.27	12.74
111	2007	155	1045	62.2	94.8	3.722	54.82	25.38	12.74
111	2007	155	1100	62.04	94.7	3.251	50.11	28.59	12.82
111	2007	155	1115	62.02	94.8	3.484	41.23	25	12.96
111	2007	155	1130	61.77	94.8	5.03	39.27	21.12	12.99
111	2007	155	1145	61.21	94.6	6.424	61.25	24.09	13.46
111	2007	155	1200	61.25	94.8	6.464	61.9	20.3	13.48
111	2007	155	1215	62.07	94.6	7.18	51.19	19.88	13.48
111	2007	155	1230	62.59	93.6	8.25	62.86	23.65	13.46
111	2007	155	1245	62.74	93.2	8.46	52.94	21.7	13.46
111	2007	155	1300	62.99	92.4	8.76	62.69	24.5	13.46
111	2007	155	1315	62.62	91.7	8.13	62.27	19.38	13.46
111	2007	155	1330	62.87	91.5	7.78	63.57	19.71	13.46
111	2007	155	1345	62.77	90.8	8.52	59.99	23.11	13.46
111	2007	155	1400	62.56	91.5	7.47	50.76	21.89	13.47
111	2007	155	1415	62.35	91.7	7.67	52.24	19.77	13.47
111	2007	155	1430	62.71	91.7	5.612	24.21	32.94	13.47
111	2007	155	1445	62.97	91.5	5.638	0.562	27.79	13.42
111	2007	155	1500	62.95	91.4	6.289	352.9	27.03	13.48
111	2007	155	1515	63.07	90.7	6.166	0.744	26.83	13.48
111	2007	155	1530	63.22	90.7	5.725	351.4	26.81	13.48
111	2007	155	1545	64.04	88.8	5.459	353.2	31.12	13.47
111	2007	155	1600	64.7	87.2	6.14	353.2	31	13.46
111	2007	155	1615	65.06	86	5.653	334.9	23.72	13.46
111	2007	155	1630	64.73	85.6	5.908	329.7	32.84	13.45
111	2007	155	1645	64.96	85.1	4.448	338.5	28.5	13.46
111	2007	155	1700	65.15	84.2	4.867	351.9	25.34	13.46
111	2007	155	1715	65.83	81.4	5.687	342.2	28.51	13.45
111	2007	155	1730	66.05	80.5	6.883	328.9	22.51	13.45
111	2007	155	1745	66.43	79.5	4.476	330.9	27.08	13.45
111	2007	155	1800	66.38	79.9	5.451	336.9	25.86	13.37
111	2007	155	1815	66.53	79.2	4.577	344.3	32.01	13.45
111	2007	155	1830	66.66	79.4	4.462	336.9	25.2	13.21

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	155	1845	66.53	80.5	3.946	351.6	21.9	13.12
111	2007	155	1900	66.5	81	3.563	348	26.69	13.09
111	2007	155	1915	66.72	81	3.944	350.1	24.71	13.19
111	2007	155	1930	66.52	81.8	3.086	339.2	31.21	13.09
111	2007	155	1945	66.46	81.9	2.578	342.9	31.98	13.03
111	2007	155	2000	66.42	82.3	2.546	307.3	19.17	13
111	2007	155	2015	66.41	82.9	1.847	285.4	27.62	12.97
111	2007	155	2030	66.09	85	2.314	257.2	26.27	12.96
111	2007	155	2045	65.56	87.2	2.925	277.6	26.87	12.95
111	2007	155	2100	65.19	88.2	2.215	277.2	25.98	12.93
111	2007	155	2115	64.77	88.7	1.472	270.3	22.63	12.93
111	2007	155	2130	64.28	89.4	1.603	268.3	21.96	12.91
111	2007	155	2145	63.87	90.1	2.207	277.3	20.83	12.91
111	2007	155	2200	63.76	90.6	3.142	256.3	20.94	12.9
111	2007	155	2215	63.47	91.1	3.656	264.4	32.58	12.9
111	2007	155	2230	63.38	91.6	2.409	269.7	28.53	12.89
111	2007	155	2245	63.57	91.7	1.891	266.1	25.2	12.89
111	2007	155	2300	63.55	91.8	1.645	288.1	28.35	12.88
111	2007	155	2315	63.45	91.9	1.535	250.3	24.8	12.88
111	2007	155	2330	63.24	92.1	2.659	269	27.86	12.87
111	2007	155	2345	63.26	92.3	1.919	279.2	27.89	12.87
111	2007	155	2400	63.43	92.4	1.643	267.7	24.96	12.86
111	2007	156	15	63.67	92.2	2.264	267.4	27.57	12.86
111	2007	156	30	64.11	91.7	2.785	251.4	23.43	12.86
111	2007	156	45	64.42	91.2	3.102	260.4	28.62	12.85
111	2007	156	100	64.48	90.2	3.992	258.8	26.42	12.85
111	2007	156	115	64.43	88.8	5.755	268.2	24.33	12.84
111	2007	156	130	64.23	88.2	5.278	267.6	22.52	12.84
111	2007	156	145	64.06	88.2	4.399	269.2	26.01	12.83
111	2007	156	200	64.13	88	4.47	267	26.79	12.83
111	2007	156	215	64.42	87.2	4.871	267.6	25.5	12.82
111	2007	156	230	64.1	87.8	4.033	277.9	25.9	12.82
111	2007	156	245	63.85	88.6	3.823	281.4	23.84	12.8
111	2007	156	300	63.7	89	3.05	282.6	22.95	12.8
111	2007	156	315	63.52	89.4	2.193	289.4	31.33	12.79
111	2007	156	330	63.34	89.6	1.966	295.5	24.69	12.78
111	2007	156	345	63.06	90.1	2.054	257.5	22.14	12.77
111	2007	156	400	62.89	90.6	2.54	277.9	22.84	12.76
111	2007	156	415	62.94	90.5	1.867	287.6	18.24	12.76
111	2007	156	430	62.84	90.8	1.291	213.2	31.42	12.75
111	2007	156	445	62.71	91.2	1.647	206.5	23.32	12.74
111	2007	156	500	62.64	91.2	1.689	236.1	25.54	12.73
111	2007	156	515	62.6	91.4	2.979	212.4	16.82	12.73
111	2007	156	530	62.54	91.2	3.203	240.7	28.88	12.72
111	2007	156	545	62.49	91.2	2.046	252.8	30.06	12.72
111	2007	156	600	62.6	91.2	2.001	299.9	46.46	12.72
111	2007	156	615	62.94	91.1	1.341	273.1	28.18	12.71
111	2007	156	630	63.6	90	2.8	267.5	28.07	12.71
111	2007	156	645	64.09	88.7	3.328	272.7	24.46	12.71
111	2007	156	700	64.38	87.2	3.791	266.6	26.58	12.71
111	2007	156	715	65.11	85.8	4.48	261.1	31.41	12.77
111	2007	156	730	64.51	87	6.184	275.5	26.55	12.75
111	2007	156	745	65.14	85.6	5.512	262.4	26.53	12.81
111	2007	156	800	66	84	6.549	275.6	26.71	12.92
111	2007	156	815	66.95	81.9	5.961	278.7	28.67	13.02
111	2007	156	830	67.18	82.7	9.33	276.9	25.11	13.11
111	2007	156	845	67.26	83.1	7.98	277.9	24.06	13.39
111	2007	156	900	67.81	81.1	7.42	281.8	24.83	13.42
111	2007	156	915	68.18	80.4	7.57	276.9	26.8	13.41
111	2007	156	930	67.76	82.2	7.05	272	24.27	13.41

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	156	945	68.59	81.3	7.53	267.9	30.38	13.41
111	2007	156	1000	68.06	81.1	8.59	282	20.85	13.4
111	2007	156	1015	69.39	78.8	7.08	283.8	24.79	13.4
111	2007	156	1030	70.7	78.1	6.188	276.6	25.87	13.39
111	2007	156	1045	70.3	80.2	5.868	261.5	25.37	13.38
111	2007	156	1100	69.43	81.2	5.117	276.3	27.01	13.39
111	2007	156	1115	70.8	78.8	5.409	260.1	24.61	13.39
111	2007	156	1130	72.6	77.1	5.957	267	28.44	13.37
111	2007	156	1145	72.8	74.6	6.001	269.2	26.8	13.37
111	2007	156	1200	72.6	74.7	5.606	250	32.51	13.37
111	2007	156	1215	72.5	78.1	5.588	258.9	29.51	13.36
111	2007	156	1230	71.7	76.3	6.42	234.5	26.07	13.36
111	2007	156	1245	70.9	75.7	6.638	246.9	22.54	13.35
111	2007	156	1300	71	75.4	7	264.9	34.43	13.35
111	2007	156	1315	71.9	73.2	5.842	249.5	23.95	13.36
111	2007	156	1330	73.5	69.11	5.761	268.7	30.56	13.35
111	2007	156	1345	73.6	68.67	6.821	263.1	27.14	13.35
111	2007	156	1400	73.3	66.57	7.09	259.3	29.62	13.35
111	2007	156	1415	73.2	69.31	8.39	263.5	26.64	13.34
111	2007	156	1430	73.8	69.81	8.45	279.3	28.98	13.35
111	2007	156	1445	73.6	70.9	8.34	271.1	25.77	13.34
111	2007	156	1500	72.8	68.44	9.55	279.1	24.29	13.34
111	2007	156	1515	72.9	70.2	7.53	265.5	25.49	13.35
111	2007	156	1530	73.2	67.94	7.6	267.8	28.56	13.34
111	2007	156	1545	73.9	64.43	6.049	265.9	30.61	13.34
111	2007	156	1600	74.9	62.31	7.68	268.5	27.16	13.33
111	2007	156	1615	75.5	62.48	6.938	268.4	25.49	13.33
111	2007	156	1630	75.6	60.57	6.648	261	31.33	13.33
111	2007	156	1645	76.3	54.22	7.54	269.2	26.2	13.32
111	2007	156	1700	78.1	49.37	8.73	274.1	24.88	13.32
111	2007	156	1715	78.8	52.21	8.39	275.1	25.94	13.32
111	2007	156	1730	79	46.43	10.23	285.1	24.05	13.32
111	2007	156	1745	79.6	45.02	9.28	291.8	22.58	13.32
111	2007	156	1800	79.7	44.79	10.29	298.3	24.45	13.31
111	2007	156	1815	79.3	43.85	11.49	295.3	19.41	13.32
111	2007	156	1830	79	44.42	9.82	307.3	23.05	13.32
111	2007	156	1845	78.6	44.52	10.76	303.2	19.12	13.32
111	2007	156	1900	78.1	45.49	9.87	304.4	26.7	13.32
111	2007	156	1915	77.2	47.2	8.87	304.7	20.66	13.32
111	2007	156	1930	76.9	48.71	7.49	297.2	21.47	13.33
111	2007	156	1945	76	51.05	8.41	290.9	22.28	13.26
111	2007	156	2000	75.2	51.65	7.42	291.8	16.79	13.12
111	2007	156	2015	74.5	52.22	6.543	297	24.87	13.05
111	2007	156	2030	74.3	51.92	7.06	303.8	16.88	13.01
111	2007	156	2045	73.8	53.49	4.947	301.1	22.1	12.98
111	2007	156	2100	73.2	54.63	5.133	300	16.69	12.96
111	2007	156	2115	72.4	57.65	3.203	282.2	22.39	12.94
111	2007	156	2130	71.7	56.95	3.847	291.4	23.19	12.93
111	2007	156	2145	71.7	57.72	3.801	287.4	23.33	12.92
111	2007	156	2200	71.8	56.42	4.72	300.1	19.11	12.91
111	2007	156	2215	71.7	54.85	4.252	304.9	18.34	12.9
111	2007	156	2230	71.4	54.75	4.192	304.5	17.5	12.89
111	2007	156	2245	71.1	54.28	4.532	303.9	21.21	12.89
111	2007	156	2300	71	50.54	5.459	321.9	26.38	12.88
111	2007	156	2315	71.2	48.26	5.783	327.4	22.05	12.88
111	2007	156	2330	70.9	48.06	5.838	322.6	25.77	12.87
111	2007	156	2345	70.6	48.63	4.78	319.4	26.44	12.87
111	2007	156	2400	70.1	49.2	4.549	320.4	29.54	12.87
111	2007	157	15	69.76	49.5	4.494	312.1	23.28	12.87
111	2007	157	30	69.42	50.43	4.931	310.2	25.72	12.86

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	157	45	68.77	52.17	3.886	315.8	20.73	12.85
111	2007	157	100	67.9	53.78	3.279	311	19.25	12.85
111	2007	157	115	67.32	54.92	3.06	316.1	20.27	12.85
111	2007	157	130	67.13	53.95	3.988	327.1	29.49	12.84
111	2007	157	145	67.2	53.99	4.057	330.1	21.67	12.83
111	2007	157	200	66.69	55.53	3.305	330.3	19.65	12.83
111	2007	157	215	66.09	57.1	3.688	329.6	23.37	12.83
111	2007	157	230	65.49	58.81	3.908	349.5	28.79	12.82
111	2007	157	245	65.04	60.91	4.681	1.529	28.7	12.82
111	2007	157	300	64.16	63.89	4.097	19.66	26.91	12.82
111	2007	157	315	63.2	64.36	4.673	22.88	29.58	12.81
111	2007	157	330	62.44	64.07	5.737	22.89	23.92	12.8
111	2007	157	345	61.87	62.26	4.964	22.8	27.05	12.8
111	2007	157	400	61.45	61.36	5.266	27.39	24.94	12.79
111	2007	157	415	61.1	60.92	5.719	28.01	23.83	12.78
111	2007	157	430	60.63	61.63	5.032	37.58	25.89	12.78
111	2007	157	445	60.16	62.83	4.869	21.21	23.65	12.77
111	2007	157	500	59.66	64.37	4.782	7.84	25.99	12.76
111	2007	157	515	59.27	62.74	4.897	9.01	28.45	12.76
111	2007	157	530	58.99	62.5	5.741	16.64	26.22	12.75
111	2007	157	545	58.71	63.21	5.52	24.46	21.53	12.74
111	2007	157	600	58.58	63.38	5.236	24.68	24.89	12.74
111	2007	157	615	58.39	63.44	5.61	24.88	28.74	12.73
111	2007	157	630	58.3	63.68	5.264	19.45	21.77	12.73
111	2007	157	645	58.17	65.52	5.568	29.82	25.24	12.72
111	2007	157	700	57.91	66.15	5.225	22.79	20.49	12.72
111	2007	157	715	57.9	67.19	5.874	25.73	23.1	12.75
111	2007	157	730	57.72	68.16	5.276	44.02	24.67	12.8
111	2007	157	745	57.35	69.67	6.205	34.61	26.28	12.79
111	2007	157	800	57.04	69.17	6.122	38.48	22.84	12.82
111	2007	157	815	56.63	70	5.848	59.17	26.17	12.83
111	2007	157	830	56.19	72.3	5.352	61.69	19.93	12.91
111	2007	157	845	55.97	71.7	5.32	46.94	23.57	13.06
111	2007	157	900	55.85	69.13	5.008	38.99	27.18	13.18
111	2007	157	915	55.66	66.29	5.923	26.89	23.13	13.44
111	2007	157	930	55.73	66.32	5.987	52.14	22.24	13.56
111	2007	157	945	56.23	66.02	4.863	34.18	35.7	13.56
111	2007	157	1000	56.97	64.65	7.29	23.5	28.17	13.56
111	2007	157	1015	58.19	61.84	6.007	22.48	41.11	13.54
111	2007	157	1030	59.12	58.45	6.146	10.41	28.98	13.52
111	2007	157	1045	60.03	57.04	5.87	17.26	31.21	13.52
111	2007	157	1100	60.35	57.48	6.525	25.51	35.69	13.51
111	2007	157	1115	61.3	55.13	5.566	16.64	33.23	13.5
111	2007	157	1130	61.97	55.26	6.501	354.4	41.53	13.49
111	2007	157	1145	62.4	54.52	6.692	1.878	34.62	13.49
111	2007	157	1200	63.03	52.45	6.291	6.041	39.44	13.48
111	2007	157	1215	63.25	49.81	6.511	354.6	47.03	13.47
111	2007	157	1230	64	48.74	6.968	8.77	30.47	13.47
111	2007	157	1245	64.57	46.69	6.781	2.264	30.23	13.46
111	2007	157	1300	65.02	43.75	7.14	2.985	31.31	13.45
111	2007	157	1315	65.28	45.45	7.5	30.5	30.55	13.45
111	2007	157	1330	66.1	44.05	6.96	13.42	35.35	13.45
111	2007	157	1345	66.2	43.21	6.827	18.44	29.53	13.44
111	2007	157	1400	67.54	42.54	6.277	345.8	35.8	13.43
111	2007	157	1415	67.59	41.61	6.624	355.2	38.59	13.43
111	2007	157	1430	67.7	41.94	7.45	356.7	34.64	13.42
111	2007	157	1445	68.18	41.17	6.908	359.1	35.57	13.42
111	2007	157	1500	68.26	39.19	7.82	0.235	32.28	13.41
111	2007	157	1515	68.91	38.32	7.85	17.38	34.49	13.41
111	2007	157	1530	69.31	37.59	6.305	0.352	34.72	13.41

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	157	1545	69.81	35.31	7.15	356.4	34.44	13.39
111	2007	157	1600	69.41	36.21	6.809	358.5	33.01	13.39
111	2007	157	1615	69.43	38.95	7.03	6.54	33.76	13.39
111	2007	157	1630	69.06	35.27	7.29	11.73	28.26	13.4
111	2007	157	1645	68.99	31.8	8.47	3.994	30.07	13.4
111	2007	157	1700	69.88	33.04	7.8	344.3	34.01	13.4
111	2007	157	1715	68.87	31.8	9.24	346.3	27.32	13.4
111	2007	157	1730	68.34	31.8	10.05	351.5	32.39	13.4
111	2007	157	1745	68.36	31.8	8.48	7.75	24.77	13.41
111	2007	157	1800	68.18	31.23	8.38	3.082	27.89	13.41
111	2007	157	1815	67.77	30.46	8.69	355.3	26.73	13.41
111	2007	157	1830	67.28	30.73	8.53	351.2	32.48	13.42
111	2007	157	1845	66.95	31.7	7.51	5.863	35.65	13.43
111	2007	157	1900	66.44	32.88	7.92	6.202	29.51	13.43
111	2007	157	1915	66.01	34.62	7.36	359.4	31.19	13.44
111	2007	157	1930	65.59	34.51	8.61	358.9	26.48	13.45
111	2007	157	1945	65.02	36.09	7.26	356	29.87	13.45
111	2007	157	2000	64.29	37.86	5.348	5.354	31.45	13.14
111	2007	157	2015	63.49	38.1	5.798	355.6	26.73	13.06
111	2007	157	2030	63.05	39.17	5.475	2.923	23.95	13.01
111	2007	157	2045	62.43	41.38	4.079	1.772	23.85	12.97
111	2007	157	2100	61.78	43.42	3.033	8.68	27.68	12.94
111	2007	157	2115	61.19	44.6	3.084	7.05	25.5	12.92
111	2007	157	2130	60.82	45.3	3.072	7.63	26.92	12.9
111	2007	157	2145	60.23	45.27	2.848	353.8	25.04	12.89
111	2007	157	2200	59.99	45.87	2.565	37.56	34.97	12.88
111	2007	157	2215	59.65	48.69	2.413	65.89	21.34	12.87
111	2007	157	2230	58.84	52.57	1.96	69.08	17.49	12.86
111	2007	157	2245	58.17	54.81	2.391	63.46	17.58	12.85
111	2007	157	2300	57.56	56.49	1.504	74.3	15.55	12.84
111	2007	157	2315	56.82	60.11	0.432	344.8	25.75	12.84
111	2007	157	2330	55.55	64.09	0.504	316.9	17	12.83
111	2007	157	2345	54.7	66.37	0.56	337.9	23.61	12.82
111	2007	157	2400	54.25	68.58	0.867	322.5	20.76	12.81
111	2007	158	15	53.3	72	0.867	269.5	9.02	12.8
111	2007	158	30	52.42	75.4	0.559	298	10.07	12.8
111	2007	158	45	52.47	74.7	0.998	36.07	27.64	12.79
111	2007	158	100	52.76	73.5	0.335	2.144	10.48	12.78
111	2007	158	115	52.24	75	0.047	323	4.165	12.78
111	2007	158	130	51.72	77	0.675	11.23	19.31	12.77
111	2007	158	145	51.27	78.4	0.816	9.47	23.82	12.77
111	2007	158	200	51.17	78.8	0.429	350.2	16.5	12.76
111	2007	158	215	50.87	79.2	0.66	25.78	7.25	12.75
111	2007	158	230	50.91	79.4	1.153	12.65	16.04	12.75
111	2007	158	245	50.89	79.9	0.348	340.8	21.23	12.74
111	2007	158	300	50.8	79.8	0.738	3.662	21.98	12.73
111	2007	158	315	50.27	81.1	1.97	289.7	14.71	12.73
111	2007	158	330	49.51	82	0.606	298.9	6.261	12.72
111	2007	158	345	49.41	82.2	0.925	306.2	16.1	12.71
111	2007	158	400	49.37	81.1	1.623	18.48	21.71	12.71
111	2007	158	415	49.79	79.8	1.431	13.49	20.95	12.7
111	2007	158	430	50.01	77.6	1.775	6.848	24.37	12.69
111	2007	158	445	49.99	76.1	1.547	12.39	23.64	12.68
111	2007	158	500	49.7	77	0.241	24.49	5.265	12.67
111	2007	158	515	48.95	79.1	0.564	92.2	13.62	12.67
111	2007	158	530	49.06	79	1.441	48.46	12.92	12.66
111	2007	158	545	49.22	79.1	0.693	57.9	19.96	12.65
111	2007	158	600	49.61	79.4	0.394	34.65	16.31	12.64
111	2007	158	615	51.68	74.6	0.649	41.26	9.73	12.64
111	2007	158	630	53.25	70	0.705	62.34	33.43	12.65

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	158	645	55.08	65.52	0.913	56.41	57.92	12.66
111	2007	158	700	56.07	60.09	1.761	70.3	28.27	12.68
111	2007	158	715	56.68	56.8	2.685	87.4	21.35	12.73
111	2007	158	730	57.37	53.58	2.973	55.55	21.1	12.79
111	2007	158	745	58.09	52.98	3.446	64.2	23.63	12.88
111	2007	158	800	58.83	50.9	3.054	97.2	22.6	12.98
111	2007	158	815	59.98	50.36	2.23	27.89	92.4	13.1
111	2007	158	830	60.51	51.26	2.743	134.4	40.66	13.21
111	2007	158	845	60.69	47.48	3.471	177.6	41.21	13.3
111	2007	158	900	61.02	48.61	2.939	179.6	47.05	13.46
111	2007	158	915	61.4	49.41	3.112	208.9	58.08	13.5
111	2007	158	930	61.65	47.53	3.563	219.8	27.99	13.49
111	2007	158	945	61.6	52.12	5.189	203.2	26.31	13.48
111	2007	158	1000	61.39	50.11	5.221	193.6	32.66	13.48
111	2007	158	1015	61.57	52.05	5.574	202.9	31.38	13.47
111	2007	158	1030	61.72	51.81	5.826	205.3	22.82	13.47
111	2007	158	1045	61.83	52.08	6.003	204.3	25.81	13.47
111	2007	158	1100	62.46	51.92	6.118	212.1	23.96	13.47
111	2007	158	1115	62.76	52.15	6.541	220.6	26.17	13.47
111	2007	158	1130	63.25	55.19	6.239	233.6	28.1	13.46
111	2007	158	1145	63.37	51.31	5.667	238.5	26.13	13.46
111	2007	158	1200	63.48	53.31	5.818	233.7	25.79	13.45
111	2007	158	1215	63.85	53.28	6.239	248.5	28.66	13.45
111	2007	158	1230	64.37	53.41	5.794	255.1	33.71	13.45
111	2007	158	1245	64.35	53.58	6.65	237.9	26.4	13.44
111	2007	158	1300	64.33	53.48	7.01	243.3	28.06	13.44
111	2007	158	1315	64.69	53.11	6.196	246.5	30.44	13.45
111	2007	158	1330	64.5	50.5	6.718	226.1	25.71	13.45
111	2007	158	1345	64.01	56.32	6.892	229.8	23.28	13.44
111	2007	158	1400	64.16	56.89	7.18	227.7	26.11	13.44
111	2007	158	1415	64.53	53.31	6.698	248	32.63	13.44
111	2007	158	1430	65.07	59.43	6.652	242	29.45	13.44
111	2007	158	1445	64.55	58.96	7.16	243.3	28.77	13.43
111	2007	158	1500	64.3	60.2	7.37	233.3	28.85	13.43
111	2007	158	1515	65.4	56.22	5.963	235.3	32.67	13.43
111	2007	158	1530	65.41	58.56	6.708	261	25.61	13.43
111	2007	158	1545	65.08	57.32	6.777	247.6	29.11	13.43
111	2007	158	1600	65.58	60.8	6.926	241.8	35.92	13.43
111	2007	158	1615	65.52	61.5	6.116	239.7	29.59	13.43
111	2007	158	1630	65.53	59.96	6.237	251.7	31.31	13.42
111	2007	158	1645	65.25	64.2	7.1	226.1	32.79	13.42
111	2007	158	1700	64.57	66.25	7.21	232.9	25	13.43
111	2007	158	1715	64.61	64.04	6.922	225	30.04	13.43
111	2007	158	1730	65.01	62.24	5.91	233.9	29.57	13.43
111	2007	158	1745	64.61	64.55	6.084	254.5	26.38	13.43
111	2007	158	1800	64.6	65.95	5.244	263.4	29.53	13.44
111	2007	158	1815	63.95	70.9	6.066	253.9	28.46	13.45
111	2007	158	1830	63.8	71.2	5.711	243.6	27.81	13.45
111	2007	158	1845	63.92	73.8	5.233	249.4	23.94	13.46
111	2007	158	1900	63.98	74.2	4.804	254.6	28.88	13.47
111	2007	158	1915	64.04	76.1	4.792	255.2	26.91	13.47
111	2007	158	1930	63.5	77.6	5.03	246.9	27.76	13.47
111	2007	158	1945	63.54	79.3	4.899	250.3	26.59	13.48
111	2007	158	2000	63.06	80.6	4.127	238.4	27.52	13.11
111	2007	158	2015	62.75	81.2	2.828	252.7	26.15	13.04
111	2007	158	2030	62.57	81.3	2.635	255.5	27.11	12.99
111	2007	158	2045	62.65	81.4	2.552	227.1	20.17	12.96
111	2007	158	2100	62.87	82.4	2.981	225.4	20.93	12.94
111	2007	158	2115	62.86	83.9	3.068	236.4	21.12	12.92
111	2007	158	2130	62.87	85.8	2.985	238.3	25.6	12.9

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	158	2145	62.83	86.8	2.717	236.5	22.31	12.9
111	2007	158	2200	62.58	88	2.977	239.2	24.6	12.89
111	2007	158	2215	62.44	88.6	2.58	246.5	26.34	12.88
111	2007	158	2230	62.51	88.7	1.752	249.9	27.01	12.88
111	2007	158	2245	62.48	88.9	1.837	239.7	21.41	12.87
111	2007	158	2300	62.49	88.8	1.992	229.7	27.28	12.87
111	2007	158	2315	62.46	88.6	2.121	230.7	19.75	12.86
111	2007	158	2330	62.45	88.6	1.954	236	20.28	12.86
111	2007	158	2345	62.36	88.9	1.675	262.9	26.49	12.86
111	2007	158	2400	62.14	89.2	1.608	250.3	21.56	12.85
111	2007	159	15	62.02	89.5	2.133	235.8	19.11	12.85
111	2007	159	30	62.1	89.2	1.734	245.7	20.75	12.84
111	2007	159	45	62.1	89	1.707	253	23.39	12.84
111	2007	159	100	62.21	88.5	1.501	232.4	21.3	12.84
111	2007	159	115	62.19	88.2	1.572	263.4	36.72	12.83
111	2007	159	130	61.83	88.2	1.4	277.3	20.42	12.82
111	2007	159	145	61.57	88.4	0.736	251.7	13.54	12.82
111	2007	159	200	61.25	88.7	0.409	285	6.595	12.82
111	2007	159	215	60.97	89	0.783	299.2	7.5	12.81
111	2007	159	230	60.67	89.5	0.38	295.3	9.56	12.8
111	2007	159	245	60.69	89.7	0.569	321.5	14.24	12.79
111	2007	159	300	60.75	89.6	0.382	275.9	15.99	12.79
111	2007	159	315	60.64	89.9	0.828	283.8	22.52	12.78
111	2007	159	330	60.84	90.3	1.865	281.8	17.72	12.77
111	2007	159	345	61.57	89.8	1.98	261.5	22	12.77
111	2007	159	400	61.95	89.4	1.98	262.9	21.47	12.76
111	2007	159	415	61.99	89.4	2.5	290.6	19.43	12.75
111	2007	159	430	61.95	89.6	1.317	250.7	35.72	12.75
111	2007	159	445	61.79	89.6	1.458	285.4	32.25	12.74
111	2007	159	500	61.11	90.1	1.241	308.5	16.53	12.74
111	2007	159	515	60.99	90.4	0.695	291.4	11.58	12.72
111	2007	159	530	60.96	90.7	0.027	294.9	0.1	12.72
111	2007	159	545	60.64	90.8	1.063	24.57	18.03	12.71
111	2007	159	600	60.37	91.5	0.776	33.01	10.65	12.71
111	2007	159	615	61.25	91.5	na	na	na	12.7
111	2007	159	630	62.65	90.6	0.029	90.8	0.204	12.7
111	2007	159	645	64.1	89.6	0.367	86.1	5.5	12.71
111	2007	159	700	65.28	88.1	0.946	266.9	31.01	12.73
111	2007	159	715	65.72	86.4	2.07	295.6	23.24	12.77
111	2007	159	730	66.62	84.8	1.606	299.9	25.04	12.82
111	2007	159	745	67.83	83.2	1.668	259.5	41.07	12.9
111	2007	159	800	68.46	81.4	2.082	198.5	40.42	12.98
111	2007	159	815	68.7	80.6	2.689	170.6	40.36	13.09
111	2007	159	830	69.1	80.9	2.846	222.3	38.39	13.23
111	2007	159	845	69.26	80.1	3.757	169.2	26.38	13.33
111	2007	159	900	69.2	79.4	4.414	160.9	21.05	13.39
111	2007	159	915	68.53	82.6	4.865	183.5	20.49	13.39
111	2007	159	930	68.94	81.2	3.773	192	27.88	13.39
111	2007	159	945	69.38	80	4.146	192.8	31.48	13.38
111	2007	159	1000	70.5	76.6	3.922	219.8	23.77	13.37
111	2007	159	1015	70.4	76.6	4.669	203.4	32.81	13.37
111	2007	159	1030	70.1	78.6	5.701	174.4	20.28	13.37
111	2007	159	1045	70.5	79.2	4.895	225.5	23.24	13.36
111	2007	159	1100	69.52	80.5	5.562	216.4	20.18	13.36
111	2007	159	1115	69.39	81.4	5.655	204.5	21.43	13.37
111	2007	159	1130	69.12	82.7	6.591	208.2	24.88	13.37
111	2007	159	1145	68.41	81.3	7.28	222.7	19.98	13.37
111	2007	159	1200	67.57	84.9	6.7	201	24.53	13.37
111	2007	159	1215	67.4	85	6.456	201.6	17.49	13.37
111	2007	159	1230	67	84.8	6.346	212.4	20.97	13.37

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	159	1245	67.27	85.2	6.658	197.4	26.05	13.37
111	2007	159	1300	67.41	84	7.09	199.3	22.98	13.37
111	2007	159	1315	66.9	83.9	7.62	216.2	22	13.37
111	2007	159	1330	67.15	84.7	6.481	204.9	23.85	13.37
111	2007	159	1345	67.75	83.6	7.12	190.1	19.17	13.37
111	2007	159	1400	67.7	84.7	5.983	211.3	27.77	13.37
111	2007	159	1415	66.55	85.6	7.61	196.2	23.9	13.37
111	2007	159	1430	66.09	86.4	6.871	199.2	21.94	13.38
111	2007	159	1445	66.12	86.6	5.995	185.3	20.85	13.38
111	2007	159	1500	66.09	86.3	6.45	185.3	22.35	13.39
111	2007	159	1515	65.85	88.3	6.73	195.3	22.2	13.39
111	2007	159	1530	65.76	87.8	6.656	191	22.87	13.41
111	2007	159	1545	65.71	88.2	6.656	185.6	23.55	13.41
111	2007	159	1600	66.03	89	6.233	198.3	23.46	13.41
111	2007	159	1615	65.85	90.1	7.39	188.2	19.33	13.41
111	2007	159	1630	65.75	91.4	6.736	189.2	25.05	13.42
111	2007	159	1645	65.73	91.6	6.837	190.2	20.94	13.43
111	2007	159	1700	66.18	91.5	5.076	197.5	25.12	13.43
111	2007	159	1715	66.2	91.5	5.08	197.6	23.55	13.43
111	2007	159	1730	66.17	91.1	5.056	189	24.69	13.43
111	2007	159	1745	66.16	91.4	5.358	187.5	22.93	13.26
111	2007	159	1800	66.06	91.2	5.141	188	23.72	13.15
111	2007	159	1815	65.61	92.2	5.264	177.1	21.56	13.07
111	2007	159	1830	65.19	92.7	5.451	168.2	21.79	13.01
111	2007	159	1845	65.08	92.9	4.46	188.6	18.54	12.97
111	2007	159	1900	64.86	93	4.808	182.3	18.11	12.95
111	2007	159	1915	64.71	93.3	4.788	181.5	20.7	12.93
111	2007	159	1930	64.69	93.5	4.738	177.7	17.03	12.91
111	2007	159	1945	64.65	93.7	4.984	182.6	17.74	12.91
111	2007	159	2000	64.64	94	5.026	187.1	16.8	12.89
111	2007	159	2015	64.68	94.1	4.44	194.7	23.63	12.89
111	2007	159	2030	64.92	94.1	3.988	185.6	20.02	12.88
111	2007	159	2045	64.96	94	3.799	200.7	27.68	12.87
111	2007	159	2100	64.92	94.1	3.305	194.7	21.99	12.87
111	2007	159	2115	64.89	94.4	2.882	193.9	24.62	12.87
111	2007	159	2130	65	94.4	2.919	195.6	29.83	12.87
111	2007	159	2145	64.98	94.5	2.486	183	20.54	12.86
111	2007	159	2200	65.07	94.5	2.699	178.8	20.51	12.86
111	2007	159	2215	64.93	94.7	3.737	177.2	14.34	12.85
111	2007	159	2230	65.1	94.9	2.473	210.2	27.04	12.85
111	2007	159	2245	65	94.9	3.235	191.1	22.25	12.84
111	2007	159	2300	65.07	95.1	2.987	193.9	27.2	12.84
111	2007	159	2315	65.07	95	3.795	177	17	12.84
111	2007	159	2330	64.96	95.1	3.598	170.3	17.34	12.83
111	2007	159	2345	64.93	95.2	3.305	179.2	17.68	12.83
111	2007	159	2400	65.03	95.4	2.236	184.1	25.79	12.82
111	2007	160	15	65.14	95.3	2.268	178	20.68	12.82
111	2007	160	30	65.13	95.3	2.443	160.4	17.12	12.81
111	2007	160	45	65.18	95.3	2.616	187.6	29.53	12.81
111	2007	160	100	65.12	95.4	2.784	148.8	27.75	12.79
111	2007	160	115	64.99	95.3	3.579	147.1	21.57	12.79
111	2007	160	130	64.69	95.4	2.935	158.4	19.12	12.78
111	2007	160	145	64.77	95.6	3.475	211.2	80.4	12.77
111	2007	160	200	64.93	95.5	2.439	127.7	71.7	12.77
111	2007	160	215	65	95.6	2.854	135.4	28.24	12.76
111	2007	160	230	64.81	95.5	2.194	148.9	49.25	12.75
111	2007	160	245	64.77	95.6	2.334	121.5	24.97	12.75
111	2007	160	300	64.76	95.7	2.403	132.2	23.6	12.75
111	2007	160	315	64.83	95.6	3.352	103.7	22.85	12.74
111	2007	160	330	64.8	95.7	4.214	103	17.4	12.73

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	160	345	64.85	95.7	3.986	105.9	20.63	12.73
111	2007	160	400	64.91	95.6	4.816	113.5	21.41	12.73
111	2007	160	415	65.08	95.8	4.349	124.8	18.36	12.73
111	2007	160	430	65.01	95.7	2.462	130.9	55.03	12.73
111	2007	160	445	65.02	95.7	1.076	229	69.16	12.73
111	2007	160	500	65.24	95.8	1.411	348	58.7	12.73
111	2007	160	515	65.31	95.7	0.931	344.7	27.7	12.73
111	2007	160	530	65.42	95.7	2.824	341	21.91	12.73
111	2007	160	545	65.45	95.7	4.208	4.002	31.5	12.73
111	2007	160	600	65.04	95.7	4.462	44.58	29.25	12.73
111	2007	160	615	64.75	95.8	4.202	39.8	23.2	12.73
111	2007	160	630	64.57	95.6	5.922	34.89	27.85	12.72
111	2007	160	645	64.15	95.6	6.031	46	22.44	12.72
111	2007	160	700	63.71	95.5	5.389	43.1	25.41	12.72
111	2007	160	715	63.46	95.3	5.151	54.65	21.63	12.72
111	2007	160	730	63.44	95.2	3.547	62.76	20.78	12.73
111	2007	160	745	63.32	95.1	4.992	58.91	24.51	12.72
111	2007	160	800	63.46	95	3.737	60.22	21.25	12.72
111	2007	160	815	63.65	95	3.112	59.5	25.14	12.73
111	2007	160	830	63.98	94.9	3.448	64.93	32.78	12.77
111	2007	160	845	64.43	94.6	3.6	72.2	21.28	12.85
111	2007	160	900	65.07	94.3	3.922	65.62	30.14	13.07
111	2007	160	915	65.51	93.6	4.409	63.1	23.47	13.35
111	2007	160	930	66.08	92.9	4.97	59.26	23.22	13.45
111	2007	160	945	67.02	91.3	5.534	56.53	21.69	13.43
111	2007	160	1000	68.45	85.4	5.832	50.11	21.26	13.43
111	2007	160	1015	69.52	80.4	5.939	63.41	24.09	13.42
111	2007	160	1030	70.9	76.2	6.094	56.46	24.73	13.41
111	2007	160	1045	71.2	77.2	7.69	66.8	19.77	13.41
111	2007	160	1100	71.3	76.9	7.23	75.6	21.71	13.41
111	2007	160	1115	71.5	78.3	6.845	72.2	23.71	13.4
111	2007	160	1130	71.5	79.2	6.841	82.5	23.02	13.39
111	2007	160	1145	71.7	79.4	7.67	83.7	27.13	13.39
111	2007	160	1200	71	82.2	7.75	105.8	21.63	13.36
111	2007	160	1215	68.95	84.9	7.11	107.8	24.73	13.35
111	2007	160	1230	67.96	85.1	7.05	104	22.08	13.4
111	2007	160	1245	67.81	84.2	5.981	93.2	25.44	13.39
111	2007	160	1300	68.04	83.7	6.71	88.9	23.77	13.41
111	2007	160	1315	68.14	82.4	6.696	95.9	28.71	13.4
111	2007	160	1330	67.76	82.1	7.44	100.3	21.94	13.41
111	2007	160	1345	67.86	81.1	5.236	96.4	29.13	13.41
111	2007	160	1400	67.47	81.2	7.03	105	23.04	13.41
111	2007	160	1415	66.85	81.8	5.761	103.9	25.3	13.41
111	2007	160	1430	66.85	82.9	5.145	108.8	25.7	13.41
111	2007	160	1445	65.72	84.2	5.717	165.7	22.09	13.39
111	2007	160	1500	64.77	85.4	7	146.3	16.9	13.43
111	2007	160	1515	65.28	82.8	7.24	141.8	19.45	13.43
111	2007	160	1530	65.35	82.2	7.91	142.1	16.61	13.43
111	2007	160	1545	65.84	82.3	6.201	157.9	18.3	13.43
111	2007	160	1600	65.19	84.2	6.031	162.5	23.62	13.43
111	2007	160	1615	64.43	84.9	6.603	140.4	17.47	13.44
111	2007	160	1630	64.18	85.5	5.471	145.7	20.53	13.45
111	2007	160	1645	63.65	86.4	5.699	146	15.38	13.31
111	2007	160	1700	63.3	86.5	5.415	136.9	20.37	13.14
111	2007	160	1715	63.42	86.2	4.597	122.4	22.64	13.09
111	2007	160	1730	63.73	84.4	5.679	132.6	18.23	13.15
111	2007	160	1745	63.65	84.8	5.385	139.3	15.86	13.07
111	2007	160	1800	63.58	84.8	5.86	144.9	16.74	13.01
111	2007	160	1815	63.52	85.5	4.871	143.4	22.36	13.01
111	2007	160	1830	63.19	87.5	5.354	152.4	22.78	12.97

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	160	1845	62.47	88.5	6.396	156.4	21.12	12.94
111	2007	160	1900	61.98	85.8	6.009	141.3	19.19	12.93
111	2007	160	1915	62.22	82.3	5.348	150.2	19.28	12.92
111	2007	160	1930	62.32	80.7	4.059	139.7	30.02	12.9
111	2007	160	1945	62.27	80.2	3.438	121.5	27.25	12.9
111	2007	160	2000	62.29	79.7	3.513	120.6	23.82	12.89
111	2007	160	2015	62.38	79	3.666	104.6	21.55	12.88
111	2007	160	2030	62.27	79	3.4	102.6	20.79	12.88
111	2007	160	2045	62.18	78.4	3.118	96.5	17.96	12.87
111	2007	160	2100	62.17	78.3	3.324	105.4	23.28	12.87
111	2007	160	2115	62.19	78.4	3.362	107.7	18.41	12.86
111	2007	160	2130	62.29	78.3	3.771	135	24.08	12.86
111	2007	160	2145	62.35	78.5	3.187	131.2	24.82	12.86
111	2007	160	2200	62.26	79.6	4.117	116.4	20.67	12.86
111	2007	160	2215	62.07	77.8	3.972	121.8	22.8	12.85
111	2007	160	2230	61.93	76.1	3.563	115.1	25.83	12.85
111	2007	160	2245	61.92	80.2	3.005	109.1	22.02	12.84
111	2007	160	2300	61.7	76.7	3.273	104	17.8	12.84
111	2007	160	2315	61.75	75.9	3.13	100.4	18	12.83
111	2007	160	2330	61.53	71.3	3.142	95.7	23.91	12.83
111	2007	160	2345	61.44	70.2	2.852	94.3	20.05	12.82
111	2007	160	2400	61.41	71.2	2.673	96.4	15.04	12.82
111	2007	161	15	61.41	72.7	2.091	81.9	24.96	12.81
111	2007	161	30	61.51	73.5	2.407	71.3	22.94	12.8
111	2007	161	45	61.55	74.3	2.455	75	22.17	12.8
111	2007	161	100	61.58	73	2.316	68.36	20.69	12.79
111	2007	161	115	61.65	72.5	2.689	72.8	21.34	12.78
111	2007	161	130	61.6	70.8	2.677	90.8	19.92	12.78
111	2007	161	145	61.67	73.4	2.216	67.86	20.16	12.77
111	2007	161	200	61.55	78	3.108	57.28	19.43	12.76
111	2007	161	215	61.4	78.3	2.878	73.6	21.76	12.76
111	2007	161	230	61.45	79.5	2.165	69.16	25.17	12.75
111	2007	161	245	61.35	80.1	2.731	86.4	22.82	12.74
111	2007	161	300	61.22	81.2	2.852	58.41	18.26	12.74
111	2007	161	315	61.09	82.4	3.374	55.38	18.42	12.73
111	2007	161	330	60.89	82.4	3.688	61.7	19.8	12.72
111	2007	161	345	60.62	77.5	4.472	68.62	19.23	12.72
111	2007	161	400	60.35	74.8	4.061	44.91	22	12.72
111	2007	161	415	60.24	75.4	2.558	61.61	21.9	12.71
111	2007	161	430	60.24	75.2	2.917	53.28	23.55	12.71
111	2007	161	445	60.31	75.5	2.89	51.04	22.44	12.7
111	2007	161	500	60.27	76	3.559	66.37	21.68	12.7
111	2007	161	515	60.2	76.6	2.961	52.39	26.38	12.7
111	2007	161	530	60.28	76.5	2.554	70.4	17.3	12.7
111	2007	161	545	60.33	76	2.723	77.2	18.77	12.7
111	2007	161	600	60.33	76.8	3.499	58.38	20.48	12.7
111	2007	161	615	60.31	78.7	3.352	70.8	26.95	12.7
111	2007	161	630	60.37	80.5	3.92	72.6	14.94	12.7
111	2007	161	645	60.49	82.7	4.303	64.7	23.29	12.7
111	2007	161	700	60.35	86.1	4.051	67.16	18.43	12.71
111	2007	161	715	60.41	87.1	3.586	56.7	23.7	12.9
111	2007	161	730	60.45	83	3.998	80	22.69	12.92
111	2007	161	745	60.45	74.6	4.982	83.3	22.11	12.86
111	2007	161	800	60.42	74.4	3.898	85.9	22.39	12.87
111	2007	161	815	60.28	76.2	2.169	80.8	21.08	12.98
111	2007	161	830	61.03	75.9	3.217	62.59	18.06	13.11
111	2007	161	845	61.47	78.6	4.152	63.75	23.57	13.51
111	2007	161	900	61.78	76.6	4.023	55.11	22	13.5
111	2007	161	915	61.63	78.8	4.974	66.26	20.24	13.49
111	2007	161	930	61.62	79.2	3.843	72.4	26.68	13.47

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	161	945	61.43	81.2	5.157	60.26	21.39	13.51
111	2007	161	1000	61.48	81.5	4.69	78.2	21.55	13.51
111	2007	161	1015	61.65	76.1	4.822	94	22.32	13.5
111	2007	161	1030	61.69	75.4	4.776	76.1	28.14	13.5
111	2007	161	1045	61.7	75.5	4.764	75.8	22.96	13.5
111	2007	161	1100	61.64	76.9	4.456	75.2	20.17	13.51
111	2007	161	1115	62.01	74.4	4.907	71.9	26.47	13.49
111	2007	161	1130	62.54	71.5	4.619	63.42	20.77	13.49
111	2007	161	1145	62.68	71.3	4.375	47.62	25.35	13.48
111	2007	161	1200	63	69.64	4.756	61.49	24.93	13.47
111	2007	161	1215	63.31	69.01	4.549	58.1	27.86	13.47
111	2007	161	1230	64.01	69.14	4.875	53.86	27.09	13.46
111	2007	161	1245	64.11	67.73	5.366	44.6	32.43	13.45
111	2007	161	1300	63.9	69.67	5.788	43.31	20.93	13.45
111	2007	161	1315	64.07	68.36	5.88	34.51	28.63	13.45
111	2007	161	1330	64.63	67.76	5.548	41.93	26.74	13.45
111	2007	161	1345	65.11	65.92	4.331	55.14	31.62	13.44
111	2007	161	1400	65.88	64.88	4.391	70.2	33.75	13.43
111	2007	161	1415	66.33	63.95	4.174	62.23	33.63	13.43
111	2007	161	1430	66.65	63.14	4.258	58.44	37.2	13.42
111	2007	161	1445	67.48	62.94	3.449	30.77	40.26	13.41
111	2007	161	1500	67.55	63.3	3.729	43.86	28.06	13.41
111	2007	161	1515	69.02	61.23	3.944	354.5	38.4	13.4
111	2007	161	1530	69.2	58.45	4.166	355.8	44.5	13.39
111	2007	161	1545	66.36	75.6	7.92	183.5	31.33	13.39
111	2007	161	1600	63.74	78.5	7.38	182.7	19.57	13.4
111	2007	161	1615	63.37	78.5	6.259	187.4	26.34	13.41
111	2007	161	1630	63.24	78.7	5.006	195	25.57	13.43
111	2007	161	1645	64.18	76.4	4.891	216.1	29.45	13.43
111	2007	161	1700	64.2	77.5	5.872	192	26.5	13.42
111	2007	161	1715	64.11	78.2	5.199	194.5	28.34	13.42
111	2007	161	1730	63.52	77.8	4.559	189.1	30.58	13.43
111	2007	161	1745	63.63	76.2	3.126	208.6	32.02	13.43
111	2007	161	1800	63.94	73.7	3.301	215.3	23.18	13.45
111	2007	161	1815	64.08	73.1	2.933	230.6	28.88	13.45
111	2007	161	1830	64.28	72.7	2.784	232.5	31.26	13.46
111	2007	161	1845	64.32	72.4	2.479	252.2	28.45	13.2
111	2007	161	1900	64.3	72.8	2.997	274.7	28.98	13.1
111	2007	161	1915	64.21	71.6	2.2	244.2	43.27	13.1
111	2007	161	1930	64.43	71.7	2.242	268.7	25.37	13.09
111	2007	161	1945	64.45	72.7	2.27	277.1	24.35	13.02
111	2007	161	2000	64.16	73.1	2.166	253.6	23.36	12.98
111	2007	161	2015	63.94	74.8	1.782	261.6	22.31	12.95
111	2007	161	2030	63.65	76.1	2.099	268.4	21.27	12.93
111	2007	161	2045	63.35	76.1	3.197	285.6	16.5	12.92
111	2007	161	2100	63.13	76.4	2.359	304.6	34.44	12.91
111	2007	161	2115	62.68	77.5	2.486	331.6	15.86	12.9
111	2007	161	2130	62.27	78	2.25	318.7	17.13	12.9
111	2007	161	2145	61.93	79	2.211	322.4	19.35	12.89
111	2007	161	2200	61.55	79.8	1.204	340.3	22.57	12.88
111	2007	161	2215	61.11	81	1.561	324.2	12.39	12.87
111	2007	161	2230	60.53	82.5	1.902	332.8	10.18	12.86
111	2007	161	2245	60.26	82.7	2.401	331.6	16.72	12.86
111	2007	161	2300	60.34	82.5	1.823	333.2	17.3	12.86
111	2007	161	2315	60.02	83.2	0.63	15.64	14.99	12.84
111	2007	161	2330	59.46	84	0.488	344.9	5.293	12.84
111	2007	161	2345	58.83	85.5	1.41	342.2	7.34	12.84
111	2007	161	2400	58.46	86.3	0.067	4.148	3.524	12.83
111	2007	162	15	58.12	87.5	1.923	339.1	8.38	12.82
111	2007	162	30	58.27	87.5	1.666	338.5	22.1	12.82

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	162	45	58.34	87.6	1.796	333.5	16.39	12.82
111	2007	162	100	58.17	87.9	1.794	329.5	17.07	12.81
111	2007	162	115	57.93	88.5	1.901	323.6	14.15	12.8
111	2007	162	130	57.83	88.7	2.064	324.7	16.52	12.8
111	2007	162	145	57.88	89.1	2.562	318.7	15.67	12.8
111	2007	162	200	58.08	89.7	2.85	328.2	17.52	12.79
111	2007	162	215	58.37	89.6	2.53	336.8	17.16	12.78
111	2007	162	230	58.35	89.7	2.594	331.7	19.31	12.78
111	2007	162	245	58.46	89.9	2.931	333.3	20.27	12.77
111	2007	162	300	58.23	89.9	2.697	338.5	21.23	12.77
111	2007	162	315	58.04	90	2.181	5.075	23.32	12.76
111	2007	162	330	57.63	90.2	2.103	14.41	15.38	12.76
111	2007	162	345	57.36	90.3	1.919	7.09	27.42	12.75
111	2007	162	400	57.49	90.2	2.183	11.58	28.9	12.74
111	2007	162	415	57.8	89.8	2.141	359.4	30.85	12.74
111	2007	162	430	58.15	89.2	2.236	1.989	22.67	12.73
111	2007	162	445	58.31	88.7	2.433	348.9	26.35	12.72
111	2007	162	500	58.55	88.1	2.124	13.02	28.34	12.72
111	2007	162	515	59.02	87.3	2.133	346.1	24.54	12.72
111	2007	162	530	59.2	87.1	1.815	352	27.43	12.71
111	2007	162	545	59.45	86.6	2.161	5.398	27.43	12.7
111	2007	162	600	59.85	85.5	2.087	8.43	32.43	12.7
111	2007	162	615	60.44	84	1.96	28.74	27.88	12.69
111	2007	162	630	60.94	83.4	2.262	9.72	30.68	12.69
111	2007	162	645	61.45	82.1	2.107	25.79	36.59	12.7
111	2007	162	700	61.82	79.7	2.866	40.29	23.15	12.7
111	2007	162	715	62.41	77.5	3.193	37.4	23.39	12.71
111	2007	162	730	62.61	77.2	3.326	28.33	23.92	12.7
111	2007	162	745	63.02	76.2	2.977	33.35	23.6	12.73
111	2007	162	800	64.33	72.7	3.436	24.56	25.44	12.98
111	2007	162	815	65.71	68.94	4.849	41.51	27	13.34
111	2007	162	830	67.33	63.72	6.039	38.07	27.04	13.29
111	2007	162	845	69.21	58.77	6.46	42.29	25.64	13.3
111	2007	162	900	69.66	60.2	6.888	49.35	24.58	13.25
111	2007	162	915	69.78	57.99	5.955	56.8	22.18	13.27
111	2007	162	930	71	56.42	5.258	48.07	36.84	13.41
111	2007	162	945	69.86	58.02	6.116	45.02	25.24	13.41
111	2007	162	1000	70.9	54.31	5.89	49.44	31.2	13.39
111	2007	162	1015	71.9	52.93	5.894	51.75	29.52	13.38
111	2007	162	1030	72.5	52.26	6.851	54.4	29.14	13.37
111	2007	162	1045	73.6	52.63	6.448	63.78	29.24	13.36
111	2007	162	1100	73.6	53.03	5.82	63.13	21.19	13.35
111	2007	162	1115	73.3	53.19	5.769	58.91	30.81	13.35
111	2007	162	1130	73	53.16	6.726	67.37	23.83	13.35
111	2007	162	1145	74.3	49.68	5.379	56.47	24.94	13.35
111	2007	162	1200	76.1	48.58	6.106	35.3	26.71	13.33
111	2007	162	1215	76.5	46.3	6.517	48.48	31.84	13.33
111	2007	162	1230	77.2	46.03	6.67	62.81	28.56	13.32
111	2007	162	1245	76.9	47.87	7.04	57.98	21.99	13.32
111	2007	162	1300	77.6	44.46	6.753	51.8	24.24	13.31
111	2007	162	1315	78	43.88	7.17	58.42	29.48	13.3
111	2007	162	1330	78.2	43.92	7.74	45.65	33.53	13.3
111	2007	162	1345	78.1	45.02	5.912	51.4	29.87	13.3
111	2007	162	1400	78.8	41.54	6.553	45.02	32.76	13.3
111	2007	162	1415	79.8	43.48	6.354	37.2	33.04	13.29
111	2007	162	1430	79.5	43.05	6.886	62.43	27.17	13.29
111	2007	162	1445	80.3	42.95	5.918	66.54	34.94	13.28
111	2007	162	1500	80.5	42.11	5.614	60.17	33.73	13.27
111	2007	162	1515	80.3	43.62	5.896	28.68	40.41	13.27
111	2007	162	1530	80.6	43.15	6.148	38.51	29.26	13.27

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	162	1545	80.6	44.95	5.92	70.1	29.49	13.27
111	2007	162	1600	80.6	43.18	6.309	40.53	31.98	13.27
111	2007	162	1615	80	44.12	6.07	53.7	22.6	13.28
111	2007	162	1630	81.2	44.35	5.59	37.26	35	13.27
111	2007	162	1645	80.2	44.02	5.679	36.95	26.95	13.28
111	2007	162	1700	80.3	44.69	5.479	16.89	35.55	13.28
111	2007	162	1715	80.6	45.86	4.772	4.798	30.89	13.28
111	2007	162	1730	81	42.28	5.485	30.73	26.67	13.28
111	2007	162	1745	80.8	43.38	4.748	11.51	33.5	13.28
111	2007	162	1800	80.3	46.26	4.927	21.5	31.83	13.29
111	2007	162	1815	79	51.54	6.46	6.016	27.11	13.29
111	2007	162	1830	77.4	53.04	5.788	5.125	28.4	13.3
111	2007	162	1845	76.5	53.58	5.614	358.9	21.66	13.31
111	2007	162	1900	76.1	53.89	4.823	8.62	25.89	13.3
111	2007	162	1915	75.4	55.16	5.002	354.3	31.63	13.15
111	2007	162	1930	74.7	56.37	3.97	14.56	30.9	13.08
111	2007	162	1945	74.2	57.07	2.882	14.37	28.54	13.03
111	2007	162	2000	73.7	62.72	4.101	70.7	22.61	12.99
111	2007	162	2015	72.1	69.51	3.265	106.3	17.59	12.96
111	2007	162	2030	71.8	70	2.748	153.2	49.2	12.94
111	2007	162	2045	71.7	78.5	1.798	294.9	31.72	12.92
111	2007	162	2100	69.94	83.5	2.244	301.7	29.72	12.91
111	2007	162	2115	69.1	82.9	2.393	236.1	27.07	12.9
111	2007	162	2130	68.68	82.5	4.047	161.4	31.43	12.89
111	2007	162	2145	68.19	83.5	4.659	154.1	14.51	12.88
111	2007	162	2200	67.89	82.3	3.094	122.8	23.95	12.87
111	2007	162	2215	67.88	82.6	3.434	83	27.92	12.87
111	2007	162	2230	67.49	85.7	4.275	46.71	16.4	12.86
111	2007	162	2245	66.96	87.6	2.731	21.43	29.29	12.85
111	2007	162	2300	66.88	88.4	2.721	19.12	27.17	12.85
111	2007	162	2315	66.69	88.9	2.419	338.4	21.27	12.85
111	2007	162	2330	66.44	89.4	1.84	356.7	43.08	12.84
111	2007	162	2345	66.29	90.2	2.135	8.77	24.61	12.83
111	2007	162	2400	66.21	90.7	2.075	9.6	31.6	12.83
111	2007	163	15	65.99	90.9	1.871	356.9	31.91	12.83
111	2007	163	30	65.81	91.1	1.295	72	26.19	12.83
111	2007	163	45	65.77	91.1	0.491	4.329	29.31	12.81
111	2007	163	100	65.44	91.4	1.182	325.8	17.88	12.81
111	2007	163	115	65.02	91.8	1.432	351.2	32.76	12.81
111	2007	163	130	64.91	91.9	1.327	320.2	40.46	12.81
111	2007	163	145	64.44	92.1	1.867	318.4	17.39	12.8
111	2007	163	200	64.12	92.2	1.06	334.7	32.76	12.79
111	2007	163	215	63.96	92.3	1.177	352.8	26.43	12.79
111	2007	163	230	63.76	92.5	1.557	300.3	24.49	12.78
111	2007	163	245	63.74	92.6	1.694	318.7	23.03	12.78
111	2007	163	300	63.61	92.8	1.206	331.1	26.53	12.78
111	2007	163	315	63.44	92.8	2.111	312.3	21.86	12.77
111	2007	163	330	63.2	93.1	2.721	323.3	18.57	12.76
111	2007	163	345	63.14	93.1	2.534	328	17.92	12.76
111	2007	163	400	62.96	93.2	2.361	351.9	30.4	12.75
111	2007	163	415	62.77	93.1	1.903	339.9	34.96	12.74
111	2007	163	430	62.57	93.3	1.99	339.5	21.12	12.74
111	2007	163	445	62.44	93.4	1.609	338.2	20.15	12.73
111	2007	163	500	62.38	93.5	2.114	344.8	19.48	12.73
111	2007	163	515	62.36	93.4	1.579	333.3	22.27	12.72
111	2007	163	530	62.13	93.4	1.629	316.4	15.66	12.72
111	2007	163	545	62.01	93.5	1.614	336.2	20.55	12.72
111	2007	163	600	61.95	93.6	1.706	327.8	21.62	12.71
111	2007	163	615	62	93.6	1.339	334	22.54	12.7
111	2007	163	630	62.16	93.6	1.841	345.1	37.44	12.7

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	163	645	62.46	93.4	1.915	344	27.58	12.7
111	2007	163	700	62.99	93.4	1.764	339.7	33.3	12.75
111	2007	163	715	63.76	93.1	2.705	5.945	29.36	12.83
111	2007	163	730	65.06	90.4	3.09	26.09	29.28	12.93
111	2007	163	745	67.02	86.1	3.751	40.84	34.18	13.2
111	2007	163	800	68.58	79.4	5.753	53.02	19.71	13.32
111	2007	163	815	68.52	79	6.074	53.33	22.43	13.19
111	2007	163	830	69.84	74.5	5.207	46.72	28.53	13.23
111	2007	163	845	71	70.4	7.04	63.47	24.51	13.29
111	2007	163	900	71.5	69.36	6.68	71.6	30.52	13.29
111	2007	163	915	71.8	68.62	7.37	67.34	23.88	13.37
111	2007	163	930	71.9	67.65	8.41	66.69	22.04	13.34
111	2007	163	945	72.4	66.61	7.48	66.02	24.05	13.32
111	2007	163	1000	72.8	65.47	7.92	71.7	20.97	13.33
111	2007	163	1015	73.1	66.83	7.81	85	24.05	13.37
111	2007	163	1030	74.1	63.09	6.134	77.8	34.6	13.36
111	2007	163	1045	74.5	60.18	8.61	87.6	22.35	13.35
111	2007	163	1100	75.1	58.88	7.2	83.6	29.46	13.35
111	2007	163	1115	75.9	59.65	7.4	78.1	26.67	13.35
111	2007	163	1130	76.8	57.51	7.06	60.03	31.47	13.33
111	2007	163	1145	77	55.23	8.12	58.93	24.96	13.33
111	2007	163	1200	77.3	54.12	7.95	70.5	24.86	13.32
111	2007	163	1215	77.9	51.41	7.85	76.2	24.88	13.32
111	2007	163	1230	77.7	50.58	8.21	64.88	26.12	13.31
111	2007	163	1245	77.7	52.68	7.27	62.49	25.95	13.31
111	2007	163	1300	78.3	51.54	7.22	76.4	22.38	13.3
111	2007	163	1315	78.6	51.14	8.14	82.5	28.07	13.3
111	2007	163	1330	78.9	50.13	8.46	71.2	22.77	13.3
111	2007	163	1345	79.4	47.96	7.44	87.3	29.68	13.29
111	2007	163	1400	78.8	49.33	7.8	67.01	23.13	13.29
111	2007	163	1415	78.8	49.83	7.92	92.4	22.91	13.29
111	2007	163	1430	79.2	50.74	7.2	92.7	29.05	13.29
111	2007	163	1445	78.4	52.57	7.44	96.7	21.9	13.29
111	2007	163	1500	77.6	54.45	6.765	93	28.21	13.3
111	2007	163	1515	74.4	73.8	7.43	150.1	44.9	13.3
111	2007	163	1530	70	75	7.53	199.6	26.44	13.32
111	2007	163	1545	69.92	71.8	7.91	184	19.74	13.33
111	2007	163	1600	69.75	73.5	6.885	173.3	18.02	13.34
111	2007	163	1615	69.16	73.2	6.307	184.5	24.1	13.35
111	2007	163	1630	68.81	74.7	6.777	184.7	18.64	13.37
111	2007	163	1645	68.63	74.4	5.783	200	21.71	13.37
111	2007	163	1700	69.6	73.5	6.426	202.6	20.2	13.37
111	2007	163	1715	69.48	74.2	7.28	199	23.2	13.37
111	2007	163	1730	68.37	74.1	8.11	181.8	20.4	13.37
111	2007	163	1745	68.11	72.3	6.936	178.7	24.5	13.38
111	2007	163	1800	67.22	76	6.045	191.6	23.06	13.31
111	2007	163	1815	66.49	77.1	4.003	212.1	36.38	13.14
111	2007	163	1830	66.13	78.1	3.706	207.5	27.87	13.05
111	2007	163	1845	65.97	81.7	4.029	217.4	22.81	13.01
111	2007	163	1900	65.57	80.8	2.989	232.5	28.65	12.98
111	2007	163	1915	65.42	80.8	2.703	221.9	23.76	12.95
111	2007	163	1930	65.38	80.9	2.351	242	23.62	12.93
111	2007	163	1945	65.24	81.2	2.723	271.1	30.54	12.91
111	2007	163	2000	65.29	80.8	2.915	255.2	21.22	12.93
111	2007	163	2015	65.13	81	2.717	252.6	30.17	12.89
111	2007	163	2030	64.84	81.2	1.798	248.6	30.46	12.88
111	2007	163	2045	64.76	80.9	2.359	272.9	31.99	12.87
111	2007	163	2100	64.57	82.1	1.791	324.3	22.45	12.86
111	2007	163	2115	64.21	83.4	1.406	301.4	24.32	12.85
111	2007	163	2130	63.88	84.3	1.553	281	19.93	12.85

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	163	2145	63.67	85.1	1.322	321.7	19.25	12.84
111	2007	163	2200	63.66	85.2	0.486	104	55.96	12.84
111	2007	163	2215	63.96	84.2	1.038	325.5	23	12.84
111	2007	163	2230	64.23	83.8	1.68	319	21.28	12.83
111	2007	163	2245	64.28	84	2.06	329.2	22.71	12.83
111	2007	163	2300	64.02	84.8	1.037	346.7	23.6	12.82
111	2007	163	2315	63.65	85.5	0.504	347.2	9.19	12.82
111	2007	163	2330	63.14	86.6	0.907	308.8	24.95	12.82
111	2007	163	2345	62.67	87.8	1.546	342.4	21.48	12.81
111	2007	163	2400	62.26	88.5	1.931	341.1	19.25	12.8
111	2007	164	15	62.21	89.3	2.727	342.9	24.95	12.8
111	2007	164	30	62.25	89.6	1.733	341.2	19.38	12.79
111	2007	164	45	62.3	89.8	2.236	347.6	27.43	12.78
111	2007	164	100	62.57	89.6	2.492	352.3	29.49	12.78
111	2007	164	115	62.52	89.8	2.111	27.53	24.98	12.78
111	2007	164	130	62.31	89.9	1.547	343.5	23.83	12.77
111	2007	164	145	61.99	90.2	1.098	327.8	25.69	12.76
111	2007	164	200	61.71	90.6	1.134	346.3	27.63	12.76
111	2007	164	215	61.69	90.8	1.918	2.12	23.8	12.75
111	2007	164	230	61.75	91	1.902	356.1	23.9	12.74
111	2007	164	245	61.87	91.1	1.438	356.9	28.53	12.74
111	2007	164	300	62.07	91	1.395	12.69	34.28	12.73
111	2007	164	315	62.4	91	1.293	47.42	26.13	12.73
111	2007	164	330	62.7	90.1	2.034	57.09	15.62	12.72
111	2007	164	345	62.83	89.1	1.893	49.65	28.86	12.72
111	2007	164	400	62.61	89	1.39	61.97	14.03	12.72
111	2007	164	415	62.17	89	1.841	91.5	18.43	12.71
111	2007	164	430	61.85	88.9	2.19	98	19.69	12.7
111	2007	164	445	62.08	85.7	3.678	106.3	21.35	12.7
111	2007	164	500	62.03	85.2	2.695	104.6	22.6	12.7
111	2007	164	515	61.9	84.2	3.432	102.6	20.7	12.7
111	2007	164	530	61.91	83.4	4.42	112	20.75	12.7
111	2007	164	545	61.78	83.6	3.982	102.8	20.6	12.69
111	2007	164	600	61.68	83.1	3.805	106.9	19.71	12.69
111	2007	164	615	61.84	81.8	3.475	120.4	20.82	12.69
111	2007	164	630	62.2	78.4	5.01	107.9	23.15	12.69
111	2007	164	645	62.36	77	5.336	107.9	23.62	12.69
111	2007	164	700	62.4	77.3	6.662	109.8	18.19	12.71
111	2007	164	715	62.36	77.8	5.943	108.7	23.84	12.72
111	2007	164	730	62.29	77.2	5.27	101.3	23.81	12.71
111	2007	164	745	62.22	77.9	5.538	90.3	29.51	12.7
111	2007	164	800	61.69	79.9	5.481	85.6	23.4	12.74
111	2007	164	815	61.4	81.5	4.915	83.3	19.76	12.8
111	2007	164	830	60.86	85	4.8	87.4	24.66	12.76
111	2007	164	845	60.2	87.4	4.369	88.3	21.76	12.79
111	2007	164	900	60.13	88.5	3.714	102.3	17.92	12.83
111	2007	164	915	59.94	89.6	4.18	90.6	19.99	12.76
111	2007	164	930	59.87	90.2	4.424	108.6	24.44	12.75
111	2007	164	945	59.8	90.6	5.076	101.9	21.39	12.8
111	2007	164	1000	59.79	91.1	4.367	106.8	21.91	12.8
111	2007	164	1015	59.61	90.8	4.968	108	22.97	12.86
111	2007	164	1030	59.07	91.5	4.897	120.9	19.78	12.92
111	2007	164	1045	58.78	91.4	3.612	128.4	28.76	12.86
111	2007	164	1100	58.97	91.1	3.201	94.9	25.23	12.86
111	2007	164	1115	59.37	90.5	3.011	100.7	25.35	13.11
111	2007	164	1130	59.67	86.8	4.972	93	23.78	13.4
111	2007	164	1145	59.93	86.4	4.766	110.9	24.33	13.52
111	2007	164	1200	60.1	85.3	4.289	103.2	22.42	13.52
111	2007	164	1215	60.23	86	3.481	96.8	23.95	13.52
111	2007	164	1230	60.6	85.3	3.485	91.3	25.87	13.52

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	164	1245	60.99	83.6	4.23	88.2	23.77	13.52
111	2007	164	1300	61.27	81.3	4.929	83.5	28.25	13.51
111	2007	164	1315	61.98	78.4	5.115	85.4	26.15	13.49
111	2007	164	1330	62.59	78.7	4.341	87.8	35.73	13.49
111	2007	164	1345	62.35	77	4.611	70.6	26.02	13.48
111	2007	164	1400	62.99	74.7	4.679	94	27.41	13.48
111	2007	164	1415	62.78	76.9	5.657	172.1	25.59	13.47
111	2007	164	1430	61.83	77.8	6.789	179.1	22.15	13.47
111	2007	164	1445	61.39	77.9	4.822	166.2	24.64	13.38
111	2007	164	1500	61.44	77.4	4.275	181.6	19.79	13.49
111	2007	164	1515	62.36	76.2	4.881	177	27.89	13.48
111	2007	164	1530	62.11	77.2	5.189	172.9	22.07	13.48
111	2007	164	1545	61.98	78.3	5.483	172.5	19.69	13.48
111	2007	164	1600	61.71	78.8	5.375	172.1	19.01	13.49
111	2007	164	1615	61.55	79	5.183	161.6	21.84	13.49
111	2007	164	1630	61.65	80.3	4.96	157.8	21.33	13.49
111	2007	164	1645	62.38	67.87	5.213	127.4	44.07	13.49
111	2007	164	1700	62.62	68.71	7.16	111.8	19.8	13.48
111	2007	164	1715	62.76	65.6	6.295	110.4	19.99	13.49
111	2007	164	1730	62.73	64.26	8.08	108.7	23.1	13.49
111	2007	164	1745	62.27	65.63	6.311	108.4	21.51	13.45
111	2007	164	1800	62.13	65.13	8.1	94.4	24.41	13.4
111	2007	164	1815	61.65	63.72	7.53	105.9	24.93	13.16
111	2007	164	1830	61.08	64.99	8.74	107.4	20.31	13.08
111	2007	164	1845	60.47	66.47	8.14	100.5	20.61	13.03
111	2007	164	1900	59.77	67.21	9.62	107.7	21.45	12.99
111	2007	164	1915	59.04	67.88	10.02	103.6	21.11	12.96
111	2007	164	1930	58.43	69.02	8.67	101	21.55	12.94
111	2007	164	1945	57.89	70.1	9	100.1	20.69	12.93
111	2007	164	2000	57.42	69.33	7.73	101.2	23.29	12.92
111	2007	164	2015	57.04	68.33	7.85	100.7	22.47	12.9
111	2007	164	2030	56.72	66.99	7.93	90.3	22.43	12.89
111	2007	164	2045	56.41	68.29	6.589	95.5	24.03	12.88
111	2007	164	2100	56.12	67.69	8.47	92	23.05	12.88
111	2007	164	2115	55.93	67.83	7.27	93.3	21.49	12.87
111	2007	164	2130	55.74	67.93	7.22	96.4	22.67	12.86
111	2007	164	2145	55.53	68.17	6.495	105.6	18.99	12.86
111	2007	164	2200	55.41	67.8	7.65	106.2	21.35	12.85
111	2007	164	2215	55.28	68.41	6.797	105.8	21.52	12.84
111	2007	164	2230	55.16	68.57	6.749	99.8	20.46	12.84
111	2007	164	2245	55.07	68.47	6.624	100.2	21.13	12.83
111	2007	164	2300	55.01	68.84	6.001	94.9	26.68	12.82
111	2007	164	2315	54.97	70.5	6.549	101.1	20.29	12.82
111	2007	164	2330	54.76	70.1	8.73	98.4	20.9	12.81
111	2007	164	2345	54.65	68.07	7.25	102.7	21.58	12.8
111	2007	164	2400	54.64	67.97	4.732	95.9	23.38	12.8
111	2007	165	15	54.67	67.6	4.44	93.2	22.98	12.79
111	2007	165	30	54.8	66.97	5.097	87.3	23.25	12.78
111	2007	165	45	54.9	67.87	4.794	81.3	25.54	12.78
111	2007	165	100	54.9	68.31	4.365	81.4	21.43	12.77
111	2007	165	115	54.99	68.57	4.522	73.3	24.95	12.75
111	2007	165	130	55.08	69.08	4.246	76.1	17.21	12.75
111	2007	165	145	55.12	69.04	4.601	70.7	20.69	12.74
111	2007	165	200	55.19	69.48	5.103	75.4	18.63	12.73
111	2007	165	215	55.21	70.3	3.95	74.3	25.2	12.72
111	2007	165	230	55.26	70.2	4.325	76.4	22.56	12.72
111	2007	165	245	55.33	70.4	4.69	77.2	23.78	12.7
111	2007	165	300	55.33	70.7	4.718	72.4	28.5	12.7
111	2007	165	315	55.34	71.7	4.557	65.95	20.46	12.69
111	2007	165	330	55.23	72.1	4.579	56.34	25.97	12.68

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	165	345	55.23	71.9	5.103	65.53	19.83	12.68
111	2007	165	400	55.32	71.8	5.187	73.8	23.66	12.67
111	2007	165	415	55.38	72.4	4.798	75.7	25.01	12.67
111	2007	165	430	55.26	72.8	5.274	74	19.97	12.67
111	2007	165	445	55.01	74.1	4.522	56.76	22.09	12.66
111	2007	165	500	54.83	74.9	4.679	70.1	21.79	12.66
111	2007	165	515	54.84	74.9	4.986	78.8	25.67	12.66
111	2007	165	530	54.94	75.2	5.415	80.9	21.75	12.66
111	2007	165	545	54.96	75.5	5.638	78.4	19.15	12.66
111	2007	165	600	55.02	75.8	5.173	76	23.97	12.66
111	2007	165	615	55.11	75.8	5.103	65.7	21.98	12.66
111	2007	165	630	55.24	75.3	5.52	86.6	20.31	12.66
111	2007	165	645	55.39	74.9	5.103	84.6	27.35	12.66
111	2007	165	700	55.56	74.9	3.97	94.4	28.35	12.72
111	2007	165	715	55.41	76.2	4.133	71.5	23.8	12.68
111	2007	165	730	55.48	76.3	3.942	61.1	29.12	12.68
111	2007	165	745	55.95	74.6	4.285	60.25	21.37	12.96
111	2007	165	800	56.29	73.9	4.565	73.3	28.66	13.14
111	2007	165	815	56.76	71.9	5.024	84.4	25.79	13.34
111	2007	165	830	57.14	72	4.661	82.9	25.11	13.46
111	2007	165	845	57.01	71.1	5.88	82.8	23.36	13.46
111	2007	165	900	57.1	71.7	6.152	93.5	25.08	13.45
111	2007	165	915	57.11	72.5	4.829	83.8	26.26	13.45
111	2007	165	930	57.73	72.2	5.34	66.4	24.75	13.56
111	2007	165	945	57.9	71.2	5.173	70.4	29.01	13.55
111	2007	165	1000	58.6	66.55	4.486	67.92	29.88	13.54
111	2007	165	1015	58.94	68.32	5.105	68.15	25.08	13.53
111	2007	165	1030	58.7	68.95	4.532	69.93	29.46	13.53
111	2007	165	1045	58.27	69.32	6.104	58.71	21.45	13.43
111	2007	165	1100	58.96	63.17	5.959	73.1	27.41	13.52
111	2007	165	1115	59.65	63.33	5.725	110.9	26.84	13.51
111	2007	165	1130	59.44	63.97	5.9	105.3	23.9	13.52
111	2007	165	1145	59.57	62.4	7.79	113.7	20.54	13.52
111	2007	165	1200	59.63	62.8	7.3	110.2	20.21	13.53
111	2007	165	1215	59.98	62.09	6.95	107.1	27.61	13.52
111	2007	165	1230	59.98	63.26	6.742	99.1	27.42	13.52
111	2007	165	1245	60.14	63.73	4.814	103.5	27.14	13.52
111	2007	165	1300	59.52	65.87	5.687	98.2	23.79	13.52
111	2007	165	1315	59.51	65.47	4.726	69.06	22.89	13.53
111	2007	165	1330	59.91	64.47	4.891	65.91	24.77	13.53
111	2007	165	1345	60.35	64.57	5.018	54.98	27.22	13.52
111	2007	165	1400	60.13	66.48	4.216	71.9	27.77	13.52
111	2007	165	1415	60.62	64.33	5.858	50.42	24.51	13.52
111	2007	165	1430	60.83	64.2	6.374	65.06	25.66	13.51
111	2007	165	1445	60.85	63.76	6.062	51.94	26.38	13.51
111	2007	165	1500	60.99	63.56	5.316	53.51	25.38	13.51
111	2007	165	1515	61.6	64.66	4.643	73.3	26.51	13.51
111	2007	165	1530	61.85	64.43	5.947	49.25	22.42	13.5
111	2007	165	1545	61.58	64.43	4.522	69.95	24.09	13.5
111	2007	165	1600	61.73	63.12	4.823	74.4	22.2	13.51
111	2007	165	1615	62.01	64.53	5.225	60.76	27.81	13.33
111	2007	165	1630	62.16	62.25	5.387	66.6	27.46	13.5
111	2007	165	1645	62.58	62.12	6.454	66.52	26.56	13.47
111	2007	165	1700	61.86	63.39	5.667	74.9	23.53	13.48
111	2007	165	1715	61.93	61.72	5.951	68.8	20.21	13.41
111	2007	165	1730	62.21	61.15	5.483	67.55	20.77	13.51
111	2007	165	1745	62.51	62.35	5.923	81.1	24.09	13.5
111	2007	165	1800	62.19	62.18	5.354	81.5	24.26	13.5
111	2007	165	1815	62.21	62.75	5.586	112.2	23.96	13.5
111	2007	165	1830	62.19	63.72	5.989	93.3	26.09	13.51

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	165	1845	61.97	64.26	4.935	95.9	24.2	13.27
111	2007	165	1900	61.8	62.89	5.918	116.3	20.91	13.16
111	2007	165	1915	61.47	61.62	4.976	118.5	24.25	13.21
111	2007	165	1930	60.5	76.6	3.853	167.1	25.4	13.11
111	2007	165	1945	59.52	76.8	3.994	166	20.66	13.11
111	2007	165	2000	59.28	78.4	3.757	154.6	18.81	13.16
111	2007	165	2015	58.66	77.7	2.955	152.1	12.96	13.07
111	2007	165	2030	58.47	77.9	1.905	187.4	14.61	13.01
111	2007	165	2045	57.99	80.4	1.213	323.2	18.54	12.97
111	2007	165	2100	56.93	82.5	1.25	334.5	13.59	12.94
111	2007	165	2115	56.17	84.2	1.01	39.26	18.55	12.92
111	2007	165	2130	56.08	84.6	0.866	24.78	24.89	12.9
111	2007	165	2145	56.57	82.3	1.359	63.31	17.9	12.88
111	2007	165	2200	57.45	74.9	2.328	96	20.34	12.88
111	2007	165	2215	58.07	72.5	2.516	109.9	18.32	12.87
111	2007	165	2230	58.13	72.6	1.777	106.5	18.4	12.87
111	2007	165	2245	58.24	70.8	2.436	119.7	28.41	12.86
111	2007	165	2300	58.55	68.56	4.164	131.6	18.13	12.86
111	2007	165	2315	58.61	68.09	4.268	130.6	15.47	12.86
111	2007	165	2330	58.48	68.9	2.282	113.6	28.86	12.86
111	2007	165	2345	58.3	70.3	1.889	91.3	21.62	12.85
111	2007	165	2400	58.09	70.7	1.608	86.9	21.24	12.85
111	2007	166	15	57.99	69.77	2.244	101.6	17.04	12.85
111	2007	166	30	57.92	70.7	1.522	87.7	21.4	12.84
111	2007	166	45	57.79	71	1.571	71.8	15.48	12.84
111	2007	166	100	57.81	70.7	1.837	68.03	18.9	12.84
111	2007	166	115	57.94	71.1	2.068	79.7	18.69	12.84
111	2007	166	130	57.93	71.3	0.888	92.8	15.41	12.83
111	2007	166	145	57.89	72.3	0.83	95.9	20.75	12.82
111	2007	166	200	57.76	72.8	1.417	95.1	19.63	12.82
111	2007	166	215	57.59	73.2	2.369	106.6	15.78	12.82
111	2007	166	230	57.4	74.3	2.036	107.4	17.43	12.81
111	2007	166	245	57.27	74.9	2.536	101.1	22.35	12.81
111	2007	166	300	57.05	75.3	2.306	108.3	17.1	12.8
111	2007	166	315	56.98	75.8	1.868	91.6	18.34	12.8
111	2007	166	330	56.94	75.9	1.393	82	20.57	12.79
111	2007	166	345	56.92	76.3	1.871	81.1	22.29	12.78
111	2007	166	400	56.87	76.6	1.752	65.74	22.23	12.78
111	2007	166	415	56.86	76.3	2.22	50.95	17.79	12.77
111	2007	166	430	56.85	76.5	2.308	62.62	18.76	12.76
111	2007	166	445	56.83	77.1	1.665	65.31	21.8	12.76
111	2007	166	500	56.78	76.9	2.899	73	20.48	12.75
111	2007	166	515	56.75	76.6	4.458	69.38	19.55	12.74
111	2007	166	530	56.63	76.3	3.998	75	21.71	12.74
111	2007	166	545	56.3	76.3	4.204	72	24.92	12.73
111	2007	166	600	56.03	76.8	3.644	79.4	22.35	12.72
111	2007	166	615	56.22	77.1	3.755	73.8	23.97	12.71
111	2007	166	630	56.61	76	3.497	82.8	25.42	12.71
111	2007	166	645	56.31	78.2	4.712	60.93	24.99	12.72
111	2007	166	700	56.29	77.6	3.89	78.2	28.71	12.72
111	2007	166	715	56.51	77.3	5.048	72.5	21.33	12.72
111	2007	166	730	56.64	77.8	3.785	83.9	24.91	12.78
111	2007	166	745	56.57	76.4	4.897	88.5	24.99	12.84
111	2007	166	800	57.09	75.3	4.542	106.2	23.75	13.26
111	2007	166	815	57.49	74.1	4.871	96.1	28.39	13.54
111	2007	166	830	58.07	71.6	4.049	101.8	29.65	13.54
111	2007	166	845	59.08	70.2	5.109	87.7	38.75	13.52
111	2007	166	900	59.36	69.02	4.837	64.81	30.75	13.52
111	2007	166	915	60.4	68.28	4.851	99.1	35.45	13.5
111	2007	166	930	60.81	69.25	5.217	77.3	28.73	13.43

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	166	945	61.29	68.17	4.976	72.2	26.85	13.42
111	2007	166	1000	61.54	67.7	5.991	79.7	37.43	13.39
111	2007	166	1015	62.62	64.19	4.744	52.67	45.62	13.47
111	2007	166	1030	62	67.3	5.59	46	29.16	13.47
111	2007	166	1045	62.82	65.03	5.078	98.7	38.9	13.46
111	2007	166	1100	63.25	63.85	5.165	70.2	33.7	13.45
111	2007	166	1115	63.71	64.12	4.845	76.5	33.15	13.45
111	2007	166	1130	63.19	63.34	5.6	58.72	34.11	13.45
111	2007	166	1145	63.95	60.97	5.427	67.71	33.6	13.44
111	2007	166	1200	64.23	63.71	4.381	58.37	39.76	13.44
111	2007	166	1215	65.02	60.43	4.506	76.6	30.97	13.43
111	2007	166	1230	64.16	72.7	5.217	147.1	78.7	13.43
111	2007	166	1245	62.12	72.3	6.885	201.9	19.67	13.43
111	2007	166	1300	61.98	71.2	6.914	202.3	24.47	13.44
111	2007	166	1315	62.09	73.9	6.829	221.4	27.51	13.45
111	2007	166	1330	62.14	73	7.06	202.2	29.04	13.45
111	2007	166	1345	62.29	69.13	6.795	206.5	29.29	13.45
111	2007	166	1400	62.36	69.1	6.92	216.2	22.5	13.45
111	2007	166	1415	62.8	64.11	6.263	209.3	26.82	13.45
111	2007	166	1430	62.88	62.34	6.539	209.5	24.63	13.45
111	2007	166	1445	63.23	62.84	6.319	212.7	28.57	13.44
111	2007	166	1500	63.23	62.51	6.829	212.4	25.22	13.44
111	2007	166	1515	63.27	62.81	7.52	209.7	28.42	13.44
111	2007	166	1530	63.07	62.44	6.986	204.3	21.83	13.44
111	2007	166	1545	62.93	63.11	6.857	218.7	23.2	13.44
111	2007	166	1600	62.87	63.71	7.19	200.3	26.99	13.43
111	2007	166	1615	63.17	63.08	6.36	219.5	29.48	13.44
111	2007	166	1630	63.8	60.37	5.209	212	26.09	13.43
111	2007	166	1645	64.04	62.41	5.391	213.3	26.97	13.43
111	2007	166	1700	63.89	62.04	5.8	211.7	25.42	13.43
111	2007	166	1715	64.29	60.93	5.169	230.6	35.5	13.43
111	2007	166	1730	64.25	61.64	5.211	233	24.91	13.43
111	2007	166	1745	64.18	63.58	5.217	236.1	25.77	13.43
111	2007	166	1800	64.85	61.84	5.183	267.4	31.48	13.43
111	2007	166	1815	64.44	62.37	4.853	255.4	31.37	13.43
111	2007	166	1830	63.93	61.3	4.74	262.2	29.4	13.45
111	2007	166	1845	63.7	62.34	4.44	262.1	30.07	13.45
111	2007	166	1900	63.33	64.75	4.843	251	27.6	13.46
111	2007	166	1915	62.77	64.92	4.772	264.6	28.19	13.46
111	2007	166	1930	62.67	65.79	5.113	281.6	25.32	13.47
111	2007	166	1945	61.99	67.97	3.789	250.5	23.67	13.47
111	2007	166	2000	61.06	69.91	3.59	266.8	25.33	13.2
111	2007	166	2015	60.57	71	3.374	278.6	23.88	13.07
111	2007	166	2030	60.13	72.7	3.05	282.2	17.22	13.01
111	2007	166	2045	59.65	74.5	2.568	277.5	24.25	12.97
111	2007	166	2100	59.24	75.6	2.041	274.6	17.14	12.94
111	2007	166	2115	58.81	77.1	1.837	268.3	19.76	12.91
111	2007	166	2130	58.46	78	1.807	304.4	22.99	12.9
111	2007	166	2145	58.41	77.9	1.538	320.9	21.17	12.88
111	2007	166	2200	58.17	78.7	1.905	325.1	16.12	12.87
111	2007	166	2215	57.86	79.3	1.635	323.6	19.79	12.86
111	2007	166	2230	57.57	80.6	1.504	290.1	21.14	12.85
111	2007	166	2245	57.16	81.9	1.346	316	19.65	12.84
111	2007	166	2300	57.02	82.8	1.046	295.8	23.11	12.84
111	2007	166	2315	56.67	83.9	0.618	310.1	19.05	12.83
111	2007	166	2330	56.53	84.6	1.03	286.7	21.2	12.82
111	2007	166	2345	56.56	84.6	1.432	301.8	21.58	12.82
111	2007	166	2400	56.67	84.6	0.709	305.2	17.86	12.82
111	2007	167	15	56.75	85	2.112	292.2	20.74	12.81
111	2007	167	30	57.56	83.5	2.205	311.8	20.7	12.81

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	167	45	57.65	83.4	1.591	317.8	18.89	12.8
111	2007	167	100	57.17	84.4	1.286	341.2	13.53	12.8
111	2007	167	115	56.62	85.3	1.128	297.2	15.39	12.8
111	2007	167	130	56.13	86.6	0.773	306.7	21.17	12.79
111	2007	167	145	56.24	86.9	0.525	308	16.74	12.79
111	2007	167	200	56.15	87.3	na	na	na	12.78
111	2007	167	215	55.7	87.7	0.721	336.1	8.62	12.78
111	2007	167	230	55.34	88.3	0.356	329.3	4.539	12.77
111	2007	167	245	55.17	88.8	na	na	na	12.77
111	2007	167	300	55.03	89.4	na	na	na	12.76
111	2007	167	315	55.29	89.5	na	na	na	12.76
111	2007	167	330	55.12	89.9	0.27	332	3.081	12.75
111	2007	167	345	54.99	90	0.405	320.6	24.62	12.74
111	2007	167	400	54.78	90.5	0.562	284.6	44.46	12.74
111	2007	167	415	54.5	90.4	0.748	354.8	23.92	12.73
111	2007	167	430	54.02	90.8	0.051	353.5	2.464	12.72
111	2007	167	445	53.83	91	0.339	329.3	4.899	12.72
111	2007	167	500	53.53	91.2	1.047	278.8	14	12.71
111	2007	167	515	53.28	91.7	0.849	317.4	21.54	12.7
111	2007	167	530	53.37	91.7	1.156	298.8	26.11	12.7
111	2007	167	545	53.67	91.8	0.507	335.6	16.6	12.69
111	2007	167	600	54.15	92.4	0.445	289.4	20.14	12.68
111	2007	167	615	55.54	91.8	0.365	279.3	16.63	12.68
111	2007	167	630	56.66	91.4	0.061	222.7	3.838	12.68
111	2007	167	645	58.57	89.4	0.937	239.2	31.32	12.7
111	2007	167	700	60.15	86.1	2.268	275	18.38	12.73
111	2007	167	715	61.77	82	2.866	291.4	18.05	12.77
111	2007	167	730	63.32	78.2	4.089	293.5	16.51	12.82
111	2007	167	745	64.22	76.9	4.724	284.8	22.92	12.88
111	2007	167	800	64.68	75.6	4.798	299.7	22.37	12.91
111	2007	167	815	65.43	74.4	5.447	292.2	19.39	12.97
111	2007	167	830	66	73.9	5.101	295.4	20.07	13.03
111	2007	167	845	66.6	73	5.133	264.5	25.51	13.1
111	2007	167	900	67.12	71.7	5.491	292.9	22.28	13.23
111	2007	167	915	67.71	69.23	5.471	294.6	17.65	13.41
111	2007	167	930	68.68	68.73	6.005	281.5	23.73	13.42
111	2007	167	945	69.1	70.1	5.997	277	24.89	13.41
111	2007	167	1000	69.08	69.99	6.041	274	27.89	13.4
111	2007	167	1015	69.73	68.49	5.375	265.8	28.21	13.39
111	2007	167	1030	69.79	70.5	6.174	258.8	23.98	13.38
111	2007	167	1045	70	69.02	5.425	257.1	29.07	13.39
111	2007	167	1100	70.3	67.41	6.654	262.5	32.7	13.38
111	2007	167	1115	70.3	66.64	7.36	268.2	26.88	13.39
111	2007	167	1130	70.3	67.15	7.72	270.4	27.82	13.38
111	2007	167	1145	70.4	69.35	7.33	256.2	30.6	13.38
111	2007	167	1200	69.92	71.6	7.44	244.6	24.59	13.37
111	2007	167	1215	69.54	69.28	7.26	249.1	23.62	13.38
111	2007	167	1230	69.63	66.54	7.22	257.3	28.49	13.37
111	2007	167	1245	70.1	69.58	8.17	268	32.55	13.37
111	2007	167	1300	70.3	64.8	7.74	273.5	27.38	13.37
111	2007	167	1315	70.8	63.73	7.6	262	23.46	13.37
111	2007	167	1330	71.4	63.86	7.85	268.8	27.8	13.37
111	2007	167	1345	71.7	60.89	7.14	266	31.01	13.37
111	2007	167	1400	72.3	59.58	6.968	255.1	27.75	13.37
111	2007	167	1415	71.5	57.17	9.15	262.5	24.78	13.37
111	2007	167	1430	72.4	56	8.4	273.8	26.38	13.37
111	2007	167	1445	72	60.31	7.29	264.6	28.54	13.37
111	2007	167	1500	71.5	66.1	7.78	251.8	29.55	13.37
111	2007	167	1515	71.1	64.23	7.25	257.8	25.58	13.36
111	2007	167	1530	70.6	68.87	6.92	244.3	25.35	13.36

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	167	1545	70.6	66.67	6.603	240.2	27.39	13.35
111	2007	167	1600	70.4	68.61	6.622	235.2	30.61	13.36
111	2007	167	1615	69.56	70.8	6.9	253.3	27.05	13.36
111	2007	167	1630	69.05	72.6	7.7	268.3	27.82	13.36
111	2007	167	1645	68.18	76.6	8.2	260.9	28.98	13.37
111	2007	167	1700	67.42	77.5	7.9	252.2	27.41	13.38
111	2007	167	1715	67.23	75.9	7.83	250	27.89	13.38
111	2007	167	1730	67.35	75.5	7.88	257.9	25.32	13.39
111	2007	167	1745	67.77	74.7	7.47	266.4	28.66	13.39
111	2007	167	1800	67.33	75.5	7.32	264.7	31.76	13.4
111	2007	167	1815	67.44	75.8	7.21	271.9	32.77	13.41
111	2007	167	1830	67.46	75.4	6.916	267.2	32.27	13.41
111	2007	167	1845	66.9	77.5	5.669	260.3	31.68	13.41
111	2007	167	1900	66.16	78.7	5.683	261.4	28.68	13.43
111	2007	167	1915	65.65	80.5	3.954	236.9	32.62	13.43
111	2007	167	1930	65.45	81.3	2.871	269.3	39.92	13.11
111	2007	167	1945	65.66	81.6	3.42	237.2	34.27	13.18
111	2007	167	2000	65.33	83.1	3.096	212.7	37.72	13.11
111	2007	167	2015	64.92	84.8	3.795	213.9	22.66	13.03
111	2007	167	2030	64.67	85.9	4.347	203	19.73	12.99
111	2007	167	2045	64.55	86.3	4.095	197.3	21.6	12.95
111	2007	167	2100	64.41	86.4	4.696	209.3	21.79	12.93
111	2007	167	2115	64.08	87	5.175	207.6	20.35	12.91
111	2007	167	2130	63.77	87.7	4.24	210.6	22.14	12.89
111	2007	167	2145	63.62	88.2	5.505	212.7	17.01	12.89
111	2007	167	2200	63.31	89.1	5.509	216.8	18.61	12.87
111	2007	167	2215	63.02	89.7	3.88	231.2	21.89	12.87
111	2007	167	2230	62.79	90.3	3.291	248.6	22.93	12.86
111	2007	167	2245	62.58	90.7	2.745	253.5	24.53	12.86
111	2007	167	2300	62.46	90.9	2.256	266	25.15	12.85
111	2007	167	2315	62.46	91.1	2.768	263.6	22.48	12.85
111	2007	167	2330	62.58	91.3	3.175	274.7	22.32	12.84
111	2007	167	2345	62.65	91.3	3.162	279.5	23.49	12.84
111	2007	167	2400	62.72	91.3	3.217	272.4	23.03	12.84
111	2007	168	15	62.8	91.2	2.693	281.3	28.85	12.83
111	2007	168	30	62.77	91.3	2.143	288.2	26.42	12.83
111	2007	168	45	62.66	91.4	2.209	268.6	25.3	12.82
111	2007	168	100	62.54	91.6	2.375	297.7	14.95	12.82
111	2007	168	115	62.69	91.7	3.499	293.7	16.16	12.81
111	2007	168	130	62.56	91.7	2.622	292.9	17.76	12.81
111	2007	168	145	62.26	91.8	2.355	327.9	23.65	12.81
111	2007	168	200	62.14	91.9	2.423	311.7	24.73	12.8
111	2007	168	215	62.23	92	2.494	324.1	20.26	12.8
111	2007	168	230	62.14	92.1	2.498	314	18.65	12.8
111	2007	168	245	62.18	92.2	2.161	316.8	22.6	12.79
111	2007	168	300	62.22	91.8	1.905	322.4	16.52	12.78
111	2007	168	315	62.01	91.6	1.225	316.3	23.2	12.78
111	2007	168	330	61.68	91.5	1.212	297	18.97	12.77
111	2007	168	345	61.49	91.4	1.284	314	16.45	12.76
111	2007	168	400	61.39	91.2	1.958	320.5	20.46	12.76
111	2007	168	415	61.31	90.8	1.909	308.3	14.47	12.75
111	2007	168	430	61.1	91.1	1.557	318.3	20.61	12.74
111	2007	168	445	61.25	90.6	1.416	319.7	35.13	12.74
111	2007	168	500	61.07	90.7	1.5	306.9	16.43	12.73
111	2007	168	515	60.81	90.7	0.228	301.8	5.836	12.72
111	2007	168	530	60.49	90.8	0.009	309.1	0	12.72
111	2007	168	545	60.17	91.1	0.682	309	5.341	12.71
111	2007	168	600	60.13	91.7	0.184	312.6	3.46	12.71
111	2007	168	615	61.06	91.4	0.756	326.6	14.14	12.7
111	2007	168	630	62.41	89.8	1.482	316	19.68	12.7

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	168	645	63.5	87.5	2.232	325.2	19.3	12.7
111	2007	168	700	64.65	83.9	2.403	321.9	25.52	12.72
111	2007	168	715	65.49	81.7	3.265	325.3	22.05	12.76
111	2007	168	730	66.87	77.6	3.422	317.4	26.42	12.8
111	2007	168	745	68.01	75.1	3.608	319.9	24.73	12.83
111	2007	168	800	69.06	72.1	3.6	346.6	34.58	12.89
111	2007	168	815	70	69.2	3.773	351.6	34.13	12.97
111	2007	168	830	71.1	67.06	3.666	357.5	33.21	13.03
111	2007	168	845	72.5	60.29	3.723	18.88	30.36	13.05
111	2007	168	900	73.9	58.12	2.965	18.51	49.41	13.07
111	2007	168	915	75.2	55.44	3.849	350.8	34.23	13.1
111	2007	168	930	75.7	53.9	3.461	7.08	30.66	13.13
111	2007	168	945	77.5	49.58	3.567	329.2	41.37	13.16
111	2007	168	1000	78.1	49.92	4.843	300.1	25.68	13.21
111	2007	168	1015	78.4	47.87	4.972	320.3	34.25	13.32
111	2007	168	1030	79	45.86	4.601	350.6	36	13.31
111	2007	168	1045	80.1	43.15	4.583	350	42.95	13.3
111	2007	168	1100	80.5	45.02	4.25	306.6	35.07	13.3
111	2007	168	1115	81.4	41.31	3.954	336.6	52.14	13.3
111	2007	168	1130	81.7	40.84	5.427	332.4	38.26	13.29
111	2007	168	1145	82	41.28	5.888	325.1	31.25	13.28
111	2007	168	1200	82.2	39.87	5.558	354.3	29.95	13.28
111	2007	168	1215	82.7	38.3	5.872	350.9	29.82	13.28
111	2007	168	1230	83.1	38.94	5.681	358.4	38.67	13.27
111	2007	168	1245	84	37.2	5.403	333.3	35.15	13.27
111	2007	168	1300	83.9	32.85	5.975	332	31.75	13.26
111	2007	168	1315	84.6	32.75	6.092	332.9	42.81	13.26
111	2007	168	1330	85.1	31.48	6.164	321.9	40.11	13.26
111	2007	168	1345	85.2	31.85	5.681	347.9	38.77	13.26
111	2007	168	1400	85.5	32.02	6.898	356	39.2	13.25
111	2007	168	1415	85.7	31.95	6.849	346.6	34.16	13.24
111	2007	168	1430	85.6	31.71	6.404	312.3	37.4	13.24
111	2007	168	1445	85.7	42.07	7.69	278.3	26.91	13.24
111	2007	168	1500	85.2	33.58	5.165	287.5	43.9	13.24
111	2007	168	1515	84.9	42.57	7.29	290.3	28.06	13.24
111	2007	168	1530	83.4	44.31	7.57	267.8	28.46	13.24
111	2007	168	1545	82.5	46.52	8.19	272.9	21.94	13.24
111	2007	168	1600	82.2	45.31	6.057	258.2	26.15	13.24
111	2007	168	1615	82.2	45.32	7.38	272.9	31.67	13.25
111	2007	168	1630	80.8	50.6	7.32	267	27.44	13.25
111	2007	168	1645	79.7	50.8	7.95	285.8	23.84	13.26
111	2007	168	1700	79.8	51.27	6.575	278.1	27.5	13.26
111	2007	168	1715	78.8	55.35	7.16	268.5	24.54	13.27
111	2007	168	1730	77.4	57.42	7	281.9	22.54	13.28
111	2007	168	1745	77.1	56.08	6.188	267.9	26.39	13.29
111	2007	168	1800	77.9	55.12	5.646	279.4	26.58	13.3
111	2007	168	1815	77.7	56.02	6.402	267.7	25.87	13.3
111	2007	168	1830	77.5	56.56	6.342	271.3	19.57	13.3
111	2007	168	1845	77.4	57.53	5.602	268.6	21.93	13.31
111	2007	168	1900	76.6	58.93	5.554	262.5	21.93	13.31
111	2007	168	1915	75.9	60.07	4.818	266.8	21.39	13.32
111	2007	168	1930	75.4	59.84	4.268	269.8	21.48	13.33
111	2007	168	1945	75.1	60.51	5.229	278.7	20.51	13.23
111	2007	168	2000	74.7	60.01	6.245	280.8	19.05	13.09
111	2007	168	2015	74.2	60.48	5.344	282.7	20.96	13.03
111	2007	168	2030	73.8	62.86	4.792	281	19.89	12.99
111	2007	168	2045	73.1	66.27	3.297	270.5	25.16	12.95
111	2007	168	2100	72.6	67.38	3.318	281.1	17.31	12.93
111	2007	168	2115	72.6	67.88	3.036	282.4	18.01	12.92
111	2007	168	2130	72.6	68.58	3.662	295.8	12.71	12.91

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	168	2145	72.5	70	4.561	291	13.96	12.89
111	2007	168	2200	72.2	71.3	3.59	296.5	17.08	12.89
111	2007	168	2215	72	72.6	3.557	289.8	15.84	12.87
111	2007	168	2230	71.6	74.4	2.657	281.7	20.76	12.87
111	2007	168	2245	71.3	75.8	3.215	292	16.57	12.86
111	2007	168	2300	71.4	76.1	2.197	313.3	19.97	12.86
111	2007	168	2315	71.2	77.3	2.014	328.6	14.85	12.85
111	2007	168	2330	70.9	78.2	1.625	328.1	17.88	12.85
111	2007	168	2345	70.5	79.3	1.555	318.7	24.93	12.84
111	2007	168	2400	70.2	80.4	2.06	334.2	10.79	12.84
111	2007	169	15	70.3	79.1	1.998	345.3	16.25	12.83
111	2007	169	30	70.5	79	1.574	327.5	19.58	12.83
111	2007	169	45	70.2	78.9	1.447	340.7	25.52	12.82
111	2007	169	100	70.4	79.1	1.249	311.3	22.79	12.82
111	2007	169	115	70.6	76.4	2.225	44.83	71.8	12.81
111	2007	169	130	71	76.1	1.085	11.49	55.48	12.81
111	2007	169	145	70.4	77.7	0.969	357.9	22.64	12.81
111	2007	169	200	69.66	79.2	0.749	74.8	12.75	12.8
111	2007	169	215	69.36	79.7	0.176	1.139	19.55	12.79
111	2007	169	230	69.55	77.8	1.598	46.98	19.07	12.79
111	2007	169	245	70.4	74.8	2.49	34.23	24.63	12.78
111	2007	169	300	71.4	70.8	2.826	49.05	19.97	12.77
111	2007	169	315	72.1	69.67	2.592	47.91	21.71	12.77
111	2007	169	330	71.9	70.7	2.141	14.54	25.83	12.77
111	2007	169	345	71.1	71.6	2.483	8.39	24.44	12.76
111	2007	169	400	70.9	71.7	2.536	10.64	32.29	12.76
111	2007	169	415	70.4	73	2.256	7.84	31.33	12.75
111	2007	169	430	70.1	73.1	1.958	9.1	34.61	12.75
111	2007	169	445	69.74	74.1	1.749	357.4	30.56	12.74
111	2007	169	500	69.33	74.9	1.847	346.6	27.06	12.74
111	2007	169	515	68.64	76.6	1.833	353.2	20.84	12.73
111	2007	169	530	68.14	77.6	1.488	353.3	27.92	12.73
111	2007	169	545	68.16	77.1	1.413	24.08	35.56	12.73
111	2007	169	600	68.81	75.2	2.469	51.52	22.27	12.73
111	2007	169	615	69.45	74.3	2.719	52.58	22.11	12.72
111	2007	169	630	69.72	73.5	3.144	56.76	23.09	12.73
111	2007	169	645	70.1	72.4	4.037	70.7	20.91	12.73
111	2007	169	700	70.5	70	3.586	73	22.48	12.73
111	2007	169	715	71.3	67.26	4.176	75.5	18.91	12.8
111	2007	169	730	71.8	64.71	4.399	54.22	21.16	12.86
111	2007	169	745	72.1	62.84	5.463	63.06	25.92	12.89
111	2007	169	800	72.7	62.1	5.649	61.65	21.71	12.94
111	2007	169	815	73	60.46	6.589	79.8	25.33	12.97
111	2007	169	830	73.6	59.18	5.185	78.8	23.21	13.02
111	2007	169	845	74.3	57.64	5.721	92.7	27.16	13.05
111	2007	169	900	74.3	53.9	6.045	92.8	27.65	13.09
111	2007	169	915	74.3	54.6	7.26	98.2	19.58	13.13
111	2007	169	930	74.8	51.69	6.559	90.1	23.47	13.18
111	2007	169	945	75.3	49.25	7.05	98.3	19.27	13.21
111	2007	169	1000	75.3	43.76	7.44	98.8	25.17	13.27
111	2007	169	1015	75.6	38.72	6.386	103.8	26.71	13.33
111	2007	169	1030	76.1	32.56	6.64	97.3	30.29	13.33
111	2007	169	1045	76.4	33.63	5.107	73.7	24.52	13.31
111	2007	169	1100	77	34.53	5.03	103.6	24.16	13.31
111	2007	169	1115	77.2	37.04	4.375	92.4	48.34	13.31
111	2007	169	1130	77.3	54.02	5.505	138.9	43.7	13.31
111	2007	169	1145	74	58.47	8.26	184.4	28.29	13.31
111	2007	169	1200	73.2	61.88	7.97	180.6	25.46	13.31
111	2007	169	1215	71.9	61.61	9.13	172.5	21.9	13.32
111	2007	169	1230	71.5	61.72	8.72	175.2	20.84	13.33

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	169	1245	71.3	61.22	9.85	167.8	18.14	13.33
111	2007	169	1300	71.3	60.25	8.68	182.2	26.49	13.34
111	2007	169	1315	71.1	61.12	7.94	188.9	25.06	13.35
111	2007	169	1330	70.9	61.05	8.19	185.4	22.84	13.34
111	2007	169	1345	70.4	61.18	9.29	177.2	23.54	13.35
111	2007	169	1400	71	61.05	7.84	184.9	23.88	13.35
111	2007	169	1415	70.9	58.84	8.17	195.2	22.34	13.35
111	2007	169	1430	70.7	59.71	8.29	181.2	23.98	13.35
111	2007	169	1445	70.7	60.62	7.48	206.2	23.94	13.35
111	2007	169	1500	70.6	64.63	7.6	206.5	23.16	13.35
111	2007	169	1515	70.3	61.42	7.08	212.5	19.56	13.35
111	2007	169	1530	70.1	62.59	7.04	204	26.27	13.35
111	2007	169	1545	69.96	63.66	7.02	196.6	24.53	13.35
111	2007	169	1600	69.95	62.72	7.05	197.5	24.96	13.36
111	2007	169	1615	69.62	63.32	6.938	216.2	21.04	13.36
111	2007	169	1630	69.84	63.82	6.601	233.9	28.62	13.36
111	2007	169	1645	69.52	64.73	6.605	215.8	25.81	13.36
111	2007	169	1700	69.39	63.52	6.886	223.9	23.61	13.36
111	2007	169	1715	69.51	65.6	5.81	227.3	26.86	13.36
111	2007	169	1730	69.46	65.46	6.644	242.1	28.89	13.37
111	2007	169	1745	69.29	65.66	6.15	229.1	26.03	13.37
111	2007	169	1800	69.29	66.2	6.211	223.4	23.91	13.37
111	2007	169	1815	69.37	64.76	5.558	251.9	28.78	13.38
111	2007	169	1830	68.85	66.73	5.538	244.8	27.66	13.38
111	2007	169	1845	68.74	67.37	5.773	246.2	29	13.39
111	2007	169	1900	68.29	69.05	5.417	232.6	26.22	13.39
111	2007	169	1915	68.38	68.88	4.256	250.3	30.52	13.4
111	2007	169	1930	67.52	71.5	5.213	230.1	24.34	13.41
111	2007	169	1945	67.25	73.2	4.974	238	29.21	13.41
111	2007	169	2000	66.76	73.9	4.52	229.2	23.71	13.15
111	2007	169	2015	66.23	76.4	4.301	251.5	24.01	13.06
111	2007	169	2030	65.7	77.5	4.262	255.1	22.01	13
111	2007	169	2045	65.33	78.3	3.827	260.4	26.88	12.96
111	2007	169	2100	65.07	77.5	4.768	271.4	23.12	12.93
111	2007	169	2115	64.7	77.3	4.583	262.8	28.14	12.91
111	2007	169	2130	64.62	76.5	4.845	264.4	28.46	12.9
111	2007	169	2145	64.5	77	3.896	263.6	26	12.89
111	2007	169	2200	64.46	76.5	3.692	263.7	22.65	12.87
111	2007	169	2215	64.4	77.5	3.571	272.8	24.16	12.87
111	2007	169	2230	64.31	77	3.845	261.5	25.24	12.86
111	2007	169	2245	64.24	76.6	3.688	259.7	26.52	12.85
111	2007	169	2300	64.2	77.6	3.344	258.5	23.5	12.85
111	2007	169	2315	64.21	78.6	3.535	257.6	26.01	12.84
111	2007	169	2330	64.15	79.7	3.338	252.6	22.46	12.83
111	2007	169	2345	63.96	80.1	2.673	251.7	23.96	12.83
111	2007	169	2400	63.88	80.5	2.622	258	24.5	12.83
111	2007	170	15	63.74	80.9	2.169	257.3	22.25	12.83
111	2007	170	30	63.62	81.3	2.874	268.7	21.54	12.82
111	2007	170	45	63.59	81	2.677	260.3	22.87	12.82
111	2007	170	100	63.54	80.6	3.09	273.7	25.1	12.82
111	2007	170	115	63.69	80.5	2.711	259.3	22.03	12.81
111	2007	170	130	63.66	80.4	2.465	266.9	22.61	12.8
111	2007	170	145	63.64	80.5	2.641	281	17.85	12.8
111	2007	170	200	63.55	81.1	1.397	274.1	23.05	12.79
111	2007	170	215	63.41	81.7	0.499	274.4	22.7	12.79
111	2007	170	230	63.13	82.9	0.551	238.5	18.5	12.78
111	2007	170	245	62.95	83.5	0.961	251.2	15.18	12.78
111	2007	170	300	62.72	84.3	0.447	225.3	11	12.77
111	2007	170	315	62.63	84.8	1.06	271.2	27.33	12.76
111	2007	170	330	62.38	85.4	0.856	270.4	41.17	12.75

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	170	345	62.2	85.9	1.565	259.5	18.73	12.74
111	2007	170	400	61.98	86.7	1.429	287.8	23.69	12.74
111	2007	170	415	62.27	86.8	1.357	286.6	41.62	12.73
111	2007	170	430	62.43	86.6	1.672	282.7	14.89	12.72
111	2007	170	445	62.24	87.2	0.603	256.8	15.3	12.72
111	2007	170	500	62.2	87.8	0.103	264	3.868	12.72
111	2007	170	515	62.17	87.8	0.808	335.3	18.1	12.71
111	2007	170	530	61.86	88.2	na	na	na	12.7
111	2007	170	545	61.6	88.5	0.995	279.3	14.91	12.7
111	2007	170	600	61.7	89.1	1.133	310.7	13.54	12.7
111	2007	170	615	62.65	88.5	0.718	296.7	27.45	12.7
111	2007	170	630	63.81	87.2	1.221	320.4	22.91	12.7
111	2007	170	645	64.92	85.5	1.074	327.3	24.55	12.7
111	2007	170	700	66.06	83.2	1.676	306.4	27.73	12.71
111	2007	170	715	66.86	81	2.554	298.2	28.89	12.75
111	2007	170	730	67.68	77.6	3.414	288.2	24.19	12.8
111	2007	170	745	68.94	72.9	2.413	291.3	39.3	12.86
111	2007	170	800	70.6	65.19	1.896	290.7	64.66	12.94
111	2007	170	815	71.2	63.08	3.559	230.3	31.27	13.03
111	2007	170	830	71.1	72.6	4.013	222.8	27.45	13.13
111	2007	170	845	69.94	75.7	5.405	200	23.31	13.25
111	2007	170	900	69.01	75.7	5.937	197.2	21.88	13.36
111	2007	170	915	68.98	75.3	5.054	217.4	24.1	13.38
111	2007	170	930	68.94	75.7	5.987	210.5	23.67	13.38
111	2007	170	945	69.4	75.5	5.735	196.3	30.95	13.37
111	2007	170	1000	69.47	74.4	5.844	201.1	26.61	13.37
111	2007	170	1015	68.86	77	7.02	189	16.8	13.37
111	2007	170	1030	68.69	74.8	6.674	195.6	24.11	13.37
111	2007	170	1045	68.83	77.7	7.14	198.4	18.45	13.37
111	2007	170	1100	68.87	79	7.89	196.2	18.08	13.37
111	2007	170	1115	69.28	79.2	7.31	189.5	24	13.37
111	2007	170	1130	69.88	77.4	6.71	189.8	20.14	13.37
111	2007	170	1145	69.58	77	7.47	190.2	18.37	13.37
111	2007	170	1200	69.92	78.4	7.01	210.7	20.9	13.37
111	2007	170	1215	71.5	73.4	5.669	232.4	30.54	13.36
111	2007	170	1230	71.9	71.2	6.692	210.1	21.33	13.35
111	2007	170	1245	71.9	71.3	6.213	234.7	31.01	13.35
111	2007	170	1300	71.6	70.9	7.27	220.7	23.63	13.35
111	2007	170	1315	71.9	67.5	6.67	228.8	31.4	13.35
111	2007	170	1330	72.8	66.73	5.681	224.7	24.84	13.35
111	2007	170	1345	73.3	64.43	6.805	225.9	27.33	13.35
111	2007	170	1400	73.6	55.3	6.966	239.1	28.28	13.34
111	2007	170	1415	73.8	56.43	7.61	234.2	25.5	13.34
111	2007	170	1430	72.9	57.81	7.88	227.6	19.7	13.34
111	2007	170	1445	73.4	56.9	7.13	224.8	23.28	13.33
111	2007	170	1500	73.5	56.16	7.47	232.9	28.54	13.33
111	2007	170	1515	73.5	56.4	7.4	225.3	25.9	13.33
111	2007	170	1530	73.6	56.8	7.08	233.2	30.43	13.33
111	2007	170	1545	73.1	59.64	8.17	221.4	20.12	13.33
111	2007	170	1600	72.5	62.61	8.27	236.4	23.79	13.33
111	2007	170	1615	72.6	61.61	7.01	249.4	28.46	13.33
111	2007	170	1630	72.8	62.65	7.2	245.2	26.57	13.34
111	2007	170	1645	72.2	64.59	7.45	235.3	24.58	13.34
111	2007	170	1700	72.1	67.43	7.26	238.6	29.98	13.35
111	2007	170	1715	71.9	71	7.03	233.4	25.46	13.34
111	2007	170	1730	71.2	74	7.62	231.7	27.36	13.35
111	2007	170	1745	71.1	75.9	7.85	234.1	26.82	13.35
111	2007	170	1800	71.3	77.2	6.861	226.2	20.56	13.36
111	2007	170	1815	71	78.3	6.908	232.4	22.63	13.36
111	2007	170	1830	70.7	79.4	5.753	235.3	28.01	13.37

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	170	1845	70.4	81	5.999	228.3	33.33	13.37
111	2007	170	1900	69.86	83.3	6.966	231.4	26.88	13.38
111	2007	170	1915	69.55	83.3	7.12	231.4	23.55	13.39
111	2007	170	1930	69.19	84.1	6.154	234	27.4	13.08
111	2007	170	1945	68.9	84.9	6.507	225.1	22.18	13.01
111	2007	170	2000	68.66	85.2	6.124	227.5	19.3	12.98
111	2007	170	2015	68.42	86.3	6.597	235.4	24.34	12.95
111	2007	170	2030	68.37	86.8	5.953	240.8	27.94	12.93
111	2007	170	2045	68.31	87.3	5.86	238.3	27.96	12.92
111	2007	170	2100	68.22	87.6	4.619	238.4	29.54	12.91
111	2007	170	2115	68.23	87.8	6.221	227.7	21.38	12.89
111	2007	170	2130	68.25	87.7	6.13	226.9	21.93	12.89
111	2007	170	2145	68.2	88	5.681	232.5	23.43	12.88
111	2007	170	2200	68.27	88	4.949	252.9	28.24	12.88
111	2007	170	2215	68.42	87.9	4.504	258.8	32.86	12.87
111	2007	170	2230	68.51	88	4.976	275.1	27.31	12.87
111	2007	170	2245	68.53	87.9	5.004	260.8	30.14	12.87
111	2007	170	2300	68.6	88.4	5.673	256.5	26.27	12.87
111	2007	170	2315	68.62	89.1	5.665	262.3	26.26	12.86
111	2007	170	2330	68.66	89.4	6.118	286.9	30.83	12.85
111	2007	170	2345	68.89	89.8	6.291	293.2	21.72	12.85
111	2007	170	2400	68.88	90.5	6.335	280	21.41	12.85
111	2007	171	15	68.94	91	5.238	287.2	22.62	12.85
111	2007	171	30	68.95	91.2	4.454	281.2	24.43	12.85
111	2007	171	45	68.89	91.3	3.376	277.7	21.43	12.84
111	2007	171	100	68.89	91.4	2.326	256.3	30.12	12.83
111	2007	171	115	69	91.3	2.584	222.6	27.4	12.83
111	2007	171	130	68.85	91.6	3.253	245.9	22.8	12.83
111	2007	171	145	68.31	92	3.245	239	24.76	12.82
111	2007	171	200	68.1	92.1	3.062	262.7	22.18	12.81
111	2007	171	215	68.09	92	2.709	255.7	26.47	12.81
111	2007	171	230	68.22	91.9	3.866	283.2	19.14	12.8
111	2007	171	245	68.61	91.3	3.777	287.4	21	12.79
111	2007	171	300	68.79	91	3.477	292.6	22.53	12.79
111	2007	171	315	68.87	90.5	3.585	313	20.73	12.78
111	2007	171	330	68.75	90.8	2.719	281.7	29.05	12.77
111	2007	171	345	68.7	90.5	4.027	286.1	24.11	12.77
111	2007	171	400	68.95	89.3	4.405	278.5	25.52	12.76
111	2007	171	415	68.63	89.9	2.413	240.6	27.03	12.75
111	2007	171	430	68.51	90.8	3.277	158.4	44.45	12.75
111	2007	171	445	68.53	91.1	2.493	16.91	23.43	12.75
111	2007	171	500	68.39	91.3	1.55	346.1	28.39	12.74
111	2007	171	515	68.2	91.9	1.163	228.2	23.94	12.74
111	2007	171	530	68.28	92	1.804	222.7	22.04	12.73
111	2007	171	545	68.21	92.2	1.682	277.2	41.88	12.73
111	2007	171	600	68.26	92.4	1.593	277.4	79.5	12.73
111	2007	171	615	68.3	92.5	0.903	46.88	27.68	12.73
111	2007	171	630	68.36	92.6	1.865	131.4	56.42	12.73
111	2007	171	645	68.54	92.7	1.133	331.6	57.6	12.73
111	2007	171	700	68.67	92.6	2.399	343	23.24	12.73
111	2007	171	715	68.55	92.7	1.774	349.5	51.18	12.73
111	2007	171	730	68.66	92.8	0.889	343.3	27.56	12.73
111	2007	171	745	69	92.7	0.758	318	17.26	12.73
111	2007	171	800	69.35	92.5	1.598	325.4	23.61	12.75
111	2007	171	815	69.51	92.3	2.431	311.4	24.29	12.76
111	2007	171	830	69.4	91.8	3.418	306.4	16.99	12.74
111	2007	171	845	69.31	91.9	2.149	307.3	34.4	12.73
111	2007	171	900	69.54	92	2.27	254.6	26.68	12.73
111	2007	171	915	69.61	91.8	2.745	279.9	30.06	12.73
111	2007	171	930	69.38	91.9	2.677	276.8	27.26	12.74

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	171	945	69.34	92	3.412	300.8	20.29	12.83
111	2007	171	1000	69.6	92.1	2.288	328.6	28.04	12.85
111	2007	171	1015	69.89	91.8	2.864	5.918	29.54	12.83
111	2007	171	1030	70.1	91	4.001	10.73	27.64	12.98
111	2007	171	1045	70.1	90.7	4.202	18.5	30.68	13.31
111	2007	171	1100	69.76	90.6	4.945	33	28.37	13.23
111	2007	171	1115	68.1	89	6.34	60.67	27.6	13.17
111	2007	171	1130	66.69	90.2	5.183	79.4	29.01	13.21
111	2007	171	1145	66.49	90.1	5.115	62.94	21.24	13.43
111	2007	171	1200	66.98	89.1	3.35	77.6	26.7	13.43
111	2007	171	1215	67.17	87.8	3.422	55.35	38.21	13.31
111	2007	171	1230	67.61	87.9	2.129	69.63	44.02	13.43
111	2007	171	1245	68.27	85	3.328	72.3	26.52	13.43
111	2007	171	1300	68.72	83.9	3.158	48.98	34.4	13.43
111	2007	171	1315	69.74	81.6	2.719	353.1	28.65	13.41
111	2007	171	1330	70.2	79.7	3.984	348.6	28.57	13.4
111	2007	171	1345	70.8	79.2	3.777	340.1	29.15	13.39
111	2007	171	1400	71.3	76.6	4.113	337.3	31.45	13.39
111	2007	171	1415	72.1	76.3	4.422	333	27.84	13.38
111	2007	171	1430	72	75.4	3.926	336.5	27.8	13.38
111	2007	171	1445	73.3	68.47	5.014	356.6	29.41	13.37
111	2007	171	1500	73.5	67.24	4.401	356.2	34.84	13.36
111	2007	171	1515	74.9	67.1	5.01	354	36.25	13.35
111	2007	171	1530	75	60.88	5.266	354.6	38.59	13.34
111	2007	171	1545	75.5	54.76	5.981	352.1	37.8	13.34
111	2007	171	1600	76.1	51.65	5.933	357.4	32.21	13.33
111	2007	171	1615	76.1	49.61	5.151	359	31.8	13.33
111	2007	171	1630	75.6	48.34	6.763	6.133	31.13	13.33
111	2007	171	1645	75.7	50.28	5.3	354	33.54	13.33
111	2007	171	1700	76	43.8	6.376	353.2	31.47	13.33
111	2007	171	1715	77.2	39.01	6.003	4.902	38.82	13.33
111	2007	171	1730	77.3	40.92	7.39	0.021	28.34	13.32
111	2007	171	1745	77.5	38.98	7.63	7.83	29.45	13.32
111	2007	171	1800	77	39.78	7.74	4.835	29.37	13.32
111	2007	171	1815	76.3	42.02	5.125	7.5	27.79	13.32
111	2007	171	1830	75.7	42.66	5.786	1.982	33.47	13.34
111	2007	171	1845	75.7	41.49	5.544	4.839	28.22	13.34
111	2007	171	1900	76.2	41.89	4.988	356.1	29.99	13.34
111	2007	171	1915	76.5	40.09	4.609	3.639	28.12	13.34
111	2007	171	1930	76.2	40.76	4.154	5.322	26.17	13.34
111	2007	171	1945	75.5	41.76	3.904	344.5	24.6	13.35
111	2007	171	2000	75	43.76	4.536	349.3	31.13	13.27
111	2007	171	2015	73.9	44.67	4.363	358.1	25.81	13.09
111	2007	171	2030	73.1	45.4	3.968	6.31	25.08	13.03
111	2007	171	2045	72.2	46.51	3.841	357.8	31.04	12.99
111	2007	171	2100	71.5	46.95	3.517	6.785	25.87	12.97
111	2007	171	2115	70.8	47.65	3.084	0.875	26.62	12.95
111	2007	171	2130	70.5	45.78	3.789	7.96	27.78	12.93
111	2007	171	2145	70.2	46.45	3.547	1.967	31.77	12.92
111	2007	171	2200	69.59	47.36	3.189	12.47	26.62	12.91
111	2007	171	2215	68.8	49.46	2.288	5.004	26.04	12.89
111	2007	171	2230	67.78	51.31	2.214	350.7	27.36	12.89
111	2007	171	2245	67.36	52.05	2.169	23.33	33.6	12.87
111	2007	171	2300	67.05	53.49	1.845	46.81	37.86	12.87
111	2007	171	2315	66.36	55.03	1.944	12.24	30.53	12.86
111	2007	171	2330	65.73	55.8	2.556	14.63	31.03	12.86
111	2007	171	2345	65.28	57.07	1.903	36.8	29.28	12.85
111	2007	171	2400	64.58	58.75	1.296	341.5	26.42	12.84
111	2007	172	15	63.59	61.12	2.294	341.2	18.18	12.84
111	2007	172	30	63.21	61.39	2.07	0.527	29.7	12.83

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	172	45	62.91	62.46	1.103	25.47	33.93	12.82
111	2007	172	100	62.83	60.52	2.768	17.6	30.85	12.82
111	2007	172	115	62.85	61.66	3.38	357.2	23.37	12.81
111	2007	172	130	62.29	62.3	2.187	355.7	35.47	12.81
111	2007	172	145	61.56	64.48	2.576	322.3	20.26	12.8
111	2007	172	200	60.9	65.38	2.288	319.7	18.08	12.8
111	2007	172	215	60.5	67.79	2.363	318.1	14.17	12.79
111	2007	172	230	60.09	68.16	2.96	350	20.85	12.78
111	2007	172	245	60.79	65.38	4.242	350.4	26.47	12.78
111	2007	172	300	60.8	65.15	3.833	353.3	25.57	12.77
111	2007	172	315	60.56	65.45	3.332	12.14	28.32	12.76
111	2007	172	330	60.13	66.12	2.768	34.2	26.54	12.76
111	2007	172	345	59.63	66.89	2.915	28.06	26.43	12.75
111	2007	172	400	59.26	68.13	2.238	47.84	35.77	12.74
111	2007	172	415	58.58	69.97	1.762	31.5	41.81	12.74
111	2007	172	430	57.85	71.7	1.254	340.2	30.2	12.73
111	2007	172	445	57	74.5	1.041	317.6	14.8	12.72
111	2007	172	500	56.21	75.9	1.061	320.2	24.35	12.71
111	2007	172	515	55.83	76.9	0.538	324.4	14.12	12.7
111	2007	172	530	55.9	77.3	1.419	354.4	30.09	12.69
111	2007	172	545	55.86	77.8	1.571	9.2	14.13	12.68
111	2007	172	600	56.59	75.5	2.768	354.6	20.75	12.68
111	2007	172	615	58.02	72.9	2.671	347	24.32	12.67
111	2007	172	630	58.74	71.5	2.983	0.384	27.62	12.67
111	2007	172	645	59.73	69.58	3.485	5.177	27.58	12.67
111	2007	172	700	60.99	68.03	2.205	1.455	34.68	12.69
111	2007	172	715	62.05	67.16	2.753	353.2	32.37	12.72
111	2007	172	730	62.79	65.11	4.202	348.8	26.33	12.76
111	2007	172	745	64.1	63.4	2.921	348	33.36	12.84
111	2007	172	800	65.04	59.95	4.589	348.4	32.58	12.92
111	2007	172	815	65.43	57.8	5.022	348.4	27.68	13.05
111	2007	172	830	66.16	57.5	4.816	2.412	26.8	13.33
111	2007	172	845	66.41	58.23	4.158	358.9	30.24	13.45
111	2007	172	900	67.76	55.02	3.183	336.2	41.45	13.4
111	2007	172	915	68.84	52.24	3.982	355	34.79	13.33
111	2007	172	930	69.64	51.71	3.779	358.7	38.14	13.31
111	2007	172	945	69.99	49.97	4.54	2.587	41.42	13.31
111	2007	172	1000	71.2	47.72	4.939	333.9	37.47	13.33
111	2007	172	1015	71.4	45.08	4.734	345.1	43.5	13.39
111	2007	172	1030	72.2	42.97	4.133	339	43.76	13.37
111	2007	172	1045	72.6	41.33	4.224	335.4	48.15	13.38
111	2007	172	1100	73.3	39.35	4.53	354.1	41.95	13.37
111	2007	172	1115	73.4	39.12	5.514	329.8	29.42	13.37
111	2007	172	1130	73.5	35.67	5.657	6.016	29.39	13.36
111	2007	172	1145	74.1	37.75	5.753	6.339	31.61	13.36
111	2007	172	1200	74.4	34.74	5.701	345.9	36.93	13.35
111	2007	172	1215	75.6	32.8	4.395	322	41.16	13.35
111	2007	172	1230	75.6	34.27	4.44	345.1	42.76	13.35
111	2007	172	1245	76.3	32.6	6.124	321.1	41.45	13.33
111	2007	172	1300	76.5	34	6.188	334.1	40.35	13.33
111	2007	172	1315	77.6	37.81	6.591	318.2	36.2	13.33
111	2007	172	1330	76.4	45.96	8.14	270.3	25.98	13.32
111	2007	172	1345	77.3	39.41	7.11	295.7	32.48	13.33
111	2007	172	1400	77.1	41.68	8.28	280.1	33.71	13.32
111	2007	172	1415	76.6	45.36	8.06	263	23.06	13.31
111	2007	172	1430	76.8	42.09	8.87	259.4	26.3	13.32
111	2007	172	1445	77	43.26	10.71	280.1	23.88	13.32
111	2007	172	1500	76.6	44.56	9.49	277.3	24.9	13.32
111	2007	172	1515	76.9	40.11	9.35	267.1	23.86	13.32
111	2007	172	1530	77.6	43.46	10.97	285.2	26.55	13.32

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	172	1545	76.5	46.77	9.62	274.6	23.23	13.32
111	2007	172	1600	75.6	47.97	8.74	260.9	25.8	13.32
111	2007	172	1615	74.8	53.72	7.57	258.8	25.78	13.32
111	2007	172	1630	74	56.83	8.3	246.7	22.16	13.32
111	2007	172	1645	73.3	57.4	7.81	254.4	25.71	13.32
111	2007	172	1700	73.9	53.39	8.24	260.1	26.62	13.33
111	2007	172	1715	74.8	53.89	7.39	272.1	25.87	13.33
111	2007	172	1730	74.4	52.69	7.02	269	29.88	13.34
111	2007	172	1745	73.2	54.6	8.68	273	24.26	13.34
111	2007	172	1800	72.2	56.9	7.7	270	28.61	13.35
111	2007	172	1815	72.1	59.34	7.04	269.3	28.96	13.37
111	2007	172	1830	71.6	63.39	8.44	269.7	25	13.37
111	2007	172	1845	71	64.57	7.44	273.1	23.92	13.11
111	2007	172	1900	70.7	70.2	6.761	282.1	23.36	13.03
111	2007	172	1915	68.39	82.9	6.047	351.7	34.27	12.99
111	2007	172	1930	65.31	86.3	3.112	359.3	38.37	12.96
111	2007	172	1945	65.33	87	1.434	226.4	15.52	12.93
111	2007	172	2000	65.52	87.2	1.075	312.1	50.93	12.91
111	2007	172	2015	65.81	88.6	2.776	248.5	25.44	12.9
111	2007	172	2030	65.52	89.3	1.762	287.2	40.41	12.89
111	2007	172	2045	65.57	89.4	1.411	286.8	38.47	12.88
111	2007	172	2100	65.65	86.2	4.428	0.088	29.33	12.87
111	2007	172	2115	64.56	86.7	5.91	317.2	25.85	12.86
111	2007	172	2130	63.71	88.7	5.503	281.7	20.35	12.86
111	2007	172	2145	63.63	89.3	4.619	260.2	23.74	12.85
111	2007	172	2200	63.9	89.6	4.573	278.8	21.57	12.85
111	2007	172	2215	63.93	90.1	3.924	274.2	20.42	12.84
111	2007	172	2230	64.02	90.3	3.43	279.6	16.8	12.84
111	2007	172	2245	63.87	90.5	3.412	284.5	19.48	12.84
111	2007	172	2300	63.78	90.9	1.831	284.8	36.19	12.83
111	2007	172	2315	64.05	90.8	2.798	329.4	34.45	12.82
111	2007	172	2330	63.98	91.1	3.424	314.7	18.5	12.82
111	2007	172	2345	63.81	91.5	3.577	310.9	19.55	12.82
111	2007	172	2400	63.76	91.6	4.313	317.5	19.96	12.81
111	2007	173	15	63.62	91.6	3.866	333.4	25.81	12.81
111	2007	173	30	63.33	91.5	4.001	317.6	17.75	12.8
111	2007	173	45	63.22	91.7	3.6	309.5	21.86	12.8
111	2007	173	100	63.29	91.9	3.491	308.5	21.67	12.79
111	2007	173	115	63.39	91.9	2.661	342.2	27.73	12.78
111	2007	173	130	63.57	91.2	3.888	347.7	22.05	12.78
111	2007	173	145	63.48	89.8	4.688	335.7	24.14	12.78
111	2007	173	200	63.19	88.3	5.518	332.9	19.9	12.76
111	2007	173	215	62.7	87.5	4.992	350.3	24.7	12.76
111	2007	173	230	62.13	87.8	4.436	340.1	28.24	12.76
111	2007	173	245	61.7	87.4	4.548	344.2	31.26	12.74
111	2007	173	300	61.44	86.9	4.526	347	28.98	12.74
111	2007	173	315	61.37	86.2	5.209	355.2	25.62	12.73
111	2007	173	330	61.22	86.3	5.572	354.9	22.67	12.72
111	2007	173	345	61.02	86.8	4.98	352.4	23.98	12.72
111	2007	173	400	60.74	87.7	4.647	356.3	23.95	12.71
111	2007	173	415	60.39	88.5	4.855	349.1	19.66	12.7
111	2007	173	430	60.1	88.7	4.625	351.7	25.89	12.7
111	2007	173	445	60.04	88.4	4.53	358.6	27.85	12.69
111	2007	173	500	59.77	88.8	4.305	352.7	22.25	12.69
111	2007	173	515	59.51	89	3.634	354.1	24.4	12.68
111	2007	173	530	59.31	89	3.358	346.9	21.88	12.68
111	2007	173	545	59.04	89.4	3.301	332.7	29.24	12.68
111	2007	173	600	59.04	89.4	3.253	328.6	22.69	12.67
111	2007	173	615	59.43	88.7	3.001	337.6	27.36	12.67
111	2007	173	630	60.05	86.4	2.977	354.4	25.95	12.67

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	173	645	60.78	85.2	3.34	1.269	20.76	12.68
111	2007	173	700	61.4	82.7	4.178	356.9	26.64	12.7
111	2007	173	715	62.15	80.4	4.577	349.2	33.15	12.72
111	2007	173	730	62.85	77.9	5.236	350.9	24.71	12.76
111	2007	173	745	63.59	75.6	5.465	358.5	26.49	12.8
111	2007	173	800	64.51	71.4	4.869	347.2	29.62	12.84
111	2007	173	815	65.2	69.75	4.897	351.3	28.9	12.88
111	2007	173	830	65.81	68.14	5.379	359.8	25.92	12.93
111	2007	173	845	66.18	63.35	5.985	2.504	29.4	12.97
111	2007	173	900	66.83	62.58	6.36	8.01	30.22	13.02
111	2007	173	915	67.17	59.73	6.952	353.8	30.8	13.07
111	2007	173	930	67.73	57.29	6.569	355.3	30.08	13.12
111	2007	173	945	68.57	52.84	7.01	12.69	27.91	13.17
111	2007	173	1000	69.01	47.89	7.98	6.46	22.92	13.22
111	2007	173	1015	69.41	48.39	8.87	357.9	33.02	13.4
111	2007	173	1030	69.33	47.69	9.66	5.583	24.05	13.39
111	2007	173	1045	69.25	47.42	9.9	359.5	24.1	13.4
111	2007	173	1100	69.89	44.95	8.42	4.892	29.99	13.39
111	2007	173	1115	70.1	46.42	9.11	0.256	30.37	13.39
111	2007	173	1130	69.91	45.38	10.73	356.6	28.14	13.39
111	2007	173	1145	70.6	45.38	10.1	4.561	27.65	13.39
111	2007	173	1200	70.6	40.76	9.22	348	31	13.39
111	2007	173	1215	71	42.13	8.5	352.8	29.47	13.38
111	2007	173	1230	71.6	41.3	8.28	9.95	30.07	13.38
111	2007	173	1245	71.9	41.36	9.88	347.7	29.08	13.37
111	2007	173	1300	71.7	37.15	10.21	1.746	28.89	13.37
111	2007	173	1315	72.1	38.75	10.43	349.9	33.46	13.37
111	2007	173	1330	71.7	35.84	10.11	13.65	34.21	13.37
111	2007	173	1345	72.4	35.91	11.32	6.358	31.41	13.37
111	2007	173	1400	73.4	33.67	9.61	359.9	29.7	13.37
111	2007	173	1415	73	34.57	10.87	6.656	24.26	13.36
111	2007	173	1430	72.9	36.01	9.68	353.1	31	13.36
111	2007	173	1445	73	34.9	10.75	355.3	30.24	13.36
111	2007	173	1500	73	35.44	11.08	348.9	24.82	13.36
111	2007	173	1515	73	35.31	11.6	354.6	36.27	13.35
111	2007	173	1530	73	35.04	11.01	4.969	32.58	13.35
111	2007	173	1545	72.8	35.17	11.28	359.4	29.64	13.35
111	2007	173	1600	73	35.74	11.17	6.598	27.95	13.35
111	2007	173	1615	72.7	35.17	12.12	357.3	30.58	13.35
111	2007	173	1630	73	35.87	11.03	359.8	25.75	13.36
111	2007	173	1645	73.3	36.18	9.34	8.69	32.81	13.36
111	2007	173	1700	73.1	33.6	11.07	356.4	32.15	13.36
111	2007	173	1715	73.1	32.6	10.82	1.082	31.5	13.36
111	2007	173	1730	73.3	31.56	9.86	8.45	33.49	13.36
111	2007	173	1745	73.4	31.66	8.68	359.8	31.03	13.36
111	2007	173	1800	73.4	31.43	9	359.1	29.09	13.36
111	2007	173	1815	73	31.53	8.47	6.313	30.81	13.36
111	2007	173	1830	72.1	32.97	6.722	3.301	30.25	13.37
111	2007	173	1845	71.5	33.17	7.59	14.63	25.49	13.38
111	2007	173	1900	71.4	34.84	6.863	28.31	26.11	13.39
111	2007	173	1915	71.4	34.81	7.1	25.68	29.75	13.39
111	2007	173	1930	71.3	32.74	7.11	9.31	31.07	13.16
111	2007	173	1945	70.6	33.67	6.315	15.52	30.87	13.23
111	2007	173	2000	69.81	34.01	6.769	14.32	26.56	13.09
111	2007	173	2015	69.06	33.88	7.81	13.87	26.3	13.03
111	2007	173	2030	68.42	35.32	5.894	10.19	30.99	12.99
111	2007	173	2045	67.73	36.82	4.97	7.67	28.27	12.95
111	2007	173	2100	67.36	36.59	5.894	3.947	31.09	12.93
111	2007	173	2115	67.05	36.39	4.931	0.3	31.22	12.91
111	2007	173	2130	66.66	44.89	6.763	53.32	33.29	12.9

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	173	2145	65.22	48.97	5.761	61.04	22.55	12.89
111	2007	173	2200	64.39	52.12	4.712	66.27	23.93	12.88
111	2007	173	2215	63.96	53.19	3.988	44.52	25.21	12.87
111	2007	173	2230	63.88	54.26	4.311	44.12	20.69	12.87
111	2007	173	2245	63.41	55.4	3.771	34.07	25.9	12.86
111	2007	173	2300	62.94	54.4	3.305	13.94	29.54	12.85
111	2007	173	2315	62.66	54.87	3.68	5.108	23.37	12.85
111	2007	173	2330	61.94	57.58	2.28	340.5	22.85	12.84
111	2007	173	2345	61	60.49	2.661	311.8	13.78	12.83
111	2007	173	2400	60.41	61.43	2.81	320.1	18.23	12.82
111	2007	174	15	60.45	57.49	3.404	343	18.53	12.82
111	2007	174	30	60.36	56.08	3.309	335.9	24.95	12.82
111	2007	174	45	60.47	52.17	3.855	345.3	31.32	12.81
111	2007	174	100	60.32	52.84	3.021	327.9	23.91	12.8
111	2007	174	115	59.56	53.47	2.757	325.7	22.96	12.8
111	2007	174	130	59.2	54.07	2.913	329.6	23.3	12.79
111	2007	174	145	58.95	53.77	3.491	336.8	22.66	12.78
111	2007	174	200	58.77	54.48	3.07	334	22.07	12.78
111	2007	174	215	58.35	55.52	2.498	331.1	29	12.77
111	2007	174	230	58.13	55.75	3.166	354.9	28.12	12.76
111	2007	174	245	58.07	55.89	3.247	341.9	29.15	12.76
111	2007	174	300	57.77	56.89	3.275	333.4	29.83	12.75
111	2007	174	315	57.6	57.3	3.586	343.2	21.86	12.74
111	2007	174	330	57.41	58.13	3.233	337.5	25.5	12.74
111	2007	174	345	57.08	59.07	3.027	328.7	23.76	12.73
111	2007	174	400	56.59	60.61	2.85	329.7	22.89	12.72
111	2007	174	415	56.53	60.91	3.461	338.2	18.16	12.72
111	2007	174	430	56.25	61.95	3.402	333.6	24.34	12.71
111	2007	174	445	55.92	62.58	3.716	343.2	26.04	12.7
111	2007	174	500	55.78	63.29	3.372	343.8	26.34	12.7
111	2007	174	515	55.48	64.83	2.798	354.6	28.54	12.68
111	2007	174	530	55.02	66.47	2.58	339.1	23.85	12.68
111	2007	174	545	54.87	66.51	2.979	336.1	25.05	12.67
111	2007	174	600	55.46	65.47	3.255	338.6	26.05	12.67
111	2007	174	615	56.08	65.37	3.038	338.3	23.91	12.66
111	2007	174	630	56.51	65.06	2.592	345.2	24.7	12.66
111	2007	174	645	57.27	63.82	2.762	340.8	22.69	12.66
111	2007	174	700	57.94	63.19	3.1	339.7	27.22	12.68
111	2007	174	715	58.74	62.18	3.448	344.4	30.45	12.72
111	2007	174	730	59.45	59.43	4.766	351.3	30.52	12.76
111	2007	174	745	60.39	56.85	4.492	342.1	33.73	12.8
111	2007	174	800	61	55.54	6.289	3.764	27.42	12.86
111	2007	174	815	61.69	51.52	6.839	352.8	29.95	12.9
111	2007	174	830	62.47	49.41	6.259	3.683	34	12.95
111	2007	174	845	62.72	46.67	7.59	7.56	23.5	13
111	2007	174	900	63.47	45.26	7.54	17.87	29.45	13.05
111	2007	174	915	64.66	37.7	5.997	11.13	38.28	13.1
111	2007	174	930	64.83	34.02	8.1	12.79	35.65	13.14
111	2007	174	945	65.07	32.85	8.37	22.9	33.95	13.18
111	2007	174	1000	65.72	36.06	7.06	5.268	35.87	13.23
111	2007	174	1015	65.29	36.92	7.65	11.66	29.53	13.41
111	2007	174	1030	65.73	40.13	6.867	353.5	38.73	13.44
111	2007	174	1045	65.87	37.99	7.31	6.369	36.12	13.43
111	2007	174	1100	66.02	37.79	7.32	338.9	27.32	13.43
111	2007	174	1115	66.6	36.29	6.883	340.6	34.37	13.43
111	2007	174	1130	66.6	36.76	6.89	359.1	36.75	13.43
111	2007	174	1145	67.28	34.92	7.05	336.9	39.92	13.42
111	2007	174	1200	67.13	35.72	7.46	357.3	31.13	13.42
111	2007	174	1215	67.38	34.45	7.94	351.6	38.34	13.42
111	2007	174	1230	67.84	33.81	7.85	341.2	32.38	13.41

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	174	1245	68.05	35.08	7.46	337.2	26.38	13.41
111	2007	174	1300	68.52	32.27	7.99	0.013	35.19	13.41
111	2007	174	1315	68.68	30.33	7.49	355.9	33.41	13.41
111	2007	174	1330	69.33	31.07	7.4	7.06	39.01	13.41
111	2007	174	1345	70.1	30.26	7.22	350.2	36.68	13.4
111	2007	174	1400	70.9	31.23	6.982	357.3	37.3	13.4
111	2007	174	1415	70.9	29.79	7.74	333.9	33.18	13.39
111	2007	174	1430	70.6	29.43	6.896	344.9	37.57	13.39
111	2007	174	1445	71.1	29.49	7.34	334.3	40.65	13.39
111	2007	174	1500	71.6	28.89	8.93	352.4	33.6	13.37
111	2007	174	1515	72	27.98	7.75	17.49	33.91	13.37
111	2007	174	1530	72.6	26.41	7.44	353.6	34.19	13.37
111	2007	174	1545	72.6	24.47	7.61	351.7	37.62	13.37
111	2007	174	1600	72.6	27.11	8.55	1.715	26.75	13.36
111	2007	174	1615	73.2	24.64	7.09	4.798	33.17	13.36
111	2007	174	1630	73.6	24.07	6.583	341	38.59	13.36
111	2007	174	1645	73.8	23.7	7.33	9.55	32.66	13.36
111	2007	174	1700	74	24.27	7.11	342.4	36.99	13.36
111	2007	174	1715	74	22.27	7.42	5.4	33.77	13.36
111	2007	174	1730	73.7	23.17	7.95	1.371	38.08	13.36
111	2007	174	1745	73.9	22.33	6.603	343.8	29.63	13.36
111	2007	174	1800	74.1	23.14	5.636	354.8	37.35	13.36
111	2007	174	1815	73.8	22.9	6.912	9.64	27.42	13.36
111	2007	174	1830	73.5	23.64	6.616	357.5	27.87	13.36
111	2007	174	1845	73.6	23.34	5.79	4.177	31.46	13.36
111	2007	174	1900	73.1	22.13	5.814	354.6	30.77	13.37
111	2007	174	1915	72.8	22.2	5.538	353.8	27.16	13.37
111	2007	174	1930	72.5	24.24	4.669	4.748	29.92	13.38
111	2007	174	1945	72.1	24.61	4.023	359.3	29.5	13.38
111	2007	174	2000	71.3	26.75	3.289	352.7	25.78	13.39
111	2007	174	2015	69.93	29.02	2.407	354.2	26.01	13.09
111	2007	174	2030	68.95	30.33	1.819	341.7	19.44	13.03
111	2007	174	2045	67.9	34.01	1.831	339.7	18.26	12.98
111	2007	174	2100	66.76	35.02	2.131	339.9	19.06	12.95
111	2007	174	2115	66.36	38.2	1.591	334.5	12.96	12.93
111	2007	174	2130	65.72	36.33	2.703	339.9	20.44	12.91
111	2007	174	2145	65.78	36.53	3.086	341.6	20.89	12.89
111	2007	174	2200	65.6	36.63	2.993	334.6	22.29	12.88
111	2007	174	2215	65.16	36.93	2.8	338	22.82	12.87
111	2007	174	2230	64.7	37.77	3.011	330.3	17.23	12.87
111	2007	174	2245	64.06	39.91	3.09	353.8	47.51	12.86
111	2007	174	2300	63.58	41.65	2.161	19.99	32.45	12.86
111	2007	174	2315	62.96	43.83	2.062	7.75	23.91	12.85
111	2007	174	2330	62.18	45.74	2.224	357.4	30.68	12.84
111	2007	174	2345	61.39	48.62	2.147	339.5	18.08	12.84
111	2007	174	2400	60.36	50.29	1.747	0.739	24.69	12.82
111	2007	175	15	60.09	51.83	1.019	29.38	57.69	12.82
111	2007	175	30	59.52	53.54	2.26	359	17.42	12.81
111	2007	175	45	58.98	55.18	2.119	356.2	22.18	12.8
111	2007	175	100	58.51	55.65	1.726	319.6	36.07	12.8
111	2007	175	115	57.8	58.7	1.282	289.9	21.48	12.79
111	2007	175	130	56.9	59.84	2.298	344.7	21.63	12.78
111	2007	175	145	56.31	60.21	2.228	339.7	20.57	12.77
111	2007	175	200	55.91	60.84	1.768	336.8	12.13	12.77
111	2007	175	215	55.05	64.6	1.653	340.4	9.46	12.76
111	2007	175	230	54.36	63.26	1.938	357.5	18.64	12.75
111	2007	175	245	54.55	63.7	1.386	36.25	26.55	12.74
111	2007	175	300	54.05	66.21	1.023	329.1	7.81	12.74
111	2007	175	315	53.24	68.22	1.241	345.8	16.75	12.72
111	2007	175	330	52.75	69.82	1.321	340.3	12.49	12.72

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	175	345	52.58	70.3	1.197	325	14.54	12.71
111	2007	175	400	52.43	69.9	1.255	321.3	19.75	12.7
111	2007	175	415	52.36	69.33	0.744	352.3	28.1	12.69
111	2007	175	430	52.07	69.63	1.101	3.098	20.25	12.69
111	2007	175	445	51.75	69.57	0.846	327.6	27.09	12.67
111	2007	175	500	51.36	70.5	1.434	321.4	21.95	12.67
111	2007	175	515	51.41	67.22	2.242	333.3	21.57	12.66
111	2007	175	530	52.02	63.94	2.125	350.7	22.84	12.65
111	2007	175	545	52.59	62.57	1.942	342.1	20.6	12.65
111	2007	175	600	53.13	61.83	1.454	355.9	19.42	12.64
111	2007	175	615	54.69	59.93	0.768	13.59	16.23	12.63
111	2007	175	630	56.57	57.17	1.15	349.5	19.75	12.63
111	2007	175	645	56.86	56.74	1.889	341.8	25.15	12.64
111	2007	175	700	57.82	56.93	2.282	343	30.9	12.66
111	2007	175	715	58.69	55.26	2.729	355.7	28.77	12.69
111	2007	175	730	60.09	51.84	2.852	2.294	30.16	12.73
111	2007	175	745	61.32	48.59	3.054	6.241	27.27	12.77
111	2007	175	800	62.91	45.2	2.757	18.74	35.74	12.81
111	2007	175	815	64.02	41.89	2.673	357.6	27.28	12.85
111	2007	175	830	65.28	38.6	3.235	8.25	31.22	12.89
111	2007	175	845	66.08	39.04	3.428	19.73	31.65	12.93
111	2007	175	900	66.7	40.34	3.783	359.6	42.47	12.97
111	2007	175	915	67.77	40.8	3.886	348.5	40.18	13
111	2007	175	930	68.84	31.17	4.337	3.236	38.94	13.03
111	2007	175	945	69.23	30.97	5.032	10.59	34.91	13.07
111	2007	175	1000	69.92	31.03	5.419	346.8	44.83	13.12
111	2007	175	1015	70.3	30.93	4.855	311	42.44	13.28
111	2007	175	1030	71.1	31.63	4.093	2.24	45.02	13.39
111	2007	175	1045	71.7	32.04	4.635	314.3	50.54	13.39
111	2007	175	1100	71.6	30.53	5.225	318.8	40.9	13.38
111	2007	175	1115	72.1	30.76	4.609	307.3	50.53	13.38
111	2007	175	1130	72.7	29.46	4.621	357	47.56	13.37
111	2007	175	1145	72.9	29.62	5.383	325.7	37.44	13.37
111	2007	175	1200	73.2	36.61	5.81	277.6	42.84	13.36
111	2007	175	1215	72.6	36.68	6.612	247.2	27.18	13.36
111	2007	175	1230	72.3	40.45	7.09	259.8	28.83	13.35
111	2007	175	1245	70.8	40.69	7.98	272.6	24.96	13.35
111	2007	175	1300	70.3	40.39	8.39	279.8	23.81	13.36
111	2007	175	1315	71.4	40.29	7.13	273.9	24.9	13.37
111	2007	175	1330	71.1	39.12	8.3	270.1	22.9	13.36
111	2007	175	1345	71.2	38.15	7.93	273.8	24.84	13.37
111	2007	175	1400	72.2	38.85	7.83	274.4	25.03	13.37
111	2007	175	1415	73.4	41.06	7.48	264.2	26.66	13.36
111	2007	175	1430	73	43.53	8.06	265.9	21.15	13.35
111	2007	175	1445	72.9	44.83	7.73	276.4	23.34	13.35
111	2007	175	1500	73.2	43.1	7.94	274.6	24.12	13.35
111	2007	175	1515	72.9	44.5	7.46	268.6	25.45	13.35
111	2007	175	1530	73.2	43.73	7.89	276.9	29.84	13.35
111	2007	175	1545	73.4	37.95	9.25	283.8	23.22	13.34
111	2007	175	1600	74	39.35	8.04	275.6	22.38	13.34
111	2007	175	1615	73.8	41.52	8.19	271.8	22.37	13.35
111	2007	175	1630	73.8	42.86	7.92	279.5	24.75	13.35
111	2007	175	1645	73.9	44.47	7.62	280.3	21.07	13.35
111	2007	175	1700	73.3	46.31	7.8	274.9	23.52	13.35
111	2007	175	1715	72.3	50.72	8.55	272.5	24.78	13.35
111	2007	175	1730	72	49.72	8.26	278	23.21	13.36
111	2007	175	1745	72.1	47.94	8.05	279.1	25.09	13.36
111	2007	175	1800	72	49.72	7.63	276.3	22.45	13.36
111	2007	175	1815	72.2	48.04	7.33	279.5	22.46	13.37
111	2007	175	1830	71.5	49.75	7.32	289.8	19.87	13.37

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	175	1845	71.2	51.45	6.998	282.4	24.5	13.38
111	2007	175	1900	70.5	52.02	7.66	275.7	22.98	13.39
111	2007	175	1915	70	51.96	7.17	281	29.01	13.39
111	2007	175	1930	69.95	53.67	6.493	276.1	21.97	13.4
111	2007	175	1945	69.29	56.41	7.12	281.1	20.34	13.41
111	2007	175	2000	68.56	59.19	6.809	281.9	21.75	13.25
111	2007	175	2015	67.93	61.47	5.548	283.1	22.94	13.07
111	2007	175	2030	67.52	63.51	6.287	284.1	17.68	13.01
111	2007	175	2045	67.2	65.35	5.777	287.9	19.91	12.97
111	2007	175	2100	66.85	67.02	4.466	289.8	20.92	12.94
111	2007	175	2115	66.55	68.66	5.02	281	18.61	12.92
111	2007	175	2130	66.44	69.71	5.058	285.1	23.13	12.91
111	2007	175	2145	66.52	69.94	5.578	288.6	17.77	12.89
111	2007	175	2200	66.34	71.2	4.679	284.6	19.61	12.89
111	2007	175	2215	66.3	72.5	5.221	288.8	19.96	12.88
111	2007	175	2230	66.27	73.6	5.044	288.7	16.9	12.87
111	2007	175	2245	66.28	74.8	5.624	290.7	21.21	12.87
111	2007	175	2300	66.32	76.1	6.281	287.6	19.55	12.86
111	2007	175	2315	66.22	76.7	5.59	285.9	21.05	12.85
111	2007	175	2330	66.26	77	5.127	289.1	19.37	12.85
111	2007	175	2345	66.27	77.5	4.585	290.3	16.43	12.85
111	2007	175	2400	66.15	78.3	4.756	284.2	19.52	12.84
111	2007	176	15	66.13	78.5	4.565	285.8	18.45	12.84
111	2007	176	30	66.1	78.4	4.14	292.2	14.89	12.83
111	2007	176	45	66.02	78.7	3.416	280.1	20.41	12.83
111	2007	176	100	65.98	78.1	4.341	288.8	16.34	12.83
111	2007	176	115	66.15	77.3	4.663	287.1	18.69	12.82
111	2007	176	130	66.11	77	4.351	288.8	17.35	12.81
111	2007	176	145	65.86	77.5	3.261	294.8	20.91	12.81
111	2007	176	200	65.59	77.8	3.285	291.2	17.16	12.81
111	2007	176	215	65.37	77.7	3.213	301	18.83	12.8
111	2007	176	230	65.27	77	3.841	295	15.41	12.79
111	2007	176	245	65.38	76	3.952	300.8	15.78	12.79
111	2007	176	300	65.32	76.2	3.255	307.4	19.63	12.78
111	2007	176	315	65.09	76.1	3.305	308.9	22.76	12.78
111	2007	176	330	65.15	75.8	3.815	299.9	15.77	12.77
111	2007	176	345	65.06	75.6	3.372	300.2	15.54	12.76
111	2007	176	400	64.89	75.1	2.764	300.8	17.3	12.75
111	2007	176	415	64.54	75.9	2.058	299.2	20.03	12.75
111	2007	176	430	64.02	76.6	1.984	300.1	20.24	12.74
111	2007	176	445	63.66	78.1	1.621	308.4	19.6	12.74
111	2007	176	500	63.45	78.4	1.424	297.2	21.19	12.72
111	2007	176	515	62.87	79.9	0.936	317.6	21.63	12.72
111	2007	176	530	62.87	80.3	1.262	327.8	13.3	12.72
111	2007	176	545	62.43	82.1	1.539	295.9	14.26	12.71
111	2007	176	600	62.98	82.3	1.946	301.8	19.28	12.7
111	2007	176	615	64.35	80.6	2.8	307.7	16.91	12.7
111	2007	176	630	65.57	78.9	3.191	291.3	17.52	12.7
111	2007	176	645	66.56	77.3	3.602	283.6	20.9	12.7
111	2007	176	700	67.62	75.3	3.855	286	25.72	12.71
111	2007	176	715	68.4	75	4.403	280.8	25.54	12.74
111	2007	176	730	69.24	74.8	3.757	283.4	21.49	12.78
111	2007	176	745	69.92	73	4.037	276	25.83	12.82
111	2007	176	800	69.9	72.8	5.769	282	22.01	12.86
111	2007	176	815	69.79	72.5	6.283	272.6	23.04	12.92
111	2007	176	830	70.1	73	6.386	273.5	24.16	12.97
111	2007	176	845	71.3	68.32	6.051	287.2	23.27	13.03
111	2007	176	900	72.6	65.71	6.051	289.2	20.26	13.09
111	2007	176	915	74	64.87	4.615	274.5	29.47	13.15
111	2007	176	930	74.8	64.76	5.286	266.6	32.33	13.2

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	176	945	74.8	65.7	4.909	245.2	30.89	13.27
111	2007	176	1000	75.1	63.52	4.724	261.3	29.03	13.33
111	2007	176	1015	74.7	66.06	5.882	259.3	30.37	13.33
111	2007	176	1030	75	64.33	6.154	268.3	26.25	13.33
111	2007	176	1045	75.4	62.65	6.138	259.8	27.3	13.33
111	2007	176	1100	75.5	62.92	7.39	266.1	26.5	13.33
111	2007	176	1115	74.9	64.22	7.46	271	26.78	13.33
111	2007	176	1130	74.6	66.16	7	261	26.66	13.33
111	2007	176	1145	75.7	65.23	6.432	258.1	28.76	13.33
111	2007	176	1200	76.7	68.2	6.472	262.1	27.09	13.32
111	2007	176	1215	76	67.43	6.92	261.4	27.29	13.32
111	2007	176	1230	76	66.69	7.63	268.4	22.3	13.3
111	2007	176	1245	76.1	62.98	7.9	266.9	24.11	13.29
111	2007	176	1300	77.1	62.54	8.11	274.7	26.71	13.3
111	2007	176	1315	77.1	62.38	8.25	279.3	22.28	13.3
111	2007	176	1330	77.6	61.67	8.95	282.4	28.83	13.3
111	2007	176	1345	76.9	60.27	9.3	270.3	22.86	13.3
111	2007	176	1400	76.2	66.59	8.7	261.2	26.44	13.3
111	2007	176	1415	74.8	66.89	8.61	265.4	29.33	13.3
111	2007	176	1430	74.2	68.29	7.73	260	31.05	13.3
111	2007	176	1445	74.6	67.49	8.36	270.5	27.04	13.3
111	2007	176	1500	74.2	68.86	8.34	262	29.5	13.3
111	2007	176	1515	73.4	66.53	7.86	257.6	24.44	13.31
111	2007	176	1530	73.1	70.9	8.54	266.4	20.2	13.31
111	2007	176	1545	73.6	67.46	8.17	273.3	23.95	13.32
111	2007	176	1600	74.1	66.03	7.69	260.8	28.6	13.32
111	2007	176	1615	74.5	65.69	7.11	259.9	27.58	13.32
111	2007	176	1630	73.1	67.5	8.2	248.8	28.06	13.32
111	2007	176	1645	72.8	68.63	7.4	257.6	32.98	13.32
111	2007	176	1700	72.1	69.61	7.99	263.5	30.11	13.33
111	2007	176	1715	71.7	73.7	7.37	262	28.06	13.33
111	2007	176	1730	71.3	72.9	8.25	260.5	27.61	13.34
111	2007	176	1745	71.9	72.5	5.457	263	31.49	13.35
111	2007	176	1800	71.7	73.6	5.884	252.4	30.23	13.34
111	2007	176	1815	70.8	75.4	7.15	246.3	25.36	13.35
111	2007	176	1830	70.6	74.5	6.217	258.7	29.16	13.36
111	2007	176	1845	70.9	75.3	5.431	258.2	31.39	13.36
111	2007	176	1900	69.66	78.3	6.734	256.3	25.47	13.37
111	2007	176	1915	69.74	77.6	6.06	258.9	28.17	13.38
111	2007	176	1930	69.6	78.3	4.927	252.8	33.05	13.39
111	2007	176	1945	69.12	80.5	5.318	257.3	28.92	13.39
111	2007	176	2000	68.62	82	5.423	257.4	23.79	13.09
111	2007	176	2015	68.53	82.5	4.129	256.9	27.81	13.02
111	2007	176	2030	68.39	83.4	4.536	261.6	24.01	12.98
111	2007	176	2045	68.08	84.4	4.758	267	29.54	12.95
111	2007	176	2100	67.8	85.3	5.115	263.4	27.85	12.93
111	2007	176	2115	67.63	85.9	4.885	259.8	30.37	12.91
111	2007	176	2130	67.54	86.2	4.621	271.6	27.25	12.9
111	2007	176	2145	67.49	86.6	4.575	269.1	26.83	12.89
111	2007	176	2200	67.46	86.8	4.236	259	25.48	12.87
111	2007	176	2215	67.4	87.3	3.614	258.5	30.29	12.87
111	2007	176	2230	67.46	87.3	3.354	267	25.55	12.87
111	2007	176	2245	67.55	87.3	3.783	257.7	27.44	12.86
111	2007	176	2300	67.63	87.2	3.686	256.8	27.76	12.85
111	2007	176	2315	67.6	87.4	3.658	276.6	25.37	12.85
111	2007	176	2330	67.72	87.2	3.579	288.5	19.38	12.85
111	2007	176	2345	67.84	87.1	5.252	280.1	20.73	12.84
111	2007	176	2400	67.98	87	4.645	284.9	24.36	12.84
111	2007	177	15	68.12	87.1	4.486	275.3	19.34	12.84
111	2007	177	30	68.15	87.3	2.832	276.3	27.06	12.83

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	177	45	68.25	87.3	3.616	270.8	23.9	12.83
111	2007	177	100	68.31	87.4	3.229	272.6	24.35	12.83
111	2007	177	115	68.23	87.5	3.279	260	25.03	12.83
111	2007	177	130	68.08	87.9	2.78	255.8	25.45	12.82
111	2007	177	145	67.85	88.5	3.279	258.4	23.28	12.81
111	2007	177	200	67.66	89.2	3.904	260.7	21.86	12.81
111	2007	177	215	67.4	89.8	3.561	255.8	21.75	12.81
111	2007	177	230	67.19	90.2	3.086	262.9	24.1	12.79
111	2007	177	245	67.06	90.6	2.868	273.8	23.15	12.79
111	2007	177	300	67.06	91	3.543	266.3	22.36	12.78
111	2007	177	315	66.97	91.2	2.774	256.6	25.5	12.77
111	2007	177	330	66.98	91.5	2.029	249.9	18.5	12.77
111	2007	177	345	66.93	91.6	1.48	243.8	22.73	12.76
111	2007	177	400	66.77	91.9	1.382	274.4	17.4	12.75
111	2007	177	415	66.71	92.1	0.424	322.7	19.12	12.75
111	2007	177	430	66.67	92.2	0.506	190.7	15.85	12.74
111	2007	177	445	66.69	92.2	0.455	222.9	16.65	12.73
111	2007	177	500	66.65	92.3	0.253	203.1	14.12	12.73
111	2007	177	515	66.38	92.4	0.361	251.1	13.93	12.73
111	2007	177	530	66.24	92.6	0.279	262.2	10.36	12.72
111	2007	177	545	66.32	92.8	1.229	265.5	21.65	12.72
111	2007	177	600	66.58	92.8	1.463	252.2	24.21	12.72
111	2007	177	615	66.92	93	1.901	278.3	19.66	12.71
111	2007	177	630	67.48	93.1	2.149	274.2	19.99	12.71
111	2007	177	645	68.26	92.9	2.298	280.9	24.5	12.73
111	2007	177	700	69.01	92.4	2.322	283.2	27.16	12.79
111	2007	177	715	69.78	91.5	3.019	283.7	18.87	12.83
111	2007	177	730	70.4	90.6	3.005	284.6	23.8	12.89
111	2007	177	745	71.5	88.3	3.013	283.5	35.38	12.96
111	2007	177	800	72.9	85.2	2.929	275.4	32.11	13.09
111	2007	177	815	73.7	82	3.332	258.3	30.37	13.18
111	2007	177	830	75	78.9	2.826	277.6	35.78	13.25
111	2007	177	845	76	77.4	3.751	250.2	29.52	13.32
111	2007	177	900	77.1	74.2	3.946	260.6	32.32	13.33
111	2007	177	915	77.8	73.6	4.208	262.5	31.76	13.32
111	2007	177	930	78	73.6	4.98	264.4	21.59	13.31
111	2007	177	945	78.8	73	4.367	260.3	31.93	13.3
111	2007	177	1000	79.1	71.4	4.941	257.5	24.92	13.3
111	2007	177	1015	80.4	68.02	4.373	266.6	24.65	13.29
111	2007	177	1030	81.3	68.92	4.758	268.4	31.58	13.28
111	2007	177	1045	80.8	68.18	5.084	265	25.88	13.28
111	2007	177	1100	82.4	64.97	5.693	263.8	32.18	13.28
111	2007	177	1115	82.8	63.94	5.044	258.5	27.75	13.27
111	2007	177	1130	83.1	65.21	5.024	262.2	31.06	13.27
111	2007	177	1145	83.5	62.13	5.26	260.9	32.56	13.26
111	2007	177	1200	83.5	63.27	6.072	267.6	26.06	13.26
111	2007	177	1215	82.2	66.38	6.69	258.7	29.18	13.26
111	2007	177	1230	81.4	66.71	7.66	274.9	22.4	13.26
111	2007	177	1245	82.2	60.93	6.458	255.3	27.13	13.26
111	2007	177	1300	83.3	61.83	7.22	267.9	25.19	13.26
111	2007	177	1315	82.5	66.28	7.08	252.5	26.08	13.26
111	2007	177	1330	81.6	68.45	6.781	259.6	27.01	13.26
111	2007	177	1345	81.3	69.82	6.964	249.6	28.8	13.26
111	2007	177	1400	80.1	69.49	7.56	261.1	22.32	13.26
111	2007	177	1415	80.5	66.01	7.88	267.7	25.2	13.26
111	2007	177	1430	81.2	66.81	7.79	272.8	24.71	13.26
111	2007	177	1445	82.3	64.91	6.178	262.5	31.35	13.26
111	2007	177	1500	81.7	65.47	7.71	267.2	24.36	13.26
111	2007	177	1515	82.4	62.16	6.086	260.1	30.9	13.26
111	2007	177	1530	82.6	62.83	7.71	273	22.99	13.26

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	177	1545	83.2	60.79	6.404	273.4	26.61	13.26
111	2007	177	1600	82.7	64.4	6.94	266.6	28.77	13.26
111	2007	177	1615	80.8	68.45	7.68	263	25.03	13.25
111	2007	177	1630	81	66.27	7.5	265.9	24.23	13.26
111	2007	177	1645	81.2	66.48	6.323	248.7	25.86	13.26
111	2007	177	1700	81.6	64.77	5.302	260.7	31.67	13.26
111	2007	177	1715	81.1	66.11	7.18	273.5	24.52	13.26
111	2007	177	1730	80.6	67.31	6.859	271.7	27.25	13.26
111	2007	177	1745	79.1	71.2	8.41	270.1	22.29	13.27
111	2007	177	1800	78.2	71.6	7.21	277	23.77	13.28
111	2007	177	1815	78.4	69.75	5.79	272.2	28.94	13.28
111	2007	177	1830	78	71.2	7.16	274.5	26	13.29
111	2007	177	1845	77.7	70.6	6.793	279.1	24.53	13.3
111	2007	177	1900	77.5	70.7	5.554	275.4	24.87	13.3
111	2007	177	1915	77.2	73.3	6.769	275	24.13	13.3
111	2007	177	1930	76.6	74.6	5.328	274.1	30.7	13.32
111	2007	177	1945	75.9	77.7	7.09	277.9	22.14	13.32
111	2007	177	2000	75.3	79	5.213	274.4	25.01	13.09
111	2007	177	2015	74.7	80.1	5.254	281.9	25.65	13.03
111	2007	177	2030	74.3	80.6	3.92	270.5	25.79	12.98
111	2007	177	2045	73.9	81.3	4.129	277.9	22.27	12.95
111	2007	177	2100	73.6	81.8	4.019	278.3	23.32	12.93
111	2007	177	2115	73.4	82	4.551	274.8	22.35	12.91
111	2007	177	2130	73.1	82.8	4.567	272.9	24.98	12.91
111	2007	177	2145	72.9	83.9	3.918	269.3	23.24	12.89
111	2007	177	2200	72.6	84.3	5.725	268.9	27.72	12.88
111	2007	177	2215	72.3	84.9	4.551	267.3	25.59	12.87
111	2007	177	2230	72.2	85.1	3.874	274	33.57	12.87
111	2007	177	2245	72.3	84.6	4.283	282.5	21.52	12.86
111	2007	177	2300	72.5	84.7	3.823	272	23.53	12.86
111	2007	177	2315	72.4	85.1	4.397	271.4	24.41	12.85
111	2007	177	2330	72.2	85.9	3.976	274.2	25.68	12.85
111	2007	177	2345	72.1	86.6	3.682	276.6	28.95	12.84
111	2007	177	2400	72	87	4.597	278.4	27.46	12.83
111	2007	178	15	71.9	87.4	4.806	282.4	21.7	12.83
111	2007	178	30	71.8	87.8	4.19	285.4	20.33	12.83
111	2007	178	45	71.7	88.1	4.14	287.5	20.26	12.83
111	2007	178	100	71.6	88.2	4.073	287.8	18.86	12.83
111	2007	178	115	71.5	88.4	3.324	284.9	21.16	12.82
111	2007	178	130	71.3	88.7	2.513	285.8	17.08	12.81
111	2007	178	145	71	88.9	1.51	259.9	20.73	12.81
111	2007	178	200	70.8	89.2	1.732	261	17.19	12.8
111	2007	178	215	70.8	89.8	2.278	262.2	19.15	12.8
111	2007	178	230	70.9	90	1.877	277.9	22.09	12.79
111	2007	178	245	71	90.1	2.31	278.3	24.33	12.79
111	2007	178	300	71	90.2	2.488	274.3	17.9	12.78
111	2007	178	315	71	90.2	2.743	279.1	22.21	12.77
111	2007	178	330	70.9	90.5	2.552	285.3	19.96	12.77
111	2007	178	345	70.8	90.7	2.594	288.8	15.45	12.77
111	2007	178	400	70.6	90.7	2.633	283.2	18.09	12.76
111	2007	178	415	70.4	90.8	2.048	284.2	22.46	12.75
111	2007	178	430	70.2	90.9	1.855	281.6	17.17	12.75
111	2007	178	445	70	91.3	2.244	275.6	20.1	12.75
111	2007	178	500	70.1	91.3	3.126	286.3	17.66	12.74
111	2007	178	515	70.2	91.4	1.661	281.2	16.17	12.74
111	2007	178	530	70.1	91.5	1.324	275.1	18.41	12.74
111	2007	178	545	70.2	91.7	0.968	281.5	12.97	12.73
111	2007	178	600	70.2	91.7	0.959	267.3	17.2	12.73
111	2007	178	615	70.4	91.8	1.883	260.3	19.09	12.73
111	2007	178	630	70.8	91.7	2.54	271.7	21.66	12.73

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	178	645	71.3	91.1	2.989	270.5	23.63	12.73
111	2007	178	700	72.1	90.3	2.689	281.1	22.55	12.75
111	2007	178	715	72.8	89	3.533	276.3	25.8	12.79
111	2007	178	730	73.5	86.9	4.043	273.2	25.22	12.83
111	2007	178	745	74.3	84.8	4.839	276.2	24.88	12.91
111	2007	178	800	75.1	82.5	4.73	284.5	27.82	12.99
111	2007	178	815	75.4	81.5	5.481	271	28.9	13.11
111	2007	178	830	75.9	80.1	4.905	278.6	26.56	13.23
111	2007	178	845	76.6	78.9	4.957	280.8	23.02	13.33
111	2007	178	900	77.4	76.5	4.702	281.9	26.59	13.32
111	2007	178	915	77.1	77.5	7.04	282.1	22.41	13.32
111	2007	178	930	77.2	77.2	7.38	288.8	16.45	13.31
111	2007	178	945	77.7	76.1	6.394	275.3	22.5	13.31
111	2007	178	1000	77.8	75.4	5.922	267.5	32.68	13.3
111	2007	178	1015	77.8	78.2	6.084	259.2	24.19	13.3
111	2007	178	1030	77.7	75.4	6.176	261.1	29.76	13.29
111	2007	178	1045	78.1	76.2	6.962	267.3	26.06	13.29
111	2007	178	1100	78.4	73.7	6.454	268.7	26.72	13.29
111	2007	178	1115	80	71.4	6.523	275.4	29.44	13.28
111	2007	178	1130	80.3	73.4	7.42	279.8	21.29	13.28
111	2007	178	1145	80.3	71.4	6.984	283.4	25.93	13.28
111	2007	178	1200	79.9	73.3	6.972	260.8	25.83	13.28
111	2007	178	1215	80	75.4	6.932	259	27.06	13.28
111	2007	178	1230	79.7	74.3	6.92	256.5	23.79	13.27
111	2007	178	1245	80	71.7	6.783	256	28.71	13.27
111	2007	178	1300	79.6	72.9	7.28	253.6	23.39	13.27
111	2007	178	1315	80.7	71.2	6.511	259.1	24.19	13.27
111	2007	178	1330	80.7	71.2	6.664	238	24.13	13.26
111	2007	178	1345	81.8	67.41	5.659	249.1	24.89	13.26
111	2007	178	1400	82	70.5	6.775	242.9	25.2	13.26
111	2007	178	1415	81.7	70.9	7.2	252.9	24.65	13.26
111	2007	178	1430	81.1	69.52	8.02	270	24.24	13.26
111	2007	178	1445	82.6	65.78	6.847	276.9	22.19	13.26
111	2007	178	1500	82.9	62.63	6.192	270.4	35.75	13.26
111	2007	178	1515	82.7	65.57	6.652	247.3	26.69	13.25
111	2007	178	1530	81.3	69.42	6.501	244.2	30.91	13.25
111	2007	178	1545	80.9	70.2	8.09	268.7	28.64	13.25
111	2007	178	1600	79.7	71.2	8.71	270.6	23.5	13.25
111	2007	178	1615	79.6	69.85	7.88	266.6	27.41	13.26
111	2007	178	1630	78.7	74.2	7.04	243.1	24.83	13.26
111	2007	178	1645	77.6	76.4	5.233	255.4	29.86	13.22
111	2007	178	1700	76.5	78.3	6.217	273.8	24.02	13.11
111	2007	178	1715	75.3	80.6	6.473	260.6	24.51	13.06
111	2007	178	1730	74.6	81.1	6.241	254.5	25.33	13.04
111	2007	178	1745	74.4	81	6.958	257.5	24.59	13.05
111	2007	178	1800	74.3	81	6.819	257.9	29.35	13.13
111	2007	178	1815	74.4	82.4	7.32	267.6	27.12	13.15
111	2007	178	1830	74	82.8	8.35	274.8	24.55	13.07
111	2007	178	1845	74	82.4	9.02	276	22.31	13.05
111	2007	178	1900	74.1	82.8	8.75	296.5	29.42	13.02
111	2007	178	1915	74.1	83	6.819	285.5	22.11	12.97
111	2007	178	1930	73.7	83.9	8.74	288	23.38	12.94
111	2007	178	1945	73.6	84	7.88	296.5	21.23	12.92
111	2007	178	2000	73.5	84.3	8.13	291.1	19.65	12.91
111	2007	178	2015	73.8	83.3	7.25	286.6	28.4	12.9
111	2007	178	2030	74.1	82.8	4.587	270	30.98	12.89
111	2007	178	2045	74.9	81.7	6.037	271.8	24.07	12.88
111	2007	178	2100	75.5	82	5.955	266.7	25.9	12.88
111	2007	178	2115	75.7	80.3	6.519	285.4	25.62	12.87
111	2007	178	2130	76.2	71.1	5.097	279.2	21.93	12.87

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	178	2145	76.1	72.5	4.424	266.5	28.12	12.87
111	2007	178	2200	76.5	66.77	7.93	0.26	31.26	12.87
111	2007	178	2215	75.4	76.4	8.21	8.27	30.46	12.86
111	2007	178	2230	72.7	84.5	6.535	341.1	36.52	12.85
111	2007	178	2245	70.8	88.1	5.842	330.7	28.99	12.85
111	2007	178	2300	69.54	90.1	4.792	341	24.09	12.84
111	2007	178	2315	69.29	90.8	4.532	343.1	31.7	12.83
111	2007	178	2330	69.19	91.3	3.229	350.9	28.7	12.82
111	2007	178	2345	69.01	91.7	2.965	336.2	25.57	12.81
111	2007	178	2400	68.98	91.6	4.357	322	24.29	12.81
111	2007	179	15	69.16	91.6	5.068	324.6	25.15	12.79
111	2007	179	30	69.37	91.4	7.5	309.7	24.49	12.79
111	2007	179	45	69.5	91.3	6.978	303.5	19.57	12.78
111	2007	179	100	69.49	91.2	6.331	308.8	19.09	12.77
111	2007	179	115	69.43	91.7	5.753	299.5	19.39	12.77
111	2007	179	130	69.63	92.4	6.041	276.7	21.39	12.76
111	2007	179	145	69.77	92.4	6.831	272.8	22.68	12.75
111	2007	179	200	69.48	92.7	6.513	271	20.88	12.75
111	2007	179	215	69.42	92.8	4.52	268.4	26.08	12.75
111	2007	179	230	69.31	92.8	4.933	271.1	21.05	12.74
111	2007	179	245	69.23	92.8	4.277	280.1	21.7	12.73
111	2007	179	300	69.07	93	4.343	291.6	15.83	12.73
111	2007	179	315	69.05	93.2	3.674	269.3	23.72	12.73
111	2007	179	330	69.12	93.2	3.743	276.8	21.47	12.73
111	2007	179	345	69.17	93.2	4.375	290.4	18.26	12.73
111	2007	179	400	69.03	93.3	5.135	288.1	17.35	12.72
111	2007	179	415	68.83	93.3	5.618	287.1	28.75	12.73
111	2007	179	430	68.87	93.1	5.709	299.7	30.37	12.73
111	2007	179	445	69.18	93	6.186	303.1	25.35	12.72
111	2007	179	500	69.36	93	7	293.7	19.59	12.72
111	2007	179	515	69.46	93	6.928	292.8	16.68	12.72
111	2007	179	530	69.54	92.8	7.53	289.3	18.32	12.72
111	2007	179	545	69.42	92.8	7.35	291	22.54	12.73
111	2007	179	600	69.38	93	7.24	290.7	20.48	12.73
111	2007	179	615	69.43	92.8	6.867	286	19.68	12.73
111	2007	179	630	69.52	93	5.439	286.9	18.41	12.73
111	2007	179	645	69.74	92.7	6.458	288.8	21.64	12.72
111	2007	179	700	69.8	92.7	6.489	286.6	25.7	12.73
111	2007	179	715	69.99	92.5	6.495	293.5	18.46	12.77
111	2007	179	730	70.3	92	6.93	296.9	19.11	12.79
111	2007	179	745	70.8	91.6	4.716	295	27.79	12.89
111	2007	179	800	71.6	90.4	5.086	293.7	19.97	13.11
111	2007	179	815	72.5	88.4	5.487	295.8	22.2	13.34
111	2007	179	830	73.6	84.5	5.54	292.9	19.3	13.37
111	2007	179	845	74.5	82.1	6.138	294.5	25.76	13.35
111	2007	179	900	75.6	79.3	6.364	301.4	20.17	13.34
111	2007	179	915	76.2	78.7	5.882	283.5	22.92	13.33
111	2007	179	930	76.3	79.9	5.878	276.4	21.18	13.33
111	2007	179	945	77.1	77.1	6.986	297	20.04	13.32
111	2007	179	1000	77.9	78.5	5.491	277.5	31.44	13.31
111	2007	179	1015	77.5	76.9	6.348	285.6	20.36	13.31
111	2007	179	1030	78.6	75.4	5.447	272.6	30.54	13.3
111	2007	179	1045	78.9	76.8	6.366	269.4	26.74	13.3
111	2007	179	1100	80	73.2	6.192	280.6	24.07	13.3
111	2007	179	1115	80.9	71	5.862	285.1	25.5	13.29
111	2007	179	1130	81	71.2	6.827	266.8	25.04	13.28
111	2007	179	1145	80.9	70.7	6.235	268.8	27.06	13.28
111	2007	179	1200	81.4	71	7.13	267.7	23.51	13.28
111	2007	179	1215	81.3	69.02	7.55	281.7	23.36	13.27
111	2007	179	1230	81.6	68.45	6.871	257.1	27.38	13.27

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	179	1245	82.2	67.65	6.632	263.2	31.61	13.27
111	2007	179	1300	82.8	67.41	6.541	276.7	26.44	13.26
111	2007	179	1315	82.4	67.91	7.2	258	26.92	13.26
111	2007	179	1330	82.5	67.55	7.98	269.4	26.35	13.26
111	2007	179	1345	81.6	68.98	7.68	259.4	26.08	13.26
111	2007	179	1400	82	68.68	7.16	274.3	26.56	13.26
111	2007	179	1415	82.2	68.35	6.672	262.5	25.46	13.26
111	2007	179	1430	82.1	69.12	7.22	263.3	27.37	13.26
111	2007	179	1445	82.1	67.41	7.43	265.2	29.43	13.26
111	2007	179	1500	83.5	67.25	6.936	273.1	25.05	13.26
111	2007	179	1515	82.4	68.58	6.464	265.9	27.48	13.26
111	2007	179	1530	81.8	69.45	7.1	268.8	26.15	13.25
111	2007	179	1545	82.9	66.44	6.595	272.8	24.03	13.25
111	2007	179	1600	82.5	66.74	5.381	261.8	25.55	13.25
111	2007	179	1615	81.3	70.9	6.009	263.2	27.1	13.26
111	2007	179	1630	79.6	73.3	4.917	262.8	26.88	13.26
111	2007	179	1645	79.7	73.7	4.845	263.4	26.29	13.28
111	2007	179	1700	80.8	69.02	5.574	276.8	23.86	13.28
111	2007	179	1715	82.1	68.35	6.696	280.9	21.8	13.28
111	2007	179	1730	81.2	72.4	5.306	257.8	32.79	13.28
111	2007	179	1745	79.7	73.7	4.363	257.6	30.74	13.28
111	2007	179	1800	78.7	75.5	3.72	258	26.59	13.15
111	2007	179	1815	78.3	77.2	5.119	328.4	40	13.06
111	2007	179	1830	75.6	87.2	5.81	336.7	43.01	13.01
111	2007	179	1845	72.6	89.3	4.496	262	32.73	12.98
111	2007	179	1900	72.3	89.2	2.33	262.6	30.69	12.95
111	2007	179	1915	72.4	89	1.877	267.5	21.27	12.93
111	2007	179	1930	72.7	89.6	2.419	288.5	18.19	12.92
111	2007	179	1945	72.4	86.8	8.71	328.4	29.62	12.91
111	2007	179	2000	69.51	90.2	6.823	311.8	25.06	12.89
111	2007	179	2015	68.88	91.2	2.457	281	74.9	12.88
111	2007	179	2030	69.19	91.7	3.432	317.6	18.01	12.87
111	2007	179	2045	69.34	91.7	3.966	321.5	21.2	12.86
111	2007	179	2100	69.67	90.9	3.309	335.2	20.51	12.85
111	2007	179	2115	69.94	90.5	3.527	330.4	25.23	12.85
111	2007	179	2130	70.1	90.5	3.34	316.1	18	12.85
111	2007	179	2145	70.3	89.9	3.66	341.1	25.55	12.84
111	2007	179	2200	70.5	89.1	4.335	348	28.46	12.84
111	2007	179	2215	70.6	88.8	3.821	336.3	29.99	12.83
111	2007	179	2230	70.6	88.9	3.241	333.9	20.03	12.83
111	2007	179	2245	70.6	89.3	2.89	320.5	20.37	12.83
111	2007	179	2300	70.4	89.8	2.874	355.9	39.4	12.82
111	2007	179	2315	70.4	89.9	3.305	354.9	24.76	12.82
111	2007	179	2330	70.4	89.7	3.608	347.4	23.28	12.81
111	2007	179	2345	70.4	89.8	3.118	333.8	26.3	12.81
111	2007	179	2400	70.3	90	2.614	346.4	25.42	12.8
111	2007	180	15	70.2	90.1	2.407	344.4	26.61	12.8
111	2007	180	30	70.2	90.2	1.861	0.004	28.47	12.79
111	2007	180	45	70.1	90.4	2.181	353.2	28.17	12.79
111	2007	180	100	69.95	90.7	1.871	329.3	28.69	12.78
111	2007	180	115	69.87	90.7	1.203	330.3	27.4	12.77
111	2007	180	130	69.91	90.9	1.969	350.7	32.91	12.77
111	2007	180	145	69.9	91	1.522	347.5	31.47	12.76
111	2007	180	200	69.81	91.1	1.316	328.2	36.52	12.76
111	2007	180	215	69.72	91.1	1.464	6.638	23.17	12.75
111	2007	180	230	69.66	91.2	2.121	7.39	31.43	12.75
111	2007	180	245	69.68	91.2	1.612	7.24	26.94	12.74
111	2007	180	300	69.67	91.1	1.299	0.794	23.28	12.74
111	2007	180	315	69.66	91.2	1.285	339.3	22.82	12.73
111	2007	180	330	69.57	91.1	1.636	351.1	31.77	12.73

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	180	345	69.61	90.9	1.528	29.87	32.09	12.73
111	2007	180	400	69.67	90.8	1.222	19.94	24.83	12.73
111	2007	180	415	69.55	91	0.68	314.3	23.85	12.73
111	2007	180	430	69.44	91	1.387	341.7	27.1	12.73
111	2007	180	445	69.16	90.6	1.404	339.7	41.44	12.73
111	2007	180	500	68.96	90.3	0.419	323.7	33.42	12.72
111	2007	180	515	68.86	89.5	1.652	18.05	32.14	12.72
111	2007	180	530	68.86	88.7	1.539	33.44	40.1	12.72
111	2007	180	545	68.81	87.2	1.769	41.88	30.53	12.72
111	2007	180	600	68.78	86	2.05	38.85	36.83	12.72
111	2007	180	615	68.65	85.5	2.302	28.75	24.31	12.72
111	2007	180	630	68.56	84.3	3.06	42.86	24.32	12.72
111	2007	180	645	68.5	81.9	3.295	38.53	23.49	12.72
111	2007	180	700	68.39	79.4	3.093	54.84	31.92	12.72
111	2007	180	715	68.29	78.1	3.38	46.58	28.15	12.72
111	2007	180	730	68.33	77.1	3.255	50.7	24.6	12.73
111	2007	180	745	68.36	76.5	4.152	49.98	22.63	12.76
111	2007	180	800	68.4	76.1	3.896	58.89	22.53	12.85
111	2007	180	815	68.37	75.1	4.514	67.64	21.92	12.93
111	2007	180	830	68.3	75.3	4.677	62.97	23.14	12.93
111	2007	180	845	68.21	74.3	5.344	70.8	20.61	13.05
111	2007	180	900	68.12	73.1	5.197	66.14	18.95	13.15
111	2007	180	915	68.05	71.4	6.106	70.4	20.03	13.33
111	2007	180	930	67.89	71.4	5.437	62.93	17.68	13.39
111	2007	180	945	67.87	70	5.574	65.86	22.49	13.38
111	2007	180	1000	67.65	68.09	6.076	69.56	21.2	13.3
111	2007	180	1015	67.43	69.23	5.016	68.95	22.48	13.23
111	2007	180	1030	67.45	69.93	4.591	67.49	20.18	13.3
111	2007	180	1045	67.64	66.82	5.947	75.2	23.06	13.43
111	2007	180	1100	67.8	65.59	6.509	87.9	24.77	13.42
111	2007	180	1115	68.36	64.78	5.131	90.9	27.74	13.41
111	2007	180	1130	68.96	63.34	5.004	77.1	21.99	13.41
111	2007	180	1145	69.61	62.07	4.951	67.84	26.04	13.4
111	2007	180	1200	70.4	61.97	4.502	79.7	34.76	13.39
111	2007	180	1215	70.1	61.36	4.589	94.3	20	13.39
111	2007	180	1230	70.2	62.93	4.176	77	33.09	13.39
111	2007	180	1245	70.4	61.9	4.78	49.34	24.66	13.39
111	2007	180	1300	70.2	61.6	4.563	54.46	26.87	13.39
111	2007	180	1315	70	62.26	4.41	66.37	24.34	13.38
111	2007	180	1330	70.2	61.53	3.932	99.3	24.3	13.39
111	2007	180	1345	70.4	61.83	4.063	73	25.22	13.39
111	2007	180	1400	70.7	57.75	4.923	104.5	28.34	13.38
111	2007	180	1415	70.9	58.32	3.265	42.77	43.77	13.37
111	2007	180	1430	71.8	59.75	3.157	62.77	40.83	13.37
111	2007	180	1445	72.6	54.97	2.834	99	48.52	13.35
111	2007	180	1500	73.2	52.06	2.566	257.6	96.8	13.35
111	2007	180	1515	73.1	55.87	3.459	157.8	56.39	13.34
111	2007	180	1530	72.5	61.68	5.487	215.7	28.4	13.34
111	2007	180	1545	71	63.49	5.497	219.3	21.86	13.34
111	2007	180	1600	70.2	65.2	5.276	215.6	27.28	13.36
111	2007	180	1615	70.1	63.69	5.399	204.8	19.34	13.37
111	2007	180	1630	70.6	63.69	6.301	198.1	24.6	13.37
111	2007	180	1645	70.5	63.56	6.541	214.8	29.17	13.37
111	2007	180	1700	70.4	60.92	5.36	219.4	25.98	13.37
111	2007	180	1715	70.7	61.69	4.966	230.4	23.93	13.37
111	2007	180	1730	70.4	63.46	4.986	224.9	30.12	13.37
111	2007	180	1745	70.2	63.96	4.71	226.5	29.4	13.37
111	2007	180	1800	69.38	65.23	5.894	226	22.24	13.38
111	2007	180	1815	69.02	66.61	5.274	234.8	20.04	13.39
111	2007	180	1830	68.65	68.38	4.538	247.6	24.65	13.4

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	180	1845	68.39	69.49	3.974	248.1	25.54	13.41
111	2007	180	1900	68.43	71.3	3.714	252	26.55	13.41
111	2007	180	1915	68.06	72.5	3.825	264.2	24.2	13.17
111	2007	180	1930	67.76	74.1	2.774	244.1	33.5	13.07
111	2007	180	1945	67.64	75.3	2.582	247.3	32.64	13.01
111	2007	180	2000	67.41	76.4	3.263	251.6	24.7	12.97
111	2007	180	2015	67.14	78	3.128	253.7	25.33	12.95
111	2007	180	2030	66.96	79	3.297	269.6	25.01	12.93
111	2007	180	2045	66.75	80.2	3.213	266.6	21.97	12.91
111	2007	180	2100	66.66	80.8	3.299	257.4	23.94	12.9
111	2007	180	2115	66.73	81.7	2.927	265.5	25.48	12.89
111	2007	180	2130	66.66	82.8	3.874	263.9	29.77	12.89
111	2007	180	2145	66.72	82.9	5.076	265	23.74	12.88
111	2007	180	2200	66.55	82.2	4.873	264.8	23.36	12.87
111	2007	180	2215	66.39	81.8	4.46	264.7	24.09	12.87
111	2007	180	2230	66.22	80.1	4.474	270.3	25.44	12.86
111	2007	180	2245	66.03	80.5	4.279	268.7	24.76	12.86
111	2007	180	2300	65.9	80.9	4.685	267.2	23.24	12.85
111	2007	180	2315	65.87	80.1	4.272	279.5	24.67	12.85
111	2007	180	2330	65.87	80.1	4.976	273.7	19.12	12.85
111	2007	180	2345	65.81	80.2	3.988	271.1	24.9	12.84
111	2007	180	2400	65.84	80.7	4.248	284	22.06	12.84
111	2007	181	15	65.71	81.6	4.595	288.4	18	12.84
111	2007	181	30	65.57	81.5	4.353	292.5	16.03	12.83
111	2007	181	45	65.28	81.7	4.476	288.5	17.02	12.83
111	2007	181	100	65.24	82.2	3.982	289.6	19.5	12.82
111	2007	181	115	65.18	83.5	3.998	287.2	18.58	12.82
111	2007	181	130	65.14	84.7	3.263	302	23.1	12.81
111	2007	181	145	64.82	85.9	2.473	304.5	20.81	12.81
111	2007	181	200	64.6	87.2	2.822	298.6	16.21	12.8
111	2007	181	215	64.34	88.2	2.62	289.8	15.07	12.8
111	2007	181	230	64.16	89	2.377	292.2	18.45	12.79
111	2007	181	245	64.07	89.7	2.882	304.5	20.45	12.79
111	2007	181	300	64.1	90.4	3.017	315	20.56	12.78
111	2007	181	315	64.04	90.8	3.354	310.7	24.63	12.78
111	2007	181	330	63.86	91	3.307	293.3	13.68	12.77
111	2007	181	345	63.61	91.2	2.85	306.8	18.41	12.76
111	2007	181	400	63.42	91.2	2.695	315.5	21.9	12.76
111	2007	181	415	63.12	91.3	2.068	306.8	14.9	12.75
111	2007	181	430	62.65	91.6	1.972	299.6	17.74	12.74
111	2007	181	445	62.5	91.8	2.709	315.7	16.39	12.74
111	2007	181	500	62.26	92	2.494	318.4	18.66	12.73
111	2007	181	515	62.07	92	2.123	329.5	23.98	12.72
111	2007	181	530	61.76	92.1	2.038	351.3	18.21	12.72
111	2007	181	545	61.45	92.2	2.018	4.395	27.45	12.71
111	2007	181	600	61.36	92.6	1.915	318.8	20.78	12.7
111	2007	181	615	61.85	91	1.821	343.2	30.45	12.7
111	2007	181	630	61.93	89	2.338	3.072	28.46	12.7
111	2007	181	645	62.35	85.9	2.286	30.39	27.06	12.72
111	2007	181	700	62.83	82.2	2.733	27.22	20.88	12.75
111	2007	181	715	63.62	77.2	3.074	35.87	20.53	12.79
111	2007	181	730	64.67	72.1	3.801	35.64	20.19	12.86
111	2007	181	745	65.92	68.62	2.733	39.59	39.17	12.95
111	2007	181	800	66.46	65.93	3.964	28.5	22.2	13.03
111	2007	181	815	67.12	63.16	4.246	35.06	22.11	13.15
111	2007	181	830	68.03	59.94	3.769	8.63	28.99	13.22
111	2007	181	845	69.14	49.43	3.581	61.44	43.42	13.31
111	2007	181	900	69.69	49.4	3.729	60.04	35.93	13.4
111	2007	181	915	70.3	46.62	4.641	71	24.67	13.41
111	2007	181	930	70.6	46.55	4.51	70.1	22.69	13.4

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	181	945	71.2	44.28	4.647	61.82	24.98	13.39
111	2007	181	1000	71.9	42.27	4.637	59.76	23.36	13.39
111	2007	181	1015	72.4	41	4.859	70.4	23.51	13.38
111	2007	181	1030	72.7	40.93	4.579	63.94	29.88	13.37
111	2007	181	1045	73.4	38.78	4.54	33.71	34.91	13.37
111	2007	181	1100	74	39.52	4.627	22.24	32.67	13.36
111	2007	181	1115	74.9	32.4	5.235	25.3	43.42	13.36
111	2007	181	1130	75.3	32.06	4.913	36.77	38.65	13.35
111	2007	181	1145	75.6	30.36	4.871	8.22	37.66	13.35
111	2007	181	1200	76.3	30.19	5.767	9.22	37.6	13.34
111	2007	181	1215	77.2	29.19	4.688	30.69	36.03	13.34
111	2007	181	1230	76.5	30.06	5.495	18.17	45.59	13.33
111	2007	181	1245	77.2	27.25	5.165	0.049	51.64	13.33
111	2007	181	1300	77.7	26.88	4.808	40.04	44.69	13.33
111	2007	181	1315	77.7	39.55	3.898	330	79.8	13.32
111	2007	181	1330	76.5	45.93	4.847	236.8	34.83	13.32
111	2007	181	1345	75.7	51.01	6.821	242.9	25.66	13.32
111	2007	181	1400	75	47.23	6.591	246.8	25.77	13.32
111	2007	181	1415	75.6	40.35	7.26	254.9	29.28	13.32
111	2007	181	1430	75.4	43.4	6.716	254.8	27.64	13.32
111	2007	181	1445	75	49.18	7.03	245.9	23.52	13.32
111	2007	181	1500	74.9	46.37	7.35	269.8	24.23	13.32
111	2007	181	1515	75.1	46.67	7.24	265.2	25.23	13.32
111	2007	181	1530	75.2	45.44	8.23	278.8	20.88	13.32
111	2007	181	1545	75.2	45.47	8.03	275.4	23.77	13.32
111	2007	181	1600	75.4	43.83	7.92	272	23.72	13.32
111	2007	181	1615	75	44.26	6.825	257.6	28.03	13.32
111	2007	181	1630	74.8	42.16	7.01	251.5	23.55	13.32
111	2007	181	1645	75.5	45.63	5.566	251.4	26.43	13.32
111	2007	181	1700	74.7	45.2	6.628	239.2	27.83	13.32
111	2007	181	1715	74.2	44.7	6.205	253.7	24.35	13.32
111	2007	181	1730	74.5	47.11	5.922	251.4	27.34	13.33
111	2007	181	1745	74.5	45.94	4.476	247.2	31.52	13.34
111	2007	181	1800	74.1	49.45	7.15	267.3	24.11	13.34
111	2007	181	1815	73	51.96	6.634	262.6	22.94	13.34
111	2007	181	1830	72.6	55.3	5.739	260.4	30.56	13.36
111	2007	181	1845	72	57.14	5.383	267.5	28.81	13.36
111	2007	181	1900	71.3	58.34	4.879	259.6	25.96	13.37
111	2007	181	1915	71	61.05	5.086	267.3	26.8	13.38
111	2007	181	1930	70.5	61.36	5.538	274.3	28.16	13.39
111	2007	181	1945	70.8	62.1	5.916	278.2	19.44	13.38
111	2007	181	2000	70.3	60.69	5.977	278	25.02	13.31
111	2007	181	2015	69.77	57.08	5.786	273	27.31	13.07
111	2007	181	2030	69.4	58.53	4.863	285.2	21.22	13.01
111	2007	181	2045	69.17	60.2	5.302	281.5	19.64	12.97
111	2007	181	2100	68.77	64.55	4.43	281.2	21.44	12.94
111	2007	181	2115	68.34	67.96	3.588	279.9	19.34	12.92
111	2007	181	2130	67.83	70.8	3.378	278.5	19.53	12.9
111	2007	181	2145	67.57	72	3.618	280.2	20.1	12.89
111	2007	181	2200	67.46	72.8	3.366	281.2	18.1	12.88
111	2007	181	2215	67.41	72.5	3.662	284.9	20.26	12.87
111	2007	181	2230	67.19	71.3	2.854	282.6	21.52	12.87
111	2007	181	2245	67.15	71.8	3.247	277.6	23.56	12.86
111	2007	181	2300	67.09	72.5	3.517	278.1	21.36	12.85
111	2007	181	2315	66.97	73.8	2.59	288.3	20.76	12.85
111	2007	181	2330	66.62	74.4	2.119	281.5	21.44	12.84
111	2007	181	2345	66.26	73.2	2.641	279.4	18.65	12.83
111	2007	181	2400	66.17	74.8	1.938	283.4	14.31	12.83
111	2007	182	15	66.34	75.6	2.856	293	22.1	12.83
111	2007	182	30	66.57	76.8	3.328	289.6	16.48	12.83

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	182	45	66.59	75.3	3.029	301.5	19.9	12.82
111	2007	182	100	66.64	72.5	3.06	298.7	16.12	12.82
111	2007	182	115	66.98	65.33	3.217	321.1	23.63	12.82
111	2007	182	130	66.62	73.6	7.4	357.6	30.89	12.81
111	2007	182	145	62.72	82.3	7.93	50.66	28.22	12.81
111	2007	182	200	60.65	84.3	6.704	57.88	23.96	12.81
111	2007	182	215	60.49	83.3	7.39	60.5	22.72	12.8
111	2007	182	230	60.58	82.8	6.68	56.43	21.94	12.79
111	2007	182	245	60.65	81.8	5.999	60.57	22.63	12.78
111	2007	182	300	60.35	82.5	4.27	61.35	23.65	12.78
111	2007	182	315	60.11	82.7	3.185	48.84	24.83	12.77
111	2007	182	330	59.94	83.2	2.14	45.96	24.83	12.76
111	2007	182	345	59.51	84.3	1.891	40.24	32.97	12.76
111	2007	182	400	59.03	85.8	1.934	10.04	28.66	12.75
111	2007	182	415	58.59	86.9	1.728	3.211	29.35	12.74
111	2007	182	430	58.23	87.2	1.627	25.15	30.71	12.74
111	2007	182	445	58.09	86.9	2.705	24.04	23.59	12.73
111	2007	182	500	57.9	87	2.276	2.27	26.37	12.72
111	2007	182	515	57.48	87.6	1.682	352.9	24.61	12.71
111	2007	182	530	57.11	87.9	1.871	343.6	23.19	12.7
111	2007	182	545	56.8	88	2.383	357	35.03	12.7
111	2007	182	600	57.28	86.9	3.064	10.57	28.01	12.68
111	2007	182	615	57.89	85.8	2.165	358.3	25.3	12.68
111	2007	182	630	58.51	83.6	2.659	3.381	31.82	12.68
111	2007	182	645	59.41	77	4.011	32.96	26.7	12.68
111	2007	182	700	60.23	72.6	5.225	35.74	23.54	12.7
111	2007	182	715	60.91	69.4	5.248	36.89	23.88	12.72
111	2007	182	730	61.2	68.73	6.757	33.56	23.86	12.76
111	2007	182	745	61.37	66.55	6.984	27.98	26.13	12.8
111	2007	182	800	61.81	66.08	6.593	28.9	27.94	12.84
111	2007	182	815	62.12	63.6	6.753	39.95	24.38	12.88
111	2007	182	830	62.84	61.72	6.261	38.81	23.5	12.93
111	2007	182	845	62.93	58.24	7.04	32.92	26.1	12.97
111	2007	182	900	63.05	59.48	8.08	42.87	25.04	13.01
111	2007	182	915	63.82	57.2	6.708	50.33	24.92	13.05
111	2007	182	930	64.11	57.27	7.85	48.4	16.12	13.1
111	2007	182	945	64.83	55.9	6.015	19.92	30.68	13.13
111	2007	182	1000	65.53	53.15	6.761	30.74	34.27	13.22
111	2007	182	1015	65.39	52.01	6.726	27.26	28.34	13.34
111	2007	182	1030	66.08	51.07	8.43	36.66	29.64	13.41
111	2007	182	1045	66.27	48.66	8.33	49.27	27.88	13.43
111	2007	182	1100	66.59	46.19	8.72	32.43	31.32	13.42
111	2007	182	1115	67.28	47.02	7.22	45.79	27.78	13.42
111	2007	182	1130	67.25	43.81	8.37	58.29	26.82	13.38
111	2007	182	1145	67.51	45.38	8.25	60.26	29.94	13.42
111	2007	182	1200	67.3	46.15	7.5	36.34	29.99	13.41
111	2007	182	1215	67.77	43.85	8.42	50.93	28.96	13.41
111	2007	182	1230	68.37	40.8	9.28	47.24	25.89	13.41
111	2007	182	1245	68.87	41.17	8.46	49.11	36.78	13.4
111	2007	182	1300	69.17	42.64	8.36	38.24	33.37	13.39
111	2007	182	1315	69.2	43.1	7.15	30.05	34.53	13.39
111	2007	182	1330	69.51	40.6	6.607	35.39	32.26	13.39
111	2007	182	1345	70.1	39.89	6.45	34.58	36.44	13.39
111	2007	182	1400	70.7	34.58	7.04	38.16	39.38	13.38
111	2007	182	1415	70.3	37.75	8.22	21.27	30.89	13.38
111	2007	182	1430	71	35.94	7.72	21.26	28.72	13.37
111	2007	182	1445	70.1	39.75	7.55	33.47	27.62	13.37
111	2007	182	1500	69.8	37.88	6.521	33.68	26.98	13.38
111	2007	182	1515	71.3	35.98	6.916	358.6	31.1	13.37
111	2007	182	1530	70.9	38.68	5.86	5.018	30.96	13.37

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	182	1545	70.2	39.72	5.663	27.11	28.12	13.37
111	2007	182	1600	71.8	37.08	4.883	42.05	29.43	13.37
111	2007	182	1615	70.6	38.88	5.882	45.32	34.03	13.37
111	2007	182	1630	70.9	38.28	5.417	52.28	33.01	13.37
111	2007	182	1645	69.82	39.19	5.28	38.32	20.62	13.38
111	2007	182	1700	69.87	40.46	4.581	23.31	27.25	13.38
111	2007	182	1715	69.96	40.09	4.754	15.38	33.26	13.39
111	2007	182	1730	70.2	40.36	3.769	34.06	43.02	13.39
111	2007	182	1745	69.9	40.23	4.216	43.81	34.41	13.39
111	2007	182	1800	70	39.96	4.152	18.22	37.05	13.4
111	2007	182	1815	70.1	41.73	2.802	355.4	38.34	13.41
111	2007	182	1830	69.88	40.66	3.233	7.7	27.87	13.41
111	2007	182	1845	69.78	39.06	3.277	21.63	35.51	13.16
111	2007	182	1900	69.72	40.97	3.166	357.9	36.66	13.07
111	2007	182	1915	69.72	41.17	2.836	358.6	27.91	13.07
111	2007	182	1930	70.1	41.07	3.191	3.401	34.1	13.11
111	2007	182	1945	69.42	41.71	2.967	3.341	25.85	13.04
111	2007	182	2000	69.55	42.11	2.762	4.967	30.08	13.11
111	2007	182	2015	68.79	44.08	2.661	355.4	29.64	13.03
111	2007	182	2030	68.27	45.18	2.85	360	25.31	12.98
111	2007	182	2045	67.7	46.82	2.359	351.8	28.22	12.95
111	2007	182	2100	66.94	48.7	2.018	359.6	25.55	12.93
111	2007	182	2115	66.62	49.54	2.011	354.7	25.37	12.91
111	2007	182	2130	65.94	51.51	2.077	351	20.61	12.9
111	2007	182	2145	65.2	54.19	1.827	357.5	33.66	12.89
111	2007	182	2200	64.05	56.06	1.962	339.1	20.44	12.87
111	2007	182	2215	63.26	56.91	1.772	348	23.33	12.87
111	2007	182	2230	63.32	55.47	2.699	8.07	29.73	12.86
111	2007	182	2245	64.69	50.69	4.309	38.42	22.21	12.86
111	2007	182	2300	65.21	49.95	4.434	37.7	23.22	12.86
111	2007	182	2315	64.89	51.49	4.158	39.81	20.64	12.85
111	2007	182	2330	64.34	50.32	4.087	48.08	21.79	12.84
111	2007	182	2345	63.98	49.05	4.351	47.95	20.85	12.84
111	2007	182	2400	63.62	48.48	4.863	52.97	24.24	12.84
111	2007	183	15	63.37	47.81	6.618	53.38	17.01	12.83
111	2007	183	30	62.65	53.23	4.361	35.46	26.63	12.82
111	2007	183	45	61.82	51.96	5.713	33.3	21.72	12.82
111	2007	183	100	61.44	52.96	4.683	28.16	25.6	12.81
111	2007	183	115	60.65	55.11	4.093	15.21	26.93	12.81
111	2007	183	130	60.14	55.51	4.176	30.61	23.32	12.8
111	2007	183	145	59.78	55.61	4.291	32.33	17.48	12.79
111	2007	183	200	59.43	55.55	4.2	23.15	22.76	12.78
111	2007	183	215	59.12	54.68	4.301	25.3	24.92	12.78
111	2007	183	230	59.1	54.74	4.71	27.41	24.51	12.77
111	2007	183	245	58.8	56.02	3.718	28.36	27.76	12.76
111	2007	183	300	58.35	56.92	3.231	24.6	28.1	12.75
111	2007	183	315	57.88	57.73	3.164	15.46	25.92	12.74
111	2007	183	330	57.56	59.27	2.824	10.79	27.39	12.73
111	2007	183	345	56.68	61.38	3.295	1.933	27.13	12.72
111	2007	183	400	56.54	62.22	3.195	4.578	30.31	12.72
111	2007	183	415	56.42	62.99	3.859	16.15	30.5	12.7
111	2007	183	430	56.51	63.55	4.44	25.36	20.25	12.7
111	2007	183	445	56.31	63.69	3.954	29.04	32.03	12.68
111	2007	183	500	56.16	63.92	3.954	29.48	25.05	12.68
111	2007	183	515	55.75	64.73	3.793	13.64	28.12	12.67
111	2007	183	530	55.3	66.74	3.586	13.21	24.09	12.66
111	2007	183	545	54.94	67.71	3.588	17.39	26	12.66
111	2007	183	600	55	68.05	3.322	11.73	26.43	12.65
111	2007	183	615	55.26	67.88	3.71	17.33	27.04	12.65
111	2007	183	630	55.7	67.24	3.886	8.58	28.24	12.65

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	183	645	56.62	66	4.409	18.92	26.01	12.65
111	2007	183	700	57.42	65.36	4.569	28.65	29.69	12.67
111	2007	183	715	58.31	64.08	3.968	11.48	33.09	12.7
111	2007	183	730	59.42	61.81	4.101	20.6	33.8	12.74
111	2007	183	745	60.06	60.16	5.914	33.03	25.85	12.78
111	2007	183	800	60.86	58.08	5.209	15.7	31.25	12.82
111	2007	183	815	61.43	55.34	6.91	28.14	29.85	12.86
111	2007	183	830	61.86	53.83	7.12	33.33	27.53	12.92
111	2007	183	845	62.41	54.3	6.851	41.71	30.88	12.96
111	2007	183	900	62.88	54.33	7.67	51.28	25.07	13.01
111	2007	183	915	63.16	50.78	7.1	47.78	34.14	13.06
111	2007	183	930	63.87	52.15	6.912	32.38	30.43	13.09
111	2007	183	945	64.19	52.95	7.62	32.11	32.34	13.13
111	2007	183	1000	64.96	47.13	7.59	35.42	29.28	13.17
111	2007	183	1015	65.51	45.69	7.44	39.4	29.31	13.34
111	2007	183	1030	66.08	44.82	7.13	35.88	31.37	13.43
111	2007	183	1045	66.22	45.95	8.5	35.26	35.55	13.43
111	2007	183	1100	66.28	45.75	9.02	51.27	25.71	13.43
111	2007	183	1115	67.19	43.41	6.597	39.21	34.3	13.41
111	2007	183	1130	67.72	41.24	7.48	31.95	26.19	13.41
111	2007	183	1145	67.31	39.33	9.7	41.47	19.54	13.41
111	2007	183	1200	67.71	40.16	8.86	45.17	32.5	13.41
111	2007	183	1215	67.74	42.94	8.66	52.69	27.66	13.41
111	2007	183	1230	68.45	40.6	7.9	40.65	33.32	13.41
111	2007	183	1245	68.22	42.17	7.04	45.01	30.77	13.4
111	2007	183	1300	68.84	40.3	7.25	20.23	36.54	13.4
111	2007	183	1315	68.31	38.49	7.19	14.58	29.87	13.4
111	2007	183	1330	68.43	39.63	6.275	17.71	35.46	13.41
111	2007	183	1345	69.46	38.49	6.652	43.87	28.32	13.4
111	2007	183	1400	69.57	37.79	6.466	37.23	30.64	13.39
111	2007	183	1415	69.59	37.05	7.05	42.93	28.15	13.39
111	2007	183	1430	69.87	39.12	7.37	21.02	30.73	13.39
111	2007	183	1445	70.9	34.94	6.591	8.68	38.81	13.39
111	2007	183	1500	70.7	36.85	6.791	35.4	32.06	13.39
111	2007	183	1515	70.5	36.68	6.603	51.47	32.69	13.39
111	2007	183	1530	70.5	35.98	7.05	41.46	31.77	13.39
111	2007	183	1545	70.5	34.07	7.58	47.19	26.2	13.39
111	2007	183	1600	71.4	35.07	6.507	28.58	31.8	13.38
111	2007	183	1615	69.97	36.14	6.09	41.02	32.84	13.38
111	2007	183	1630	70.3	34.97	5.544	42.17	30.49	13.39
111	2007	183	1645	71.3	36.44	5.622	60.74	21.45	13.38
111	2007	183	1700	72.3	34.7	5.403	15.87	44.13	13.37
111	2007	183	1715	72.6	32.9	5.516	354.2	28.07	13.37
111	2007	183	1730	71	34.7	5.362	21.14	34.37	13.37
111	2007	183	1745	71.7	31.96	5.032	30.47	36.14	13.38
111	2007	183	1800	72.4	33.37	4.859	21.35	38.41	13.38
111	2007	183	1815	71.8	33.87	4.937	355.7	41.29	13.38
111	2007	183	1830	71	34.1	4.264	347.4	27.17	13.39
111	2007	183	1845	71.8	32.63	4.305	1.122	33.05	13.39
111	2007	183	1900	72.2	32.1	3.531	10.78	41.47	13.39
111	2007	183	1915	72	32.5	4.553	345.9	26.68	13.39
111	2007	183	1930	71.5	33.3	3.944	341.5	24.29	13.4
111	2007	183	1945	71.5	34.04	2.564	331.9	25.3	13.41
111	2007	183	2000	71.1	36.08	2.455	321.5	21.18	13.19
111	2007	183	2015	69.09	51.6	3.465	277.7	24.23	13.07
111	2007	183	2030	67.1	59.23	5.254	281.3	19.23	13.01
111	2007	183	2045	66.13	61.64	4.144	278.7	18.55	12.97
111	2007	183	2100	65.41	63.21	3.531	285.7	14.93	12.94
111	2007	183	2115	64.85	65.19	3.011	284.9	17.71	12.92
111	2007	183	2130	64.54	66.6	2.931	302.2	22.08	12.91

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	183	2145	64.14	68.31	1.891	312.7	19.19	12.9
111	2007	183	2200	63.72	69.78	1.365	305.1	28.97	12.88
111	2007	183	2215	63.56	70.7	2.751	307.5	20.16	12.88
111	2007	183	2230	63.68	71.8	2.719	321.8	15.16	12.86
111	2007	183	2245	63.64	73.4	3.86	297	19.7	12.86
111	2007	183	2300	63.78	73.9	2.965	309.4	22.17	12.85
111	2007	183	2315	63.48	75.4	2.659	310.7	22.9	12.85
111	2007	183	2330	63.39	76.2	2.753	318.6	24.8	12.84
111	2007	183	2345	63.04	77.6	2.653	320.5	16.83	12.84
111	2007	183	2400	62.58	79	2.25	328.4	16.94	12.83
111	2007	184	15	61.99	80	1.201	338	23.1	12.82
111	2007	184	30	61.06	82.2	1.543	331.3	10.17	12.82
111	2007	184	45	60.24	83.5	0.608	323.3	5.218	12.81
111	2007	184	100	59.48	84.7	0.488	347.3	15.96	12.8
111	2007	184	115	58.86	85.9	0.3	296.8	9.95	12.8
111	2007	184	130	58.41	86.8	1.178	345.2	12.6	12.79
111	2007	184	145	58.3	87.3	1.216	291.3	23.43	12.78
111	2007	184	200	57.97	88.2	1.416	330.3	34.63	12.78
111	2007	184	215	58.4	87.6	1.46	346.3	19	12.77
111	2007	184	230	58.23	87.5	0.99	345.4	21.9	12.76
111	2007	184	245	57.87	87.7	0.571	339.6	13.82	12.76
111	2007	184	300	57.55	87.4	0.464	351.2	22.34	12.74
111	2007	184	315	57.07	87.5	0.098	29.11	1.124	12.74
111	2007	184	330	56.82	87.1	1.041	53.59	11.31	12.73
111	2007	184	345	56.34	87	1.255	352	17.99	12.72
111	2007	184	400	55.75	87.2	0.915	356.4	18.65	12.72
111	2007	184	415	55.63	86.4	1.272	23.66	10.94	12.7
111	2007	184	430	55.75	85	1.334	32.07	21.71	12.7
111	2007	184	445	55.86	83.3	1.938	15.52	25.54	12.68
111	2007	184	500	55.81	82.9	1.95	311.8	22.98	12.68
111	2007	184	515	55.15	83.7	1.794	325.7	29.99	12.67
111	2007	184	530	54.81	84	1.098	331.3	25.14	12.66
111	2007	184	545	54.72	83.9	1.553	330.2	15.3	12.66
111	2007	184	600	54.79	84.1	0.97	0.522	17.76	12.65
111	2007	184	615	55.95	80.6	1.653	352.8	21.7	12.64
111	2007	184	630	57.65	75.6	1.835	357.4	23.76	12.64
111	2007	184	645	59.4	71.2	1.901	11.17	27.25	12.64
111	2007	184	700	60.84	67	2.858	37.68	22.31	12.67
111	2007	184	715	61.74	63.82	4.264	30.69	22.38	12.7
111	2007	184	730	62.69	61.54	4.095	38.53	19.59	12.74
111	2007	184	745	63.94	58.65	3.896	27.5	30.73	12.78
111	2007	184	800	64.97	56.51	3.565	22.12	32.57	12.82
111	2007	184	815	66.06	55.56	3.773	22.28	31.61	12.86
111	2007	184	830	66.97	54.12	3.459	345.8	30.3	12.92
111	2007	184	845	68.43	50.1	2.913	2.418	49.68	12.97
111	2007	184	900	68.79	49.8	4.069	31.33	31.14	13.03
111	2007	184	915	69.32	49.93	4.087	37.1	32.69	13.09
111	2007	184	930	69.54	46.95	5.082	1.639	33.93	13.2
111	2007	184	945	69.82	44.91	4.52	6.084	34	13.33
111	2007	184	1000	70.9	44.61	4.144	34.46	37.36	13.39
111	2007	184	1015	71.7	42.07	4.262	48.56	32.26	13.38
111	2007	184	1030	71.6	40.7	4.262	9.12	35.46	13.37
111	2007	184	1045	72.3	40.16	3.688	337.2	33.38	13.37
111	2007	184	1100	72.2	39.82	3.467	20.12	33.93	13.37
111	2007	184	1115	72.5	39.85	4.492	335.1	52.95	13.37
111	2007	184	1130	72.9	38.75	4.228	331.8	36.83	13.36
111	2007	184	1145	73.5	37.91	3.833	17.32	60.86	13.36
111	2007	184	1200	74.3	34.6	4.214	322.5	40.31	13.35
111	2007	184	1215	73.8	37.04	5.07	337	39.65	13.35
111	2007	184	1230	73.9	42.46	5.078	340	40.28	13.35

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	184	1245	73.8	44.27	4.76	277.2	30.64	13.35
111	2007	184	1300	74	46.77	5.317	259.8	44.44	13.35
111	2007	184	1315	73.7	44.3	6.759	247.3	24.4	13.34
111	2007	184	1330	73	41.49	7.33	257.1	27.96	13.34
111	2007	184	1345	73.2	46.57	8.06	265.1	24.6	13.35
111	2007	184	1400	73.8	42.46	6.934	263.5	29.89	13.35
111	2007	184	1415	73.4	42.76	8.34	265.6	25.02	13.35
111	2007	184	1430	73.2	44.8	7.93	259.2	28.93	13.35
111	2007	184	1445	73	44.5	8.62	261.7	26.56	13.35
111	2007	184	1500	73.2	39.89	8.22	272.8	30.25	13.35
111	2007	184	1515	73.7	45.47	8.4	270.2	28.11	13.35
111	2007	184	1530	72.4	49.15	9.41	275	26.65	13.35
111	2007	184	1545	72.6	44.53	8.16	255	27.55	13.35
111	2007	184	1600	72.7	43.4	8.41	265.5	24.97	13.35
111	2007	184	1615	73.4	49.35	7.69	275.4	26.08	13.35
111	2007	184	1630	73.7	46.34	7.01	269.4	26.9	13.35
111	2007	184	1645	73.2	49.52	7.08	256.8	28.23	13.35
111	2007	184	1700	72.3	52.06	7.13	244.1	27.88	13.35
111	2007	184	1715	71.8	51.35	6.956	253.4	22.87	13.35
111	2007	184	1730	71.8	51.62	7.42	263.9	25.96	13.36
111	2007	184	1745	71.3	54.5	7.7	263.8	23.98	13.37
111	2007	184	1800	70.8	55.57	6.63	257.4	26.91	13.38
111	2007	184	1815	70.6	60.85	6.555	268.7	26.83	13.39
111	2007	184	1830	70.6	61.39	5.874	262.5	30.19	13.39
111	2007	184	1845	70.2	62.73	6.65	267.8	24.4	13.4
111	2007	184	1900	70.1	64.4	6.565	268.9	25.91	13.4
111	2007	184	1915	69.45	63.53	7.39	274.2	24.16	13.41
111	2007	184	1930	68.99	65.31	6.694	274.9	28.79	13.41
111	2007	184	1945	68.77	65.88	6.164	277.4	21.2	13.43
111	2007	184	2000	68.52	65.45	5.31	262.8	24.51	13.16
111	2007	184	2015	68.12	65.69	5.254	254.2	24.76	13.06
111	2007	184	2030	67.8	68.06	4.641	255.1	23.75	13
111	2007	184	2045	67.5	67.19	3.453	262.8	26.7	12.96
111	2007	184	2100	67.33	64.45	4.071	261.1	23.78	12.93
111	2007	184	2115	67.34	62.95	4.313	262.4	21.21	12.91
111	2007	184	2130	67.32	63.12	4.001	267.4	26.15	12.9
111	2007	184	2145	67.37	63.92	4.726	265	23.26	12.89
111	2007	184	2200	67.06	66.93	3.757	260.8	22.56	12.88
111	2007	184	2215	66.79	69.07	3.89	263	23.79	12.87
111	2007	184	2230	66.71	71.6	4.559	271.2	23.7	12.87
111	2007	184	2245	66.72	73.7	4.857	278.1	21.26	12.86
111	2007	184	2300	66.68	75.3	4.889	280.7	20.61	12.85
111	2007	184	2315	66.47	75.1	4.516	272.9	21.55	12.85
111	2007	184	2330	66.46	75.9	4.367	268.7	25.77	12.84
111	2007	184	2345	66.48	75.9	5.429	282.9	20.4	12.84
111	2007	184	2400	66.52	76	4.984	274.9	22.28	12.83
111	2007	185	15	66.56	75.3	5.775	280	19.92	12.83
111	2007	185	30	66.58	74.5	5.155	274.7	21.04	12.83
111	2007	185	45	66.42	74.4	4.27	280.9	22.34	12.83
111	2007	185	100	66.35	74.5	4.164	280.6	24.29	12.82
111	2007	185	115	66.12	76	3.67	285.4	19.14	12.82
111	2007	185	130	65.91	76.5	4.218	279.6	24.58	12.81
111	2007	185	145	65.66	77.5	3.87	286.3	24.02	12.81
111	2007	185	200	65.55	78.3	4.129	285.7	19.07	12.81
111	2007	185	215	65.54	78.6	3.944	290.7	21.08	12.8
111	2007	185	230	65.19	79.8	3.122	286.1	17.28	12.79
111	2007	185	245	64.91	80.9	2.361	289.1	15.88	12.79
111	2007	185	300	64.52	82.2	1.887	313.4	15.95	12.78
111	2007	185	315	64.23	83	1.646	310.4	16	12.78
111	2007	185	330	63.67	83.9	0.158	298	4.909	12.76

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	185	345	62.95	85.1	0.209	342.5	2.478	12.76
111	2007	185	400	62.33	86.2	0.277	344.8	7.64	12.75
111	2007	185	415	61.55	87.2	0.262	294.1	5.376	12.74
111	2007	185	430	60.99	88.3	0.369	287.9	4.04	12.73
111	2007	185	445	60.49	89.1	0.896	286.8	10.19	12.72
111	2007	185	500	60.24	89.5	1.223	282.9	14.52	12.71
111	2007	185	515	60.2	89.9	0.182	297.2	3.271	12.7
111	2007	185	530	60.18	89.8	na	na	na	12.7
111	2007	185	545	59.95	90.2	na	na	na	12.69
111	2007	185	600	60.27	90.5	0.058	150.9	0.083	12.68
111	2007	185	615	61.44	89.4	0.223	289.4	6.822	12.68
111	2007	185	630	62.69	87.9	0.071	306.5	0.811	12.68
111	2007	185	645	63.8	86.1	0.363	302.9	9	12.68
111	2007	185	700	65.56	82	0.646	281.4	12.13	12.68
111	2007	185	715	66.43	79	2.159	281	15.57	12.73
111	2007	185	730	67.2	78.1	1.784	263.5	29.72	12.75
111	2007	185	745	68.34	74.6	3.155	256.1	34.94	12.88
111	2007	185	800	69.22	71.6	4.434	249.6	26.07	12.99
111	2007	185	815	69.83	70.2	5.457	252.7	25.52	13.09
111	2007	185	830	70	70.2	6.45	262.3	27.79	13.41
111	2007	185	845	70.1	69.23	6.662	258.2	30.32	13.41
111	2007	185	900	70	70.9	6.146	262.4	25.23	13.41
111	2007	185	915	69.39	70.7	7.24	267.2	27.71	13.41
111	2007	185	930	68.78	70.1	6.759	268.9	29.1	13.41
111	2007	185	945	68.82	65.28	6.444	276.4	24.29	13.41
111	2007	185	1000	69.07	62.8	7.78	291.9	24.72	13.41
111	2007	185	1015	68.93	61.7	6.64	282.3	28.11	13.41
111	2007	185	1030	68.68	61.94	7.15	280.3	24.86	13.41
111	2007	185	1045	68.25	62.54	6.019	270.2	25.73	13.41
111	2007	185	1100	68.4	64.01	5.709	269.4	26.59	13.41
111	2007	185	1115	68.02	67.36	6.871	265.5	27.65	13.41
111	2007	185	1130	67.64	68.53	6.998	266.1	24.27	13.41
111	2007	185	1145	68.3	67.16	6.618	264.5	26	13.41
111	2007	185	1200	68.01	68.39	6.676	247.1	25.48	13.41
111	2007	185	1215	68.18	65.75	7.12	250.1	25.26	13.41
111	2007	185	1230	68.66	67.45	6.521	264.6	26.19	13.41
111	2007	185	1245	67.91	67.69	7.8	252.5	22.14	13.4
111	2007	185	1300	67.33	70.8	7.65	253.9	26.08	13.41
111	2007	185	1315	67.86	67.96	7.57	259	27.99	13.42
111	2007	185	1330	68.78	67.73	7.34	259.7	28.16	13.41
111	2007	185	1345	68.69	67.05	6.888	244.2	23.86	13.41
111	2007	185	1400	68.36	65.88	7.81	235	25.68	13.41
111	2007	185	1415	68.39	67.15	7.01	229.9	27.73	13.41
111	2007	185	1430	68.39	68.09	9.34	219	22.79	13.41
111	2007	185	1445	68.42	68.59	8.71	218.4	21.19	13.42
111	2007	185	1500	68.27	68.43	8.82	215.4	19.59	13.42
111	2007	185	1515	68.05	71.3	6.996	231	30.52	13.23
111	2007	185	1530	67.62	73	5.437	239.3	27.97	13.1
111	2007	185	1545	67.46	74	6.497	224.2	23.27	13.05
111	2007	185	1600	67.64	74.4	7.55	214.3	20.64	13.06
111	2007	185	1615	67.82	75.7	6.95	214.3	21.38	13.11
111	2007	185	1630	67.82	77.9	8.01	217.8	23.97	13.25
111	2007	185	1645	67.85	76.1	6.791	224	22.22	13.09
111	2007	185	1700	67.85	75.4	7.37	223.7	25.14	13.05
111	2007	185	1715	68.03	73.7	7.81	217.4	25.35	13.05
111	2007	185	1730	68.13	73.4	8.76	223.9	24.3	13.02
111	2007	185	1745	68.11	73.7	7.65	220.8	21.36	12.97
111	2007	185	1800	68.16	72.4	7.53	229	21.09	12.95
111	2007	185	1815	68.25	73.2	6.93	227.7	23.31	12.93
111	2007	185	1830	68.09	74.4	6.765	238.8	27.37	12.92

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	185	1845	67.56	79.6	7.55	230.1	25.48	12.91
111	2007	185	1900	66.68	82.4	6.849	237.6	28.88	12.9
111	2007	185	1915	66.46	85.2	6.781	244.4	26.58	12.89
111	2007	185	1930	65.73	86.3	5.902	245.8	22.66	12.89
111	2007	185	1945	65.64	88	6.066	243.3	23.9	12.87
111	2007	185	2000	65.75	86.9	6.142	237.6	25.93	12.87
111	2007	185	2015	66.11	86.1	6.342	244.8	25.13	12.87
111	2007	185	2030	66.33	86.6	6.237	253.5	32.66	12.86
111	2007	185	2045	66.52	85.9	7.84	243.7	24.68	12.86
111	2007	185	2100	66.66	85.8	7.07	248.2	27.43	12.85
111	2007	185	2115	66.71	85.7	6.539	238.4	23.17	12.85
111	2007	185	2130	66.87	84.8	5.777	242.5	26.29	12.84
111	2007	185	2145	67.13	83.5	6.831	248.5	25.39	12.84
111	2007	185	2200	67.3	83.2	6.952	242.9	27.38	12.83
111	2007	185	2215	67.37	82.9	5.858	250.3	30.34	12.83
111	2007	185	2230	67.49	82.5	6.178	249.8	28.88	12.82
111	2007	185	2245	67.46	84.2	5.775	261.8	31.62	12.82
111	2007	185	2300	66.61	86.5	2.586	304.5	51.5	12.81
111	2007	185	2315	66.45	87.3	4.722	266.7	31.37	12.8
111	2007	185	2330	66.48	87.9	5.145	275.9	31.3	12.79
111	2007	185	2345	66.73	87.7	7.16	259.4	29.97	12.78
111	2007	185	2400	66.88	87.5	6.962	263.2	28.19	12.77
111	2007	186	15	67.02	87.6	7.42	268.3	23.23	12.77
111	2007	186	30	67.16	87.7	7.67	263.3	28.83	12.75
111	2007	186	45	67.3	87.7	8.4	271.7	22.78	12.75
111	2007	186	100	67.5	87.6	9.17	271.3	23.91	12.74
111	2007	186	115	67.5	88.4	8.83	270.6	26.53	12.73
111	2007	186	130	67.56	87.7	10.15	265.4	24.02	12.73
111	2007	186	145	67.78	86.8	9.73	263.2	26.71	12.73
111	2007	186	200	67.98	87.1	9.55	271.9	23.49	12.73
111	2007	186	215	67.47	90.2	9.75	273.2	25.75	12.72
111	2007	186	230	66.95	91.9	8.7	284.4	21.85	12.71
111	2007	186	245	66.71	92.8	7.22	272.9	24.71	12.71
111	2007	186	300	66.56	93.3	6.527	228.7	17.95	12.71
111	2007	186	315	66.48	93.5	6.128	240.2	24.5	12.71
111	2007	186	330	66.32	93.9	5.076	251.3	28.82	12.71
111	2007	186	345	66.6	94	6.203	254.8	25.81	12.71
111	2007	186	400	66.67	94	6.47	265.5	25.03	12.71
111	2007	186	415	66.57	94.2	6.535	267.8	25.01	12.71
111	2007	186	430	66.51	94.5	5.707	260	25.26	12.71
111	2007	186	445	66.44	94.5	4.655	253.3	30.71	12.71
111	2007	186	500	66.39	94.5	5.918	252.1	22.04	12.71
111	2007	186	515	66.23	94.5	5.477	261.7	27.63	12.71
111	2007	186	530	66.21	94.4	5.193	260.9	30.06	12.71
111	2007	186	545	66.22	94.5	6.311	263.4	25.56	12.71
111	2007	186	600	66.24	94.4	6.434	266.8	25.63	12.71
111	2007	186	615	66.18	94.4	5.612	271.3	24.61	12.71
111	2007	186	630	66.31	94.4	4.941	269.5	25.66	12.71
111	2007	186	645	66.71	94.3	4.341	268.7	26.24	12.74
111	2007	186	700	66.93	93.9	4.955	269.2	24.36	12.8
111	2007	186	715	66.96	93.8	5.354	269.8	29.08	12.8
111	2007	186	730	67.11	93.5	5.876	279.6	24.51	12.89
111	2007	186	745	67.3	93.1	5.542	277.7	24.52	12.97
111	2007	186	800	67.71	92.3	5.786	277.4	26.81	13.05
111	2007	186	815	68.12	91.2	7.08	277.3	21.44	13.31
111	2007	186	830	68.74	89.6	6.605	282.8	20.61	13.4
111	2007	186	845	68.77	89.1	7.43	279.4	26.9	13.4
111	2007	186	900	69.1	87.6	7.04	277.8	23.81	13.39
111	2007	186	915	69.21	86.7	7.22	278.2	25.52	13.39
111	2007	186	930	69.78	84.9	7.02	273.9	21.31	13.38

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	186	945	70.8	83.4	6.561	266.2	28.82	13.37
111	2007	186	1000	71.6	80.7	7.68	275	31.95	13.36
111	2007	186	1015	71.3	81.4	7.91	274.4	22.55	13.36
111	2007	186	1030	71.4	81.4	8.3	273.9	29.87	13.36
111	2007	186	1045	71.8	80.6	8.42	271.3	29.12	13.34
111	2007	186	1100	71.5	81.1	8.41	275.7	22.1	13.35
111	2007	186	1115	70.4	83.4	9.2	276.4	24.07	13.36
111	2007	186	1130	69.68	84.8	7.37	275.3	25.7	13.38
111	2007	186	1145	69.12	86.8	7.21	278.2	22.34	13.39
111	2007	186	1200	69.05	87.7	6.777	276.4	25.39	13.4
111	2007	186	1215	69.3	86.4	6.734	273.2	22.53	13.39
111	2007	186	1230	69.58	84.8	7.57	277.3	20.82	13.38
111	2007	186	1245	70.3	83.7	8.19	273.9	21.25	13.38
111	2007	186	1300	70.6	83.8	8.14	264.7	26.85	13.37
111	2007	186	1315	71.1	82.8	8.18	276.5	28.62	13.37
111	2007	186	1330	70.9	83.1	8.14	269.4	29.01	13.36
111	2007	186	1345	70.5	84.2	6.753	276.7	28.48	13.37
111	2007	186	1400	70.5	84.8	5.949	285.6	24.91	13.37
111	2007	186	1415	70.7	84.4	7.26	269.8	26.53	13.37
111	2007	186	1430	71.2	81.6	6.142	261.8	27.54	13.36
111	2007	186	1445	72.3	80.2	6.622	252.3	25.71	13.35
111	2007	186	1500	71.6	80.2	7.11	262.7	28.69	13.35
111	2007	186	1515	71.3	81.4	6.898	268.5	26.76	13.36
111	2007	186	1530	71.3	79.8	6.672	255.4	24.47	13.36
111	2007	186	1545	72.2	79.7	6.483	254.8	29.28	13.35
111	2007	186	1600	72.4	79.9	6.507	248.9	29.69	13.35
111	2007	186	1615	71.6	80.3	6.251	261.7	26.57	13.36
111	2007	186	1630	71.2	80.3	8.6	264.6	23.51	13.37
111	2007	186	1645	71.6	77.6	7.39	273.3	25.71	13.37
111	2007	186	1700	72.1	79.5	7.69	270	24.64	13.36
111	2007	186	1715	71.7	78.2	7.52	270.7	23.92	13.37
111	2007	186	1730	72	78.6	5.993	274.2	27.57	13.37
111	2007	186	1745	71.4	80.5	7.67	277.8	21.42	13.37
111	2007	186	1800	71	81.5	7.24	265.6	26.29	13.38
111	2007	186	1815	70.5	82.5	7.07	274.8	23.98	13.39
111	2007	186	1830	70.2	83.5	6.333	268.4	25.48	13.24
111	2007	186	1845	69.88	84.1	6.142	268.7	25.72	13.09
111	2007	186	1900	69.65	84.1	6.454	269.5	27.69	13.02
111	2007	186	1915	69.62	84.2	5.785	270.3	24.45	12.98
111	2007	186	1930	69.7	83.9	5.983	271.8	27.75	12.95
111	2007	186	1945	69.74	83.9	6.255	274.2	28.29	12.93
111	2007	186	2000	69.71	84.3	6.622	274.8	28.5	12.92
111	2007	186	2015	69.55	86	5.943	265	26.44	12.91
111	2007	186	2030	69.5	86.5	5.999	265.1	28.98	12.9
111	2007	186	2045	69.61	86.5	6.797	268.6	23.34	12.89
111	2007	186	2100	69.43	86.7	6.376	264.8	23.62	12.89
111	2007	186	2115	69.47	86.9	5.685	265.1	26.8	12.89
111	2007	186	2130	69.26	87.7	5.616	263	22.56	12.88
111	2007	186	2145	69.05	87.9	5.211	277	29.21	12.88
111	2007	186	2200	68.98	87.8	4.228	286.1	24.8	12.87
111	2007	186	2215	68.94	87.8	4.98	280.4	23.87	12.87
111	2007	186	2230	68.88	87.9	5.205	270.7	25.29	12.87
111	2007	186	2245	68.73	88.2	5.58	281.2	24.15	12.87
111	2007	186	2300	68.8	88.1	4.017	270	23.2	12.86
111	2007	186	2315	68.9	87.9	4.897	282.2	21.75	12.86
111	2007	186	2330	68.94	88	3.747	269.3	23.81	12.85
111	2007	186	2345	68.89	88.1	4.198	268.1	22.69	12.85
111	2007	186	2400	68.75	88.5	3.307	280.7	21.71	12.85
111	2007	187	15	68.54	89	3.467	258.4	29.55	12.84
111	2007	187	30	68.25	89.3	5.657	264.6	20.65	12.84

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	187	45	67.94	89.9	5.014	283.9	23.31	12.83
111	2007	187	100	68.12	90.5	4.438	294.4	23.05	12.83
111	2007	187	115	68.23	91.2	3.503	301.1	29.08	12.83
111	2007	187	130	68.23	91.8	2.397	307.9	30.37	12.82
111	2007	187	145	68.26	92.1	1.875	296.1	27.79	12.81
111	2007	187	200	68.27	92.3	1.427	287.3	35.21	12.79
111	2007	187	215	68.02	92.5	2.093	248.1	54.25	12.73
111	2007	187	230	67.75	92.6	2.625	232.1	23.1	12.72
111	2007	187	245	67.77	92.6	3.042	228.5	20.86	12.71
111	2007	187	300	67.06	92.7	2.421	268.5	32.6	12.69
111	2007	187	315	66.7	92.8	2.072	268.2	32.47	12.67
111	2007	187	330	66.41	92.9	1.773	273.1	34.82	12.66
111	2007	187	345	66.49	93.1	2.647	358.7	32.89	12.65
111	2007	187	400	66.52	93.1	1.348	279.1	50.13	12.64
111	2007	187	415	66.44	93.3	1.61	261.7	24.83	12.64
111	2007	187	430	66.29	93.3	1.392	286.3	28.64	12.64
111	2007	187	445	66.28	93.5	1.231	343.3	30.79	12.63
111	2007	187	500	66.21	93.5	1.209	260.3	17.71	12.63
111	2007	187	515	66.15	93.5	1.774	241.3	21.49	12.63
111	2007	187	530	66.05	93.7	2.002	293.2	25.39	12.63
111	2007	187	545	66.16	93.8	2.592	314.6	18.4	12.63
111	2007	187	600	66.27	93.9	3.285	300.4	17.78	12.64
111	2007	187	615	66.43	93.9	2.312	284.9	24	12.64
111	2007	187	630	66.51	93.9	2.59	292.1	21.75	12.64
111	2007	187	645	66.73	94	2.568	326.4	18.2	12.64
111	2007	187	700	67.03	94	2.54	338.5	25.31	12.65
111	2007	187	715	67.2	94	2.804	346	31.78	12.65
111	2007	187	730	67.58	94	2.554	343.2	30.34	12.65
111	2007	187	745	68	93.7	2.806	346.7	39.5	12.67
111	2007	187	800	68.83	93.2	3.233	348.8	25.75	12.67
111	2007	187	815	69.65	91.2	3.992	1.705	28.6	12.95
111	2007	187	830	70	88.5	4.26	2.33	30.09	12.89
111	2007	187	845	70.9	85.1	5.223	3.247	24.18	12.88
111	2007	187	900	72.1	80.6	3.908	12.31	30.44	12.89
111	2007	187	915	72.9	78.4	4.168	7.32	32.54	13.02
111	2007	187	930	73.5	74.6	4.466	26.07	34.54	13.11
111	2007	187	945	74.3	72.7	4.561	18.16	27.07	13.18
111	2007	187	1000	75.4	73.3	4.073	9.23	31.03	13.24
111	2007	187	1015	75.9	67.49	4.748	358.7	27.88	13.3
111	2007	187	1030	76.6	63.48	4.484	18.09	33.37	13.3
111	2007	187	1045	77.4	61.64	3.638	7.71	44	13.29
111	2007	187	1100	78	60.63	4.964	24.77	35.46	13.29
111	2007	187	1115	78.8	57.86	4.113	356.8	34.56	13.28
111	2007	187	1130	79.6	53.28	4.587	7.14	45.22	13.28
111	2007	187	1145	79.8	54.98	4.851	356.1	31.08	13.28
111	2007	187	1200	80.2	51.2	5.242	342.8	36.87	13.27
111	2007	187	1215	80.3	52.37	5.274	8.29	33.96	13.26
111	2007	187	1230	81.2	47.59	5.453	342.1	34.68	13.26
111	2007	187	1245	81.9	46.76	5.56	5.245	39.89	13.26
111	2007	187	1300	81.8	46.69	6.003	335.3	32.03	13.26
111	2007	187	1315	82.2	46.86	5.773	320.8	31.66	13.26
111	2007	187	1330	82.5	44.18	6.317	357.2	37.63	13.26
111	2007	187	1345	82.7	43.18	6.356	345.7	36.61	13.26
111	2007	187	1400	82.4	45.19	6.67	349.7	33.06	13.26
111	2007	187	1415	82.9	42.55	5.24	350.3	34.21	13.25
111	2007	187	1430	83.5	40.2	6.885	334.1	28.68	13.25
111	2007	187	1445	83.1	40.57	7.52	319.8	29.68	13.25
111	2007	187	1500	83.5	38.33	7.49	322.2	30.74	13.25
111	2007	187	1515	83.1	38.64	7.49	1.492	28.81	13.25
111	2007	187	1530	83.1	38.67	7.14	346	36.8	13.25

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	187	1545	83.3	37.37	6.559	356.1	32.63	13.25
111	2007	187	1600	83.2	35.83	7.98	0.419	28.46	13.25
111	2007	187	1615	83.7	35.46	6.317	336.3	34.29	13.25
111	2007	187	1630	84.1	35.89	5.375	353.8	34.31	13.25
111	2007	187	1645	83.8	37.56	5.997	342.6	38.1	13.25
111	2007	187	1700	84.1	36.6	6.317	342	30.43	13.25
111	2007	187	1715	83.7	38.44	6.712	352.7	30.7	13.25
111	2007	187	1730	83.6	36.96	6.759	2.617	32.79	13.26
111	2007	187	1745	83.8	36.5	7.02	350.8	31	13.26
111	2007	187	1800	81.3	45.12	8.57	36.56	42.57	13.26
111	2007	187	1815	75.8	49.4	9.49	62.27	19.24	13.28
111	2007	187	1830	74.5	52.39	6.918	68.1	23.24	13.18
111	2007	187	1845	74.4	50.82	7.35	53.19	25.58	13.21
111	2007	187	1900	74.5	49.11	7.45	54.98	27.23	13.27
111	2007	187	1915	74.1	52.93	8.56	54.64	23.71	13.22
111	2007	187	1930	72.6	51.73	8.25	45.41	32.12	13.14
111	2007	187	1945	70.9	56.28	5.673	37.9	29.94	13.06
111	2007	187	2000	70.1	58.62	3.519	3.908	30.72	13.01
111	2007	187	2015	69.84	59.23	2.999	340.8	25.63	12.97
111	2007	187	2030	69.81	59.6	2.576	9.64	22.65	12.95
111	2007	187	2045	70.2	58.96	2.205	0.258	29.08	12.93
111	2007	187	2100	70.4	60.17	2.191	327.8	15.29	12.91
111	2007	187	2115	69.85	62.01	3.332	283.8	20.35	12.89
111	2007	187	2130	69.35	63.11	2.516	292.7	19.76	12.89
111	2007	187	2145	68.92	65.79	2.034	288.8	22.64	12.87
111	2007	187	2200	68.3	68.06	2.183	281.5	20.69	12.87
111	2007	187	2215	68.6	68.84	2.461	293.8	15.92	12.85
111	2007	187	2230	68.66	71	2.453	294.1	13.88	12.85
111	2007	187	2245	68.14	72.9	3.023	300.9	14.72	12.84
111	2007	187	2300	68.2	73.4	3.312	300.4	15.2	12.84
111	2007	187	2315	68.11	73.4	3.213	293.2	13.26	12.83
111	2007	187	2330	68.05	71.4	3.455	302	19.11	12.83
111	2007	187	2345	68.34	69.74	3.199	301.5	17.91	12.83
111	2007	187	2400	68.2	70.1	2.965	313.7	19.23	12.82
111	2007	188	15	67.82	71.2	3.066	326.2	20.07	12.82
111	2007	188	30	67.53	71	3.299	319.5	22.64	12.81
111	2007	188	45	67.51	71.1	3.976	312.2	22.98	12.81
111	2007	188	100	67.4	72	3.63	313	18.49	12.81
111	2007	188	115	67.04	73.2	3.211	310.8	16.1	12.81
111	2007	188	130	66.7	74.5	2.995	311.7	20.91	12.8
111	2007	188	145	66.43	75.2	3.573	309.6	23.22	12.8
111	2007	188	200	66.5	75.4	3.938	318	22.92	12.79
111	2007	188	215	66.46	76	2.923	321.1	19.38	12.79
111	2007	188	230	66.11	77.3	2.308	330.2	24.11	12.79
111	2007	188	245	65.73	78.7	2.056	323.5	13.62	12.79
111	2007	188	300	65.12	80.4	2.949	306.4	15.61	12.78
111	2007	188	315	64.81	81.3	2.467	324.7	19.21	12.78
111	2007	188	330	64.57	82	2.496	328.4	16.58	12.77
111	2007	188	345	64.36	83.2	2.026	325	15.96	12.77
111	2007	188	400	63.99	84.2	2.62	319.3	18.51	12.76
111	2007	188	415	63.84	84.6	1.867	316	11.37	12.76
111	2007	188	430	63.56	85.1	1.543	308.6	14.42	12.76
111	2007	188	445	63.35	85.4	1.78	308.1	15.27	12.75
111	2007	188	500	62.9	86.4	2.131	304.3	11	12.74
111	2007	188	515	63.07	85.7	2.999	307.5	18.06	12.74
111	2007	188	530	63.63	83.2	3.056	313.9	15.71	12.74
111	2007	188	545	63.81	82.3	3.225	307.6	15.85	12.73
111	2007	188	600	64.06	81	3.16	307.1	15.56	12.73
111	2007	188	615	64.51	79.9	2.49	319.4	16.57	12.73
111	2007	188	630	64.62	80.2	1.909	62.53	42.17	12.73

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	188	645	64.72	79.4	1.549	54.11	22.35	12.73
111	2007	188	700	65.06	78.8	1.705	69.84	40.36	12.73
111	2007	188	715	66.21	75.4	1.166	128	27.46	12.77
111	2007	188	730	67.26	72.1	2.026	96.4	23.2	12.81
111	2007	188	745	68.88	69.67	1.905	84.7	63.59	12.97
111	2007	188	800	69.88	66.55	2.042	33.15	63.09	13.15
111	2007	188	815	70.5	66.25	2.312	2.833	52.56	13.3
111	2007	188	830	71.2	64.84	3.156	334.5	30.02	13.36
111	2007	188	845	72.4	61.93	3.162	335.5	33.82	13.36
111	2007	188	900	73.5	57.86	2.544	338	47.41	13.34
111	2007	188	915	75	57.45	3.059	336.8	37.32	13.32
111	2007	188	930	75.8	53.81	3.992	296.3	23.69	13.32
111	2007	188	945	76.3	53.31	4.226	312.1	31.62	13.32
111	2007	188	1000	76.8	51.77	4.462	323.8	35.97	13.31
111	2007	188	1015	77.4	50.53	4.474	336.7	30.14	13.3
111	2007	188	1030	77.7	62.5	3.926	254.6	58.9	13.3
111	2007	188	1045	75.2	65.71	4.472	209	33.76	13.3
111	2007	188	1100	75.5	62.7	4.758	206.9	24.2	13.3
111	2007	188	1115	76.7	58.09	5.314	225.9	28.16	13.3
111	2007	188	1130	77.9	54.38	5.922	244.8	32.34	13.29
111	2007	188	1145	78.3	56.48	6.704	263.6	25.67	13.29
111	2007	188	1200	78.8	55.38	6.458	251	27.79	13.28
111	2007	188	1215	79.6	51.67	6.827	276.1	27.55	13.28
111	2007	188	1230	80.2	49.2	8.16	271.6	25.94	13.28
111	2007	188	1245	79.7	54.71	8.03	270.9	21.93	13.28
111	2007	188	1300	78.8	54.18	8.17	266.7	20.87	13.28
111	2007	188	1315	77.5	58.16	8.39	264.8	22.52	13.28
111	2007	188	1330	78.4	54.18	7.51	274.1	30.28	13.29
111	2007	188	1345	78.7	57.29	7.84	265.1	25.62	13.28
111	2007	188	1400	79.2	54.75	7.34	269.3	23.28	13.28
111	2007	188	1415	78.8	58.66	6.448	263.9	29.59	13.28
111	2007	188	1430	79.1	58.36	6.307	258.6	29.75	13.28
111	2007	188	1445	79.6	55.55	6.267	251.2	30.94	13.27
111	2007	188	1500	80.2	54.08	7.05	252	25.91	13.27
111	2007	188	1515	78.8	59.76	7.69	256.4	26.4	13.27
111	2007	188	1530	78.5	59.39	7.02	270.6	26.28	13.28
111	2007	188	1545	78.5	55.45	8.53	263.3	25.11	13.28
111	2007	188	1600	78.6	52.61	8.1	262.6	22.31	13.28
111	2007	188	1615	79.1	54.48	7.35	268.3	21.64	13.28
111	2007	188	1630	79.2	51.34	8.53	281.2	24.75	13.28
111	2007	188	1645	78.9	51.07	7.97	281.5	23.62	13.28
111	2007	188	1700	79.5	51.64	6.281	277.9	26.86	13.29
111	2007	188	1715	79.5	51.87	6.485	278.2	21.46	13.29
111	2007	188	1730	79.7	49.6	6.612	281.5	20.08	13.3
111	2007	188	1745	80.2	48.46	6.749	277.6	22.26	13.29
111	2007	188	1800	80.8	48.4	5.945	277.1	25.94	13.29
111	2007	188	1815	80	54.08	5.572	262.3	21.6	13.29
111	2007	188	1830	79.5	51.6	4.855	263.8	23.5	13.29
111	2007	188	1845	80.6	51.54	4.613	292	21.85	13.29
111	2007	188	1900	80.5	50.37	4.033	297.3	16.96	13.29
111	2007	188	1915	80.9	53.04	3.402	291.1	23.22	13.29
111	2007	188	1930	79	58.93	2.556	262.1	21.2	13.1
111	2007	188	1945	77.9	61.1	2.032	260	25.29	13.11
111	2007	188	2000	77	67.32	3.09	251.7	22.03	13.27
111	2007	188	2015	74.8	71.7	2.788	258.9	23.04	13.08
111	2007	188	2030	73.8	74.7	2.236	254.2	23.54	13.02
111	2007	188	2045	72.9	75.9	1.45	240.9	32.9	12.98
111	2007	188	2100	72.2	77.3	1.666	272.6	19.92	12.95
111	2007	188	2115	72	77.4	1.323	267.5	17.45	12.93
111	2007	188	2130	71.8	78	1.431	274.7	15.31	12.91

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	188	2145	71.7	77.9	1.388	273.1	20.22	12.9
111	2007	188	2200	71.6	77.8	1.217	289.6	18.11	12.89
111	2007	188	2215	71.4	78.3	1.944	261.3	26.88	12.88
111	2007	188	2230	71	78.2	1.346	290.3	15.91	12.87
111	2007	188	2245	71.2	76.6	1.67	298	13.57	12.87
111	2007	188	2300	71.3	72.1	1.798	297	15.74	12.86
111	2007	188	2315	71.6	68.83	1.631	285.5	19.79	12.86
111	2007	188	2330	71.6	66.96	1.654	290	13.6	12.85
111	2007	188	2345	72.2	64.31	1.893	299.7	17.84	12.85
111	2007	188	2400	72.3	65.42	1.603	286.4	13.88	12.85
111	2007	189	15	71.5	67.06	1.428	292.8	20.52	12.84
111	2007	189	30	71.1	66.09	2.475	292.1	16.09	12.84
111	2007	189	45	71.8	64.58	2.113	302.6	21.44	12.84
111	2007	189	100	72	63.68	2.121	306.9	17.68	12.84
111	2007	189	115	71.8	65.52	2.3	296.2	12.5	12.83
111	2007	189	130	71	67.69	1.706	292.9	19.02	12.83
111	2007	189	145	70.8	68.33	1.976	297	15.44	12.83
111	2007	189	200	70.3	69.63	1.726	295.8	19.6	12.83
111	2007	189	215	69.94	70.4	1.415	288.4	15.31	12.82
111	2007	189	230	69.48	69.9	1.328	268.8	22.39	12.82
111	2007	189	245	69.27	69.8	1.304	281.2	18.47	12.81
111	2007	189	300	69.36	69.1	0.838	323.2	21.73	12.81
111	2007	189	315	69.26	70.6	0.555	319.6	13.32	12.81
111	2007	189	330	68.41	73.2	1.365	311.1	17.5	12.8
111	2007	189	345	67.68	73.7	1.98	287.3	51.4	12.79
111	2007	189	400	67.83	73.4	1.7	282.4	23.39	12.79
111	2007	189	415	67.71	75.4	2.332	276.1	18.07	12.79
111	2007	189	430	68.12	72.5	3.527	286.1	18.68	12.79
111	2007	189	445	69.03	68.51	3.38	289.6	18.38	12.79
111	2007	189	500	69.48	67.63	2.846	288.5	18.57	12.78
111	2007	189	515	69	67.7	2.469	285.8	17.1	12.78
111	2007	189	530	68.8	67.16	2.606	287	15.42	12.77
111	2007	189	545	69.11	65.95	2.475	280.4	21.62	12.77
111	2007	189	600	69.24	65.82	1.599	258.1	23.58	12.77
111	2007	189	615	69.84	65.82	0.757	259.1	19.98	12.77
111	2007	189	630	70.4	65.04	1.552	258.6	20.26	12.77
111	2007	189	645	71.2	64.06	2.017	261	23.75	12.77
111	2007	189	700	71.9	63.84	2.685	263.9	21.92	12.79
111	2007	189	715	72.5	63.61	3.529	272	22.64	12.81
111	2007	189	730	73.4	62.1	3.91	284.2	18.6	12.84
111	2007	189	745	74.3	59.16	4.972	294	21.9	12.9
111	2007	189	800	75.2	57.75	4.895	306	21.58	12.96
111	2007	189	815	75.9	55.71	5.322	296.9	18.25	13.03
111	2007	189	830	77	55.18	6.057	292.3	13.92	13.08
111	2007	189	845	78	53.78	5.826	288.8	18.86	13.15
111	2007	189	900	78.9	52.57	4.959	296.6	24.06	13.2
111	2007	189	915	79.8	51	4.599	311.2	26.91	13.25
111	2007	189	930	80.9	46.42	5.824	300	21.21	13.28
111	2007	189	945	81.7	46.46	6.595	301.8	22.02	13.28
111	2007	189	1000	82.2	45.42	6.9	294	22.7	13.27
111	2007	189	1015	83.2	43.52	7.18	294.8	24.3	13.26
111	2007	189	1030	83.6	50.97	5.618	271.5	32.9	13.26
111	2007	189	1045	83.3	47.99	5.427	256.4	33.35	13.25
111	2007	189	1100	84	48.89	5.463	271.2	30.87	13.25
111	2007	189	1115	85	43.71	6.418	277	28.39	13.24
111	2007	189	1130	85.3	45.61	6.301	278.2	29.28	13.24
111	2007	189	1145	83.8	49.66	7.05	260.1	26.69	13.24
111	2007	189	1200	83.5	49.6	7.16	273.9	24.23	13.25
111	2007	189	1215	84.1	51.6	6.61	268.3	28.24	13.24
111	2007	189	1230	83.8	50.33	8.09	274	25.52	13.24

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	189	1245	83.2	53.24	7.47	261.8	25.9	13.25
111	2007	189	1300	83.4	47.23	7.12	270	27.79	13.25
111	2007	189	1315	84.8	45.79	8.05	273.6	26.55	13.24
111	2007	189	1330	85.6	48.76	8.57	278.1	24.41	13.24
111	2007	189	1345	84.7	53.94	7.8	264.7	20.64	13.24
111	2007	189	1400	83.6	52.27	7.68	264	26.64	13.24
111	2007	189	1415	83.2	54.75	8.34	262.6	26.06	13.24
111	2007	189	1430	82.8	56.78	7.92	269.7	27.7	13.25
111	2007	189	1445	82.7	55.21	7.61	271.3	25.81	13.25
111	2007	189	1500	82	62.13	7.6	269.8	30.1	13.25
111	2007	189	1515	80.8	59.59	7.88	259.5	25.45	13.26
111	2007	189	1530	81.4	59.96	6.916	255.9	28.62	13.26
111	2007	189	1545	81.1	63.3	7.79	257.7	26.78	13.26
111	2007	189	1600	81.1	60.19	8.38	273.4	23.14	13.26
111	2007	189	1615	81.8	57.89	7.08	274	25.12	13.26
111	2007	189	1630	81.5	59.49	6.452	270.2	29.54	13.26
111	2007	189	1645	81.3	63.2	6.62	276.5	27.92	13.26
111	2007	189	1700	80.9	65.77	5.608	259.5	28.38	13.26
111	2007	189	1715	79.2	67.48	8.63	270.7	24.73	13.27
111	2007	189	1730	79	67.28	8.01	273.8	22.16	13.29
111	2007	189	1745	79.7	63.74	6.757	272.9	24.63	13.29
111	2007	189	1800	79.5	64.57	7.44	274.4	25.6	13.29
111	2007	189	1815	79.5	64.47	8.53	276.9	22.05	13.3
111	2007	189	1830	79.5	63.8	6.049	275.4	27.81	13.3
111	2007	189	1845	79.1	64.67	6.098	266.4	27.76	13.3
111	2007	189	1900	78.4	68.12	5.995	262.1	22.93	13.3
111	2007	189	1915	77	71.1	5.87	268.7	22.96	13.31
111	2007	189	1930	76.5	72	5.387	265.8	26.64	13.32
111	2007	189	1945	76.2	72.8	4.843	270.6	23.18	13.33
111	2007	189	2000	75.4	75.1	4.438	261.9	24.22	13.07
111	2007	189	2015	74.8	75.8	4.105	263.6	22.18	13.01
111	2007	189	2030	74.3	77.3	3.249	262.4	26.96	12.97
111	2007	189	2045	73.8	78.5	2.538	273.8	27.47	12.95
111	2007	189	2100	73.7	78.8	1.994	267.4	25.17	12.93
111	2007	189	2115	74	78.8	2.304	250.4	21.19	12.91
111	2007	189	2130	74.1	79.6	2.717	260.6	26.42	12.9
111	2007	189	2145	74	80.5	2.655	264.1	24.25	12.89
111	2007	189	2200	73.5	81.3	1.915	247.7	19.8	12.88
111	2007	189	2215	73.1	81.6	2.042	274.7	23.95	12.87
111	2007	189	2230	72.9	82.3	1.824	276.5	28.16	12.87
111	2007	189	2245	73	82.2	1.672	248.4	26.62	12.86
111	2007	189	2300	72.9	82.4	2.121	243.8	22.52	12.85
111	2007	189	2315	72.6	82.7	2.723	275.7	25.63	12.85
111	2007	189	2330	72.5	83.2	1.584	267.8	21.31	12.85
111	2007	189	2345	72.3	83.4	1.899	257.2	18.73	12.84
111	2007	189	2400	72.3	83.7	2.548	289.9	19.72	12.83
111	2007	190	15	72.4	83.1	1.692	247.6	21.17	12.83
111	2007	190	30	72.4	83.6	2.04	253.1	31.87	12.83
111	2007	190	45	72.5	83	2.582	284.4	32.58	12.83
111	2007	190	100	72.4	82.5	2.903	280.5	20.49	12.82
111	2007	190	115	72.7	80.6	3.596	289.4	18.67	12.82
111	2007	190	130	72.7	80	3.052	284.5	16.88	12.82
111	2007	190	145	72.7	79.1	2.552	321.8	31.57	12.81
111	2007	190	200	72.5	79.4	0.701	320.7	29.99	12.81
111	2007	190	215	72.1	80.4	0.341	262.8	6.982	12.8
111	2007	190	230	71.6	81.8	0.748	282.8	10.87	12.8
111	2007	190	245	71.3	82.3	1.516	301	15.03	12.79
111	2007	190	300	71.2	82.7	1.843	289.9	14.11	12.79
111	2007	190	315	71.6	81.6	2.612	287.6	22.78	12.79
111	2007	190	330	72.2	80.8	3.32	298.6	25.33	12.78

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	190	345	72.5	80.1	2.687	311.2	28.1	12.78
111	2007	190	400	72.6	79.7	2.479	297.4	25.88	12.78
111	2007	190	415	72.6	79.2	1.792	288.4	44.34	12.77
111	2007	190	430	72.6	78.9	2.044	279.4	45.52	12.77
111	2007	190	445	72.7	78.9	1.134	291.4	32.64	12.77
111	2007	190	500	72.4	79.4	1.972	278.7	19.38	12.77
111	2007	190	515	72.3	79.7	1.106	335.5	49.57	12.77
111	2007	190	530	72.2	80.2	1.023	104.8	45.91	12.76
111	2007	190	545	72.1	80.8	1.216	50.4	15.36	12.76
111	2007	190	600	72.1	80.3	1.165	2.861	41.57	12.75
111	2007	190	615	72.6	79.9	0.499	21.59	42.88	12.75
111	2007	190	630	72.9	79.2	1.292	334.1	29	12.75
111	2007	190	645	74.2	76.1	0.571	259.4	17.9	12.81
111	2007	190	700	75.4	73.3	1.889	239.3	32.35	12.89
111	2007	190	715	76.6	70.7	1.064	255.2	39.59	13
111	2007	190	730	77.3	69.54	1.526	28.58	74.1	13.02
111	2007	190	745	77.9	68.93	1.653	54.55	57.32	13.05
111	2007	190	800	77.1	70.8	2.852	50.05	19.41	13.08
111	2007	190	815	77.3	68.11	2.498	62.68	25.49	13.12
111	2007	190	830	77.9	67.28	2.131	53.13	30.4	13.2
111	2007	190	845	79.1	64.71	2.278	105.4	33.45	13.28
111	2007	190	900	80.1	63.86	2.6	138.3	23.84	13.27
111	2007	190	915	80.9	64.2	2.713	107.3	42.21	13.26
111	2007	190	930	81.6	59.95	2.576	156	76.9	13.25
111	2007	190	945	81.9	65.53	3.078	94.9	74.5	13.25
111	2007	190	1000	81.7	65.77	3.872	223.9	38.07	13.24
111	2007	190	1015	81.1	66.93	4.48	201.4	24.78	13.24
111	2007	190	1030	80.8	70	4.69	203	30.31	13.24
111	2007	190	1045	80.1	70.6	5.933	182.2	22.88	13.24
111	2007	190	1100	79.3	71	5.495	174.9	21.65	13.26
111	2007	190	1115	79	70.2	5.08	186.6	25.98	13.26
111	2007	190	1130	79.3	68.38	4.905	223.6	24.71	13.26
111	2007	190	1145	79.3	67.88	5.723	221.4	22.93	13.25
111	2007	190	1200	79.4	69.95	5.524	193.4	21.2	13.25
111	2007	190	1215	79.9	64.77	5.725	192.2	26.52	13.26
111	2007	190	1230	80.7	63.83	5.852	182.6	21.19	13.25
111	2007	190	1245	81.2	67.28	6.215	181.4	20.15	13.25
111	2007	190	1300	82.4	61.49	5.034	237.5	25.58	13.24
111	2007	190	1315	82.3	58.76	5.205	222.9	23.4	13.24
111	2007	190	1330	82.9	60.29	5.663	230.2	20.97	13.24
111	2007	190	1345	82.6	61.16	5.755	223.3	20.49	13.24
111	2007	190	1400	83.1	56.31	5.963	226.6	24.31	13.22
111	2007	190	1415	83.3	54.91	5.814	240.6	28.09	13.23
111	2007	190	1430	83.6	56.15	5.354	255.6	26.66	13.24
111	2007	190	1445	83.4	61.09	5.912	238	31.35	13.24
111	2007	190	1500	83.2	56.64	5.205	248.5	30.46	13.24
111	2007	190	1515	82.1	60.46	7.3	220.6	17.88	13.23
111	2007	190	1530	81.2	58.96	6.662	220.7	23.51	13.24
111	2007	190	1545	81.7	59.89	6.128	233	25.82	13.25
111	2007	190	1600	82.8	57.12	5.62	248	21.37	13.24
111	2007	190	1615	83.2	56.55	6.148	255.2	23.97	13.24
111	2007	190	1630	82.5	56.18	6.166	248.4	26.05	13.25
111	2007	190	1645	82.2	55.82	6.364	255	24.3	13.25
111	2007	190	1700	82.2	55.55	6.567	227	20.57	13.26
111	2007	190	1715	81.9	58.59	6.648	222.9	19.72	13.26
111	2007	190	1730	81.1	62	6.4	248.8	26.28	13.26
111	2007	190	1745	80.4	64.1	7.3	263.9	23.09	13.27
111	2007	190	1800	80.4	63.47	6.402	260.4	25.73	13.26
111	2007	190	1815	80.9	61.93	5.868	251.7	23.06	13.28
111	2007	190	1830	80.6	63.1	6.97	268.3	23.07	13.28

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	190	1845	79.9	65.78	6.225	263.7	25.42	13.28
111	2007	190	1900	79.2	66.71	6.593	264.3	25.25	13.29
111	2007	190	1915	78.6	68.35	7.07	265.5	25.98	13.3
111	2007	190	1930	78.3	70	5.703	263.6	22.2	13.3
111	2007	190	1945	77.4	72.1	5.514	262.2	27.04	13.31
111	2007	190	2000	77	72.5	7.04	274.3	23.59	13.12
111	2007	190	2015	76.6	72.6	5.393	275.4	21.16	13.04
111	2007	190	2030	76.5	71.6	5.411	269.4	20.81	12.99
111	2007	190	2045	76.5	71.2	5.711	271.4	24.13	12.96
111	2007	190	2100	76.4	72.7	4.812	274.6	19.18	12.94
111	2007	190	2115	76.2	72.6	5.276	275.8	18.44	12.92
111	2007	190	2130	76	73.3	4.133	273.9	21.74	12.91
111	2007	190	2145	75.9	73.7	4.683	268.7	21.07	12.9
111	2007	190	2200	75.7	74.5	4.829	272.4	20.38	12.89
111	2007	190	2215	75.9	74.7	5.169	281.5	16.36	12.88
111	2007	190	2230	75.7	76.3	3.602	279.9	16.93	12.87
111	2007	190	2245	75.4	77	2.78	293.5	28.27	12.87
111	2007	190	2300	75.1	77.5	3.624	286.7	15.65	12.86
111	2007	190	2315	74.7	79	2.941	268.3	21.25	12.85
111	2007	190	2330	74.1	80	2.753	277.9	18.8	12.85
111	2007	190	2345	73.7	80.9	2.131	280.4	21.56	12.85
111	2007	190	2400	73.3	82.2	2.129	264.7	18.52	12.84
111	2007	191	15	73.1	82.3	2.798	282.2	19.97	12.83
111	2007	191	30	73.2	82.3	2.526	280.8	17.49	12.83
111	2007	191	45	73	83.7	1.935	271.1	19.5	12.83
111	2007	191	100	72.8	85.6	2.641	264.1	16.24	12.82
111	2007	191	115	72.7	86.3	3.477	260.4	21.18	12.82
111	2007	191	130	72.5	86.7	3.455	270.6	22.49	12.81
111	2007	191	145	72.3	87.1	3.279	275.2	22.16	12.81
111	2007	191	200	72.2	87.3	1.641	312.7	34.16	12.81
111	2007	191	215	72	87.8	1.315	272.3	33.97	12.8
111	2007	191	230	71.9	88.1	2.006	230.8	12.39	12.79
111	2007	191	245	71.8	88.5	1.596	233.5	15.97	12.79
111	2007	191	300	71.5	88.9	0.137	88.2	23.52	12.79
111	2007	191	315	71.3	89.4	0.731	242.7	46.14	12.78
111	2007	191	330	71.3	90	1.774	243.9	17.84	12.77
111	2007	191	345	71.2	90.2	0.707	255.5	15.64	12.77
111	2007	191	400	71	90.6	1.341	242.3	12.65	12.77
111	2007	191	415	70.8	91	1.453	261.6	17.45	12.76
111	2007	191	430	70.8	91.2	1.357	274.1	25.76	12.75
111	2007	191	445	70.9	91.4	1.905	259.5	20.32	12.75
111	2007	191	500	71	91.3	1.859	277.4	20.71	12.75
111	2007	191	515	71.2	90.9	1.922	251.4	31.92	12.75
111	2007	191	530	71.3	90.9	1.329	204	28.89	12.74
111	2007	191	545	71.3	90.8	1.974	253.4	23.34	12.74
111	2007	191	600	71.4	90.8	2.072	262.6	20.98	12.73
111	2007	191	615	71.8	90.4	2.57	275	20.32	12.73
111	2007	191	630	72.4	90	2.413	270.9	22.53	12.73
111	2007	191	645	73.1	88.8	2.29	276.9	25.69	12.73
111	2007	191	700	73.8	87.8	2.794	273.4	19.88	12.74
111	2007	191	715	74.5	84.9	3.563	285.5	19.36	12.77
111	2007	191	730	75.4	82.4	2.961	289.8	28.12	12.82
111	2007	191	745	76.3	80.2	2.453	280.5	30.76	12.88
111	2007	191	800	77.1	78.4	2.53	260	28.6	12.96
111	2007	191	815	78	77.6	2.727	251.8	32.74	13.05
111	2007	191	830	78.2	78.1	3.412	247.9	33.06	13.17
111	2007	191	845	78.2	78.6	4.125	243.2	22.73	13.27
111	2007	191	900	78.2	77.5	3.916	242.8	32.67	13.3
111	2007	191	915	78.5	77.3	4.023	264.9	31.22	13.3
111	2007	191	930	79	75.4	3.487	255.3	26.78	13.29

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	191	945	79.1	76	3.972	219.7	23.51	13.28
111	2007	191	1000	78.6	79.2	5.342	223	21.68	13.28
111	2007	191	1015	78.8	76	4.579	232	32.98	13.28
111	2007	191	1030	79.6	75.6	4.325	236.3	27.47	13.28
111	2007	191	1045	79.3	75.3	5.276	231.4	29.19	13.27
111	2007	191	1100	78.9	78.1	6.033	247.5	25.73	13.28
111	2007	191	1115	78.9	77.6	5.638	242.2	30.89	13.28
111	2007	191	1130	79.1	79.5	5.669	244.9	24.74	13.27
111	2007	191	1145	78.7	77.8	6.501	236.3	25.54	13.28
111	2007	191	1200	79.1	77.3	5.473	230.7	28.98	13.28
111	2007	191	1215	79.7	76.8	6.148	247.1	25.55	13.27
111	2007	191	1230	80.1	75.6	5.592	232.7	29.11	13.27
111	2007	191	1245	79.8	77.7	5.723	236.4	25.21	13.27
111	2007	191	1300	79.4	77.5	6.106	241.2	28.12	13.27
111	2007	191	1315	79.7	75.6	6.535	260.8	22.19	13.26
111	2007	191	1330	79.8	76.2	6.902	259.6	31.2	13.27
111	2007	191	1345	80.4	75.7	6.448	246.2	29.88	13.27
111	2007	191	1400	80.2	78	7.43	254.9	23.35	13.27
111	2007	191	1415	80.5	75.6	6.464	259.2	30.25	13.26
111	2007	191	1430	80.7	75.1	6.755	254.9	25.37	13.26
111	2007	191	1445	80.7	77.2	6.428	251.5	28.15	13.26
111	2007	191	1500	80.5	78.1	6.724	235	26.76	13.26
111	2007	191	1515	79.5	77.4	6.668	240.2	27.69	13.26
111	2007	191	1530	78	81.1	7.41	220	25.04	13.26
111	2007	191	1545	76.9	82	5.923	231.6	28.12	13.26
111	2007	191	1600	77.3	83.4	6.605	237.5	26.68	13.27
111	2007	191	1615	77.1	83.7	6.68	261.1	31.1	13.28
111	2007	191	1630	77.4	82.6	5.92	248.9	31.51	13.28
111	2007	191	1645	77.6	83.5	6.581	237.2	29.98	13.28
111	2007	191	1700	77.3	83.8	5.868	237.7	26.89	13.28
111	2007	191	1715	77.2	84.2	5.749	258.1	28.57	13.29
111	2007	191	1730	76.4	85.5	6.317	258.9	29.61	13.29
111	2007	191	1745	75.2	87.3	5.592	241.9	24.85	13.3
111	2007	191	1800	74.6	88.6	5.945	231.8	26.02	13.31
111	2007	191	1815	74	90	6.094	228.8	25.43	13.17
111	2007	191	1830	73.8	90.7	5.987	228.8	25.68	13.06
111	2007	191	1845	73.6	91.2	5.455	237.8	23.74	13.01
111	2007	191	1900	73.3	91.6	5.372	250.7	30.5	12.97
111	2007	191	1915	73.4	91.6	4.778	252.2	29.2	12.95
111	2007	191	1930	73.3	92.1	4.75	248.3	26.05	12.93
111	2007	191	1945	73.1	92.4	4.585	236.8	27.71	12.92
111	2007	191	2000	73	92.5	4.593	246	25.94	12.91
111	2007	191	2015	72.8	92.9	4.907	244	24.57	12.89
111	2007	191	2030	72.6	93.2	5.475	246	25.57	12.89
111	2007	191	2045	72.5	93.4	6.041	244	22.34	12.88
111	2007	191	2100	72.5	93.8	4.925	237.3	26.62	12.87
111	2007	191	2115	72.5	93.9	5.558	226.4	24.26	12.87
111	2007	191	2130	72.7	94	4.77	237.6	27.34	12.87
111	2007	191	2145	72.8	94.1	4.653	233.7	28.55	12.86
111	2007	191	2200	72.8	94.1	5.113	240.7	27.36	12.85
111	2007	191	2215	72.8	94.2	4.164	237.7	25.38	12.85
111	2007	191	2230	72.7	94.2	4.131	243	29.01	12.85
111	2007	191	2245	72.6	94.3	4.476	232.6	22.53	12.85
111	2007	191	2300	72.3	94.3	4.48	234.3	24.25	12.84
111	2007	191	2315	72	94.4	5.205	234.7	22.42	12.83
111	2007	191	2330	71.9	94.5	5.004	232.9	24.83	12.83
111	2007	191	2345	71.7	94.6	5.453	231.3	24.26	12.83
111	2007	191	2400	71.7	94.6	3.821	236	25.32	12.82
111	2007	192	15	71.7	94.8	4.428	244.4	20.71	12.81
111	2007	192	30	71.9	94.8	3.839	225.8	23.92	12.81

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	192	45	72.1	94.7	4.119	229.5	21.32	12.8
111	2007	192	100	72	94.7	4.939	242.1	22.83	12.79
111	2007	192	115	72.1	94.8	4.518	245.2	24.51	12.79
111	2007	192	130	72.2	94.8	4.972	244.2	23.18	12.79
111	2007	192	145	72.3	94.8	4.001	242.4	25.7	12.78
111	2007	192	200	72.5	94.9	3.739	229	25.83	12.77
111	2007	192	215	72.4	94.9	4.466	221.7	19.36	12.77
111	2007	192	230	72.1	94.9	3.414	240.3	24.55	12.76
111	2007	192	245	71.9	94.9	3.122	249.6	28.33	12.76
111	2007	192	300	72	95	2.933	236.2	23.37	12.75
111	2007	192	315	71.9	94.9	3.033	251	25.86	12.75
111	2007	192	330	71.8	95	3.209	248.6	23.99	12.75
111	2007	192	345	71.8	95	3.179	241.7	23.46	12.75
111	2007	192	400	71.5	95.2	5.099	225.7	18.42	12.75
111	2007	192	415	71.3	95.1	4.516	222.9	21.88	12.74
111	2007	192	430	71.3	95.1	3.128	227.1	19.52	12.74
111	2007	192	445	71.5	95.1	3.581	227.8	23.69	12.74
111	2007	192	500	71.6	95.2	3.753	230.4	23.68	12.74
111	2007	192	515	71.7	95.1	3.622	232.7	21.67	12.74
111	2007	192	530	71.9	95.2	2.951	240.9	28.19	12.74
111	2007	192	545	72.1	95	3.557	226.1	22.05	12.74
111	2007	192	600	72.1	95.2	4.416	226.5	22.66	12.74
111	2007	192	615	72.2	95.1	3.712	234.1	25.55	12.74
111	2007	192	630	72.2	95.1	3.759	218.2	21.44	12.74
111	2007	192	645	72.3	95.2	3.741	218.5	21.62	12.74
111	2007	192	700	72.4	95.1	3.213	238.1	31.22	12.74
111	2007	192	715	72.5	95.1	3.451	244.7	27.94	12.75
111	2007	192	730	72.4	95.1	4.692	223.8	19.26	12.75
111	2007	192	745	72.3	95.2	5.127	223.1	19.39	12.76
111	2007	192	800	72.2	95.2	4.19	227.3	25.61	12.84
111	2007	192	815	72.2	95.1	5.55	215.1	19.52	12.91
111	2007	192	830	72.4	95	5.286	222.4	19.47	12.95
111	2007	192	845	72.3	95.1	4.418	220	19.07	12.92
111	2007	192	900	72.6	95	4.782	220.8	22.22	13.03
111	2007	192	915	73	94.8	4.782	223.9	26.53	13.37
111	2007	192	930	73.6	94.6	4.2	229.2	27.65	13.35
111	2007	192	945	73.9	94.2	3.459	247.9	31.24	13.35
111	2007	192	1000	74	93.9	3.966	225.9	31.78	13.34
111	2007	192	1015	74	93.4	4.343	217	31.06	13.34
111	2007	192	1030	74.4	92.4	4.706	225.7	26.68	13.33
111	2007	192	1045	73.5	93	5.493	223	18.25	13.34
111	2007	192	1100	73.7	93.1	4.595	243.4	28.23	13.34
111	2007	192	1115	74.2	92.2	4.355	227.1	23.19	13.35
111	2007	192	1130	74.1	92.2	3.857	248.3	32.23	13.34
111	2007	192	1145	74.5	91.7	4.264	226.5	33.41	13.34
111	2007	192	1200	74.6	90.9	4.798	217.3	21.95	13.33
111	2007	192	1215	75.3	89.4	4.162	237.9	25.32	13.32
111	2007	192	1230	75.7	88.3	5.235	205.9	23.36	13.31
111	2007	192	1245	75.8	87.6	4.69	226.2	27.7	13.31
111	2007	192	1300	76.3	86	4.43	231.6	32.19	13.31
111	2007	192	1315	76.6	86	4.677	213.5	31.25	13.3
111	2007	192	1330	75.6	87.9	5.995	197.4	22.45	13.3
111	2007	192	1345	76.1	84.1	5.576	203.5	22.51	13.3
111	2007	192	1400	77.3	83	5.598	193.8	26.8	13.3
111	2007	192	1415	77	85.2	6.066	212.8	20.82	13.29
111	2007	192	1430	76.2	85.5	5.348	212.4	26.58	13.28
111	2007	192	1445	75.5	86.7	5.64	205.5	22.96	13.3
111	2007	192	1500	75.2	87.4	5.82	210.9	21.05	13.3
111	2007	192	1515	75.6	86.7	5.997	198.2	29.07	13.3
111	2007	192	1530	75.8	85.8	5.395	209.9	24.02	13.3

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	192	1545	75.3	87.8	6.064	207.1	26.01	13.3
111	2007	192	1600	75.1	88	5.765	192.8	25.84	13.31
111	2007	192	1615	75.1	86.9	5.598	198.3	23.39	13.31
111	2007	192	1630	75.1	87.8	5.213	207	27.79	13.31
111	2007	192	1645	75.1	87.4	4.823	218.7	33.9	13.32
111	2007	192	1700	74.8	88.5	5.326	208.1	21.28	13.32
111	2007	192	1715	74.4	89.2	5.163	204.7	24.38	13.18
111	2007	192	1730	74.1	89.9	4.305	219.6	27.22	13.08
111	2007	192	1745	73.5	91.5	5.769	221.9	24.01	13.03
111	2007	192	1800	73.2	92.5	4.561	224	25.79	12.99
111	2007	192	1815	73.2	92.7	5	225.3	23.13	12.96
111	2007	192	1830	73	93.1	3.416	215.9	20.95	12.95
111	2007	192	1845	73.1	93.2	4.478	219	25.01	12.93
111	2007	192	1900	73.1	93.3	3.412	231.9	31.7	12.92
111	2007	192	1915	73.2	93.3	4.023	278.2	23.32	12.91
111	2007	192	1930	73.3	92.8	6.055	283.3	20.44	12.9
111	2007	192	1945	73.4	92.5	4.681	272.7	28.69	12.89
111	2007	192	2000	73.5	92.4	2.429	261.8	23.91	12.89
111	2007	192	2015	73.3	92.6	2.365	258.5	22.07	12.89
111	2007	192	2030	73.1	92.9	2.23	243.1	24.64	12.88
111	2007	192	2045	73	93	2.443	211.8	25.31	12.88
111	2007	192	2100	73	93.2	1.119	204.6	36.89	12.87
111	2007	192	2115	72.9	93.2	1.656	164.8	27.85	12.87
111	2007	192	2130	72.9	93.3	1.449	292.5	40.17	12.87
111	2007	192	2145	72.9	93.3	1.657	286.3	27.33	12.86
111	2007	192	2200	72.8	93.5	2.002	275.6	24.3	12.85
111	2007	192	2215	72.8	93.6	1.733	279.4	23.83	12.85
111	2007	192	2230	72.8	93.5	0.51	327.7	24.14	12.85
111	2007	192	2245	72.8	93.7	0.614	273.8	16.28	12.84
111	2007	192	2300	72.9	93.8	1.43	266.5	20.32	12.84
111	2007	192	2315	72.9	93.9	1.011	257.9	21.48	12.83
111	2007	192	2330	72.9	93.8	1.316	323.1	20.61	12.83
111	2007	192	2345	72.8	93.9	0.867	326.1	15.5	12.82
111	2007	192	2400	72.8	93.9	0.905	352.7	23.28	12.81
111	2007	193	15	72.7	93.9	1.523	319.1	18.06	12.81
111	2007	193	30	72.7	93.9	1.968	335.7	21	12.81
111	2007	193	45	72.6	93.9	1.52	354	30.77	12.79
111	2007	193	100	72.4	93.9	0.975	310	18.21	12.79
111	2007	193	115	72.3	93.9	1.625	357.7	29.41	12.79
111	2007	193	130	72.2	93.9	1.672	14.39	33.44	12.77
111	2007	193	145	72.2	93.9	2.226	21.06	27.78	12.77
111	2007	193	200	72.2	93.9	2.903	7.12	33.68	12.77
111	2007	193	215	72.1	93.7	3.39	13.81	30.65	12.76
111	2007	193	230	71.5	87.8	6.791	50.28	22.76	12.75
111	2007	193	245	69.01	82.3	7.34	50.11	24.43	12.75
111	2007	193	300	68.18	82.7	6.184	49.97	25.34	12.74
111	2007	193	315	67.75	83.7	5.302	48.67	23.88	12.73
111	2007	193	330	67.6	84.3	4.395	39.4	27.54	12.73
111	2007	193	345	67.33	80.1	6.152	37.31	24.04	12.73
111	2007	193	400	66.95	77.5	5.951	43.75	22.52	12.72
111	2007	193	415	66.8	75.6	6.12	44.86	29.23	12.72
111	2007	193	430	66.65	74.2	5.9	46.3	24.36	12.71
111	2007	193	445	66.56	73.6	5.201	43.05	26.14	12.71
111	2007	193	500	66.45	72.1	6.174	40.23	26.3	12.71
111	2007	193	515	66.32	70.8	5.663	45.28	29.34	12.71
111	2007	193	530	66.21	70.5	4.611	40.15	29.41	12.71
111	2007	193	545	66.14	68.37	5.31	32.95	21.83	12.71
111	2007	193	600	66.18	66.37	5.346	24.4	26.44	12.71
111	2007	193	615	66.18	65.63	6.009	40.66	22.83	12.71
111	2007	193	630	65.99	65.26	5.995	35.3	19.8	12.7

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	193	645	65.95	66.03	5.062	31.53	25.5	12.7
111	2007	193	700	65.97	65.36	5.288	23.27	23.9	12.7
111	2007	193	715	65.72	68.41	3.539	358.8	34.06	12.7
111	2007	193	730	65.29	68.87	4.138	356.5	28.56	12.7
111	2007	193	745	65.5	67.13	4.51	5.734	24.69	12.76
111	2007	193	800	66.35	63.59	5.344	13.87	25.84	12.97
111	2007	193	815	67.22	62.72	5.046	26.39	34.44	13.35
111	2007	193	830	67.53	63.72	4.972	9.86	30.3	13.42
111	2007	193	845	67.15	60.57	4.164	13.25	31.65	13.29
111	2007	193	900	68.65	58.26	5.155	15.78	33.93	13.28
111	2007	193	915	69.22	58.23	6.789	22.32	23.72	13.27
111	2007	193	930	69.83	56.39	5.922	27.09	30.38	13.25
111	2007	193	945	70.4	56.18	6.573	38.26	27.96	13.23
111	2007	193	1000	70.2	54.81	7.17	24.41	24.3	13.23
111	2007	193	1015	71.1	55.68	5.503	24.09	36.2	13.32
111	2007	193	1030	71.6	55.68	5.137	20.41	40.66	13.37
111	2007	193	1045	71.4	55.54	6.239	2.927	27.75	13.37
111	2007	193	1100	72	53.77	5.79	29.91	36.57	13.37
111	2007	193	1115	72.2	56.18	5.902	34.05	36.52	13.36
111	2007	193	1130	72.9	53.43	6.378	357.6	40.26	13.36
111	2007	193	1145	73.4	52.19	5.141	357.4	43.53	13.35
111	2007	193	1200	74	47.64	6.416	33.34	33.88	13.28
111	2007	193	1215	74.8	49.42	5.147	15.8	40.81	13.28
111	2007	193	1230	75	49.92	5.777	355.2	52.78	13.28
111	2007	193	1245	75	48.21	5.798	14.54	39.92	13.28
111	2007	193	1300	75.3	47.48	5.798	343.6	40.46	13.28
111	2007	193	1315	75.8	46.87	5.947	358.3	32.61	13.28
111	2007	193	1330	76.3	46.44	4.347	331.1	47.89	13.29
111	2007	193	1345	76.9	41.42	4.911	351.3	47.88	13.29
111	2007	193	1400	77.5	43.03	4.988	328.5	44.37	13.29
111	2007	193	1415	77.9	42.26	5.624	40.37	32.61	13.29
111	2007	193	1430	77.9	41.89	5.781	28.24	39.97	13.3
111	2007	193	1445	78.1	42.39	4.593	330.3	43.09	13.3
111	2007	193	1500	78.8	39.74	4.391	354.1	49.47	13.31
111	2007	193	1515	78.9	40.28	5.882	323.4	33.46	13.31
111	2007	193	1530	78.9	39.27	6.61	21.46	32.84	13.31
111	2007	193	1545	79.1	36.63	6.134	337.6	34.86	13.32
111	2007	193	1600	79.6	37.97	5.649	335.6	44.17	13.08
111	2007	193	1615	80.2	35.09	5.655	323.7	40.31	13.02
111	2007	193	1630	80.1	37.27	5.528	344.9	36.3	12.98
111	2007	193	1645	80.4	35.19	5.298	22.88	28.92	12.95
111	2007	193	1700	80.6	32.35	5.922	338.2	36.69	12.93
111	2007	193	1715	80.7	35.43	6.217	14.65	37.34	12.92
111	2007	193	1730	80.6	35.49	6.005	349.4	32.41	12.9
111	2007	193	1745	80.7	34.19	6.201	350.2	35.34	12.9
111	2007	193	1800	80.9	32.02	5.677	348.5	35.06	12.89
111	2007	193	1815	81.1	32.32	5.471	341.4	36.38	12.89
111	2007	193	1830	80.4	33.12	5.268	7.09	30.46	12.88
111	2007	193	1845	80.1	34.09	5.358	349.3	32.41	12.88
111	2007	193	1900	79.1	34.73	6.122	359.7	31.29	12.87
111	2007	193	1915	78.8	33.82	4.794	352.1	27.48	12.87
111	2007	193	1930	78.5	36.83	4.24	358.3	29.52	12.86
111	2007	193	1945	78	38.67	3.267	0.421	28.8	12.86
111	2007	193	2000	77.4	38.27	2.566	330	25.31	12.85
111	2007	193	2015	75.6	61.18	3.35	272.2	29.35	12.85
111	2007	193	2030	72.9	69.47	3.205	259.3	22.9	12.85
111	2007	193	2045	71.7	72.4	4.277	270.1	20.38	12.85
111	2007	193	2100	71.3	71.4	4.067	275.8	21.61	12.84
111	2007	193	2115	71	71.4	4.277	279.5	20.88	12.83
111	2007	193	2130	70.6	73.5	3.368	276	19.32	12.83

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	193	2145	70.4	75.4	3.156	280.5	19.6	12.83
111	2007	193	2200	70.1	76.3	3.314	273.2	19.75	12.82
111	2007	193	2215	69.87	77.5	2.987	274.1	19.67	12.81
111	2007	193	2230	69.61	78.8	2.302	281.2	17.07	12.81
111	2007	193	2245	69.24	79.8	1.695	292.1	20.74	12.81
111	2007	193	2300	68.84	80.8	2.073	284.6	14.34	12.8
111	2007	193	2315	68.4	81.8	1.698	284.8	17.49	12.79
111	2007	193	2330	68.05	82.4	1.962	286.8	13.49	12.79
111	2007	193	2345	68.09	81.6	1.74	294.6	17.13	12.78
111	2007	193	2400	68.19	80.9	2.183	298.1	19.4	12.77
111	2007	194	15	68.2	80.3	2.288	300.2	16.69	12.77
111	2007	194	30	67.94	80.6	1.696	297.5	17.04	12.76
111	2007	194	45	67.32	81.5	1.863	305.9	20.37	12.75
111	2007	194	100	66.92	81.7	1.385	304.3	12.88	12.75
111	2007	194	115	66.46	82.8	0.478	292.3	6.167	12.75
111	2007	194	130	65.78	83.4	1.714	315.8	16.11	12.74
111	2007	194	145	65.86	82.3	1.78	293.9	10.14	12.73
111	2007	194	200	65.84	82.4	1.537	290.2	11.89	12.73
111	2007	194	215	65.71	82.3	1.282	292.4	14.92	12.73
111	2007	194	230	65.54	83	1.373	298.5	16.51	12.72
111	2007	194	245	65.54	83.1	1.181	315.5	13.01	12.72
111	2007	194	300	65.33	83.9	1.277	305.4	15.33	12.72
111	2007	194	315	65.39	83.4	1.22	310	14.51	12.71
111	2007	194	330	65.38	82.8	1.139	311.6	11.08	12.72
111	2007	194	345	65.03	83.5	0.295	318.2	3.103	12.73
111	2007	194	400	64.4	85	0.238	306.4	2.679	12.73
111	2007	194	415	63.84	85.8	0.491	341.2	8.11	12.77
111	2007	194	430	63.53	86.2	0.85	323.1	7.53	12.95
111	2007	194	445	63.19	86.9	0.738	277.8	8.68	13.32
111	2007	194	500	62.83	87.4	0.812	306.7	8.83	13.39
111	2007	194	515	62.97	87.3	1.185	288	13.45	13.37
111	2007	194	530	63.93	84.5	1.728	278.3	21.99	13.37
111	2007	194	545	65.18	81.6	1.126	281.6	16.94	13.37
111	2007	194	600	65.99	79.5	2.276	272.8	16.78	13.36
111	2007	194	615	66.92	77.6	1.865	301.1	24.85	13.36
111	2007	194	630	68.05	73.5	2.481	290.1	16.61	13.37
111	2007	194	645	68.48	70.3	2.423	307.3	20.9	13.37
111	2007	194	700	68.78	67.5	3.12	306.5	22.72	13.36
111	2007	194	715	69.17	66.8	2.913	303.7	20.37	13.35
111	2007	194	730	69.59	68.2	2.562	277.8	25.24	13.35
111	2007	194	745	69.65	69.03	2.189	261.7	19.61	13.35
111	2007	194	800	70.2	68.36	2.635	283.1	18.69	13.34
111	2007	194	815	70.9	67.59	3.501	287	17.64	13.28
111	2007	194	830	71.2	67.79	3.481	278.6	13.99	13.33
111	2007	194	845	71.7	64.45	3.007	307.1	28.48	13.35
111	2007	194	900	72.9	63.21	2.963	256.4	34.22	13.36
111	2007	194	915	73.5	63.81	3.819	250.8	33.24	13.35
111	2007	194	930	74.2	62.67	4.164	271.1	26.44	13.35
111	2007	194	945	74.2	59.55	3.712	266.4	26.42	13.35
111	2007	194	1000	75.3	59.48	5.032	256.5	27.19	13.35
111	2007	194	1015	75.5	57.64	5.238	243.2	30.87	13.33
111	2007	194	1030	75.5	57.24	5.636	234.3	27.54	13.32
111	2007	194	1045	76.7	56.3	5.242	260.9	26.22	13.32
111	2007	194	1100	77.1	57.64	4.645	250.2	30.31	13.32
111	2007	194	1115	77.6	58.61	5.514	263.6	28.21	13.31
111	2007	194	1130	77.2	57.57	5.884	254.4	26.42	13.3
111	2007	194	1145	77	57.4	6.072	259.9	30.24	13.24
111	2007	194	1200	77.4	52.65	6.422	253	29.32	13.3
111	2007	194	1215	78.4	50.44	6.628	263.1	24.66	13.3
111	2007	194	1230	79.1	53.72	7.08	255.9	21.87	13.3

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	194	1245	78.3	55.72	6.823	238.6	25.08	13.29
111	2007	194	1300	78	53.88	6.44	259.5	27.9	13.28
111	2007	194	1315	78.5	50.97	7.86	271.7	22.78	13.28
111	2007	194	1330	79.5	49.23	7.12	259.8	25.14	13.29
111	2007	194	1345	80.3	51.2	7.28	249.2	25.84	13.29
111	2007	194	1400	79.6	53.94	6.932	246.4	25.61	13.29
111	2007	194	1415	78.3	53.48	8.32	248.8	26.22	13.29
111	2007	194	1430	78.7	52.57	7.36	252.4	26.31	13.29
111	2007	194	1445	78.6	52.81	6.89	257.3	25.09	13.3
111	2007	194	1500	78.2	54.81	7.09	260.7	28.49	13.29
111	2007	194	1515	78.4	57.69	6.771	259.7	24.9	13.31
111	2007	194	1530	77.4	58.02	6.718	264	23.68	13.32
111	2007	194	1545	77.1	54.52	6.63	259.9	26.21	13.32
111	2007	194	1600	76.9	60.57	7.3	254.8	26.87	13.33
111	2007	194	1615	76.1	58.46	6.865	253.8	26.09	13.33
111	2007	194	1630	76.5	60.2	6.408	263.1	29.99	13.25
111	2007	194	1645	75.9	60.08	6.535	264.5	28.08	13.1
111	2007	194	1700	75.5	61.08	7.39	269.1	24.46	13.03
111	2007	194	1715	75.5	61.42	6.479	264.5	28.89	12.99
111	2007	194	1730	75	66.47	6.045	263.6	27.2	12.95
111	2007	194	1745	74.6	67.8	5.383	262.5	24.48	12.93
111	2007	194	1800	74.3	69.74	6.114	268.4	28.39	12.92
111	2007	194	1815	74	71.3	5.955	260.5	28.97	12.91
111	2007	194	1830	73.7	72	5.383	259.3	26.43	12.89
111	2007	194	1845	73.7	71.5	5.203	272.1	27.95	12.89
111	2007	194	1900	74	71.5	5.115	264.2	24.43	12.88
111	2007	194	1915	73.5	73.4	4.933	254.7	26.22	12.87
111	2007	194	1930	73.1	74.1	4.557	261.4	26.76	12.84
111	2007	194	1945	72.9	74.3	4.129	260.4	30.35	12.86
111	2007	194	2000	72.8	73.2	4.19	267.6	25.62	12.85
111	2007	194	2015	72.8	73.6	3.515	263.7	21.53	12.85
111	2007	194	2030	72.8	73.9	2.967	254.2	18.78	12.85
111	2007	194	2045	72.8	73	2.721	265.3	28.04	12.84
111	2007	194	2100	72.8	72	1.759	274.8	18.54	12.84
111	2007	194	2115	72.7	68.65	2.804	277.3	17.79	12.83
111	2007	194	2130	72.9	67.12	2.717	276.7	20.69	12.83
111	2007	194	2145	72.7	66.02	2.602	274.8	19.34	12.83
111	2007	194	2200	72.3	64.88	2.167	276.8	15.08	12.82
111	2007	194	2215	72.1	65.25	1.594	275.2	18.33	12.82
111	2007	194	2230	71.7	65.45	1.539	272.6	18.27	12.81
111	2007	194	2245	71.7	64.68	2.026	280.5	22.55	12.81
111	2007	194	2300	71.6	64.62	2.355	271	20.11	12.81
111	2007	194	2315	71.3	64.98	2.294	277.8	17.81	12.77
111	2007	194	2330	71.1	65.82	1.581	298.7	19.31	12.8
111	2007	194	2345	70.8	67.29	1.752	320	18.83	12.79
111	2007	194	2400	69.95	70.3	0.78	315.2	18.22	12.79
111	2007	195	15	68.97	71.1	0.758	316.5	16.7	12.79
111	2007	195	30	68.77	70.2	1.249	305.7	20.56	12.78
111	2007	195	45	68.95	69.51	0.415	321.5	13.78	12.69
111	2007	195	100	68.25	72.9	0.749	303	26.26	12.77
111	2007	195	115	67.73	74.4	1.041	311.7	19.87	12.76
111	2007	195	130	67	75.4	0.679	327	6.29	12.75
111	2007	195	145	66.87	75.6	1.253	323	11.73	12.75
111	2007	195	200	66.93	77	0.979	291.5	13.66	12.74
111	2007	195	215	66.82	77.9	1.249	297.3	18.28	12.73
111	2007	195	230	66.62	78.1	1.823	296.4	14.33	12.73
111	2007	195	245	66.55	77.6	1.887	298.8	14.7	12.72
111	2007	195	300	65.99	79.9	1.706	287.5	16.76	12.71
111	2007	195	315	65.81	78.7	2.083	324.2	16.53	12.72
111	2007	195	330	65.83	79.4	1.587	344.5	21.63	12.71

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	195	345	65.22	80.6	1.972	321.9	25.15	12.72
111	2007	195	400	64.99	81	1.704	347.8	23.69	12.77
111	2007	195	415	64.53	81.9	1.974	311.4	16	12.79
111	2007	195	430	64.12	81.9	1.418	301	17.59	12.85
111	2007	195	445	63.4	84.3	1.631	282.4	10.07	12.91
111	2007	195	500	62.72	83	1.629	321.9	20.25	13.02
111	2007	195	515	62.94	79.7	1.847	311.1	13.56	13.14
111	2007	195	530	63.02	79	0.932	330.3	21.98	13.24
111	2007	195	545	62.61	81.2	0.349	288.8	11.54	13.34
111	2007	195	600	62.1	83.3	0.521	281.9	44.66	13.34
111	2007	195	615	62.69	78.5	0.714	21.76	12.64	13.33
111	2007	195	630	64.04	73.9	1.79	325.6	35.91	13.32
111	2007	195	645	64.93	70.2	2.413	355.4	24.85	13.3
111	2007	195	700	65.89	68.82	2.383	3.753	23.72	13.3
111	2007	195	715	66.8	68.08	2.397	13.98	28.05	13.29
111	2007	195	730	67.73	65.73	2.338	11.66	34.65	13.28
111	2007	195	745	68.25	63.75	3.459	21.23	28.48	13.28
111	2007	195	800	69.09	62.71	2.951	20.57	43.88	13.28
111	2007	195	815	70.2	60.7	2.449	39.05	47.77	13.28
111	2007	195	830	71.3	60.37	2.635	18.94	57.64	13.27
111	2007	195	845	71.8	58.66	2.175	339.7	52.28	13.28
111	2007	195	900	72.9	57.01	2.393	39.67	78.1	13.28
111	2007	195	915	74.7	54.17	1.952	307.8	85.3	13.27
111	2007	195	930	74.8	55.07	2.715	304.4	63.23	13.28
111	2007	195	945	75.8	53.93	2.659	295.8	78	13.27
111	2007	195	1000	75.6	54.73	3.896	208.8	34.4	13.28
111	2007	195	1015	76.1	53.26	3.86	237	35.44	13.28
111	2007	195	1030	76.4	48.38	4.051	232.9	33.02	13.28
111	2007	195	1045	76.9	47.17	4.329	250.6	29.53	13.27
111	2007	195	1100	78	49.17	4.474	237.9	44.93	13.28
111	2007	195	1115	77.4	51.24	5.298	248.8	38.58	13.28
111	2007	195	1130	75.5	51.58	5.699	222.7	24.53	13.28
111	2007	195	1145	75.5	48.3	5.757	242.8	22.91	13.28
111	2007	195	1200	76.3	45.86	5.916	232.2	23	13.28
111	2007	195	1215	77.2	45.06	6.074	239	30.51	13.27
111	2007	195	1230	77.2	46.4	6.055	238.8	28.27	13.27
111	2007	195	1245	77	50.41	6.825	227.5	24.26	13.27
111	2007	195	1300	77.2	51.14	6.172	228.9	27.32	13.28
111	2007	195	1315	77.8	49.04	6.724	244.2	28.25	13.28
111	2007	195	1330	78.9	46.23	5.626	238.2	35.59	13.28
111	2007	195	1345	78.3	49.67	6.299	248.4	29.64	13.28
111	2007	195	1400	77.9	45.12	7.1	248.2	22.58	13.29
111	2007	195	1415	78.6	44.52	5.638	241.7	34.78	13.29
111	2007	195	1430	78.2	42.45	6.847	250.9	30.67	13.3
111	2007	195	1445	78.9	48.43	5.647	235.9	27.52	13.3
111	2007	195	1500	78.4	48.96	6.241	236.1	32.16	13.31
111	2007	195	1515	78	48.5	7.25	221.3	28.28	13.31
111	2007	195	1530	77.6	51.14	7.73	217.3	17.35	13.32
111	2007	195	1545	77.7	51.6	6.849	237.1	28.81	13.32
111	2007	195	1600	78	50.94	7.45	235.4	24.91	13.33
111	2007	195	1615	77.7	53.31	7.42	224.1	18.8	13.33
111	2007	195	1630	77.5	53.84	7.6	220.9	22.45	13.32
111	2007	195	1645	77.2	56.22	8.03	218.7	23.06	13.07
111	2007	195	1700	76.9	60.29	7.72	218.5	22.56	13.01
111	2007	195	1715	77	64.3	6.843	226.7	28.83	12.97
111	2007	195	1730	76.2	65.31	7.72	222.7	23.67	12.94
111	2007	195	1745	75.9	63.34	7.42	227.5	22.42	12.92
111	2007	195	1800	76	63.11	7.15	227	25.95	12.9
111	2007	195	1815	76.1	65.22	6.144	227.5	27.27	12.89
111	2007	195	1830	75.4	68.26	6.66	231.7	21.38	12.88

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	195	1845	75.1	72.2	5.888	242	25	12.87
111	2007	195	1900	74.8	73.7	5.302	238.6	30.24	12.87
111	2007	195	1915	74.7	74.3	5.33	236.5	27.09	12.86
111	2007	195	1930	74.1	75.8	4.595	247.7	29.97	12.85
111	2007	195	1945	73.6	76.3	5.912	238.6	22.33	12.85
111	2007	195	2000	73.2	77.9	5.725	243.4	24.69	12.85
111	2007	195	2015	72.9	78.4	5.421	237.6	29.15	12.84
111	2007	195	2030	72.6	79.5	5.912	241.7	28.94	12.84
111	2007	195	2045	72.3	80.9	5.594	249.4	28.66	12.84
111	2007	195	2100	72.2	80.7	5.238	238.4	29.94	12.83
111	2007	195	2115	72	81.5	5.556	247.3	27.14	12.83
111	2007	195	2130	71.9	81	5.465	245.7	31.34	12.83
111	2007	195	2145	72.1	81.3	6.634	252.7	21.61	12.83
111	2007	195	2200	72	82.4	6.076	255.2	29.62	12.83
111	2007	195	2215	71.9	82.1	6.45	256	26.52	12.83
111	2007	195	2230	71.9	82	6.076	260	24.32	12.82
111	2007	195	2245	71.6	82	5.375	256.7	29.69	12.82
111	2007	195	2300	71.9	80.1	7.11	255.5	22.57	12.81
111	2007	195	2315	71.9	81.5	5.971	266.8	23.33	12.81
111	2007	195	2330	71.6	82.7	5.32	260.4	24.74	12.8
111	2007	195	2345	71.5	82.3	6.068	263.4	23.26	12.8
111	2007	195	2400	71.4	82.8	4.992	259.8	24.93	12.79
111	2007	196	15	71.4	81.1	5.941	259.3	27.67	12.79
111	2007	196	30	71.5	80.5	5.352	262.5	22.71	12.79
111	2007	196	45	71.4	80.8	5.501	262.8	24.61	12.78
111	2007	196	100	71.2	82	5.236	260.9	26.43	12.77
111	2007	196	115	71.2	82.1	5.431	251.5	22.62	12.77
111	2007	196	130	71.1	82	5.304	254	24.3	12.76
111	2007	196	145	71	82.4	5.131	252.1	24.93	12.76
111	2007	196	200	70.9	82.5	5.838	251.6	23.05	12.75
111	2007	196	215	70.9	82.3	5.203	256.3	26.33	12.75
111	2007	196	230	70.8	82.5	5.024	260	23.78	12.75
111	2007	196	245	70.8	82	4.559	254.2	27.17	12.74
111	2007	196	300	70.9	80.6	5.24	258.1	24.09	12.74
111	2007	196	315	70.9	80.4	4.927	256.1	25.76	12.74
111	2007	196	330	70.8	80.9	5.318	256.4	26.15	12.74
111	2007	196	345	70.9	81.1	5.097	253	26.11	12.74
111	2007	196	400	70.8	82.7	4.728	255.8	20.92	12.74
111	2007	196	415	70.7	83.7	4.919	258.4	30.75	12.75
111	2007	196	430	70.7	84.7	5.266	261	23.52	12.74
111	2007	196	445	70.8	85.2	5.503	262.3	20.97	12.75
111	2007	196	500	70.8	86.2	4.69	271.2	25.77	12.74
111	2007	196	515	70.6	87	4.059	275	24.05	12.74
111	2007	196	530	70.5	87.6	4.323	248.3	22.58	12.73
111	2007	196	545	70.4	87.8	3.898	264.1	28.04	12.73
111	2007	196	600	70.5	87.9	3.612	257.2	26.77	12.73
111	2007	196	615	70.6	87.6	3.884	258.5	26.2	12.73
111	2007	196	630	70.7	87.5	4.22	261.2	26.64	12.72
111	2007	196	645	71.2	86.1	5.026	259.3	23.1	12.72
111	2007	196	700	71.5	85.4	4.774	250	26.76	12.72
111	2007	196	715	72	85.3	4.945	256.7	27.83	12.71
111	2007	196	730	72	84.9	5.981	269	24.42	12.71
111	2007	196	745	72.9	82.6	4.976	260	25.57	12.71
111	2007	196	800	73.4	80	5.856	266	28.23	12.71
111	2007	196	815	74.1	77.5	6.535	269.7	26.51	12.71
111	2007	196	830	74.5	76.6	6.789	259.1	29.01	12.73
111	2007	196	845	74.8	73.5	6.616	262.8	25.12	13.15
111	2007	196	900	75.5	74.7	6.712	260.7	26.66	13.41
111	2007	196	915	75.2	75.7	8.89	264.9	20.72	13.41
111	2007	196	930	75.5	74.1	6.69	256.7	27.73	13.34

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	196	945	75.7	74.7	8.51	268.6	25.25	13.33
111	2007	196	1000	76.3	73.5	8.14	277.8	26.08	13.35
111	2007	196	1015	76.8	72.1	7.91	272.9	27.04	13.4
111	2007	196	1030	76.7	73.9	8.4	269.1	25.72	13.37
111	2007	196	1045	77.1	72.5	8.57	263.7	26.56	13.37
111	2007	196	1100	76.7	72.8	8.53	262.6	24.7	13.37
111	2007	196	1115	77.3	72	9.27	267.2	25.44	13.35
111	2007	196	1130	77.9	68.56	7.74	269.1	27.5	13.35
111	2007	196	1145	78.5	69.53	7.52	252.7	26.61	13.36
111	2007	196	1200	78.3	69.1	7.79	252.8	31.38	13.35
111	2007	196	1215	78.5	67.99	8.8	265.2	27.97	13.34
111	2007	196	1230	78.7	64.85	8.94	268.1	30.98	13.34
111	2007	196	1245	79.4	64.44	8.7	266.1	25.4	13.33
111	2007	196	1300	79	65.18	8.9	245.1	23.07	13.33
111	2007	196	1315	79.1	65.35	8.71	249.4	24.65	13.33
111	2007	196	1330	78.9	64.34	8.61	258	29.85	13.32
111	2007	196	1345	78.9	65.48	9.77	236.4	24.89	13.32
111	2007	196	1400	79.1	63.47	9.07	240	26.21	13.33
111	2007	196	1415	79	64.44	9.86	236.1	23.77	13.32
111	2007	196	1430	79.4	62.27	9.13	248.1	23.82	13.33
111	2007	196	1445	79.8	62.3	9.62	247.8	26.33	13.32
111	2007	196	1500	79.5	66.78	9.31	243.1	24.02	13.26
111	2007	196	1515	78.7	67.51	11.51	246.6	23.93	13.15
111	2007	196	1530	79	65.88	9.78	242.8	27.96	13.13
111	2007	196	1545	79.4	64.87	9.6	237.1	24.89	13.16
111	2007	196	1600	79.2	68.35	9.32	241.9	26.59	13.07
111	2007	196	1615	79.3	68.95	9.35	250.9	26.42	13.02
111	2007	196	1630	78.4	70.3	9.91	244.3	28.38	12.99
111	2007	196	1645	78.2	72.5	9.14	243.2	27.33	12.97
111	2007	196	1700	78.2	74.5	8.74	240.4	27.97	12.95
111	2007	196	1715	78.1	71.2	8.35	256.7	28.65	12.93
111	2007	196	1730	78	72.2	9.79	256.1	23.15	12.92
111	2007	196	1745	77.4	73.5	9.04	251	25.31	12.91
111	2007	196	1800	77	74.4	8.82	254.2	22.47	12.91
111	2007	196	1815	76.5	74.4	9.03	254.3	24.44	12.9
111	2007	196	1830	76.8	71.6	7.76	255.9	28.11	12.89
111	2007	196	1845	76.4	70	7.43	260.7	27.39	12.89
111	2007	196	1900	76	71	7.46	267.1	24.13	12.88
111	2007	196	1915	75.3	73	7.65	263.6	25.74	12.88
111	2007	196	1930	74.9	74	7.28	266.2	25.77	12.87
111	2007	196	1945	74.5	75.6	7.71	266.6	25.86	12.87
111	2007	196	2000	74.2	76.9	8.13	264.3	29.68	12.86
111	2007	196	2015	74	77.5	8.21	267.5	26.1	12.85
111	2007	196	2030	73.8	77.5	9.06	266.1	23.86	12.85
111	2007	196	2045	73.8	76.9	7.88	267.6	28.76	12.84
111	2007	196	2100	74	76.3	7.94	266.9	25.53	12.83
111	2007	196	2115	74.1	78	7.65	269.9	22.17	12.83
111	2007	196	2130	73.9	77.8	7.99	264.3	29.78	12.82
111	2007	196	2145	74	78.6	8.27	274.3	21.01	12.82
111	2007	196	2200	74.1	77.8	6.853	308	24.09	12.81
111	2007	196	2215	73.9	78.8	6.088	286.6	29.9	12.81
111	2007	196	2230	73.6	80.2	4.273	265.7	23.88	12.8
111	2007	196	2245	73.5	81.7	5.677	276.6	25.35	12.79
111	2007	196	2300	73.3	83.1	5.344	259.7	24.33	12.79
111	2007	196	2315	73.1	84.3	5.157	266.4	28.32	12.77
111	2007	196	2330	73	85.3	5.558	265.5	24.73	12.77
111	2007	196	2345	72.8	86.4	5.455	269.6	21.19	12.76
111	2007	196	2400	72.6	87.2	3.936	266.8	24.3	12.75
111	2007	197	15	72.3	87.7	5.884	264.5	19.82	12.75
111	2007	197	30	72	88.3	6.509	267.1	24.54	12.74

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	197	45	71.9	88.7	4.649	273.3	23.93	12.73
111	2007	197	100	71.9	88.8	4.581	276.3	25.11	12.73
111	2007	197	115	72.1	88.5	5.268	276.2	24.95	12.73
111	2007	197	130	72.1	88.2	3.98	267.7	24.02	12.73
111	2007	197	145	72.2	87.4	3.144	325.3	29.92	12.72
111	2007	197	200	72.3	86.9	3.102	324.1	40.98	12.72
111	2007	197	215	72.3	87.4	2.294	355.9	35.83	12.72
111	2007	197	230	72.1	87.9	1.976	348.5	43.07	12.72
111	2007	197	245	72	88.6	1.595	266.9	42.19	12.71
111	2007	197	300	71.8	89.3	1.893	85.2	62.95	12.71
111	2007	197	315	71.5	89.9	2.413	51.12	16.65	12.71
111	2007	197	330	71.3	90	2.681	54.08	24.01	12.71
111	2007	197	345	71.1	90	5.33	51.67	21.68	12.71
111	2007	197	400	70.6	90	4.484	60.8	21.11	12.74
111	2007	197	415	70.2	89.3	4.794	61.31	20.06	12.81
111	2007	197	430	69.85	89.2	5.217	56.04	21.94	12.93
111	2007	197	445	69.39	87.7	5.153	64.82	21.4	13.05
111	2007	197	500	69.16	85.2	4.806	76.2	23.78	13.17
111	2007	197	515	69.02	86.8	4.099	64.21	20.46	13.21
111	2007	197	530	68.65	85.9	4.025	67.92	23.4	13.37
111	2007	197	545	68.53	84.8	4.81	57.58	21.8	13.37
111	2007	197	600	68.41	81.6	4.333	61.59	20.56	13.37
111	2007	197	615	68.19	79	4.555	62.7	18.06	13.36
111	2007	197	630	67.99	78.3	4.43	69.07	19.65	13.36
111	2007	197	645	68.37	76.8	4.204	68.12	21.61	13.35
111	2007	197	700	68.53	76.7	4.123	58.92	21.55	13.35
111	2007	197	715	68.44	75.4	4.877	61.11	21.33	13.35
111	2007	197	730	69.04	73.5	5.495	61.59	23.27	13.34
111	2007	197	745	70.1	70	5.233	70.5	26.43	13.33
111	2007	197	800	70.6	67.26	5.487	69.48	22.92	13.32
111	2007	197	815	70.9	66.35	5.868	63.17	23.55	13.32
111	2007	197	830	71.2	65.61	6.875	69.3	19.78	13.32
111	2007	197	845	72.2	62.87	5.497	64.35	26.16	13.31
111	2007	197	900	72.9	56.58	6.9	91.5	27.89	13.32
111	2007	197	915	72.8	56.37	6.626	97.7	20.92	13.32
111	2007	197	930	72.5	58.68	5.451	68.77	22.66	13.32
111	2007	197	945	72.7	61.45	5.87	74.7	22.61	13.31
111	2007	197	1000	72.3	61.55	5.06	67.69	25.78	13.3
111	2007	197	1015	72.8	49.95	5.336	83.8	25.07	13.3
111	2007	197	1030	73.5	50.75	5.536	96.8	23.92	13.3
111	2007	197	1045	73.6	49.65	5.844	73.4	23.59	13.3
111	2007	197	1100	74.3	48.18	5.691	75.2	28.51	13.29
111	2007	197	1115	74.1	47.88	7.34	67.93	18.54	13.29
111	2007	197	1130	74	53.93	6.321	68.49	19.21	13.3
111	2007	197	1145	73.5	50.79	5.119	69.73	24.2	13.3
111	2007	197	1200	72.9	52.26	4.945	68.23	25.45	13.3
111	2007	197	1215	72.7	55.43	4.025	68.64	19.89	13.3
111	2007	197	1230	73.5	52.06	4.478	69.28	25	13.3
111	2007	197	1245	73.8	51.15	4.76	76.1	33	13.31
111	2007	197	1300	73.7	49.95	4.188	88.8	26.05	13.31
111	2007	197	1315	74.7	47.01	4.373	100.6	25.81	13.3
111	2007	197	1330	76.2	45.54	4.7	90.6	26.02	13.3
111	2007	197	1345	76.5	44.53	4.641	101	30.72	13.3
111	2007	197	1400	76.3	44.1	3.7	107.9	30.42	13.29
111	2007	197	1415	77.3	42.69	4.951	101	27.58	13.29
111	2007	197	1430	77.9	43.59	4.349	125.5	38.17	13.29
111	2007	197	1445	78.4	40.41	3.849	133.6	42.81	13.3
111	2007	197	1500	78.8	40.54	3.675	88.9	47.74	13.3
111	2007	197	1515	79	40.41	3.908	125.4	33	13.17
111	2007	197	1530	78.9	44.39	4.51	134.8	26.63	13.15

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	197	1545	78.8	45.82	3.253	123.2	36.87	13.31
111	2007	197	1600	79.3	48.43	3.126	150.9	76.5	13.11
111	2007	197	1615	78.8	50.7	4.418	211	23.54	13.04
111	2007	197	1630	77.6	50.57	4.796	222.9	20.18	13
111	2007	197	1645	77.7	54.58	5.665	215.1	20.82	12.97
111	2007	197	1700	77	54.55	6.221	195.2	21.89	12.95
111	2007	197	1715	76.5	54.91	5.463	207.6	24.79	12.93
111	2007	197	1730	76.7	55.41	5.491	216.5	23.25	12.93
111	2007	197	1745	76.7	48.96	5.844	183.6	25.31	12.91
111	2007	197	1800	76.5	51.47	5.469	201.5	21.49	12.91
111	2007	197	1815	76	50.6	4.069	198.9	31.92	12.9
111	2007	197	1830	75.5	53.98	3.968	206.5	18.63	12.89
111	2007	197	1845	75.5	53.09	3.501	209.4	30.45	12.89
111	2007	197	1900	75.7	54.23	3.783	190.7	24.95	12.88
111	2007	197	1915	75.4	58.51	3.793	197.3	21.68	12.87
111	2007	197	1930	74.5	59.08	3.93	201.5	18.09	12.87
111	2007	197	1945	74.2	62.65	3.072	207	22.38	12.87
111	2007	197	2000	74	64.76	3.59	206.6	26.21	12.87
111	2007	197	2015	73.4	63.59	3.291	206.6	20.87	12.86
111	2007	197	2030	73	64.26	2.576	211.7	21.76	12.86
111	2007	197	2045	72.6	65.7	1.895	200.1	28.72	12.86
111	2007	197	2100	72.3	67.85	1.506	218.4	18.67	12.85
111	2007	197	2115	72.1	69.79	1.594	237.9	26	12.85
111	2007	197	2130	71.6	71.2	1.665	298.5	25.26	12.85
111	2007	197	2145	70.9	72.5	1.418	289.9	21.39	12.85
111	2007	197	2200	70.4	74.1	0.763	270.7	19.08	12.84
111	2007	197	2215	70.1	74.7	1.255	299.8	24.86	12.83
111	2007	197	2230	69.83	76.9	0.987	263.2	23.9	12.83
111	2007	197	2245	69.31	79.1	1.285	256.3	17.32	12.83
111	2007	197	2300	69.36	77.6	1.422	248.5	21.35	12.82
111	2007	197	2315	69.42	75.1	1.445	245.1	29.35	12.82
111	2007	197	2330	69.33	75.1	0.968	275.2	32.16	12.81
111	2007	197	2345	68.87	76.2	0.807	332.6	57.14	12.81
111	2007	197	2400	68.41	77.5	0.42	280.2	14.82	12.81
111	2007	198	15	67.54	79.4	1.353	276	14.56	12.8
111	2007	198	30	67.26	79.6	1.692	279.4	16.57	12.8
111	2007	198	45	67.19	80	0.619	336.7	28.39	12.79
111	2007	198	100	66.98	81.3	1.39	295.3	25.49	12.79
111	2007	198	115	66.61	82.3	0.185	332.5	12.6	12.78
111	2007	198	130	66.78	82.4	1.074	328.1	29.2	12.77
111	2007	198	145	66.69	83.5	0.728	348.7	27.65	12.77
111	2007	198	200	67.24	82.7	0.882	20.47	43.99	12.77
111	2007	198	215	67.33	83.1	0.376	300.8	25.63	12.76
111	2007	198	230	67.28	83.3	1.314	348.8	23.52	12.75
111	2007	198	245	67.11	83.5	1.203	121.9	53.4	12.75
111	2007	198	300	66.83	84.5	1.889	17.6	11.12	12.75
111	2007	198	315	66.42	85.1	0.821	42.25	32.33	12.74
111	2007	198	330	66.01	86.1	0.428	330.8	7.58	12.74
111	2007	198	345	65.6	86.8	0.807	313.6	15.69	12.74
111	2007	198	400	65.24	87.8	0.232	287.2	17.32	12.73
111	2007	198	415	65.09	87.9	0.42	305.2	15.41	12.78
111	2007	198	430	64.83	88.2	0.878	320.7	32.44	13.05
111	2007	198	445	64.66	88.5	0.936	351.8	26.8	13.19
111	2007	198	500	64.75	88.1	0.741	18.45	11.7	13.17
111	2007	198	515	64.55	88.4	0.107	23.48	10.06	13.3
111	2007	198	530	64.54	88.4	0.979	6.778	40.41	13.32
111	2007	198	545	64.71	88	2.091	52.57	18.56	13.34
111	2007	198	600	64.89	87.5	1.196	101.8	13.74	13.33
111	2007	198	615	65.33	86.4	1.613	52.28	16.07	13.32
111	2007	198	630	65.75	85.7	2.888	56.86	15.74	13.32

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	198	645	66.41	84.6	2.29	65.96	21.79	13.31
111	2007	198	700	67.25	83	3.326	50.45	16.89	13.31
111	2007	198	715	68.42	81.1	3.708	54.12	20.54	13.31
111	2007	198	730	69.59	78.2	3.912	69.82	24.02	13.32
111	2007	198	745	70.7	76.2	4.021	65.26	22.34	13.31
111	2007	198	800	71.6	75.2	3.745	53	20.92	13.31
111	2007	198	815	72.7	69.93	4.438	60.14	24.79	13.31
111	2007	198	830	73.8	64.07	4.744	58.75	23.06	13.31
111	2007	198	845	74.6	62.79	4.581	65.7	25.21	13.3
111	2007	198	900	75.7	59.98	4.377	58.99	27.65	13.31
111	2007	198	915	76.4	57.64	4.772	54.48	25.68	13.3
111	2007	198	930	77.4	53.49	4.383	55.77	33.91	13.3
111	2007	198	945	78.1	52.89	4.403	82.6	25.51	13.29
111	2007	198	1000	79	52.32	3.95	64.69	38.55	13.29
111	2007	198	1015	79.7	48.94	4.013	75.8	41.26	13.29
111	2007	198	1030	80.4	46.79	3.664	106.2	49.86	13.29
111	2007	198	1045	81.1	54.58	3.404	137.7	74.9	13.29
111	2007	198	1100	79.5	58.39	5.066	191.8	28.26	13.29
111	2007	198	1115	79.5	56.35	5.89	203.1	20.73	13.29
111	2007	198	1130	79.5	56.78	5.522	210.5	25.74	13.3
111	2007	198	1145	79.5	60.63	4.484	205.6	28.84	13.3
111	2007	198	1200	79	56.68	5.524	193.9	23.23	13.3
111	2007	198	1215	79.4	56.05	5.761	188.7	18.79	13.3
111	2007	198	1230	79.6	56.28	5.469	201.6	27.6	13.29
111	2007	198	1245	79.2	55.68	6.037	193.2	27.05	13.3
111	2007	198	1300	78.3	67.48	7.33	209.4	17.95	13.3
111	2007	198	1315	77.5	64	7.27	199	24.2	13.31
111	2007	198	1330	78.4	66.01	6.91	205.3	22.72	13.31
111	2007	198	1345	77.3	61.47	6.99	201.3	25.58	13.31
111	2007	198	1400	77.7	60.76	6.879	198.7	24.2	13.31
111	2007	198	1415	77.1	63.3	7.37	190.4	21.59	13.3
111	2007	198	1430	77.2	58.19	6.817	194.6	25.62	13.3
111	2007	198	1445	78.4	56.82	6.166	202.7	28.99	13.3
111	2007	198	1500	78.8	53.68	5.312	215.8	33.14	13.31
111	2007	198	1515	78.5	51.7	5.594	205.9	33.52	13.32
111	2007	198	1530	79.2	53.31	5.912	210.3	26.28	13.32
111	2007	198	1545	78.8	58.69	5.636	195	25.67	13.32
111	2007	198	1600	77.8	63.64	6.861	190.4	19	13.33
111	2007	198	1615	77.3	57.15	6.013	194.9	28.53	13.34
111	2007	198	1630	77.1	59.79	6.968	199	23.99	13.34
111	2007	198	1645	76.5	59.66	6.521	192.1	20.3	13.13
111	2007	198	1700	76.5	61.7	6.321	190.6	26.34	13.05
111	2007	198	1715	76	63.57	6.078	210.8	26.32	12.99
111	2007	198	1730	76.2	62.47	5.775	186.7	21.09	12.96
111	2007	198	1745	75.6	61.6	5.927	195.1	21.75	12.93
111	2007	198	1800	75.8	63.28	5.04	196.9	26.01	12.91
111	2007	198	1815	75.6	65.95	4.696	207.8	28.49	12.9
111	2007	198	1830	75.1	66.59	4.202	198.4	24.88	12.89
111	2007	198	1845	75.3	69.16	3.747	212.8	32.38	12.88
111	2007	198	1900	75	68.93	3.666	202.5	31.99	12.87
111	2007	198	1915	74.7	72.7	3.612	212.8	30.14	12.86
111	2007	198	1930	74.4	72.7	4.216	193.9	23.36	12.85
111	2007	198	1945	73.9	75.4	4.323	206.8	21.65	12.85
111	2007	198	2000	73.1	78.3	3.912	213.5	26.17	12.84
111	2007	198	2015	72.5	79.8	3.37	202.6	25.92	12.84
111	2007	198	2030	72.2	81.8	3.648	209.5	19.59	12.83
111	2007	198	2045	71.9	85	3.237	239.3	20.95	12.83
111	2007	198	2100	71.6	87.1	3.233	218.2	20.99	12.82
111	2007	198	2115	71.5	88	3.586	229.6	21.76	12.82
111	2007	198	2130	71.4	88.8	3.203	232	23.52	12.81

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	198	2145	71.2	89.3	2.49	249	25.37	12.81
111	2007	198	2200	71.1	89.7	2.896	237.2	25.4	12.81
111	2007	198	2215	71.1	89.6	2.606	244.5	25.02	12.8
111	2007	198	2230	71.1	89.9	1.817	252	20.61	12.8
111	2007	198	2245	71	90.2	1.921	224.2	32.65	12.79
111	2007	198	2300	71.1	90.3	1.734	236.7	25.65	12.79
111	2007	198	2315	71.1	90.7	1.894	251.7	28.08	12.78
111	2007	198	2330	71.2	90.9	2.355	246	21.39	12.78
111	2007	198	2345	71.4	91	2.478	259.7	26.6	12.77
111	2007	198	2400	71.5	91	2.608	256.1	27.5	12.77
111	2007	199	15	71.6	90.9	3.759	244.4	30.65	12.76
111	2007	199	30	71.7	90.9	3.448	255.2	24.36	12.76
111	2007	199	45	71.7	90.9	3.471	247	20.84	12.76
111	2007	199	100	71.8	90.9	2.981	227.5	24.76	12.75
111	2007	199	115	71.9	90.8	2.931	231	30.06	12.75
111	2007	199	130	72	90.8	2.909	231.8	20.93	12.74
111	2007	199	145	71.9	90.8	2.814	225.2	17.31	12.74
111	2007	199	200	72	90.7	3.469	216.6	20.29	12.73
111	2007	199	215	71.8	90.9	2.8	238.6	25.27	12.73
111	2007	199	230	71.9	90.8	2.743	238.7	25.73	12.72
111	2007	199	245	71.9	90.6	2.151	249.2	31.16	12.72
111	2007	199	300	72	90.6	2.625	222.7	17.29	12.71
111	2007	199	315	72	90.6	2.751	211.5	19.41	12.71
111	2007	199	330	72.1	90.7	3.13	195.9	20.6	12.7
111	2007	199	345	72.1	90.6	4.095	196.4	18.3	12.74
111	2007	199	400	72.2	90.4	3.938	194.9	22.63	12.88
111	2007	199	415	72.2	90.4	4.407	194	17.7	13.01
111	2007	199	430	72.3	90.3	4.563	195.5	20.05	13
111	2007	199	445	72.3	90.2	4.281	186.7	17.99	13
111	2007	199	500	72.4	89.8	4.474	204.2	19.81	13
111	2007	199	515	72.4	89.7	4.029	194.1	21.06	13.05
111	2007	199	530	72.3	89.4	5.155	190.7	21.54	13.1
111	2007	199	545	72.2	89.6	4.964	187.9	22.88	13.14
111	2007	199	600	72.2	89.6	5.09	196.5	20.94	13.19
111	2007	199	615	72.2	89.3	4.79	190.1	16.68	13.23
111	2007	199	630	72.1	89	5.628	199.2	21.17	13.26
111	2007	199	645	72.1	89.4	5.006	185.9	20.69	13.3
111	2007	199	700	72.2	88.9	5.655	176.8	18.65	13.37
111	2007	199	715	72.7	87.7	7.34	180.7	18.13	13.37
111	2007	199	730	72.9	87.7	6.485	177.5	16.92	13.37
111	2007	199	745	73	87.3	7.2	176.3	21.06	13.37
111	2007	199	800	72.9	87.4	6.541	174.4	20.13	13.36
111	2007	199	815	72.8	87.7	5.977	160.3	19.26	13.35
111	2007	199	830	72.6	88.3	5.914	139.7	21.83	13.35
111	2007	199	845	72.2	89.7	6.982	147.1	18.31	13.34
111	2007	199	900	71.7	92	7.39	169.9	27.24	13.33
111	2007	199	915	69.14	92.6	3.442	304.8	44.45	13.32
111	2007	199	930	66.72	93.3	na	na	na	13.32
111	2007	199	945	67.22	93.2	na	na	na	13.32
111	2007	199	1000	67.37	92.7	na	na	na	13.31
111	2007	199	1015	67.66	93.2	na	na	na	13.31
111	2007	199	1030	68.19	93.6	na	na	na	13.31
111	2007	199	1045	68.4	93.6	na	na	na	13.31
111	2007	199	1100	67.97	94	na	na	na	13.3
111	2007	199	1115	68.21	94.2	na	na	na	13.3
111	2007	199	1130	68.42	94.2	na	na	na	13.3
111	2007	199	1145	68.15	94.4	na	na	na	13.3
111	2007	199	1200	68.36	94.5	na	na	na	13.29
111	2007	199	1215	68.76	94.4	na	na	na	13.3
111	2007	199	1230	69.28	94.1	na	na	na	13.29

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	199	1245	69.7	93.6	na	na	na	13.3
111	2007	199	1300	69.64	93.1	na	na	na	13.29
111	2007	199	1315	69.64	92.8	na	na	na	13.29
111	2007	199	1330	70.1	92	na	na	na	13.29
111	2007	199	1345	71	89.9	na	na	na	13.3
111	2007	199	1400	71.7	88.1	na	na	na	13.3
111	2007	199	1415	72.1	86.8	1.132	152.8	8.04	13.3
111	2007	199	1430	72.6	85.1	5.953	156	20.72	13.3
111	2007	199	1445	72.7	86.2	4.645	151.8	19.59	13.3
111	2007	199	1500	72.9	86.4	4.804	141.9	20.9	13.29
111	2007	199	1515	73.3	84.9	4.546	158.2	28.23	13.3
111	2007	199	1530	74.2	84.7	5.403	160.3	24.78	13.3
111	2007	199	1545	74.6	85.6	4.978	177	28.12	13.31
111	2007	199	1600	74.7	85.8	4.897	190.6	26.64	13.32
111	2007	199	1615	74.8	86.3	4.424	184.9	27.66	13.26
111	2007	199	1630	74.7	86.2	4.264	205.4	25.78	13.33
111	2007	199	1645	74.9	86	4.796	199.6	22.47	13.11
111	2007	199	1700	74.4	87.4	4.474	198.6	32.52	13.04
111	2007	199	1715	74.7	86.1	4.178	221.6	31.76	12.99
111	2007	199	1730	75.2	85.8	4.22	245	32.22	12.96
111	2007	199	1745	75.2	83	3.98	225.1	24.42	12.94
111	2007	199	1800	75.2	85.7	4.528	215.5	29.55	12.92
111	2007	199	1815	75	85.4	3.31	230.9	25.07	12.91
111	2007	199	1830	74.7	87	2.467	222	33.31	12.89
111	2007	199	1845	74.7	86.5	3.374	269.3	23.72	12.89
111	2007	199	1900	74.8	86.4	2.588	235.3	31.82	12.87
111	2007	199	1915	74.6	87	2.514	230.5	34.27	12.87
111	2007	199	1930	74.5	87.7	3.175	220.6	23.62	12.86
111	2007	199	1945	74.2	88	2.456	229.4	22.75	12.85
111	2007	199	2000	74	88.6	2.185	231	54.35	12.85
111	2007	199	2015	73.7	89	1.924	266.7	34.69	12.85
111	2007	199	2030	73.5	89.4	1.525	223.3	23.03	12.84
111	2007	199	2045	73.3	89.8	2.324	231.2	22.33	12.83
111	2007	199	2100	73.1	90.7	2.266	248.7	28.05	12.83
111	2007	199	2115	73	91	2.486	237.7	31.67	12.82
111	2007	199	2130	72.5	91.4	1.299	299	32.34	12.81
111	2007	199	2145	72.3	91.9	1.827	307.4	24.89	12.81
111	2007	199	2200	72.3	91.9	1.362	305	16.7	12.81
111	2007	199	2215	72.1	92	0.932	320.8	63.02	12.81
111	2007	199	2230	71.9	92.3	1.424	235.7	29.65	12.8
111	2007	199	2245	71.7	92.4	0.58	338.2	17.42	12.8
111	2007	199	2300	71.4	92.6	0.726	334.8	7.88	12.79
111	2007	199	2315	71.1	92.7	0.335	246.7	11.33	12.79
111	2007	199	2330	70.8	92.8	0.608	256.2	15.66	12.79
111	2007	199	2345	70.5	93.1	0.506	307.1	25.49	12.79
111	2007	199	2400	70.5	93.2	0.152	304.2	7.9	12.78
111	2007	200	15	70.4	93.4	0.61	250.2	17.97	12.77
111	2007	200	30	70.5	93.5	0.391	3.99	46.17	12.77
111	2007	200	45	70.6	93.4	0.953	343	27.38	12.77
111	2007	200	100	70.4	93.7	0.346	286.9	19.99	12.76
111	2007	200	115	70.4	93.7	0.159	321.1	5.174	12.75
111	2007	200	130	70.3	93.8	1.709	267.7	20.41	12.75
111	2007	200	145	70.3	94.1	1.712	260.1	21.91	12.74
111	2007	200	200	70.3	94.2	1.722	296.6	24.14	12.73
111	2007	200	215	70.3	94.3	2.026	313.6	25.65	12.73
111	2007	200	230	70.4	94.3	1.734	275.9	25.43	12.72
111	2007	200	245	70.4	94.4	1.441	266.5	27.09	12.71
111	2007	200	300	70.4	94.5	1.938	316.9	29.89	12.71
111	2007	200	315	70.3	94.6	2.07	320.1	28.11	12.71
111	2007	200	330	70.2	94.6	2.524	325.9	31.65	12.71

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	200	345	70.1	94.7	1.91	346.1	35.43	12.74
111	2007	200	400	70	94.8	2.062	330.7	28.89	12.81
111	2007	200	415	69.95	94.8	1.763	8.34	23.77	12.97
111	2007	200	430	69.76	94.9	1.662	8.54	24.28	13.17
111	2007	200	445	69.64	94.8	1.512	12.29	25.81	13.41
111	2007	200	500	69.63	95	1.408	6.014	33.79	13.42
111	2007	200	515	69.51	95.1	0.85	9.04	34.29	13.42
111	2007	200	530	69.47	95	0.553	60.38	11.12	13.42
111	2007	200	545	69.5	95.1	1.055	265.3	30.81	13.41
111	2007	200	600	69.48	95.1	0.098	60.29	1.888	13.41
111	2007	200	615	69.36	95.1	1.185	94.2	18.95	13.4
111	2007	200	630	69.28	95.2	1.851	85.4	20.68	13.39
111	2007	200	645	69.4	95.1	2.328	200.7	28.63	13.38
111	2007	200	700	69.52	95.1	2.198	222.9	20.96	13.37
111	2007	200	715	70	95	1.867	202.8	23.31	13.36
111	2007	200	730	70.2	94.7	2.635	230	29.45	13.35
111	2007	200	745	70.2	94.4	2.981	232.6	28.08	13.35
111	2007	200	800	70.3	94	2.477	209.4	27.01	13.35
111	2007	200	815	70.4	94.1	2.224	220.3	45.38	13.35
111	2007	200	830	70.6	93.6	1.949	233.3	61.38	13.35
111	2007	200	845	71.1	92.5	2.812	196.5	44.11	13.35
111	2007	200	900	72	90.9	3.035	225.4	33.92	13.33
111	2007	200	915	72.7	88	4.112	220.7	28.33	13.33
111	2007	200	930	73	87.1	3.388	229.6	33.5	13.33
111	2007	200	945	73.2	85.8	3.827	211.7	33.07	13.32
111	2007	200	1000	73.1	87	4.764	224.3	24.4	13.32
111	2007	200	1015	73.6	86.5	4.428	206.5	27.14	13.31
111	2007	200	1030	73.6	85.1	4.546	208.6	26.67	13.31
111	2007	200	1045	73.8	84.4	4.619	206.5	31.27	13.31
111	2007	200	1100	74.8	82.2	5.58	190.7	35.95	13.3
111	2007	200	1115	74.9	83.9	5.808	185	17.52	13.3
111	2007	200	1130	75.2	82.6	5.03	201.9	30.31	13.3
111	2007	200	1145	74.8	84.1	6.142	203	20.34	13.3
111	2007	200	1200	75.2	83.7	6.356	200.2	21.63	13.31
111	2007	200	1215	74.4	84.9	6.062	201.7	21.9	13.3
111	2007	200	1230	74.6	83.6	5.574	213.6	26.17	13.3
111	2007	200	1245	74.7	82.7	6.382	215.1	22.07	13.3
111	2007	200	1300	76.6	79	5.931	221.8	26.45	13.3
111	2007	200	1315	76.4	81.8	7.09	216.6	21.29	13.3
111	2007	200	1330	77.1	79	6.589	233.9	30.67	13.31
111	2007	200	1345	77	81.4	8.19	223.2	23.79	13.31
111	2007	200	1400	77.6	77.6	6.888	212.7	27.41	13.31
111	2007	200	1415	78.1	78.9	7.01	231.7	28.53	13.31
111	2007	200	1430	76.7	83.1	6.307	240	21.99	13.32
111	2007	200	1445	76.9	81.1	6.64	238.5	24.64	13.32
111	2007	200	1500	77.2	82.8	6.996	242.5	27.15	13.32
111	2007	200	1515	77.1	82.3	7.54	240.3	27.65	13.32
111	2007	200	1530	76.6	84	7.96	240.8	23.08	13.33
111	2007	200	1545	76	85	8.36	239.7	26.52	13.34
111	2007	200	1600	76.3	83.4	7.6	244.4	24.87	13.35
111	2007	200	1615	77.5	77.6	7.57	257.2	22.15	13.35
111	2007	200	1630	78.7	76.8	8.95	262.6	25.54	13.18
111	2007	200	1645	78.8	74.6	8.5	267.6	23.32	13.07
111	2007	200	1700	79.5	71.6	8.09	264.4	26.24	13.01
111	2007	200	1715	80.1	72.5	6.567	256.1	27.29	12.97
111	2007	200	1730	79.4	72.3	6.801	264.1	29.5	12.95
111	2007	200	1745	78.5	72.7	9.23	273.5	22.51	12.93
111	2007	200	1800	78.5	70.7	9.2	268.1	25.22	12.91
111	2007	200	1815	77.8	72.6	7.42	269.5	27.28	12.9
111	2007	200	1830	78.5	71.9	8.27	281.4	25.79	12.89

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	200	1845	77.6	74.3	7.36	271.1	22.45	12.88
111	2007	200	1900	77.4	74.4	6.289	267.2	28.58	12.87
111	2007	200	1915	77.4	74.9	5.225	269.9	21.58	12.87
111	2007	200	1930	76.8	76.9	4.692	263.7	24.94	12.86
111	2007	200	1945	76.4	77.5	4.462	269.5	22.09	12.86
111	2007	200	2000	75.9	78.6	4.254	261.3	27.2	12.85
111	2007	200	2015	75.7	79.7	6.027	260.2	28.3	12.85
111	2007	200	2030	75.3	82.8	6.666	268.2	26.89	12.85
111	2007	200	2045	74.8	82.5	5.441	269.9	22.35	12.85
111	2007	200	2100	74.7	83.6	4.105	250.7	25.82	12.84
111	2007	200	2115	74.2	84.5	2.622	260.5	22.24	12.84
111	2007	200	2130	74.1	84.3	2.399	269.7	25.55	12.83
111	2007	200	2145	74.3	83.7	2.365	241.7	21.95	12.83
111	2007	200	2200	74.3	83.6	2.673	251.8	20.13	12.83
111	2007	200	2215	74.1	82.4	3.585	258.8	22.94	12.83
111	2007	200	2230	74	82.3	4.009	284.7	18.81	12.82
111	2007	200	2245	74.2	81.2	4.206	281.6	20.82	12.82
111	2007	200	2300	74.4	80.6	3.811	278.4	21.59	12.81
111	2007	200	2315	74.5	80.3	4.498	282.3	18.95	12.81
111	2007	200	2330	74.4	81.1	4.311	272.2	21.65	12.81
111	2007	200	2345	74.3	82.1	4.047	273.8	20	12.8
111	2007	200	2400	74.2	82.8	3.934	275.2	19.66	12.79
111	2007	201	15	74	84.3	4.079	272.8	23.01	12.79
111	2007	201	30	73.7	85.5	3.783	266.4	26.25	12.79
111	2007	201	45	73.3	86.2	3.557	257.9	20.96	12.78
111	2007	201	100	73.3	86.7	3.201	253.7	26.34	12.77
111	2007	201	115	72.7	87.8	3.837	253.1	24.1	12.77
111	2007	201	130	72.2	87.8	3.692	250.8	25.25	12.76
111	2007	201	145	72.2	87.8	3.857	261.4	24.76	12.75
111	2007	201	200	72.4	87.7	3.92	269.1	19.42	12.74
111	2007	201	215	72.7	86.7	5.209	269.7	20.12	12.73
111	2007	201	230	72.9	86.1	5.632	260.9	24.6	12.73
111	2007	201	245	72.9	86.3	5.078	264.9	22.88	12.72
111	2007	201	300	72.8	86.6	5.651	267.1	25.48	12.71
111	2007	201	315	72.9	86.5	5.403	270.2	21.76	12.71
111	2007	201	330	73	86.5	5.131	271.3	22.66	12.7
111	2007	201	345	73.1	85.7	5.765	276.3	19.24	12.7
111	2007	201	400	73	85.4	6.231	277.2	19.89	12.69
111	2007	201	415	72.8	85.2	7.06	285.2	15.05	12.7
111	2007	201	430	72.6	85.9	5.55	282.5	21.83	12.69
111	2007	201	445	72.6	85.7	5.822	283.2	22.88	12.69
111	2007	201	500	72.6	85.7	5.556	275.8	22.42	12.69
111	2007	201	515	72.5	85.2	6.313	276.1	19.43	12.68
111	2007	201	530	72.8	84.3	6.497	281.6	18.85	12.68
111	2007	201	545	72.9	84	5.586	281.9	24.16	12.68
111	2007	201	600	73.1	83	6.295	284.8	19	12.68
111	2007	201	615	73.4	82.6	7.06	278.8	20.99	12.7
111	2007	201	630	73.4	82.7	6.172	280	18.75	12.74
111	2007	201	645	73.5	82.6	5.902	282.8	20.74	13.14
111	2007	201	700	73.6	82.7	4.994	287.3	19.85	13.28
111	2007	201	715	73.7	82.1	5.097	297	18.02	13.39
111	2007	201	730	74.5	76.9	5.828	301.5	20.63	13.33
111	2007	201	745	75.7	73	5.04	312.4	29.41	13.29
111	2007	201	800	75.7	73.9	4.516	322.3	24.37	13.25
111	2007	201	815	75.3	72.1	4.748	334.8	34.98	13.23
111	2007	201	830	76	70	4.786	325.5	28.72	13.25
111	2007	201	845	75.7	69.94	6.333	335.8	30.86	13.24
111	2007	201	900	76	65.9	6.652	334.1	27.63	13.14
111	2007	201	915	76.8	65.83	6.531	329.3	28.58	13.09
111	2007	201	930	76.5	63.09	6.7	348	33.43	13.03

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	201	945	76.4	62.42	5.741	346.3	31.37	12.99
111	2007	201	1000	77.1	62.96	5.741	359.6	33.03	12.98
111	2007	201	1015	76.2	58.81	5.669	333.3	29.49	13.37
111	2007	201	1030	76	55.33	5.24	328.5	29.1	13.43
111	2007	201	1045	76.7	49.28	7.21	329.2	30.04	13.41
111	2007	201	1100	77.4	48.71	7.46	349.9	31.32	13.41
111	2007	201	1115	77	51.69	7.71	349	28.75	13.4
111	2007	201	1130	76.8	52.42	6.666	339.5	29.69	13.39
111	2007	201	1145	76.7	51.55	6.495	347.1	31.96	13.39
111	2007	201	1200	77.5	49.18	5.564	337.5	37.45	13.37
111	2007	201	1215	78.3	43.19	7.79	314.2	27.87	13.27
111	2007	201	1230	79.4	48.07	7.07	325.6	38.77	13.25
111	2007	201	1245	79.5	43.32	6.315	335.7	45.83	13.21
111	2007	201	1300	79.4	43.79	6.94	345.1	30.98	13.17
111	2007	201	1315	79.2	44.49	7.07	353	37.4	13.2
111	2007	201	1330	78.5	42.52	9.09	346.3	33.93	13.24
111	2007	201	1345	78.4	42.28	8.42	343.6	34.84	13.39
111	2007	201	1400	77.7	42.32	8.95	351.8	30.66	13.39
111	2007	201	1415	78	42.89	8.1	344.7	37.88	13.39
111	2007	201	1430	77.1	43.02	7.99	347.1	34.81	13.38
111	2007	201	1445	77.6	38.88	7.8	334.2	29.27	13.39
111	2007	201	1500	77.4	41.55	7.99	339.4	29.17	13.31
111	2007	201	1515	77.9	40.41	8.35	330.8	28.57	13.14
111	2007	201	1530	78.3	40.25	6.603	346.1	31.84	13.06
111	2007	201	1545	77.8	40.72	6.692	349.7	36.77	13.01
111	2007	201	1600	76.9	43.99	6.873	333.4	32.47	12.97
111	2007	201	1615	76.6	42.15	7.23	343.5	36.32	12.95
111	2007	201	1630	77.4	42.19	6.495	343.7	36.85	12.93
111	2007	201	1645	77.2	41.95	7.75	358.4	32.98	12.91
111	2007	201	1700	77.8	40.82	7.55	357.9	36.66	12.9
111	2007	201	1715	77.7	38.98	7.35	338.8	29.03	12.89
111	2007	201	1730	78.6	40.51	7.02	353.2	33.02	12.88
111	2007	201	1745	77.7	41.45	7.96	2.419	32.45	12.87
111	2007	201	1800	77.5	42.15	6.896	346.9	30.21	12.87
111	2007	201	1815	77.3	40.51	7.51	345.2	30.74	12.86
111	2007	201	1830	76.9	41.22	7.82	346.5	32.62	12.86
111	2007	201	1845	76.6	42.19	6.871	352.1	31.64	12.85
111	2007	201	1900	76.5	42.96	6.416	352.2	28.65	12.85
111	2007	201	1915	76	43.23	7.26	344.4	33.77	12.84
111	2007	201	1930	75.6	44.2	5.679	339.4	29.33	12.83
111	2007	201	1945	75.3	46.24	4.27	346.8	30.2	12.83
111	2007	201	2000	74.4	44.73	6.136	348.8	31.74	12.82
111	2007	201	2015	73.6	45.9	6.12	345.9	31.91	12.81
111	2007	201	2030	72.9	44.8	6.277	349.8	31.65	12.81
111	2007	201	2045	72.4	46.71	7.58	347.5	25.15	12.81
111	2007	201	2100	71.7	48.66	4.772	339.5	30.39	12.79
111	2007	201	2115	71.1	47.36	5.667	340.5	30.81	12.79
111	2007	201	2130	70.7	46.69	5.92	351	29.13	12.78
111	2007	201	2145	70.2	48.19	5.485	348.3	28.31	12.77
111	2007	201	2200	69.7	48.33	6.388	356.9	31.41	12.76
111	2007	201	2215	69.5	48.19	7.83	9.17	27.3	12.75
111	2007	201	2230	69.01	48.9	6.229	3.609	29.73	12.74
111	2007	201	2245	68.6	49.9	6.458	3.901	31.31	12.73
111	2007	201	2300	68.16	51.07	6.043	1.688	26.49	12.72
111	2007	201	2315	67.67	53.18	4.806	6.852	31.59	12.71
111	2007	201	2330	67.06	54.46	4.369	5.29	31.61	12.7
111	2007	201	2345	66.67	55.56	4.79	356.3	31.61	12.7
111	2007	201	2400	66.3	57	5.586	358	27.72	12.69
111	2007	202	15	65.96	58.2	4.643	357.2	31.95	12.68
111	2007	202	30	65.62	59.17	5.076	358.1	31.26	12.68

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	202	45	65.25	60.48	4.754	3.107	29.65	12.67
111	2007	202	100	64.83	61.82	3.894	13.35	32.03	12.67
111	2007	202	115	64.54	63.23	4.075	356.9	29.89	12.67
111	2007	202	130	64.18	63.77	3.825	8.05	29.48	12.66
111	2007	202	145	63.89	65.07	2.162	2.688	42.49	12.66
111	2007	202	200	63.56	65.98	2.014	354.6	31.06	12.66
111	2007	202	215	63.29	66.95	2.731	353.3	28.52	12.66
111	2007	202	230	63.19	67.51	2.757	10.73	28.08	12.65
111	2007	202	245	63.16	67.98	3.596	8.77	30.14	12.65
111	2007	202	300	63.21	68.99	3.434	17.04	30.88	12.65
111	2007	202	315	63.3	68.82	3.88	31.46	30.51	12.65
111	2007	202	330	63.7	68.85	4.563	30.61	25.45	12.65
111	2007	202	345	63.57	69.82	3.739	25.87	26.84	12.66
111	2007	202	400	63.41	70.5	3.791	16.58	25.09	12.7
111	2007	202	415	63.05	71.5	3.402	12.35	33.1	12.75
111	2007	202	430	62.7	72.7	4.043	5.59	25.12	12.77
111	2007	202	445	62.39	72.4	3.767	16.03	24.86	12.79
111	2007	202	500	62.28	72.7	3.205	19.65	31.81	12.85
111	2007	202	515	62.44	72	4.585	21.29	24.75	12.91
111	2007	202	530	62.59	72.1	4.534	32.53	30.47	12.97
111	2007	202	545	62.57	72	4.683	32.04	25.23	13.03
111	2007	202	600	62.44	72.4	5.082	28.79	22.38	13.09
111	2007	202	615	62.26	73	4.15	25.84	19.77	13.15
111	2007	202	630	62.46	72.9	4.317	29.21	23.84	13.22
111	2007	202	645	62.93	71.5	4.331	27.97	24.08	13.27
111	2007	202	700	63.76	70.1	5.443	31.5	25.74	13.35
111	2007	202	715	64.87	67.85	4.927	33.79	29.11	13.35
111	2007	202	730	65.62	67.17	6.082	30.77	27.54	13.34
111	2007	202	745	65.67	65.63	6.122	30.15	26.26	13.34
111	2007	202	800	65.83	65.2	5.721	36.64	27.48	13.34
111	2007	202	815	66.18	63.99	6.638	38.94	25.17	13.33
111	2007	202	830	67.19	62.52	6.648	41.38	25.09	13.33
111	2007	202	845	67.88	60.47	6.422	43.49	26.55	13.33
111	2007	202	900	68.34	60.27	7.2	44.17	28.67	13.33
111	2007	202	915	69.27	58.26	5.632	43.24	30.89	13.32
111	2007	202	930	69.8	58.46	6.583	32	29.88	13.33
111	2007	202	945	70.2	57.46	6.011	22.26	30.33	13.33
111	2007	202	1000	70.4	56.28	5.737	35.21	24.06	13.33
111	2007	202	1015	71.5	54.07	6.18	25.79	31.44	13.32
111	2007	202	1030	71.8	54.67	5.729	18.04	36.79	13.32
111	2007	202	1045	72	54.3	5.437	27.93	27.36	13.31
111	2007	202	1100	72.8	52.73	6.221	36.81	26.86	13.32
111	2007	202	1115	73	53.3	5.554	34.87	30.62	13.31
111	2007	202	1130	73.8	47.28	6.162	31.55	36.4	13.32
111	2007	202	1145	74.7	47.21	6.398	40.68	36.38	13.32
111	2007	202	1200	75.4	46.27	6.648	41.03	33.62	13.31
111	2007	202	1215	76.2	41.69	7.03	37.41	29.1	13.31
111	2007	202	1230	76.9	41.99	6.618	23.55	38.97	13.31
111	2007	202	1245	77.2	45.17	6.644	48.08	40.89	13.32
111	2007	202	1300	77.4	40.29	6.553	34.1	33.4	13.32
111	2007	202	1315	77.6	40.92	7.33	41.38	32.81	13.33
111	2007	202	1330	77.7	40.21	7.35	29.24	26.68	13.33
111	2007	202	1345	77.4	41.35	8.25	52.91	19	13.33
111	2007	202	1400	78.5	37.84	7.85	28.46	30.7	13.34
111	2007	202	1415	78.7	36.74	9.57	44.49	28.02	13.35
111	2007	202	1430	79	35.8	10.29	53.07	20.59	13.35
111	2007	202	1445	79.4	37.77	8.22	49.27	26.38	13.35
111	2007	202	1500	79.7	36.77	7.06	57.84	27.85	13.36
111	2007	202	1515	79.6	37.57	8.37	60.34	31.82	13.36
111	2007	202	1530	79.3	38.24	7.34	49.67	28.2	13.37

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	202	1545	79.6	38	6.71	53.85	31.87	13.37
111	2007	202	1600	79.4	39.1	7.95	27.78	28.88	13.22
111	2007	202	1615	79.6	37.97	8.12	44.5	25.54	13.11
111	2007	202	1630	79.2	41.24	7.04	35.3	34.21	13.11
111	2007	202	1645	79.3	38.77	6.053	35.73	32.14	13.07
111	2007	202	1700	79.2	38.3	6.43	43.08	29.27	13.01
111	2007	202	1715	79.3	39.37	7.45	56.19	26.66	12.97
111	2007	202	1730	79.5	38.67	6.73	53.5	21.49	12.93
111	2007	202	1745	79.9	38.7	7.29	39.76	28.89	12.92
111	2007	202	1800	80.4	37.5	6.424	39.96	29.92	12.9
111	2007	202	1815	79.9	38.4	6.89	47.76	25.33	12.89
111	2007	202	1830	79.2	39.1	6.479	48.85	23.54	12.88
111	2007	202	1845	78.7	39.37	5.723	44.54	27.72	12.87
111	2007	202	1900	78.7	40.78	5.493	39.31	22.23	12.87
111	2007	202	1915	78.3	42.02	4.593	36.95	33.75	12.86
111	2007	202	1930	77.7	42.66	5.195	36.85	26.16	12.85
111	2007	202	1945	77.6	42.53	4.708	40.42	29.46	12.85
111	2007	202	2000	77.2	42.56	4.551	40.34	22.18	12.85
111	2007	202	2015	76.6	44.2	3.297	57.28	28.2	12.84
111	2007	202	2030	75.7	53.93	3.908	128.6	22.93	12.83
111	2007	202	2045	74.3	57.54	3.173	160.2	20.69	12.83
111	2007	202	2100	73.8	58.85	1.899	176.2	31.56	12.83
111	2007	202	2115	73.2	61.26	1.991	203.9	28.9	12.83
111	2007	202	2130	72.5	63.3	1.718	193.1	34.34	12.82
111	2007	202	2145	72	63.34	1.13	208.4	43.72	12.82
111	2007	202	2200	71.3	67.22	1.699	326.7	10	12.82
111	2007	202	2215	70.3	69.2	0.959	307.3	34.97	12.81
111	2007	202	2230	69.74	69.8	1.072	320.2	13.38	12.81
111	2007	202	2245	69.38	70.8	0.534	330.5	10.88	12.81
111	2007	202	2300	69.06	71.1	0.207	303.7	4.287	12.8
111	2007	202	2315	68.81	72.3	0.897	324.4	14.44	12.8
111	2007	202	2330	68.24	74.1	0.667	316.2	17.33	12.79
111	2007	202	2345	67.51	75.2	0.479	313	17.38	12.79
111	2007	202	2400	67.33	72.6	1.416	353	19.27	12.78
111	2007	203	15	67.42	70.9	1.158	333.3	16.44	12.78
111	2007	203	30	67.51	69.28	1.445	341	20	12.77
111	2007	203	45	67.58	68.94	0.692	3.124	22.27	12.76
111	2007	203	100	67.67	67.07	1.585	62.86	23.81	12.76
111	2007	203	115	67.94	66	2.312	64.55	22.53	12.75
111	2007	203	130	68.28	64.49	2.941	55.92	17.84	12.74
111	2007	203	145	68.54	63.69	3.199	56.25	19.68	12.74
111	2007	203	200	68.69	62.62	3.594	58.83	22.02	12.73
111	2007	203	215	68.7	60.98	3.974	57.03	22.3	12.72
111	2007	203	230	68.8	58.94	4.268	60.85	23.51	12.72
111	2007	203	245	68.71	57.37	4.514	61.74	22.82	12.71
111	2007	203	300	68.66	56	5.24	63.71	21.95	12.7
111	2007	203	315	68.34	55.69	4.587	59.87	21.41	12.7
111	2007	203	330	68.16	54.42	5.332	59.11	24.16	12.7
111	2007	203	345	67.97	55.19	4.688	58.58	19.79	12.69
111	2007	203	400	67.64	56.33	4.532	57.68	18.41	12.69
111	2007	203	415	67.32	57.03	4.935	56.05	22.4	12.69
111	2007	203	430	67.08	57.4	4.538	55.91	20.88	12.69
111	2007	203	445	66.9	58.71	4.825	51.19	20.14	12.71
111	2007	203	500	66.77	58.44	4.74	59.08	22.41	12.76
111	2007	203	515	66.87	58.61	5.199	58.43	20.67	12.84
111	2007	203	530	66.6	60.31	4.272	62.57	23.38	12.91
111	2007	203	545	66.17	61.65	3.843	65.64	21.6	13
111	2007	203	600	66.06	61.35	4.661	61.42	18.39	13.03
111	2007	203	615	66.1	60.95	4.142	59.08	20.76	13.14
111	2007	203	630	66.58	60.18	4.609	55.15	18.95	13.25

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	203	645	66.71	61.41	4.105	55.29	23.21	13.31
111	2007	203	700	66.72	61.48	4.565	59.74	19.24	13.33
111	2007	203	715	67.21	60.78	5.181	54.54	22.82	13.32
111	2007	203	730	67.93	59.68	5.229	61.51	19.67	13.32
111	2007	203	745	68.62	58.87	5.016	66.26	26.25	13.31
111	2007	203	800	68.83	58.73	6.094	63.24	22.15	13.31
111	2007	203	815	69.06	58.13	6.466	60.39	25.21	13.32
111	2007	203	830	69.02	58.6	6.007	62.99	26.22	13.31
111	2007	203	845	68.94	58.66	4.714	56.47	20.4	13.32
111	2007	203	900	69.43	59.33	4.44	59.48	24.08	13.32
111	2007	203	915	70.3	57.49	5.346	55.68	23.01	13.32
111	2007	203	930	70.5	55.88	5.735	61.65	25.47	13.32
111	2007	203	945	71.4	55.18	5.34	52.46	18.38	13.31
111	2007	203	1000	72.4	53.54	6.221	74.1	20.93	13.32
111	2007	203	1015	73.1	49.72	5.939	67.49	28.24	13.31
111	2007	203	1030	74.1	50.12	6.311	85.2	28.87	13.31
111	2007	203	1045	74	47.78	6.555	65.84	28.09	13.3
111	2007	203	1100	74.3	48.31	7.32	79.2	25.21	13.3
111	2007	203	1115	73.6	50.25	7.17	103	21.03	13.3
111	2007	203	1130	73.8	51.02	5.246	80.2	31.72	13.3
111	2007	203	1145	74.7	48.11	6.11	77.9	28.27	13.3
111	2007	203	1200	75.4	48.28	6.879	86.7	28.35	13.3
111	2007	203	1215	76.3	48.85	5.894	82.6	39.46	13.3
111	2007	203	1230	76.5	49.41	5.189	89.2	32.28	13.3
111	2007	203	1245	76.8	48.65	6.338	115	20.37	13.3
111	2007	203	1300	77.6	44.43	5.965	86.9	24.88	13.3
111	2007	203	1315	77.5	46.9	6.386	83.8	37.48	13.3
111	2007	203	1330	78.6	46.5	5.878	109.7	39.69	13.31
111	2007	203	1345	79.1	44.16	6.642	111.9	26.86	13.32
111	2007	203	1400	78.8	41.45	6.93	105	30.56	13.32
111	2007	203	1415	78.9	41.31	6.368	98.8	27.45	13.32
111	2007	203	1430	78.9	44.45	7.05	103.8	34.79	13.32
111	2007	203	1445	77.2	56.05	4.994	216	26.26	13.32
111	2007	203	1500	76.4	55.35	3.414	199.1	51.27	13.33
111	2007	203	1515	76.4	59.5	5.963	186.6	26.42	13.34
111	2007	203	1530	76.1	54.12	4.623	189.5	25.36	13.35
111	2007	203	1545	76.8	55.22	5.272	205.7	24.15	13.35
111	2007	203	1600	77.9	52.64	4.14	190.1	53.48	13.35
111	2007	203	1615	76.3	54.25	6.487	196.6	23.82	13.36
111	2007	203	1630	76.2	54.45	7.02	185.1	22.64	13.27
111	2007	203	1645	76.1	52.95	8.47	172.5	19.84	13.07
111	2007	203	1700	76.3	50.07	7.6	171	19.33	13.01
111	2007	203	1715	76.4	50.88	7.66	162.9	20.85	12.97
111	2007	203	1730	76.3	50.78	7.65	173.1	17.78	12.94
111	2007	203	1745	76.4	49.54	7.22	179	18.16	12.92
111	2007	203	1800	76.1	51.21	7.24	176.9	19.53	12.91
111	2007	203	1815	75.9	51.38	6.817	147.6	20.96	12.89
111	2007	203	1830	75.1	55.49	6.293	151.2	22.8	12.89
111	2007	203	1845	74.4	57.33	6.624	149.4	19.59	12.88
111	2007	203	1900	74.1	58.07	6.68	157.4	20.91	12.87
111	2007	203	1915	73.7	59.81	6.217	158.5	23.53	12.86
111	2007	203	1930	73.5	60.41	6.023	152.9	23.1	12.86
111	2007	203	1945	72.9	62.45	4.82	142.4	26.95	12.85
111	2007	203	2000	72.6	60.65	5.657	147.3	18.56	12.85
111	2007	203	2015	72.2	61.22	6.821	139.9	18.99	12.85
111	2007	203	2030	71.9	63.4	5.205	130.9	20.21	12.84
111	2007	203	2045	71.6	63.2	5.58	128.9	17.77	12.83
111	2007	203	2100	71.4	62.64	5.36	140.7	17.86	12.83
111	2007	203	2115	71.2	61.94	4.119	105.3	22.81	12.83
111	2007	203	2130	71	62.98	3.287	92	16.02	12.82

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	203	2145	70.6	63.98	2.735	93.7	20.19	12.81
111	2007	203	2200	70.3	64.92	1.913	71.2	20.78	12.81
111	2007	203	2215	70	65.35	1.986	99.3	17.88	12.81
111	2007	203	2230	69.99	65.89	2.185	95.7	15.4	12.81
111	2007	203	2245	69.82	66.29	1.881	82	23.2	12.8
111	2007	203	2300	69.73	65.89	2.86	84.8	18.25	12.79
111	2007	203	2315	69.73	59.83	4.029	92.4	22.99	12.79
111	2007	203	2330	69.91	58.16	3.783	97.9	17.5	12.79
111	2007	203	2345	69.88	58.36	3.904	81	18.17	12.78
111	2007	203	2400	69.89	59.16	5.413	84	20.74	12.78
111	2007	204	15	69.72	62.31	4.164	91.6	25.73	12.78
111	2007	204	30	69.39	63.21	3.267	84	26.18	12.77
111	2007	204	45	69.35	64.08	3.851	101.6	20.17	12.77
111	2007	204	100	69.15	61.5	5.415	94.3	22.69	12.76
111	2007	204	115	69.23	58.86	4.7	89.8	18.66	12.76
111	2007	204	130	69.35	57.53	5.272	88.5	19.55	12.75
111	2007	204	145	69.26	58.16	5.042	88	18.09	12.74
111	2007	204	200	68.99	59.33	5.929	90.8	20.76	12.73
111	2007	204	215	68.74	59.73	6.182	93.6	23.17	12.73
111	2007	204	230	68.43	59.97	5.227	99	24.59	12.73
111	2007	204	245	68.33	60.9	6.672	96.5	21.98	12.72
111	2007	204	300	68.1	61.94	5.898	94.2	20.1	12.71
111	2007	204	315	67.86	63.14	5.8	88.9	24.01	12.71
111	2007	204	330	67.67	64.28	5.695	85.4	22.99	12.71
111	2007	204	345	67.47	65.72	5.566	87.8	20.43	12.77
111	2007	204	400	67.22	67.59	5.6	81.2	23.12	12.86
111	2007	204	415	66.96	69.13	7.32	86.9	25.82	12.9
111	2007	204	430	66.59	70.9	6.374	89.5	19.56	12.93
111	2007	204	445	66.14	72.4	6.444	86.1	23.34	12.94
111	2007	204	500	65.75	73.3	7.82	98.2	24.36	12.98
111	2007	204	515	65.41	74.7	7.77	91.6	22.02	13.03
111	2007	204	530	65.2	76.1	7.13	86.6	24.66	13.14
111	2007	204	545	64.88	78.7	5.939	91.9	21.99	13.29
111	2007	204	600	64.16	82.6	5.846	82.4	21.49	13.29
111	2007	204	615	63.7	84.6	5.097	78.3	25.55	13.28
111	2007	204	630	63.21	87	4.512	71.8	25.22	13.28
111	2007	204	645	63.1	87.8	5.999	83.3	18.28	13.28
111	2007	204	700	63.2	88.2	7.64	78.4	18.54	13.28
111	2007	204	715	63.28	88.3	8.25	85.9	20.29	13.29
111	2007	204	730	63.38	88.1	9.42	82.5	22.36	13.28
111	2007	204	745	63.41	87.9	9.99	88.3	19.92	13.28
111	2007	204	800	63.24	89.1	9.48	93.3	21.96	13.28
111	2007	204	815	62.84	90.4	9.32	90.7	22.64	13.28
111	2007	204	830	62.7	91.1	9.69	94.7	22.02	13.28
111	2007	204	845	62.69	91.6	9.55	87.2	23.43	13.29
111	2007	204	900	62.66	92.1	8.71	93	20.19	13.28
111	2007	204	915	62.76	91.8	9.57	87.5	23.85	13.28
111	2007	204	930	63.01	91.9	10.08	93.6	23.75	13.29
111	2007	204	945	63.27	92	10.35	98.6	19.81	13.29
111	2007	204	1000	63.61	92.2	9.65	101	23.43	13.29
111	2007	204	1015	63.84	92.2	10.29	94.5	16.73	13.28
111	2007	204	1030	64.32	91.7	9.24	99	18.65	13.29
111	2007	204	1045	64.54	92	7	89.9	20.5	13.29
111	2007	204	1100	64.73	92	7.96	94.8	22.83	13.29
111	2007	204	1115	64.83	92.6	7.13	86.8	23.92	13.29
111	2007	204	1130	65.01	92.6	9.01	88.3	18.27	13.29
111	2007	204	1145	65.38	92.7	8.96	91	21.83	13.29
111	2007	204	1200	65.73	92.7	6.277	104.3	21	13.3
111	2007	204	1215	66.17	93.2	6.023	98.8	21.54	13.3
111	2007	204	1230	67.23	92.8	6.744	115	22.73	13.31

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	204	1245	67.84	92.9	6.372	111.9	24.34	13.32
111	2007	204	1300	68.38	92.7	7.91	117.7	17.86	13.3
111	2007	204	1315	69.12	92.6	8.3	114.1	19.09	13.31
111	2007	204	1330	70	92.3	8.52	118	19.32	13.31
111	2007	204	1345	71	91.4	9.28	117.8	23.92	13.32
111	2007	204	1400	71.9	90.3	11.02	127.8	18.57	13.33
111	2007	204	1415	72.6	89.9	10.63	123.5	19.1	13.33
111	2007	204	1430	73.1	89.1	12.02	132	15.57	13.32
111	2007	204	1445	73.4	88.8	11.51	134.2	19.25	13.34
111	2007	204	1500	73.5	88.8	12.62	135.1	19.84	13.35
111	2007	204	1515	74.7	86.1	12.16	140.2	20.23	13.27
111	2007	204	1530	74.2	88.4	13.15	137.9	18.94	13.13
111	2007	204	1545	73.3	90.5	13.6	143.7	18.95	13.05
111	2007	204	1600	72.7	91.2	11.9	142.3	19.92	12.99
111	2007	204	1615	72.3	91.9	11.86	146.7	19.67	12.96
111	2007	204	1630	72.2	91.5	12.75	149.9	16.09	12.94
111	2007	204	1645	72	92.1	10.94	157	19.14	12.92
111	2007	204	1700	72.3	90.2	9.68	162.1	22.2	12.91
111	2007	204	1715	72.2	89.3	8.14	186.9	19.15	12.9
111	2007	204	1730	70.5	88.3	6.783	209.8	22.49	12.89
111	2007	204	1745	68.74	89.2	6.99	225.2	20.01	12.88
111	2007	204	1800	67.16	90	7.02	237.1	22.62	12.87
111	2007	204	1815	66.21	91	6.438	237.5	22.82	12.87
111	2007	204	1830	65.76	91.8	6.694	244.6	27.99	12.87
111	2007	204	1845	65.17	92.1	7.1	252.8	23.68	12.86
111	2007	204	1900	64.76	92.5	6.303	247.3	22.25	12.85
111	2007	204	1915	64.69	92	5.844	252.9	26.77	12.85
111	2007	204	1930	64.73	90.5	7.28	245.6	21.33	12.85
111	2007	204	1945	64.82	90	6.654	257.1	27.35	12.84
111	2007	204	2000	64.69	89.6	6.068	251.6	29.04	12.84
111	2007	204	2015	64.6	89	6.027	253.1	26.13	12.83
111	2007	204	2030	64.71	88.5	6.334	249.3	23.45	12.83
111	2007	204	2045	64.73	87.6	6.986	251.5	28.04	12.83
111	2007	204	2100	64.67	87.1	6.531	246.6	24.75	12.82
111	2007	204	2115	64.77	85.9	7.31	261.1	24.74	12.82
111	2007	204	2130	64.62	85.9	7.28	265.4	28.46	12.81
111	2007	204	2145	64.52	85.6	7.84	262.8	25.44	12.81
111	2007	204	2200	64.45	84.8	7.54	273.2	26.54	12.81
111	2007	204	2215	64.41	84.6	7.26	275.2	25.49	12.8
111	2007	204	2230	64.13	84.9	7.24	273.2	24.17	12.79
111	2007	204	2245	63.88	84.7	6.863	266	27.63	12.79
111	2007	204	2300	63.95	84	6.797	268.3	28.58	12.79
111	2007	204	2315	64.09	82.2	7.22	276.2	25.56	12.78
111	2007	204	2330	64.37	81.7	5.334	277.2	29.98	12.77
111	2007	204	2345	64.54	80.8	6.344	283.9	18.7	12.77
111	2007	204	2400	64.57	79.5	6.531	277.7	26.06	12.76
111	2007	205	15	64.07	80.1	6.499	281.5	23.91	12.75
111	2007	205	30	63.67	81.6	5.582	280.8	21.36	12.75
111	2007	205	45	63.56	81.1	6.94	281.9	16.27	12.75
111	2007	205	100	63.5	81.7	5.044	276.7	20.81	12.74
111	2007	205	115	63.01	82.3	4.303	278.2	22.21	12.74
111	2007	205	130	62.76	83.1	4.79	285.3	17.55	12.73
111	2007	205	145	62.51	83.1	5.447	283.6	19.77	12.73
111	2007	205	200	62.42	82.7	5.749	287	16.67	12.73
111	2007	205	215	62.3	83	5.842	289.2	18.21	12.73
111	2007	205	230	62.05	84	5.01	289.6	16.01	12.72
111	2007	205	245	61.82	83.7	5.121	292.6	20.14	12.72
111	2007	205	300	61.81	83.5	4.607	291.6	20.75	12.72
111	2007	205	315	61.67	83.9	4.393	293.7	21.14	12.71
111	2007	205	330	61.6	83.2	5.673	297.1	19.78	12.71

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	205	345	61.65	83	5.761	294.7	18.69	12.71
111	2007	205	400	61.49	84.2	4.444	297.2	16.66	12.72
111	2007	205	415	61.14	85.3	3.7	287.1	20.68	12.73
111	2007	205	430	60.77	86.1	3.148	284.6	21.29	12.82
111	2007	205	445	60.38	86.6	1.755	281.7	22.76	13.12
111	2007	205	500	60.03	87.5	1.615	252.6	26.73	13.34
111	2007	205	515	59.85	87.6	1.351	265.1	22.32	13.33
111	2007	205	530	59.42	88.5	1.35	266.5	20.54	13.33
111	2007	205	545	59.14	89.2	1.751	265.3	18.13	13.32
111	2007	205	600	59.26	89.2	2.284	299.8	23.89	13.32
111	2007	205	615	59.73	88.7	3.058	307.6	21.99	13.3
111	2007	205	630	60.44	86.8	3.416	318.2	22.52	13.29
111	2007	205	645	61.1	84.5	3.751	312.1	20.34	13.28
111	2007	205	700	61.94	82.4	3.469	316	22.23	13.25
111	2007	205	715	62.56	80.6	4.067	318	28.34	13.27
111	2007	205	730	63.21	79.2	3.598	326.3	24.2	13.27
111	2007	205	745	63.51	78.4	4.607	322.2	25.03	13.27
111	2007	205	800	63.74	76.9	4.841	325.6	20.8	13.28
111	2007	205	815	64.03	77.1	5.33	341.2	27.15	13.28
111	2007	205	830	65.28	74.2	3.749	321	30.98	13.28
111	2007	205	845	66.25	73.5	3.944	320.4	36.87	13.28
111	2007	205	900	67.17	68.94	4.51	311.1	32.94	13.28
111	2007	205	915	68.34	66.76	4.911	301.3	26.7	13.28
111	2007	205	930	69.22	63.95	6.273	297.6	28.52	13.28
111	2007	205	945	70.1	62.74	4.806	318	33.1	13.28
111	2007	205	1000	71.6	59.99	4.917	289.4	28.43	13.28
111	2007	205	1015	72.2	57.74	4.728	297.6	32.73	13.29
111	2007	205	1030	73.1	61.32	4.172	261.5	38.4	13.28
111	2007	205	1045	72.2	66	5.36	247.9	35.16	13.29
111	2007	205	1100	71.7	66.83	5.64	237.2	25.69	13.29
111	2007	205	1115	72.3	67.7	5.749	256.2	24.91	13.28
111	2007	205	1130	73.4	64.43	5.225	245.2	30.03	13.28
111	2007	205	1145	73.4	65.6	5.663	247.7	26.3	13.28
111	2007	205	1200	73.2	64.99	5.963	251.1	24.71	13.29
111	2007	205	1215	73.3	66.37	6.66	237.3	23.61	13.29
111	2007	205	1230	74.6	58.91	6.299	272.2	20.87	13.29
111	2007	205	1245	74.5	60.85	5.558	247.6	24.21	13.28
111	2007	205	1300	74.4	61.42	5.91	243.1	23.69	13.29
111	2007	205	1315	74.5	65.8	6.062	251.4	27.74	13.3
111	2007	205	1330	75	56.77	6.015	262.4	27.7	13.3
111	2007	205	1345	76	59.28	6.033	241.4	29.72	13.3
111	2007	205	1400	75.8	58.68	6.559	248.4	25.81	13.31
111	2007	205	1415	75.3	53.79	6.998	249.6	23.3	13.31
111	2007	205	1430	76.2	53.86	7.17	274.2	22.91	13.31
111	2007	205	1445	75.5	53.56	6.162	253.2	29.13	13.31
111	2007	205	1500	75.6	53.43	6.511	260	31.13	13.32
111	2007	205	1515	76.3	53.66	6.726	253	29.6	13.32
111	2007	205	1530	75.4	57.84	7.27	254.4	27.42	13.33
111	2007	205	1545	74.3	63.86	7.55	248.2	28.66	13.27
111	2007	205	1600	73.8	62.65	7.79	261.3	23.08	13.14
111	2007	205	1615	74	63.72	7.01	249.5	29.44	13.07
111	2007	205	1630	73.3	65.26	7.67	258.3	21.46	13.01
111	2007	205	1645	73.5	67.8	7.15	256.9	28.73	12.97
111	2007	205	1700	73.4	67.8	5.685	261.8	27.52	12.95
111	2007	205	1715	72.9	71	6.626	243.1	25.78	12.93
111	2007	205	1730	72.9	69.94	6.563	270	21.48	12.91
111	2007	205	1745	73.1	71	7.33	279	21.56	12.9
111	2007	205	1800	72.6	73.7	7.03	262.2	25.08	12.89
111	2007	205	1815	72.4	74.4	6.182	254.2	24.94	12.89
111	2007	205	1830	72.2	73.3	6.674	259.3	29.37	12.88

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	205	1845	72.4	74.1	4.772	266.6	28.79	12.87
111	2007	205	1900	71.9	76	5.649	260.8	25.45	12.87
111	2007	205	1915	71.2	79.7	4.7	248.4	25.48	12.87
111	2007	205	1930	70.4	81.3	3.448	265.3	33.52	12.86
111	2007	205	1945	69.94	82.5	4.091	258.9	24.24	12.86
111	2007	205	2000	69.7	83.4	3.761	256.5	25.68	12.85
111	2007	205	2015	69.52	84.6	4.17	250.8	25.35	12.85
111	2007	205	2030	69.31	85.7	3.09	259.9	24.14	12.85
111	2007	205	2045	69.14	86.4	3.757	259	21.18	12.85
111	2007	205	2100	68.96	87.1	3.326	241.9	22.73	12.85
111	2007	205	2115	68.76	87.6	2.828	246.1	22.42	12.84
111	2007	205	2130	68.53	88.2	2.594	249.6	23.73	12.84
111	2007	205	2145	68.49	88.6	2.637	235.1	18.19	12.83
111	2007	205	2200	68.55	88.5	2.955	234.6	18.67	12.83
111	2007	205	2215	68.36	88.7	2.681	248.1	23.62	12.83
111	2007	205	2230	68.14	89.2	2.05	230.8	27.22	12.82
111	2007	205	2245	68.07	89.2	2.294	240.2	21.51	12.81
111	2007	205	2300	68.06	89.3	2.675	252.9	23.93	12.81
111	2007	205	2315	67.89	89.3	2.29	260.5	20.68	12.81
111	2007	205	2330	67.8	89.5	2.32	255.7	20.31	12.81
111	2007	205	2345	67.94	89.1	2.3	236.2	21.01	12.8
111	2007	205	2400	67.97	89	1.819	243.9	21.21	12.79
111	2007	206	15	67.83	89.2	1.841	248.8	24.4	12.79
111	2007	206	30	67.65	89.5	1.774	257.4	21.83	12.78
111	2007	206	45	67.31	89.9	1.746	275.3	15.83	12.77
111	2007	206	100	66.98	90.3	1.549	292.2	19.32	12.77
111	2007	206	115	66.73	90.9	0.876	239.6	12.2	12.76
111	2007	206	130	66.26	91.3	0.929	285.9	29.57	12.76
111	2007	206	145	65.95	91.6	0.259	357.8	9.11	12.75
111	2007	206	200	65.86	91.7	0.766	40.71	8.24	12.75
111	2007	206	215	65.39	91.9	0.464	268.7	22.55	12.75
111	2007	206	230	64.9	92.1	0.318	286.1	18.53	12.74
111	2007	206	245	64.85	92.3	1.004	21.49	5.031	12.74
111	2007	206	300	64.51	92.5	0.287	329.1	5.549	12.73
111	2007	206	315	64.24	92.5	0.087	345.8	1.309	12.73
111	2007	206	330	63.85	93	na	na	na	12.73
111	2007	206	345	63.76	92.7	na	na	na	12.74
111	2007	206	400	63.44	92.9	na	na	na	12.75
111	2007	206	415	63.14	92.9	0.563	292.6	2.358	12.77
111	2007	206	430	62.73	93.2	0.164	305.9	1.619	12.97
111	2007	206	445	62.75	93.4	0.444	41.83	20.7	13.09
111	2007	206	500	62.68	93.4	0.797	14.46	9.86	13.13
111	2007	206	515	62.5	93.4	1.079	59.27	8.5	13.33
111	2007	206	530	62.35	93.4	0.887	356.4	26.75	13.35
111	2007	206	545	62.25	93.5	0.101	6.914	9.1	13.34
111	2007	206	600	62.3	93.7	na	na	na	13.33
111	2007	206	615	62.54	93.9	na	na	na	13.33
111	2007	206	630	62.91	93.7	na	na	na	13.32
111	2007	206	645	62.92	93.8	0.208	16.04	0.695	13.32
111	2007	206	700	63.33	93.8	0.8	98.4	17.27	13.32
111	2007	206	715	64.25	93.8	1.273	82.6	33.32	13.32
111	2007	206	730	65.2	93.2	1.859	88.3	17.42	13.31
111	2007	206	745	66.1	93	1.422	71.3	21.69	13.31
111	2007	206	800	67.23	92.4	0.848	42.61	24.92	13.31
111	2007	206	815	69.16	90.2	0.65	90.4	35.86	13.3
111	2007	206	830	71.1	86.5	2.037	151	23.73	13.29
111	2007	206	845	71.5	83.6	3.418	173.6	21.13	13.29
111	2007	206	900	72	81.9	2.751	200.1	30.75	13.3
111	2007	206	915	72.3	79.9	3.884	177.1	24.62	13.29
111	2007	206	930	73.1	76.1	3.356	216.7	39.83	13.28

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	206	945	73.8	73.8	3.706	208	51.77	13.28
111	2007	206	1000	73.9	63.86	3.561	216.6	35.85	13.28
111	2007	206	1015	74.7	62.45	4.48	189	29.27	13.28
111	2007	206	1030	74.6	64.86	5.044	198	21.33	13.27
111	2007	206	1045	74.5	64.02	5.83	216.8	20.27	13.28
111	2007	206	1100	74.6	68.57	5.751	209.1	20.51	13.28
111	2007	206	1115	74.4	70.2	5.918	186.2	21.7	13.28
111	2007	206	1130	74.7	67.54	5.548	205.7	30.58	13.28
111	2007	206	1145	75.3	66.2	6.18	185.4	25.03	13.27
111	2007	206	1200	75.1	68.91	6.769	177.4	21.72	13.27
111	2007	206	1215	75.1	70.4	6.346	187.6	23.48	13.27
111	2007	206	1230	75.3	68.94	5.969	179	22.43	13.28
111	2007	206	1245	75.7	67.74	5.779	189.7	19.97	13.28
111	2007	206	1300	75.5	69.58	5.733	192.6	23.68	13.28
111	2007	206	1315	75.6	69.64	6.011	207.1	17.44	13.28
111	2007	206	1330	76.3	69.91	5.358	211.4	24.8	13.29
111	2007	206	1345	76.2	69.61	4.54	196.7	31.3	13.29
111	2007	206	1400	76.2	70.6	5.407	198.6	24.71	13.29
111	2007	206	1415	76	70.7	6.269	193.4	18.09	13.3
111	2007	206	1430	76.1	70.3	6.086	209.8	25.77	13.29
111	2007	206	1445	75.6	72	6.61	206.8	21.27	13.29
111	2007	206	1500	75.9	70.9	5.29	199.1	24.45	13.3
111	2007	206	1515	76.1	66.09	5.6	194.6	21.29	13.3
111	2007	206	1530	75.9	67.86	5.209	199.2	27.32	13.3
111	2007	206	1545	75.8	71.1	5.713	217.6	23.65	13.31
111	2007	206	1600	75.9	70.3	5.338	215.3	22.82	13.32
111	2007	206	1615	75.7	71.2	5.651	219.4	18.52	13.32
111	2007	206	1630	75.3	71.2	6.057	211.2	23.87	13.13
111	2007	206	1645	75	73.4	6.362	191.9	21.83	13.04
111	2007	206	1700	75.3	71.7	5.781	196.6	24.68	12.99
111	2007	206	1715	75.3	70.8	5.947	209.1	20.99	12.96
111	2007	206	1730	75	74.3	6.412	214.2	20.44	12.93
111	2007	206	1745	75	76.6	5.91	207.8	24.74	12.92
111	2007	206	1800	74.7	75.2	5.594	200.1	24.69	12.91
111	2007	206	1815	74.5	73.6	6.078	183.1	21.54	12.9
111	2007	206	1830	74.5	73.1	6.094	186.7	20.21	12.89
111	2007	206	1845	74.3	72.9	5.979	196	17.19	12.88
111	2007	206	1900	74.1	74.4	5.157	190	22.55	12.87
111	2007	206	1915	74.1	76.5	5.094	184.3	22.28	12.87
111	2007	206	1930	73.3	78.8	5.709	177	18.47	12.87
111	2007	206	1945	73.1	76.8	4.035	177.7	25.58	12.87
111	2007	206	2000	72.7	71.4	4.279	204.4	17.21	12.86
111	2007	206	2015	72.5	71.9	4.297	181.1	20.09	12.86
111	2007	206	2030	72.3	72	3.575	188.2	26.48	12.86
111	2007	206	2045	72	72	3.185	186.5	23.84	12.85
111	2007	206	2100	72.1	71.1	3.982	178.7	17.11	12.85
111	2007	206	2115	72	70.4	4.557	180.3	15.25	12.85
111	2007	206	2130	72	69.73	3.14	192.9	25.11	12.84
111	2007	206	2145	71.7	71.1	2.099	198.7	23.04	12.84
111	2007	206	2200	71.6	71.5	2.903	190.9	22.97	12.84
111	2007	206	2215	71.5	73.5	2.663	186.3	20.85	12.83
111	2007	206	2230	71.3	75.9	2.189	205.9	27.22	12.83
111	2007	206	2245	70.9	77	2.673	211.4	20.94	12.83
111	2007	206	2300	70.7	77.7	1.502	219.4	24.55	12.83
111	2007	206	2315	70.5	79.3	1.326	223.7	24.99	12.81
111	2007	206	2330	69.78	81.5	1.167	304	43	12.81
111	2007	206	2345	68.71	84	1.338	255.7	22.08	12.81
111	2007	206	2400	68.36	84.9	0.551	323.5	20.9	12.8
111	2007	207	15	68.04	85.9	0.785	326.7	5.887	12.79
111	2007	207	30	67.64	86.7	0.556	320.1	5.776	12.79

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	207	45	67.23	87.7	0.453	293	4.99	12.78
111	2007	207	100	67.06	88.3	0.121	341.5	12.69	12.78
111	2007	207	115	67.43	88	0.894	22.74	8.85	12.77
111	2007	207	130	67.72	87.9	0.287	11.57	4.956	12.77
111	2007	207	145	67.64	87.8	0.609	346.8	15.15	12.76
111	2007	207	200	67.35	88.1	1.58	11.37	17.15	12.75
111	2007	207	215	67.02	88.7	0.031	74.6	0.582	12.75
111	2007	207	230	67.07	88.5	0.48	63.15	6.871	12.75
111	2007	207	245	67.3	88	1.401	55.47	21.95	12.74
111	2007	207	300	67.6	87.4	1.237	65.15	14.17	12.74
111	2007	207	315	67.83	87.1	0.867	68.65	11.84	12.73
111	2007	207	330	68.09	86.7	0.927	98.8	14.11	12.73
111	2007	207	345	68.35	86.1	0.74	50.11	19.24	12.73
111	2007	207	400	68.48	85.8	0.548	20.61	11.19	12.73
111	2007	207	415	68.09	86.5	0.371	37.01	18.08	12.74
111	2007	207	430	67.44	87.5	0.549	345	19.38	12.79
111	2007	207	445	66.84	88.6	0.513	325.2	24.35	13.01
111	2007	207	500	66.57	89.2	0.148	339.6	10.61	13.33
111	2007	207	515	66.43	89.6	0	0	0	13.33
111	2007	207	530	66.34	90.3	0.858	280.2	8.33	13.32
111	2007	207	545	66.29	90.8	0.226	260.4	8.59	13.32
111	2007	207	600	66.81	90.7	0.809	52.7	12.63	13.31
111	2007	207	615	67.59	89.9	0.917	29.64	11.9	13.31
111	2007	207	630	68.39	88.9	0.972	30.48	20.32	13.3
111	2007	207	645	69.22	87.2	1.408	345.5	37.46	13.3
111	2007	207	700	70.2	85.8	1.104	9.29	31.93	13.3
111	2007	207	715	72.3	80.4	0.546	334.3	26.77	13.3
111	2007	207	730	73.5	81.6	1.15	309.8	54.38	13.29
111	2007	207	745	73.9	79.8	1.566	247.2	43.07	13.28
111	2007	207	800	74.9	76.9	1.021	328.2	55.04	13.28
111	2007	207	815	76.5	73.4	1.483	232	71.6	13.27
111	2007	207	830	76.6	71.7	2.065	294	46.38	13.26
111	2007	207	845	76.2	73.4	2.28	0.102	40.14	13.26
111	2007	207	900	76.8	73.1	2.226	225.2	54.41	13.26
111	2007	207	915	76.7	75.3	3.729	189	20.4	13.26
111	2007	207	930	77.1	73.8	3.511	197.1	39.72	13.26
111	2007	207	945	77	74.4	4.41	177.3	20.99	13.27
111	2007	207	1000	77	74	4.603	192.6	21.81	13.27
111	2007	207	1015	76.4	75.2	4.955	203.5	26.74	13.28
111	2007	207	1030	77.3	72.7	5.258	177.2	21.62	13.28
111	2007	207	1045	77.9	73.2	4.941	204	30.53	13.13
111	2007	207	1100	77.6	74.1	5.413	217.5	25.73	13.04
111	2007	207	1115	77.1	74.6	5.721	213.6	30.74	12.99
111	2007	207	1130	77	77.7	6.12	227.3	22.86	12.93
111	2007	207	1145	76.7	76.8	6.285	229.4	21.58	12.89
111	2007	207	1200	77	76.3	5.248	222.1	37.01	12.83
111	2007	207	1215	77	78.4	5.759	226.9	22.69	12.81
111	2007	207	1230	77	77.7	6.211	223.5	26.27	12.82
111	2007	207	1245	76.9	78.4	6.142	217.9	23.64	12.66
111	2007	207	1300	76.8	76.6	6.331	202.8	27.72	12.54
111	2007	207	1315	76.9	74.9	6.368	224.5	24.4	12.37
111	2007	207	1330	77.3	74.7	5.906	217.3	33.88	12.41
111	2007	207	1345	77.1	74.8	6.533	216.5	21.25	12.39
111	2007	207	1400	77.9	75	6.055	238.6	30.79	12.37
111	2007	207	1415	76.7	74.8	6.736	205.5	30.49	12.39
111	2007	207	1430	76.4	77.3	5.902	228.9	26.42	12.43
111	2007	207	1445	77.2	75.2	6.408	239.3	24.92	12.43
111	2007	207	1500	76.6	78.3	5.435	208.3	27.62	12.43
111	2007	207	1515	76.2	78.1	6.44	201.9	25.67	12.43
111	2007	207	1530	76.2	80.3	6.593	188	21.85	12.47

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	207	1545	75.2	81.1	6.205	183.3	27.77	12.42
111	2007	207	1600	75.7	77.9	5.788	209.9	27.28	12.43
111	2007	207	1615	75.9	78.5	6.535	224	29.42	12.43
111	2007	207	1630	75.9	79.6	5.731	226.6	21.07	12.4
111	2007	207	1645	75.3	80.8	6.118	211.3	25.94	12.41
111	2007	207	1700	75	80.6	6.648	194.6	17.65	12.4
111	2007	207	1715	75.1	80.6	5.103	202.5	27.75	12.43
111	2007	207	1730	75.7	79.5	5.397	219	31.02	12.39
111	2007	207	1745	74.8	82	5.818	210.2	20.56	12.35
111	2007	207	1800	74.7	79.9	5.256	237	23.48	12.37
111	2007	207	1815	74.2	81.8	5.56	224.6	24.44	12.38
111	2007	207	1830	74	80.7	4.998	219.2	22.81	12.33
111	2007	207	1845	73.9	82	4.486	232.7	24.22	12.33
111	2007	207	1900	73.4	82.6	4.99	232.8	22.74	12.35
111	2007	207	1915	73.4	82.2	4.049	248	26.71	12.35
111	2007	207	1930	73.3	82.5	3.664	249.5	27.32	12.36
111	2007	207	1945	73.2	83.2	3.543	264	25.49	12.35
111	2007	207	2000	73	84.3	3.781	250.3	23.66	12.3
111	2007	207	2015	72.8	85.6	4.984	247.8	23.54	12.27
111	2007	207	2030	72.6	86.9	4.313	254.9	22.15	12.33
111	2007	207	2045	72.4	87.3	3.916	251	27.75	12.28
111	2007	207	2100	72.3	87.5	3.692	245.1	25.54	12.23
111	2007	207	2115	72.2	87.8	3.594	246.1	20.75	12.29
111	2007	207	2130	72.2	88	3.926	239.8	24.07	12.21
111	2007	207	2145	72.1	88.3	2.753	258.6	24.42	12.21
111	2007	207	2200	72	88.3	2.832	254.2	21.6	12.21
111	2007	207	2215	72	88.4	3.346	251.6	25.09	12.26
111	2007	207	2230	72	88.6	3.622	260.1	25.48	12.23
111	2007	207	2245	71.8	88.6	3.912	255.3	22.52	12.13
111	2007	207	2300	71.8	88.5	2.905	252.7	20.98	12.21
111	2007	207	2315	71.8	88.6	2.935	243	29.42	12.25
111	2007	207	2330	71.8	89.1	3.847	251.5	23.6	12.11
111	2007	207	2345	71.9	89.6	3.217	261.9	22.06	12.19
111	2007	207	2400	72	89.9	3.648	270.2	24.79	12.23
111	2007	208	15	72	89.9	3.914	263.5	22.26	12.11
111	2007	208	30	72.1	90	3.398	274.5	20.3	12.03
111	2007	208	45	72.1	90.1	4.16	266.6	22.57	12.2
111	2007	208	100	72.2	89.9	3.946	273.7	22.65	12.2
111	2007	208	115	72.2	89.9	4.043	273.3	24.57	12.17
111	2007	208	130	72.2	89.9	3.261	272.3	20.95	12.07
111	2007	208	145	72.2	89.8	3.32	280	18.61	12.04
111	2007	208	200	72.4	89.8	3.211	263.6	23.68	12.07
111	2007	208	215	72.3	89.8	2.973	263.5	25.07	12.17
111	2007	208	230	72.2	89.8	3.154	262.3	22.66	12.3
111	2007	208	245	72.1	89.4	3.718	289.3	17.97	12.31
111	2007	208	300	72.1	89.1	2.659	281.5	23.43	12.3
111	2007	208	315	72.1	88.6	4.428	285.4	18.42	12.31
111	2007	208	330	72.2	88.2	3.281	283.7	26.28	12.29
111	2007	208	345	72.1	88.5	3.106	270.1	19.43	12.31
111	2007	208	400	72.1	88.4	3.253	271.7	29.97	12.31
111	2007	208	415	72.3	88.3	2.667	280.2	17.81	12.33
111	2007	208	430	72.3	88.6	1.609	261.6	25.8	12.35
111	2007	208	445	72.1	89.2	2.157	259.6	21.1	12.36
111	2007	208	500	71.8	89.5	1.724	260.4	17.8	12.37
111	2007	208	515	71.4	90.3	0.825	218.2	9.72	12.39
111	2007	208	530	71.1	90.6	1.345	291.2	33.39	12.4
111	2007	208	545	70.8	90.9	0.465	289.3	10.12	12.41
111	2007	208	600	70.5	91.4	1.402	271.1	17.91	12.43
111	2007	208	615	70.5	91.7	1.341	286.6	18.88	12.45
111	2007	208	630	70.7	91.9	1.707	256.5	21.27	12.47

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	208	645	71	91.8	1.297	288.7	21.85	12.49
111	2007	208	700	71.4	91.4	1.439	255.6	23.47	12.52
111	2007	208	715	71.5	91.2	1.396	257.2	28.16	12.56
111	2007	208	730	71.8	90.9	1.323	264.5	24.84	12.57
111	2007	208	745	73	87.5	2.689	283.6	25.75	12.56
111	2007	208	800	74.7	81.1	3.201	253.1	29.28	12.74
111	2007	208	815	75.7	78.7	3.737	256.7	34.7	12.72
111	2007	208	830	75.7	79.9	3.412	271.2	26.82	12.76
111	2007	208	845	75.3	80.4	4.007	240.2	27.9	12.82
111	2007	208	900	75.3	80.8	4.133	254.1	30.24	12.79
111	2007	208	915	76.2	77.5	5.36	283.7	25.17	12.81
111	2007	208	930	76.9	76.1	4.482	270.2	24.13	12.9
111	2007	208	945	77.4	72.8	4.76	264.2	32.21	12.92
111	2007	208	1000	78.9	72.5	3.487	246.4	44.15	12.92
111	2007	208	1015	78.6	72.1	3.962	247.4	33.24	13.06
111	2007	208	1030	78.5	74.2	4.931	241.7	28.16	13.1
111	2007	208	1045	77.6	76.7	6.267	233.5	27.1	13.1
111	2007	208	1100	77.4	74.8	5.459	235.2	27.42	13.12
111	2007	208	1115	77.6	71.9	5.87	235.4	32.62	13.13
111	2007	208	1130	77.6	71.8	4.986	237.2	25.38	13.12
111	2007	208	1145	77.1	74	6.025	221.1	23.59	13.12
111	2007	208	1200	77.6	72	5.175	235	30.24	13.15
111	2007	208	1215	78.1	71.8	5.377	234.5	28.15	13.17
111	2007	208	1230	77.4	71.4	5.393	238.9	27.75	13.17
111	2007	208	1245	78.3	74	5.179	240.2	33.52	13.17
111	2007	208	1300	77.5	77.1	7.29	202.2	22.14	13.17
111	2007	208	1315	77.7	76.2	7.02	196.5	26.17	13.18
111	2007	208	1330	77.3	76.8	6.775	218.8	29.16	13.18
111	2007	208	1345	77.4	76.4	6.251	211.7	26.99	13.16
111	2007	208	1400	77.6	76.2	5.735	210.2	28.33	13.13
111	2007	208	1415	77.5	74.3	7.11	209.7	23.83	13.2
111	2007	208	1430	77.7	75.5	6.311	225.4	29.48	13.14
111	2007	208	1445	77.7	75.3	7.14	220.4	26.41	13.21
111	2007	208	1500	77.3	77.8	7.73	199.6	25.73	13.21
111	2007	208	1515	77.4	78.6	7.48	212.1	24.66	13.2
111	2007	208	1530	77.4	76.5	6.456	229.9	25.5	13.08
111	2007	208	1545	77	78.7	7.1	212.3	26.22	13.08
111	2007	208	1600	77.3	79	6.67	207.7	30.71	12.93
111	2007	208	1615	76.9	79.1	7.45	191.5	23.63	12.88
111	2007	208	1630	76.9	77.8	7.34	186.4	19.91	12.86
111	2007	208	1645	76.7	77.3	7.87	196.6	21.24	12.84
111	2007	208	1700	76.8	75.5	7.29	189.1	19.81	12.83
111	2007	208	1715	77	76.4	7.36	199.7	24.07	12.81
111	2007	208	1730	76.8	76.6	7.15	206.2	24.78	12.81
111	2007	208	1745	77.4	75.8	6.491	218.1	23.19	12.8
111	2007	208	1800	76.9	78.7	6.571	211.9	26.93	12.79
111	2007	208	1815	76.7	80.8	6.078	207	25.29	12.78
111	2007	208	1830	76.4	82.6	5.51	207	27.56	12.77
111	2007	208	1845	75.8	84.1	5.558	202.3	22.4	12.77
111	2007	208	1900	75.3	85.5	6.096	195.7	22.23	12.77
111	2007	208	1915	75	86.2	5.606	204.6	18.49	12.76
111	2007	208	1930	74.8	86.6	5.477	201.6	24.14	12.76
111	2007	208	1945	74.6	87.3	5.667	205.2	19.25	12.75
111	2007	208	2000	74.2	87.6	5.129	206.9	18.76	12.74
111	2007	208	2015	74.2	87.5	4.428	206.4	23.42	12.74
111	2007	208	2030	74.1	87.6	4.863	201.4	22.01	12.73
111	2007	208	2045	74	87.6	2.909	236.6	28.4	12.73
111	2007	208	2100	73.9	87.9	3.777	231.2	22.64	12.73
111	2007	208	2115	73.7	88	3.16	225.7	25.12	12.73
111	2007	208	2130	73.7	87.8	3.207	215.1	23.12	12.72

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	208	2145	73.7	87.9	2.22	241.3	24.15	12.72
111	2007	208	2200	73.7	87.8	2.504	222.6	27.59	12.71
111	2007	208	2215	73.8	87.8	3.316	209.4	22.75	12.71
111	2007	208	2230	73.7	88.2	5.159	199	19.65	12.71
111	2007	208	2245	73.7	88.4	3.648	243.8	31.23	12.71
111	2007	208	2300	73.7	88.3	4.127	258	24.15	12.71
111	2007	208	2315	73.7	88	2.761	250.6	27.28	12.71
111	2007	208	2330	73.8	87.6	3.295	254.2	25.34	12.7
111	2007	208	2345	73.9	87.4	3.352	261.9	30.88	12.7
111	2007	208	2400	74	87.3	3.217	274.5	26.6	12.69
111	2007	209	15	74	87.5	2.802	258.8	26.72	12.69
111	2007	209	30	74	87.5	2.391	232	32.07	12.69
111	2007	209	45	73.9	86.9	2.564	223.2	28.04	12.69
111	2007	209	100	73.9	86.8	2.354	253.5	33.23	12.68
111	2007	209	115	73.8	87.6	2.715	237.2	25.47	12.68
111	2007	209	130	73.6	88.4	2.214	237.2	24.96	12.67
111	2007	209	145	73.5	88.9	2.187	245.7	33.99	12.67
111	2007	209	200	73.5	89.2	2.197	219.9	34.36	12.67
111	2007	209	215	73.4	89.4	2.367	248.2	20.16	12.66
111	2007	209	230	73.3	89.7	1.693	243.9	31.5	12.66
111	2007	209	245	73.1	90	1.308	218.2	19.58	12.66
111	2007	209	300	73.1	90.2	2.349	198.9	17.85	12.65
111	2007	209	315	73.3	90.2	2.981	205.2	20.38	12.65
111	2007	209	330	73.3	90.2	3.076	198	19.96	12.65
111	2007	209	345	73.3	90.3	3.757	184.5	22.79	12.65
111	2007	209	400	73.1	90.8	4.166	189.5	20.29	12.66
111	2007	209	415	73.1	90.9	4.73	189.3	22.47	12.67
111	2007	209	430	73.1	91	4.377	212	16.96	12.68
111	2007	209	445	73.1	91.1	4.075	212.9	25.29	12.69
111	2007	209	500	73	91.1	4.714	214.4	17.74	12.69
111	2007	209	515	73	90.9	5.183	223.4	19.96	12.7
111	2007	209	530	72.9	91.2	4.966	224	20.01	12.71
111	2007	209	545	72.8	91.3	4.297	245.8	25.73	12.72
111	2007	209	600	72.7	91.5	3.829	245	25.38	12.73
111	2007	209	615	72.7	91.3	4.345	239.8	26.87	12.74
111	2007	209	630	72.6	90.9	4.923	247.4	23.47	12.76
111	2007	209	645	72.9	90.3	3.759	232.6	25.71	12.76
111	2007	209	700	73.1	89.7	4.895	226.8	22.63	12.79
111	2007	209	715	73.2	89.4	4.917	235.4	22.71	12.84
111	2007	209	730	73.6	88.6	4.277	228.4	25.48	12.92
111	2007	209	745	74.1	87	5.929	233.7	27.16	13.02
111	2007	209	800	74.5	85.9	4.996	234.7	27.54	13.1
111	2007	209	815	74.3	87.8	6.418	244.2	21.84	13.18
111	2007	209	830	74.4	87.3	6.36	236.6	23.71	13.19
111	2007	209	845	74.5	87	5.28	246	28.39	13.19
111	2007	209	900	74.8	86	6.053	251.8	24.42	13.19
111	2007	209	915	75.2	85.5	4.534	245.8	33.34	13.18
111	2007	209	930	75.8	84.4	5.177	250.6	33.86	13.18
111	2007	209	945	75.7	84.2	6.192	257.3	24.17	13.18
111	2007	209	1000	76.1	83.8	5.628	249.2	33.17	13.18
111	2007	209	1015	76.2	83.2	5.773	251.6	34.85	13.18
111	2007	209	1030	76.3	81.8	5.816	243.9	25.71	13.18
111	2007	209	1045	76.3	82.4	6.491	244.4	28.28	13.18
111	2007	209	1100	76.2	81.3	5.715	244.5	28.81	13.18
111	2007	209	1115	76.4	81.1	6.922	245.3	22.83	13.18
111	2007	209	1130	77.8	79.4	6.4	236.4	27.44	13.18
111	2007	209	1145	77.4	80.6	6.509	238.7	26.09	13.18
111	2007	209	1200	77.4	79.6	5.983	234	32.45	13.18
111	2007	209	1215	77.2	80.6	6.581	242.7	22.24	13.18
111	2007	209	1230	77.6	80.1	6.628	232.9	26.14	13.18

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	209	1245	77.7	77.7	6.196	243.8	25.32	13.19
111	2007	209	1300	79	72.9	6.104	258	25.38	13.19
111	2007	209	1315	79.3	75.7	6.46	240.5	29	13.19
111	2007	209	1330	79	75	5.834	248.6	26.57	13.18
111	2007	209	1345	78.6	77.6	7.15	237.9	25.84	13.2
111	2007	209	1400	78.5	76.6	6.676	244.7	31.81	13.21
111	2007	209	1415	78.4	75.4	6.499	250.6	26.31	13.16
111	2007	209	1430	79.1	76.1	6.436	250.8	28.22	13.22
111	2007	209	1445	79.7	76.6	6.515	254.3	28.03	13.2
111	2007	209	1500	79.3	76	7.01	255	24.73	13.21
111	2007	209	1515	79.7	74.2	6.14	253.8	31.11	13.22
111	2007	209	1530	79	74.5	7.43	241.8	29.38	13.24
111	2007	209	1545	79.1	75.7	7.69	235	27.09	13.24
111	2007	209	1600	78.1	80.7	6.843	242.9	28.22	13.24
111	2007	209	1615	79.1	79.3	6.17	231.9	27.3	13.21
111	2007	209	1630	78.2	80.5	7.05	241.4	25.97	12.98
111	2007	209	1645	78.4	79.4	7.47	237.8	26.84	12.93
111	2007	209	1700	79	77.1	6.757	264	24.35	12.9
111	2007	209	1715	79	78.5	7.28	258.7	29.09	12.88
111	2007	209	1730	78.9	77.5	7.09	268.7	24.14	12.87
111	2007	209	1745	79.3	76.4	6.37	253.5	23.09	12.86
111	2007	209	1800	79.2	77.6	5.935	252.8	27.27	12.85
111	2007	209	1815	78.7	79.8	6.934	263.2	27.1	12.84
111	2007	209	1830	77.9	82.7	6.634	252.5	26.03	12.83
111	2007	209	1845	77.4	82.4	6.209	249.1	24.91	12.82
111	2007	209	1900	77.5	80.5	5.755	245.9	27.87	12.81
111	2007	209	1915	77.5	81.4	5.088	256.7	27.29	12.81
111	2007	209	1930	76.9	83	5.163	266.5	22.73	12.8
111	2007	209	1945	76.6	84.2	4.905	263.1	22.61	12.8
111	2007	209	2000	75.9	86.6	5.004	241.5	21.62	12.79
111	2007	209	2015	75.4	87.6	3.708	246	31.31	12.79
111	2007	209	2030	75	89	4.323	249.6	29.39	12.78
111	2007	209	2045	74.8	89.7	3.59	260	26.9	12.78
111	2007	209	2100	74.6	89.9	3.287	250.2	25.48	12.77
111	2007	209	2115	74.4	90.3	3.886	240.9	23.05	12.77
111	2007	209	2130	74.3	90.7	3.406	243.7	30.95	12.77
111	2007	209	2145	74.1	90.9	3.585	262	22.05	12.76
111	2007	209	2200	74	91.1	3.408	263.3	21.35	12.76
111	2007	209	2215	74	91.3	3.334	276.8	24.22	12.75
111	2007	209	2230	74.1	91.3	2.057	256	26.43	12.75
111	2007	209	2245	74.2	91.5	2.815	249.7	20.54	12.75
111	2007	209	2300	74.3	91.3	3.922	242.2	26.57	12.75
111	2007	209	2315	74.3	91.4	3.775	256.1	26.5	12.74
111	2007	209	2330	74.3	91.3	3.117	260.6	28.07	12.73
111	2007	209	2345	74.4	90.9	3.424	287.7	21.8	12.73
111	2007	209	2400	74.5	90.4	3.28	263.2	24.19	12.73
111	2007	210	15	74.5	90	2.54	277.1	22.44	12.73
111	2007	210	30	74.5	89.7	2.836	267.9	28.34	12.73
111	2007	210	45	74.6	89.3	2.527	281.5	18.95	12.72
111	2007	210	100	74.6	88.9	1.612	307.6	55.86	12.71
111	2007	210	115	74.4	88.5	1.944	270.4	27.77	12.71
111	2007	210	130	74.4	88.5	1.835	246.9	28.73	12.71
111	2007	210	145	74.4	87.8	1.259	236.3	28.87	12.71
111	2007	210	200	74.4	87.8	0.871	260	13.78	12.7
111	2007	210	215	74.5	88	2.143	282.7	20.66	12.7
111	2007	210	230	74.3	89	1.645	254.4	22.64	12.69
111	2007	210	245	74	89.9	1.954	248.5	22.04	12.69
111	2007	210	300	73.7	89.8	1.623	270.6	28.39	12.69
111	2007	210	315	73.6	89.7	0.641	256.5	17.59	12.69
111	2007	210	330	73.4	89.8	0	0	0	12.69

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	210	345	73.7	90	1.694	178.7	10.78	12.69
111	2007	210	400	74	90.1	1.716	196.4	32.12	12.69
111	2007	210	415	74.1	90.3	2.137	228.1	22.51	12.7
111	2007	210	430	74	90.5	1.974	198.2	16.25	12.71
111	2007	210	445	73.9	90.3	1.265	201.4	18.97	12.73
111	2007	210	500	73.7	90.7	0.99	302.6	20.74	12.75
111	2007	210	515	73.6	90.6	1.014	332.7	34.12	12.75
111	2007	210	530	73.4	91.1	0.817	27.21	29.52	12.76
111	2007	210	545	73.1	91.3	1.724	83.4	28.53	12.78
111	2007	210	600	73.1	91.3	0.646	38.23	6.74	12.78
111	2007	210	615	73	91.6	0.116	256.7	13.17	12.8
111	2007	210	630	73.3	91.6	1.077	232.5	27.27	12.81
111	2007	210	645	73.5	91.6	1.086	259.4	37.4	12.82
111	2007	210	700	74	90.8	2.361	195.2	21.59	12.85
111	2007	210	715	74.5	89.8	1.766	219.8	31.07	12.94
111	2007	210	730	74.6	89.4	2.905	212.3	31.07	13.06
111	2007	210	745	74.7	88.7	2.743	205.7	23.22	13.18
111	2007	210	800	75.3	86.3	2.842	185.2	42.52	13.2
111	2007	210	815	76.2	83.3	2.506	178	31.82	13.2
111	2007	210	830	76.5	84.1	3.233	185.3	29.64	13.2
111	2007	210	845	76.4	81.8	3.946	188.5	23.1	13.2
111	2007	210	900	76.8	79.3	1.618	147.3	65.93	13.2
111	2007	210	915	77.8	77.6	2.546	168.9	35.49	13.2
111	2007	210	930	77.7	80.6	4.064	188	25.54	13.19
111	2007	210	945	77.1	81.1	4.397	199.2	23.19	13.19
111	2007	210	1000	77	81.6	4.105	193.5	23.06	13.18
111	2007	210	1015	77.5	80.3	4.287	173.2	23.89	13.18
111	2007	210	1030	78	76.8	5.296	182.4	21.96	13.19
111	2007	210	1045	78.7	78.6	5.139	190.9	21.57	13.19
111	2007	210	1100	79.1	77	4.982	206.2	24.04	13.19
111	2007	210	1115	78.8	73.8	5.584	193.7	19.54	13.18
111	2007	210	1130	79.9	70.6	4.524	196.4	24.27	13.18
111	2007	210	1145	80.3	70.7	5.03	195.6	29.76	13.18
111	2007	210	1200	80.4	73.1	4.939	223.5	23.08	13.18
111	2007	210	1215	79.9	70.1	6.088	205.1	18.94	13.18
111	2007	210	1230	80.3	73.9	6.724	211.6	21.45	13.18
111	2007	210	1245	79.1	76	5.743	215.4	24.03	13.19
111	2007	210	1300	78.6	74	5.387	200.3	28.04	13.18
111	2007	210	1315	78.7	72.8	3.358	208.1	24.06	13.19
111	2007	210	1330	78.5	77.1	3.108	197.2	25.04	13.2
111	2007	210	1345	78.5	79	4.607	192.8	25.87	13.2
111	2007	210	1400	76.9	82.7	5.233	222.1	24.12	13.2
111	2007	210	1415	75.4	81	4.01	72.8	88.9	13.18
111	2007	210	1430	69.9	91.1	6.13	27.89	32.84	13.2
111	2007	210	1445	66.56	89.5	2.807	320	26.59	13.21
111	2007	210	1500	66.18	91.7	0.277	236	26.17	13.21
111	2007	210	1515	66.53	92	na	na	na	13.2
111	2007	210	1530	66.84	92.3	na	na	na	13.22
111	2007	210	1545	67.03	92.9	0.039	77.7	2.011	13.23
111	2007	210	1600	67.43	92.9	na	na	na	13.23
111	2007	210	1615	68.03	93.1	na	na	na	13.2
111	2007	210	1630	69.2	93.1	na	na	na	12.98
111	2007	210	1645	69.32	93.1	na	na	na	12.92
111	2007	210	1700	69.24	93.5	na	na	na	12.9
111	2007	210	1715	69.51	93.6	na	na	na	12.87
111	2007	210	1730	69.74	93.7	na	na	na	12.86
111	2007	210	1745	69.65	94	na	na	na	12.85
111	2007	210	1800	69.87	93.8	na	na	na	12.83
111	2007	210	1815	70.1	93.6	na	na	na	12.83
111	2007	210	1830	70	93.5	na	na	na	12.82

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	210	1845	70.2	93.4	na	na	na	12.81
111	2007	210	1900	70.3	93.5	na	na	na	12.81
111	2007	210	1915	70.4	93.5	na	na	na	12.8
111	2007	210	1930	70.6	93.5	na	na	na	12.79
111	2007	210	1945	70.6	93.4	na	na	na	12.79
111	2007	210	2000	70.5	93.1	na	na	na	12.79
111	2007	210	2015	70.5	93	na	na	na	12.78
111	2007	210	2030	70.5	93	na	na	na	12.78
111	2007	210	2045	70.5	93.3	na	na	na	12.77
111	2007	210	2100	70.5	93.3	na	na	na	12.77
111	2007	210	2115	70.4	93.5	na	na	na	12.77
111	2007	210	2130	70.4	93.4	na	na	na	12.76
111	2007	210	2145	70.5	93.4	na	na	na	12.75
111	2007	210	2200	70.4	93.7	na	na	na	12.75
111	2007	210	2215	70.4	93.7	na	na	na	12.75
111	2007	210	2230	70.4	93.7	na	na	na	12.74
111	2007	210	2245	70.5	93.7	na	na	na	12.73
111	2007	210	2300	70.5	93.7	na	na	na	12.73
111	2007	210	2315	70.6	93.7	na	na	na	12.73
111	2007	210	2330	70.6	93.8	na	na	na	12.73
111	2007	210	2345	70.6	93.8	na	na	na	12.72
111	2007	210	2400	70.6	93.8	na	na	na	12.71
111	2007	211	15	70.5	93.9	na	na	na	12.71
111	2007	211	30	70.6	93.9	na	na	na	12.71
111	2007	211	45	70.6	93.9	na	na	na	12.71
111	2007	211	100	70.6	93.9	na	na	na	12.71
111	2007	211	115	70.4	93.9	na	na	na	12.71
111	2007	211	130	70.3	93.9	na	na	na	12.7
111	2007	211	145	70	93.8	na	na	na	12.7
111	2007	211	200	69.73	93.8	na	na	na	12.69
111	2007	211	215	69.67	94	na	na	na	12.69
111	2007	211	230	69.66	94	na	na	na	12.69
111	2007	211	245	69.58	93.8	na	na	na	12.69
111	2007	211	300	69.3	93.9	na	na	na	12.69
111	2007	211	315	69.13	94	na	na	na	12.69
111	2007	211	330	69.01	94	na	na	na	12.69
111	2007	211	345	68.87	94.1	na	na	na	12.69
111	2007	211	400	68.86	94.2	na	na	na	12.69
111	2007	211	415	68.71	94.2	na	na	na	12.7
111	2007	211	430	68.46	94.1	na	na	na	12.71
111	2007	211	445	68.21	94.3	na	na	na	12.72
111	2007	211	500	68.17	94.4	na	na	na	12.74
111	2007	211	515	67.93	94.3	na	na	na	12.75
111	2007	211	530	67.56	94.4	0.455	281.8	5.262	12.76
111	2007	211	545	67.49	94.4	na	na	na	12.78
111	2007	211	600	67.44	94.5	0.009	320.9	0	12.78
111	2007	211	615	67.59	94.5	0.009	331.7	0.005	12.8
111	2007	211	630	67.89	94.6	na	na	na	12.82
111	2007	211	645	68.49	94.6	0.027	326.8	0.474	12.84
111	2007	211	700	69.31	94.5	0.155	85.4	12.98	12.88
111	2007	211	715	69.81	94.4	0.729	61.79	20.36	12.97
111	2007	211	730	70.2	93.8	0.841	61.49	22.49	13.1
111	2007	211	745	70.8	93.1	1.192	49.36	16.43	13.18
111	2007	211	800	71.1	92.9	1.205	64.72	20.37	13.18
111	2007	211	815	71.9	92.2	1.396	112.4	43.27	13.18
111	2007	211	830	73.6	90.1	1.255	156.1	38.36	13.18
111	2007	211	845	74.3	87.4	1.809	79	38.5	13.18
111	2007	211	900	74.3	85.1	2.358	64.32	41.42	13.18
111	2007	211	915	74.9	83.8	2.43	79.2	26.42	13.18
111	2007	211	930	76.1	80	2.167	91.6	91.6	13.19

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	211	945	75.8	77.2	3.14	9.47	47.81	13.19
111	2007	211	1000	76.9	75.6	3.626	352.8	54.47	13.19
111	2007	211	1015	77.7	74.1	2.49	297.6	88.6	13.19
111	2007	211	1030	78.1	69.52	2.721	48.7	75.8	13.19
111	2007	211	1045	78.5	76.6	2.858	280	60.61	13.2
111	2007	211	1100	76.6	79.2	3.837	191.2	20.29	13.2
111	2007	211	1115	77.8	75.5	4.818	206	29.17	13.2
111	2007	211	1130	78	75.4	2.613	262.8	35.31	13.2
111	2007	211	1145	79.4	70.4	3.217	254.3	42.12	13.2
111	2007	211	1200	79.6	73.1	3.736	215.4	41.6	13.2
111	2007	211	1215	78.8	73.9	4.583	251.3	44.85	13.2
111	2007	211	1230	79.1	69.08	3.424	269	34.14	13.2
111	2007	211	1245	79.8	69.72	5.117	222.7	30	13.2
111	2007	211	1300	79.3	71.7	5.832	218.1	25.98	13.2
111	2007	211	1315	79.2	71.4	5.495	226.1	28.4	13.2
111	2007	211	1330	79.2	70.5	5.699	236.7	25.35	13.2
111	2007	211	1345	80.1	69.28	5.185	244.4	31	13.2
111	2007	211	1400	80.2	68.88	5.755	236	25.62	13.2
111	2007	211	1415	80.2	64.87	5.816	258.5	24.48	13.21
111	2007	211	1430	80.2	64.71	6.088	267.2	24.63	13.21
111	2007	211	1445	79.7	62.83	5.586	252.9	27.85	13.22
111	2007	211	1500	80.1	65.24	5.602	265.4	22.04	13.22
111	2007	211	1515	79.3	65.11	5.933	257.6	22.41	13.23
111	2007	211	1530	79.1	64.71	5.393	262.1	24.37	13.24
111	2007	211	1545	79.3	66.34	5.683	265.5	19.37	13.24
111	2007	211	1600	79	67.48	5.242	235.7	29.09	13.24
111	2007	211	1615	78.6	67.98	6.612	249.5	28.3	13.18
111	2007	211	1630	78.5	67.88	5.31	254.9	21.5	12.98
111	2007	211	1645	78.5	68.88	5.048	251.2	28.66	12.92
111	2007	211	1700	78	70.1	5.217	244.4	20.43	12.89
111	2007	211	1715	77.7	70.1	4.982	262	24.81	12.87
111	2007	211	1730	78.2	68.92	4.508	248.4	26.83	12.86
111	2007	211	1745	79.1	67.95	4.863	267.3	23.06	12.85
111	2007	211	1800	79.2	67.28	4.184	263.8	26.3	12.84
111	2007	211	1815	79.4	66.61	4.218	245.5	30.81	12.83
111	2007	211	1830	78.7	67.95	4.641	260.9	22.81	12.82
111	2007	211	1845	77.8	72.6	3.839	246.8	25.84	12.81
111	2007	211	1900	76.9	74.7	3.876	247.5	29.01	12.81
111	2007	211	1915	76.3	75.9	3.277	239	20.54	12.81
111	2007	211	1930	75.6	77.6	3.537	239.8	21.76	12.8
111	2007	211	1945	75	79	3.172	251.7	21.2	12.79
111	2007	211	2000	74.6	80.1	2.424	248.7	21.72	12.79
111	2007	211	2015	74.3	81.1	2.588	238	26.76	12.79
111	2007	211	2030	74	82.2	2.346	247	21.6	12.78
111	2007	211	2045	73.7	82.7	2.161	246.8	21.98	12.78
111	2007	211	2100	73.6	83.8	1.78	239.9	18.76	12.77
111	2007	211	2115	73.6	84.5	1.241	247.3	23.06	12.77
111	2007	211	2130	73.4	85.2	1.006	273.8	14.77	12.77
111	2007	211	2145	73.1	85.9	1.382	256.5	17.63	12.77
111	2007	211	2200	72.9	86.7	0.749	290.7	41.56	12.76
111	2007	211	2215	72.6	87.4	0.578	214.8	7.17	12.75
111	2007	211	2230	72.6	87.6	0.894	292.8	30.95	12.75
111	2007	211	2245	72.4	88.1	1.094	268.2	30.28	12.75
111	2007	211	2300	72.1	88.7	0.824	308.7	24.73	12.75
111	2007	211	2315	72	89.3	0.15	64.61	13.33	12.74
111	2007	211	2330	71.9	89.4	1.048	326.8	48.39	12.73
111	2007	211	2345	71.7	89.9	1.02	308.1	14.79	12.73
111	2007	211	2400	71.4	90.6	1.144	291.8	30.2	12.73
111	2007	212	15	71.5	90.8	1.871	302.2	16.63	12.73
111	2007	212	30	71.6	91	1.429	294.6	15.6	12.72

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	212	45	71.7	91	1.655	316.4	25.03	12.71
111	2007	212	100	71.7	91.2	1.147	318.3	27.62	12.71
111	2007	212	115	71.8	91.2	1.411	296.9	37.44	12.71
111	2007	212	130	71.7	91.4	1.827	230.6	40.07	12.71
111	2007	212	145	71.5	91.5	0.588	302.9	31.55	12.7
111	2007	212	200	71.3	91.7	0.615	349.4	29.2	12.7
111	2007	212	215	71	92	1.377	357.5	24.71	12.69
111	2007	212	230	70.8	92.1	0.218	290.1	8.24	12.69
111	2007	212	245	70.6	92.4	0.719	14.64	4.849	12.69
111	2007	212	300	70.4	92.4	0.415	9.75	19.21	12.69
111	2007	212	315	70.2	92.8	1.02	354.8	28.25	12.69
111	2007	212	330	70.2	92.8	1.933	344.8	38.54	12.69
111	2007	212	345	70.1	93	0.977	355.5	38.13	12.69
111	2007	212	400	70.1	92.9	1.167	333.4	29.25	12.69
111	2007	212	415	69.75	92.7	0.763	326	30.91	12.7
111	2007	212	430	69.37	92.5	1.374	321.1	32.42	12.71
111	2007	212	445	69.15	91.8	1.97	357.9	31.07	12.73
111	2007	212	500	69.12	91.1	1.853	347.2	31.13	12.74
111	2007	212	515	69	90.5	1.1	347.4	32.95	12.76
111	2007	212	530	68.79	89.9	1.52	348.3	32.35	12.77
111	2007	212	545	68.72	88.7	1.478	16.78	31.63	12.8
111	2007	212	600	68.77	86.9	1.693	5.14	34.52	12.82
111	2007	212	615	69.11	81.3	2.703	27.03	27.22	12.85
111	2007	212	630	69.59	79.4	2.532	21.7	30.77	12.88
111	2007	212	645	69.92	78	2.608	30.45	25.69	12.91
111	2007	212	700	70.5	76.1	2.751	28.78	32.27	12.96
111	2007	212	715	71.3	72.5	2.685	50.52	25.12	13.07
111	2007	212	730	72	70.9	3.674	54.74	26.97	13.2
111	2007	212	745	72.6	70.3	4.553	55.92	27.45	13.22
111	2007	212	800	73.3	66.66	4.794	45.44	19.3	13.22
111	2007	212	815	74	66.42	4.764	55.35	22.93	13.17
111	2007	212	830	75	63.24	4.432	55.46	24.34	13.21
111	2007	212	845	75.3	64.97	5.282	59.14	21.65	13.21
111	2007	212	900	75.7	64	5.322	63.94	22.14	13.21
111	2007	212	915	76.5	63.54	4.633	62.35	23.5	13.21
111	2007	212	930	77	63.24	3.154	62	25.54	13.2
111	2007	212	945	77.2	62.17	0.905	69.79	24.31	13.2
111	2007	212	1000	77.5	61.36	1.239	72.1	31.68	13.2
111	2007	212	1015	77.8	61.5	0.815	61.48	26.96	13.2
111	2007	212	1030	77.8	61.2	0.673	56.2	21.87	13.2
111	2007	212	1045	78.3	59.09	0.724	56.56	29.55	13.2
111	2007	212	1100	79.1	60.23	0.119	55.17	9.98	13.2
111	2007	212	1115	79.5	58.52	0.128	56.71	11.92	13.2
111	2007	212	1130	80	55.31	0.063	71.6	14.25	13.2
111	2007	212	1145	80.4	58.56	0.353	85.3	15.92	13.2
111	2007	212	1200	81	56.02	1.158	67.31	29.54	13.2
111	2007	212	1215	81.1	55.75	3.874	75.5	48.55	13.2
111	2007	212	1230	82.2	54.91	5.016	45.23	32.89	13.2
111	2007	212	1245	82.4	54.85	4.659	53.68	42.52	13.2
111	2007	212	1300	83	53.34	5.215	63.36	35	13.21
111	2007	212	1315	83.1	53.81	4.843	50.46	45.65	13.21
111	2007	212	1330	82.7	52.57	5.352	41.54	38.09	13.2
111	2007	212	1345	83.1	52.21	5.157	33.56	32.37	13.21
111	2007	212	1400	83.6	50.8	6.583	47.01	32.99	13.21
111	2007	212	1415	83.8	49.73	6.074	71.4	32.66	13.22
111	2007	212	1430	84.5	46.96	5.804	62.83	21.68	13.22
111	2007	212	1445	84.7	54.85	5.991	60.15	28.56	13.22
111	2007	212	1500	84	56.65	4.202	217.8	59.31	13.23
111	2007	212	1515	82.9	60.32	5.31	194.2	26.58	13.23
111	2007	212	1530	83.1	60.05	5.197	201	24.63	13.24

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	212	1545	82.6	64.13	5.383	206.2	29.54	13.2
111	2007	212	1600	82.5	62.96	4.569	209.6	26.79	13.04
111	2007	212	1615	82.1	64.9	5.387	193.6	30.63	12.93
111	2007	212	1630	81.4	67.85	5.199	213.6	24.24	12.89
111	2007	212	1645	81.5	69.79	5.058	200.8	25.28	12.87
111	2007	212	1700	80.7	72.7	7.42	193	20.46	12.85
111	2007	212	1715	80.1	71.1	6.201	210	22.4	12.83
111	2007	212	1730	79.9	69.25	4.794	207.1	24.15	12.83
111	2007	212	1745	79.7	74	5.139	200.7	24.77	12.82
111	2007	212	1800	79.1	74.3	4.76	209	24.28	12.81
111	2007	212	1815	79.1	72.8	4.367	231.2	24.79	12.81
111	2007	212	1830	79.9	70.5	3.594	248.9	35.65	12.8
111	2007	212	1845	79.8	71	3.809	237.6	28.14	12.79
111	2007	212	1900	79.2	72.7	4.021	221.2	21.37	12.79
111	2007	212	1915	79.1	72.2	3.195	249.7	27.86	12.79
111	2007	212	1930	78.4	73.6	3.382	240.9	23.46	12.78
111	2007	212	1945	77.9	74.7	3.168	251.1	23.36	12.77
111	2007	212	2000	77.3	75.9	2.294	248.4	24.61	12.77
111	2007	212	2015	77	76.6	1.978	238.8	23.65	12.77
111	2007	212	2030	76.4	79.3	1.962	259.8	22.26	12.77
111	2007	212	2045	75.9	81.3	1.559	255.9	19.93	12.76
111	2007	212	2100	75.5	82.6	1.525	260.5	18.27	12.75
111	2007	212	2115	75.3	83.7	1.236	231.2	14.01	12.75
111	2007	212	2130	75.1	83.8	1.199	239	24.8	12.75
111	2007	212	2145	74.8	84.7	1.305	308.5	26.84	12.74
111	2007	212	2200	74.4	85.4	1.185	313.1	13.18	12.73
111	2007	212	2215	74	86.3	0.455	319.1	13.88	12.73
111	2007	212	2230	73.8	86.9	1.013	319.8	13.47	12.72
111	2007	212	2245	73.6	87.4	1.068	321	10.34	12.71
111	2007	212	2300	73.6	87.4	2.028	303.3	24.67	12.71
111	2007	212	2315	73.2	88.2	0.745	301.1	19.39	12.71
111	2007	212	2330	72.9	88.9	0.121	319.2	5.407	12.7
111	2007	212	2345	72.7	89.3	0.678	309.5	13	12.7
111	2007	212	2400	72.3	90.1	0.124	317.8	11.71	12.69
111	2007	213	15	72.3	90.3	0.628	337.4	10.39	12.69
111	2007	213	30	72.3	90.2	0.78	339.8	15.01	12.69
111	2007	213	45	72	90.4	0.821	254.3	16.13	12.69
111	2007	213	100	71.6	90.8	1.873	318.8	19.35	12.68
111	2007	213	115	71.7	90.6	2.133	322.3	17.14	12.68
111	2007	213	130	71.6	90.3	1.459	308.6	15.5	12.68
111	2007	213	145	71.4	90.1	2.012	321.6	14.23	12.67
111	2007	213	200	71.3	89.7	1.513	332.7	21	12.67
111	2007	213	215	71.2	89	1.346	332.5	16.05	12.67
111	2007	213	230	71	88.8	1.584	332.4	12.56	12.67
111	2007	213	245	70.6	89	1.233	328.1	13.75	12.67
111	2007	213	300	70.3	89.2	0.42	288.5	10.54	12.67
111	2007	213	315	69.64	89.8	na	na	na	12.67
111	2007	213	330	69.53	90.2	0.603	360	14.78	12.66
111	2007	213	345	69.37	90.2	0.251	288.8	3.313	12.66
111	2007	213	400	69.01	90.2	0.709	319.3	7.99	12.67
111	2007	213	415	68.7	90.6	0.083	351.8	4.149	12.69
111	2007	213	430	68.44	90.7	0.97	345.5	20.24	12.73
111	2007	213	445	68.23	90.4	0.806	354.3	22.25	12.77
111	2007	213	500	68.28	89.3	1.373	2.731	18.68	12.83
111	2007	213	515	68.11	88.6	1.127	328.2	12.57	12.89
111	2007	213	530	67.94	88.3	1.149	311.7	18.65	12.96
111	2007	213	545	67.74	88.1	1.657	337.6	19.21	13.04
111	2007	213	600	67.65	87.8	0.736	1.725	18.07	13.12
111	2007	213	615	67.72	87.7	0.178	334.8	7.5	13.21
111	2007	213	630	68.2	86.5	1.112	339.7	24.56	13.25

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	213	645	69.34	83.3	1.36	0.132	29.29	13.24
111	2007	213	700	71.5	75	1.926	42.56	31.05	13.23
111	2007	213	715	73.2	71.6	1.71	9.97	38.86	13.22
111	2007	213	730	74.3	69.68	2.751	26.98	36.31	13.22
111	2007	213	745	75	68.07	3.43	31.93	23.02	13.21
111	2007	213	800	75.6	66.26	4.369	37.15	18.92	13.2
111	2007	213	815	76.5	64.04	4.033	48.7	24.85	13.2
111	2007	213	830	77.2	62.53	4.827	57.25	21.95	13.19
111	2007	213	845	77.5	61.5	5.316	64.61	24.13	13.19
111	2007	213	900	78.1	62.87	5.254	61.05	23.83	13.18
111	2007	213	915	78.8	61.86	5.145	60.01	27.84	13.18
111	2007	213	930	79	62.47	5.375	40.55	23.09	13.18
111	2007	213	945	79.3	60.13	5.246	52.99	21.33	13.18
111	2007	213	1000	80.2	59.43	4.933	56.83	30.23	13.18
111	2007	213	1015	80.8	58.79	5.004	49.07	26.95	13.17
111	2007	213	1030	81.6	57.79	4.919	49.11	35.73	13.16
111	2007	213	1045	81.8	57.62	4.508	57.65	43.35	13.16
111	2007	213	1100	82.4	57.32	5.054	80.3	27.15	13.16
111	2007	213	1115	82.7	56.52	4.998	74.9	26.59	13.16
111	2007	213	1130	82.5	55.65	5.342	44.84	28.8	13.16
111	2007	213	1145	83.1	54.58	4.996	50.66	32.99	13.17
111	2007	213	1200	83.5	52.17	5.296	49.64	36.02	13.17
111	2007	213	1215	83.7	52.61	5.318	54.24	34.42	13.17
111	2007	213	1230	84.5	48.66	4.559	41.85	32.32	13.17
111	2007	213	1245	84.9	52.54	4.146	60.52	32	13.16
111	2007	213	1300	85.2	49.86	4.692	37.16	33.54	13.16
111	2007	213	1315	85.6	47.69	4.607	20.71	35.85	13.16
111	2007	213	1330	85.7	48.12	5.238	71	44.09	13.16
111	2007	213	1345	86.1	42.67	5.123	63.24	36.97	13.17
111	2007	213	1400	85.9	44.54	4.716	67.23	26.84	13.17
111	2007	213	1415	86.3	41.4	5.284	57.21	39.92	13.18
111	2007	213	1430	86.8	39.7	3.485	113.3	72	13.18
111	2007	213	1445	86.8	41.23	4.875	89.7	38.09	13.18
111	2007	213	1500	87	40.33	4.26	97.2	36.51	13.18
111	2007	213	1515	87.3	42.37	3.595	68.68	62.92	13.2
111	2007	213	1530	87.2	42.73	3.999	108	46.49	13.21
111	2007	213	1545	85.3	54.66	5.185	225.2	37.73	13.21
111	2007	213	1600	84.9	55.73	5.111	232.9	35.1	13.22
111	2007	213	1615	85.1	56.8	5.957	228	31.28	13.06
111	2007	213	1630	84.3	57.61	5.834	248.2	29.28	12.92
111	2007	213	1645	84.2	58.98	5.155	235.1	25.3	12.88
111	2007	213	1700	84.2	56.34	4.97	248.6	28.78	12.87
111	2007	213	1715	84.1	57.41	4.351	228.9	25.15	12.85
111	2007	213	1730	84	58.45	4.019	236	30.69	12.83
111	2007	213	1745	83.5	56.05	4.268	249.7	31.11	12.82
111	2007	213	1800	84	58.29	4.708	259.4	27.09	12.81
111	2007	213	1815	83.2	60.26	3.95	251.2	29.66	12.79
111	2007	213	1830	82.8	60.43	4.814	243.4	25.4	12.79
111	2007	213	1845	82.3	58.79	3.974	242.6	26.55	12.79
111	2007	213	1900	82.5	56.95	3.207	247.6	28.51	12.78
111	2007	213	1915	82.3	58.76	2.741	246.2	27.28	12.77
111	2007	213	1930	81.5	61.5	3.301	248.4	22.85	12.77
111	2007	213	1945	80.6	66.24	3.453	259.9	23.1	12.77
111	2007	213	2000	79.7	69.39	2.463	252.1	22.36	12.76
111	2007	213	2015	79	70.4	2.306	256	20.92	12.75
111	2007	213	2030	78.5	72.1	2.266	256.2	24.22	12.75
111	2007	213	2045	78	71.8	1.897	254.6	23.42	12.75
111	2007	213	2100	77.6	71.9	1.478	266.4	19.95	12.74
111	2007	213	2115	77.3	72.9	1.662	263.8	20.55	12.74
111	2007	213	2130	77	74	0.979	276.4	21.93	12.73

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	213	2145	76.7	75.4	0.462	287.4	12.67	12.73
111	2007	213	2200	76.1	77	1.605	281.9	15.92	12.72
111	2007	213	2215	76	77.2	1.757	300.5	21.24	12.72
111	2007	213	2230	75.9	78.3	1.851	312.5	17.83	12.71
111	2007	213	2245	76	79.9	2.026	303.9	19.91	12.71
111	2007	213	2300	76.2	81.5	3.011	291	20.75	12.71
111	2007	213	2315	76.3	81.2	3.307	288.8	20.83	12.7
111	2007	213	2330	76.2	80.5	2.919	287.4	17.07	12.7
111	2007	213	2345	75.9	81.3	1.413	322.8	25.4	12.69
111	2007	213	2400	75.3	82.8	0.558	337.6	17.87	12.69
111	2007	214	15	75	82.8	1.282	318.2	17.83	12.68
111	2007	214	30	74.9	82.2	1.432	304.9	18.4	12.68
111	2007	214	45	74.8	81.7	1.284	302	19.1	12.67
111	2007	214	100	74.6	81	1.007	316.5	16.96	12.67
111	2007	214	115	74.6	81.1	0.487	311.9	10.85	12.67
111	2007	214	130	74	82.6	na	na	na	12.66
111	2007	214	145	73.7	83.5	0.584	221.7	10.24	12.66
111	2007	214	200	73.6	83.8	0.165	212.3	2.492	12.65
111	2007	214	215	73.2	84.6	na	na	na	12.65
111	2007	214	230	73.1	85.4	0.563	180.9	6.9	12.65
111	2007	214	245	73.1	85.6	na	na	na	12.64
111	2007	214	300	72.7	86.3	na	na	na	12.64
111	2007	214	315	72.5	86.8	0.249	154.9	5.422	12.64
111	2007	214	330	72.6	87.1	0.379	281.5	11.96	12.64
111	2007	214	345	72	88.1	0.746	286.2	7.01	12.64
111	2007	214	400	71.6	88.8	0.29	287.9	6.981	12.64
111	2007	214	415	71.8	88.6	0.256	305.2	5.376	12.65
111	2007	214	430	72	88.3	na	na	na	12.66
111	2007	214	445	71.8	88.5	0.405	49.8	5.905	12.67
111	2007	214	500	71.6	88.7	na	na	na	12.68
111	2007	214	515	71.2	89	0.494	269	8.71	12.69
111	2007	214	530	70.7	89.8	0.971	276	6.831	12.71
111	2007	214	545	70.5	90.4	na	na	na	12.72
111	2007	214	600	70.5	90.6	na	na	na	12.75
111	2007	214	615	70.6	90.8	na	na	na	12.85
111	2007	214	630	71.1	90.7	na	na	na	13.06
111	2007	214	645	72.2	89.2	0.033	352.4	3.328	13.28
111	2007	214	700	73.6	85.8	0.782	316	18.75	13.27
111	2007	214	715	74.9	81.8	1.314	338.4	34.29	13.27
111	2007	214	730	76.1	78.7	1.76	296.2	30.01	13.26
111	2007	214	745	77.3	74.7	1.541	303.5	36.82	13.26
111	2007	214	800	78.4	71.7	1.244	293.8	34.73	13.25
111	2007	214	815	79.4	69.69	1.628	270.5	48.5	13.24
111	2007	214	830	80.9	66.14	1.467	284.4	30.3	13.24
111	2007	214	845	82	63.4	1.615	241.1	52.61	13.24
111	2007	214	900	83.2	59.36	1.451	293.4	77	13.24
111	2007	214	915	83.9	58.08	1.39	62.66	75	13.24
111	2007	214	930	84.9	54.5	1.71	275.8	57.09	13.24
111	2007	214	945	85	52.03	2.228	1.758	78	13.23
111	2007	214	1000	86	54.26	2.229	313.6	63.02	13.23
111	2007	214	1015	86	65.45	3.499	214.7	35.85	13.22
111	2007	214	1030	84.2	66.96	4.706	203	27.01	13.23
111	2007	214	1045	84	64.29	5.06	207	18.71	13.23
111	2007	214	1100	84	63.16	4.943	206.7	23.34	13.23
111	2007	214	1115	84.6	62.69	4.901	201.6	23.1	13.22
111	2007	214	1130	84.6	61.82	5.242	212.2	23.67	13.22
111	2007	214	1145	85.1	58.68	4.873	220.1	23.98	13.23
111	2007	214	1200	84.8	58.88	5.31	211	22.71	13.22
111	2007	214	1215	84.6	60.02	5.518	213.4	19.89	13.23
111	2007	214	1230	84.8	56.78	5.536	212.1	23.64	13.22

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	214	1245	85	59.75	5.288	220.9	25.67	13.23
111	2007	214	1300	84.7	56.38	5.663	226.3	26.62	13.23
111	2007	214	1315	84.6	55.84	6.047	220.5	25.22	13.23
111	2007	214	1330	84.5	55.81	6.009	235.2	24.63	13.22
111	2007	214	1345	84.7	57.59	6.144	232.3	25.45	13.24
111	2007	214	1400	84.6	60.86	5.352	235.1	28.35	13.24
111	2007	214	1415	84.3	62.63	6.166	229.1	26.97	13.24
111	2007	214	1430	84.9	57.12	6.485	259.8	19.18	13.24
111	2007	214	1445	85	57.65	5.717	247.9	30.71	13.24
111	2007	214	1500	84.6	58.29	6.106	229.3	23.23	13.24
111	2007	214	1515	84.2	55.64	6.201	233.1	21.15	13.18
111	2007	214	1530	84.8	58.62	5.651	248.8	37.24	13.18
111	2007	214	1545	84.3	57.25	5.83	219.1	27.6	13.07
111	2007	214	1600	84.9	57.61	4.488	236.4	26.81	13.06
111	2007	214	1615	85.1	54.24	5.58	248.8	31.89	12.99
111	2007	214	1630	84.7	58.88	4.685	236.5	26.44	12.9
111	2007	214	1645	85	60.75	4.768	242.2	34.9	12.87
111	2007	214	1700	83.8	59.18	5.342	218.1	20.86	12.84
111	2007	214	1715	83.7	61.32	5.876	215.9	24.01	12.83
111	2007	214	1730	83.9	59.39	5.55	250.9	25.97	12.81
111	2007	214	1745	83.4	61.49	5.272	246.2	28	12.81
111	2007	214	1800	82.9	65.14	5.177	253.6	23.85	12.79
111	2007	214	1815	82.2	65.87	5.457	249	26.57	12.79
111	2007	214	1830	82.2	63.5	5.191	253	22.19	12.78
111	2007	214	1845	82.2	64.51	4.76	259.3	23.47	12.77
111	2007	214	1900	81.7	66.48	4.754	254.4	23.37	12.77
111	2007	214	1915	81.3	66.48	4.685	257.5	28.65	12.77
111	2007	214	1930	80.9	68.25	4.119	260	26.57	12.77
111	2007	214	1945	80.3	69.55	4.23	267.6	24.91	12.76
111	2007	214	2000	79.9	70.3	4.232	266.2	21.65	12.76
111	2007	214	2015	79.6	69.9	4.192	267.3	19.78	12.75
111	2007	214	2030	79.3	70.8	3.843	257.2	23.32	12.75
111	2007	214	2045	79	71.7	3.737	253.6	27.09	12.75
111	2007	214	2100	78.8	72.8	4.484	254.8	26.5	12.74
111	2007	214	2115	78.6	74.5	4.365	261.8	29.41	12.74
111	2007	214	2130	78.3	76.8	4.27	253	21.34	12.73
111	2007	214	2145	78	77.9	4.452	254.2	24.82	12.73
111	2007	214	2200	77.9	78.6	4.355	266.6	23.27	12.73
111	2007	214	2215	77.7	77.2	4.671	266.9	24.91	12.73
111	2007	214	2230	77.8	75.5	5.945	272.5	24.39	12.73
111	2007	214	2245	77.7	75.7	3.898	281.2	20.65	12.72
111	2007	214	2300	77.6	74	5.006	273.5	22.62	12.72
111	2007	214	2315	77.8	74	4.921	273.8	23.75	12.71
111	2007	214	2330	77.7	73.7	4.47	275	23.56	12.71
111	2007	214	2345	77.7	72.8	4.919	284	20.9	12.71
111	2007	214	2400	77.7	71.4	5.159	278.4	21.15	12.71
111	2007	215	15	77.5	72	4.285	275.1	22.88	12.71
111	2007	215	30	77.2	72.5	3.7	280.7	20.07	12.7
111	2007	215	45	77	72.6	3.448	280.4	21.19	12.7
111	2007	215	100	76.8	71.1	3.708	275.7	20.43	12.69
111	2007	215	115	76.7	70.6	3.499	276.5	25.62	12.69
111	2007	215	130	76.8	70.2	4.273	272.5	21.72	12.68
111	2007	215	145	76.7	72.4	3.662	270.2	20.49	12.68
111	2007	215	200	76.6	72.5	4.299	272.3	22.88	12.67
111	2007	215	215	76.7	70.9	5.175	279.4	23.66	12.67
111	2007	215	230	76.5	71.4	4.547	281.8	21.31	12.67
111	2007	215	245	76.2	71.9	4.003	288.9	18.61	12.67
111	2007	215	300	76	71.7	3.823	287.3	21.62	12.67
111	2007	215	315	75.7	72.2	4.071	284.7	19.17	12.66
111	2007	215	330	75.6	72.9	4.248	285.1	18.98	12.66

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	215	345	75.3	74.1	3.553	283.1	18.55	12.66
111	2007	215	400	75	74.9	3.565	281.7	16.57	12.66
111	2007	215	415	74.8	75.4	3.241	289.9	17.56	12.66
111	2007	215	430	74.6	75.9	3.09	285	17.79	12.65
111	2007	215	445	74.2	77.5	2.743	280.3	18.96	12.65
111	2007	215	500	73.9	78.3	2.971	280.4	17.33	12.72
111	2007	215	515	73.8	78.7	3.191	280.7	17.7	12.75
111	2007	215	530	73.9	79.2	3.682	277.4	17.6	12.82
111	2007	215	545	73.8	79.9	4.188	276.4	18.22	12.85
111	2007	215	600	73.8	79	4.252	279.9	20.39	13.13
111	2007	215	615	73.9	78.3	4.333	277.6	18.27	13.27
111	2007	215	630	74.2	75.9	5.576	281.7	18	13.27
111	2007	215	645	74.5	75.7	4.46	277.7	19.76	13.24
111	2007	215	700	74.9	75.3	3.827	273.7	20.81	13.28
111	2007	215	715	75.3	74.1	4.563	279.8	17.06	13.28
111	2007	215	730	76	73	4.021	278.4	18.72	13.29
111	2007	215	745	76.7	71.6	4.542	283.8	16.08	13.19
111	2007	215	800	77.3	71	4.549	282.4	15.63	13.14
111	2007	215	815	78.3	69.29	4.464	273.7	21.48	13.11
111	2007	215	830	78.9	67.95	4.96	273.7	21.73	13.02
111	2007	215	845	79.6	65.68	5.574	278.5	20.26	12.96
111	2007	215	900	80.3	64.1	5.131	275.3	23.04	12.97
111	2007	215	915	81.1	66.74	5.292	270.6	24.61	13.19
111	2007	215	930	80	68.95	6.146	254.5	23.62	13.03
111	2007	215	945	80.4	70.5	6.057	266.1	26.03	13.05
111	2007	215	1000	79.8	70.5	6.102	244.6	24.86	13.18
111	2007	215	1015	80.4	68.38	5.759	250.9	23.65	13
111	2007	215	1030	80.4	70	5.957	254.9	26.53	12.95
111	2007	215	1045	80.8	69.22	6.805	261.2	31.04	13.31
111	2007	215	1100	80.4	71.7	6.388	250.9	25.18	13.29
111	2007	215	1115	80.9	68.78	6.233	258	31.66	13.29
111	2007	215	1130	81	70.5	7.33	217.4	90.7	13.27
111	2007	215	1145	80.9	71	5.618	332.2	36.49	13.27
111	2007	215	1200	80.9	68.52	6.831	324.8	37.06	13.26
111	2007	215	1215	81.8	67.25	6.331	291.8	30.16	13.26
111	2007	215	1230	82.6	68.42	5.842	286.7	33.39	13.25
111	2007	215	1245	82.2	68.95	6.197	286.7	38.38	13.26
111	2007	215	1300	82.3	70.5	6.61	297.5	30.5	13.26
111	2007	215	1315	82.4	69.28	6.668	294.6	31.33	13.15
111	2007	215	1330	82.1	70.8	5.892	277.2	34.59	13.07
111	2007	215	1345	82.1	71.3	6.553	280.2	37.72	13.09
111	2007	215	1400	81.9	73.8	6.571	276.9	35.35	13.15
111	2007	215	1415	82.3	73.1	5.908	274.8	40.53	13.07
111	2007	215	1430	81.8	73.4	6.914	282.8	36.53	13.03
111	2007	215	1445	81.3	74.6	7.46	278.9	29.36	12.99
111	2007	215	1500	81.5	73.1	7.23	294.9	29.65	12.99
111	2007	215	1515	82.2	72.8	7.56	303.1	24.99	13.29
111	2007	215	1530	81.9	72.2	6.767	280.1	32.89	13.24
111	2007	215	1545	81.2	75.1	7.81	279.9	28.85	13.12
111	2007	215	1600	81.2	76	7.25	294.6	30.55	12.96
111	2007	215	1615	81.6	74.3	6.581	289.8	31.5	12.9
111	2007	215	1630	81.7	74.3	6.607	298.1	27.34	12.87
111	2007	215	1645	81.2	76.1	7.32	296.8	33.91	12.85
111	2007	215	1700	80.5	76.5	8.38	302.4	25.32	12.84
111	2007	215	1715	80.1	78.4	8.06	300.6	26.21	12.83
111	2007	215	1730	79.9	77.7	7.43	296.9	31.68	12.82
111	2007	215	1745	80.1	77	6.376	289.5	34.65	12.82
111	2007	215	1800	79.9	77.3	6.795	299.8	29.18	12.81
111	2007	215	1815	79.6	78.5	6.205	296	26.81	12.81
111	2007	215	1830	79.3	78.3	6.992	292.9	33.37	12.8

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	215	1845	79	78.6	5.949	288.8	31.96	12.79
111	2007	215	1900	78.4	80	5.86	289.1	38.62	12.79
111	2007	215	1915	78.1	80.3	6.013	299.2	34.31	12.78
111	2007	215	1930	77.7	81.3	5.409	290.1	34.99	12.78
111	2007	215	1945	77.2	81.5	5.777	300.2	24.07	12.77
111	2007	215	2000	77	81.8	6.158	302.2	31.5	12.77
111	2007	215	2015	76.8	83.4	5.274	295.1	25.47	12.76
111	2007	215	2030	76.5	84.3	5.465	300.3	34.37	12.76
111	2007	215	2045	76.4	84.5	5.06	295.5	32.03	12.75
111	2007	215	2100	76.3	84.9	5.522	296.5	34.28	12.75
111	2007	215	2115	76.2	85.6	6.098	299.1	31.42	12.74
111	2007	215	2130	76	86.4	6.352	294.9	30.33	12.74
111	2007	215	2145	75.9	86.9	5.485	290	30.47	12.73
111	2007	215	2200	75.8	86.9	5.681	300.2	25.15	12.73
111	2007	215	2215	75.9	86.8	5.721	306.2	31.71	12.73
111	2007	215	2230	75.9	85.3	6.247	312.3	19.55	12.72
111	2007	215	2245	76.1	84.3	6.908	325.4	30.33	12.71
111	2007	215	2300	76.4	82.8	5.709	323.2	30.66	12.71
111	2007	215	2315	76.2	83	3.022	278.5	37.11	12.7
111	2007	215	2330	76	83.3	4.031	271	38.51	12.69
111	2007	215	2345	76.7	75.2	8.4	324.2	16.12	12.69
111	2007	215	2400	77.2	61.99	8.58	334.6	20.77	12.68
111	2007	216	15	76.3	60.48	7.83	335.9	17.67	12.67
111	2007	216	30	74.7	63.86	6.785	340.5	30.71	12.67
111	2007	216	45	73.9	64.49	3.225	339.1	26.13	12.67
111	2007	216	100	73.8	69.17	0.681	17.78	30.64	12.66
111	2007	216	115	72.4	77	3.015	251	45.39	12.65
111	2007	216	130	72	79.7	2.804	313.9	61.42	12.66
111	2007	216	145	72.1	78	4.804	314.3	20.53	12.66
111	2007	216	200	72.8	76.2	3.3	304.7	19.03	12.65
111	2007	216	215	73.9	75	5.505	307.1	17.12	12.65
111	2007	216	230	74	76.7	4.847	349.1	22.11	12.65
111	2007	216	245	72.9	77.4	2.496	341.3	30.18	12.65
111	2007	216	300	72.6	77	4.428	326.9	12.65	12.65
111	2007	216	315	72.6	77.5	4.067	313	17.4	12.65
111	2007	216	330	72.7	77.5	5.076	324.1	17.21	12.65
111	2007	216	345	73	78	3.121	318.8	33.97	12.65
111	2007	216	400	73.6	78.6	3.052	312.5	26.07	12.65
111	2007	216	415	74.3	78.6	3.201	331.1	30.09	12.66
111	2007	216	430	74.3	80.4	2.161	293.8	29.67	12.67
111	2007	216	445	74.1	81.8	2.715	293.2	29.52	12.69
111	2007	216	500	73.7	83.9	2.596	283.2	39.47	12.73
111	2007	216	515	73.5	85.6	3.078	280.5	28.07	12.75
111	2007	216	530	73.3	86	3.453	308.4	24.29	12.8
111	2007	216	545	73.4	85.9	2.562	308.2	20.76	12.83
111	2007	216	600	73.3	85.3	3.06	312.2	16.94	12.88
111	2007	216	615	73.2	84.5	2.435	315.5	18.96	12.98
111	2007	216	630	73.2	83.8	2.757	303.4	20.91	13.16
111	2007	216	645	73.5	83.5	3.249	299.3	24.12	13.18
111	2007	216	700	73.7	83.4	3.487	306.6	19.84	13.19
111	2007	216	715	74.1	82.5	3.71	317.2	16.7	13.19
111	2007	216	730	74.5	81.9	3.633	318.6	23.05	13.18
111	2007	216	745	75	80.7	3.112	314.2	24.32	13.18
111	2007	216	800	75.3	81	3.654	302.9	27.27	13.18
111	2007	216	815	76	79.6	3.904	311.4	19.57	13.18
111	2007	216	830	76.2	78.9	4.351	308.6	23.52	13.18
111	2007	216	845	76.8	78.8	4.631	304.1	25.39	13.18
111	2007	216	900	77.2	77.7	5.099	313.8	21.36	13.16
111	2007	216	915	77.8	75.1	5.985	320	18.06	13.18
111	2007	216	930	78.5	73.1	5.509	321.4	21.45	13.18

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	216	945	79.4	71.6	4.98	311.2	24.09	13.17
111	2007	216	1000	79.8	70.9	4.649	347.6	25.39	13.17
111	2007	216	1015	80.4	70.9	4.698	330.6	22.03	13.17
111	2007	216	1030	80.3	70.2	4.778	331.8	22.75	13.17
111	2007	216	1045	81.3	66.61	4.373	336.8	32.07	13.17
111	2007	216	1100	81.5	68.25	3.752	355.5	32.63	13.17
111	2007	216	1115	82.6	65.37	3.469	29.78	51.05	13.18
111	2007	216	1130	84	62.5	2.679	345.2	78.9	13.18
111	2007	216	1145	84.1	63.86	4.299	345.8	36.94	13.18
111	2007	216	1200	84.3	60.58	3.968	347.7	45.44	13.18
111	2007	216	1215	85.3	60.18	3.084	353.7	57.76	13.18
111	2007	216	1230	85.4	59.24	3.864	341.3	48.26	13.18
111	2007	216	1245	85.4	59.31	4.26	345	37.73	13.19
111	2007	216	1300	85.7	58	3.384	12.9	37.23	13.19
111	2007	216	1315	86.6	58.17	3.781	332.2	57.99	13.2
111	2007	216	1330	86.6	59.57	3.934	326.5	34.3	13.2
111	2007	216	1345	86.7	55.73	4.305	330.9	35.33	13.21
111	2007	216	1400	87.1	58.64	4.494	338.4	32.05	13.21
111	2007	216	1415	86.5	64.62	4.067	340.2	43.16	13.2
111	2007	216	1430	86.1	61.64	4.236	298	35.84	13.17
111	2007	216	1445	86	63.88	4.76	271	41.58	13.18
111	2007	216	1500	85.2	62.88	5.236	235.9	25.91	13.08
111	2007	216	1515	85.6	61.21	4.962	256.6	35.56	12.96
111	2007	216	1530	85.6	60.64	3.95	268.1	35.36	12.92
111	2007	216	1545	86	63.68	4.071	257.1	35.42	12.88
111	2007	216	1600	85.9	61.58	4.117	260.4	36.35	12.86
111	2007	216	1615	86.1	60.81	4.115	253.7	36.79	12.84
111	2007	216	1630	86.4	59	3.686	261.9	40.82	12.84
111	2007	216	1645	85.8	61.18	4.825	264.5	34.73	12.83
111	2007	216	1700	85.4	60.34	3.976	281.1	31.12	12.81
111	2007	216	1715	84.9	63.08	4.311	265.3	31.51	12.81
111	2007	216	1730	84.4	65.82	4.266	274.2	32.06	12.8
111	2007	216	1745	83.4	66.05	4.021	270	36.04	12.79
111	2007	216	1800	82.8	68.84	4.544	283.7	38.47	12.79
111	2007	216	1815	82.8	69.44	4.957	302.8	28.89	12.78
111	2007	216	1830	81.5	75.7	5.37	299.3	25.96	12.77
111	2007	216	1845	80.8	76.5	5.372	290.5	31.12	12.77
111	2007	216	1900	80.1	80.2	6.213	305.5	21.14	12.76
111	2007	216	1915	79.7	80.2	5.536	306.1	19.11	12.75
111	2007	216	1930	79.8	80.3	4.015	304.5	22.13	12.75
111	2007	216	1945	79.4	79.8	3.958	310.8	17.75	12.75
111	2007	216	2000	78.9	81.3	3.193	307.9	13.65	12.75
111	2007	216	2015	78.4	82.2	2.616	314.8	12.45	12.74
111	2007	216	2030	77.6	84.2	2.177	308.5	12.71	12.73
111	2007	216	2045	77.1	84.4	1.525	343.1	28.45	12.73
111	2007	216	2100	77.6	70.5	2.77	353.2	30.31	12.73
111	2007	216	2115	78.3	61.18	2.409	351.8	17.89	12.73
111	2007	216	2130	78.4	54.33	2.695	352.6	18.08	12.72
111	2007	216	2145	78.1	48.78	2.594	355.7	21.06	12.71
111	2007	216	2200	78.1	47.38	2.973	347.4	24.36	12.71
111	2007	216	2215	77.9	46.14	2.81	354.3	23.7	12.71
111	2007	216	2230	77.6	46.34	2.653	354.9	18.61	12.71
111	2007	216	2245	77.2	47.17	2.804	22.4	29.03	12.7
111	2007	216	2300	77.1	48.28	2.856	39.07	28.68	12.7
111	2007	216	2315	76.9	48.31	3.698	56.49	25.36	12.69
111	2007	216	2330	77.1	48.48	4.129	64.99	24.81	12.69
111	2007	216	2345	76.9	49.08	3.297	72.3	32.84	12.69
111	2007	216	2400	76.4	50.12	3.142	81.4	34.11	12.69
111	2007	217	15	76	50.89	3.61	76	31.93	12.68
111	2007	217	30	75.5	50.42	3.797	83.6	33.12	12.68

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	217	45	75.3	51.56	3.783	78.4	35	12.67
111	2007	217	100	75	52.37	3.678	80.4	32.66	12.67
111	2007	217	115	74.6	53.44	3.376	88.7	32.31	12.67
111	2007	217	130	73.9	56.18	2.256	79.8	34.71	12.67
111	2007	217	145	73.4	57.75	3.142	54.01	26.11	12.67
111	2007	217	200	73	56.85	3.324	44.25	28.52	12.67
111	2007	217	215	73	56.25	3.509	58.07	26.61	12.67
111	2007	217	230	72.7	56.49	3.648	74.5	33.93	12.67
111	2007	217	245	72.3	58.26	3.263	58.98	34.72	12.66
111	2007	217	300	71.4	61	3.31	55.38	26.73	12.67
111	2007	217	315	71	61.44	3.704	71.7	22.92	12.66
111	2007	217	330	70.7	62.84	3.046	73.1	31.68	12.66
111	2007	217	345	70.4	64.11	4.146	65.58	28.23	12.66
111	2007	217	400	70.3	65.69	3.761	81.5	29.04	12.55
111	2007	217	415	69.96	66.39	3.579	79	31.81	12.31
111	2007	217	430	69.9	65.38	4.105	102.6	30.84	12.36
111	2007	217	445	69.89	64.11	4.444	103.6	35.88	12.33
111	2007	217	500	69.82	63.18	4.289	97.4	28.75	12.27
111	2007	217	515	69.5	63.34	4.375	111.7	25.32	12.35
111	2007	217	530	69.24	63.31	5.105	112.3	27.31	12.63
111	2007	217	545	68.95	63.48	5.131	123.6	29.05	12.65
111	2007	217	600	68.61	62.78	4.077	106.6	21.64	12.81
111	2007	217	615	68.47	62.21	3.406	106.4	29.71	12.89
111	2007	217	630	68.67	60.5	3.519	93.8	26.62	12.89
111	2007	217	645	69	59.23	3.555	95.9	32.68	13.03
111	2007	217	700	69.49	59.6	3.571	96.3	33.36	13.15
111	2007	217	715	69.78	59.43	3.569	93.7	33.92	13.19
111	2007	217	730	70.4	59.43	4.053	95.4	28.66	13.22
111	2007	217	745	70.6	58.76	3.964	93.8	33.36	13.21
111	2007	217	800	71.2	57.32	4.752	93.6	33.64	13.2
111	2007	217	815	71.9	55.55	4.144	87.3	33.88	13.2
111	2007	217	830	72.1	54.57	6.182	112.9	26.18	13.2
111	2007	217	845	72.3	52.43	6.148	118.2	26.82	13.2
111	2007	217	900	72.8	52.46	6.658	121.3	23.54	13.2
111	2007	217	915	73.3	52.36	5.971	116.6	28.77	13.19
111	2007	217	930	73.9	50.82	5.665	118.8	31.76	13.19
111	2007	217	945	74.5	51.69	4.621	92.7	34.11	13.2
111	2007	217	1000	74.7	48.75	5.05	111.5	36.18	13.19
111	2007	217	1015	75.1	48.34	6.39	136.6	25.67	13.19
111	2007	217	1030	75.5	47.57	5.568	119.5	33.91	13.18
111	2007	217	1045	76.1	47.03	5.133	105.5	44.58	13.18
111	2007	217	1100	76.4	46.37	4.291	129.9	50.16	13.18
111	2007	217	1115	77.1	45.19	4.498	102.4	28.08	13.18
111	2007	217	1130	77.2	44.29	5.062	112.2	38.88	13.17
111	2007	217	1145	77.5	41.78	4.571	107.8	34.77	13.17
111	2007	217	1200	78.2	41.21	4.022	136	49.81	13.16
111	2007	217	1215	78.4	41.48	3.585	138.4	49.02	13.16
111	2007	217	1230	79.1	40.91	3.622	85.3	82.5	13.16
111	2007	217	1245	79.4	42.65	3.209	132.6	73.7	13.16
111	2007	217	1300	79.9	39.24	3.247	158.1	56.12	13.16
111	2007	217	1315	80	43.75	5.014	93.3	78.8	13.16
111	2007	217	1330	79.5	46.49	4.613	249.7	44.35	13.16
111	2007	217	1345	78.7	47.73	5.8	226.3	30.25	13.16
111	2007	217	1400	78.5	47.19	5.37	223.8	26.33	13.16
111	2007	217	1415	78.2	47.96	5.87	233.4	24.43	13.16
111	2007	217	1430	78	47.53	5.63	220.2	33.31	13.16
111	2007	217	1445	77.4	48.4	5.88	226.7	30.47	13.16
111	2007	217	1500	77.4	48.16	5.3	220.6	28.2	13.16
111	2007	217	1515	77.5	49.7	5.441	230.2	37.03	13.17
111	2007	217	1530	77.4	50.97	5.34	224.8	34.07	13.17

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	217	1545	77	49.23	5.046	230.2	25.65	13.18
111	2007	217	1600	77.4	48.4	4.482	234.6	42.98	13.07
111	2007	217	1615	77.5	52.57	5.211	219.3	42.55	12.96
111	2007	217	1630	77	52.57	5.201	242.5	38.21	12.92
111	2007	217	1645	76.8	54.04	4.96	226.8	32.04	12.89
111	2007	217	1700	76.6	54.01	5.141	234.6	31.24	12.88
111	2007	217	1715	76.1	55.21	4.613	225.8	30.29	12.86
111	2007	217	1730	76.1	56.78	5.028	218.8	27.7	12.84
111	2007	217	1745	75.9	59.99	4.782	218.5	30.83	12.84
111	2007	217	1800	75.8	58.22	3.974	245.9	36.53	12.83
111	2007	217	1815	75.2	60.66	4.96	219.9	27.06	12.82
111	2007	217	1830	74.4	64.54	3.92	248.4	30.55	12.81
111	2007	217	1845	74.1	63.01	3.503	237.4	34.91	12.81
111	2007	217	1900	73.6	67.49	3.487	229.3	29.14	12.8
111	2007	217	1915	73.3	67.4	3.416	228	28.74	12.79
111	2007	217	1930	73.4	68.8	3.567	223.4	26.41	12.79
111	2007	217	1945	72.8	71	3.11	243.3	31.58	12.79
111	2007	217	2000	72.2	72.6	2.526	249.6	35.22	12.78
111	2007	217	2015	72	74.2	2.163	245.9	31.77	12.77
111	2007	217	2030	71.8	75.2	2.431	248.9	27.24	12.77
111	2007	217	2045	71.6	76	2.362	237.4	38.11	12.77
111	2007	217	2100	71.7	76.6	3.007	231.7	35.3	12.77
111	2007	217	2115	71.9	75.4	3.108	225.4	24.04	12.76
111	2007	217	2130	72.1	74.3	3.336	212.4	27.32	12.75
111	2007	217	2145	72.2	71.8	3.491	218.7	30.8	12.75
111	2007	217	2200	72.3	73.3	3.007	219.6	25.38	12.74
111	2007	217	2215	72.4	71.7	4.323	218.2	29.17	12.73
111	2007	217	2230	72.6	72.9	4.133	216.2	30.09	12.73
111	2007	217	2245	72.5	74.7	3.376	222.3	29.21	12.72
111	2007	217	2300	72.3	75.8	3.033	224.2	28.35	12.71
111	2007	217	2315	72.3	73.2	3.849	225.8	35.37	12.71
111	2007	217	2330	72.3	75.4	3.104	225.4	26.82	12.7
111	2007	217	2345	72.3	75.6	3.666	225.8	27.09	12.7
111	2007	217	2400	72.3	74.9	3.886	215.4	25.96	12.69
111	2007	218	15	72.4	76.2	3.898	224.9	25.39	12.69
111	2007	218	30	72.5	76.5	4.585	220.7	20.92	12.68
111	2007	218	45	72.4	78.1	4.148	229.7	28.35	12.68
111	2007	218	100	72.5	78.7	4.142	232	24.57	12.67
111	2007	218	115	72.6	79.1	4.569	233.3	29.72	12.67
111	2007	218	130	72.6	79.1	4.309	239.2	30.87	12.67
111	2007	218	145	72.8	79.2	4.403	232.8	31.62	12.67
111	2007	218	200	72.9	79.7	3.569	229.8	32.57	12.66
111	2007	218	215	73.1	79.4	3.827	215.1	33.21	12.66
111	2007	218	230	73.3	79.6	3.688	212.2	31.61	12.66
111	2007	218	245	73.4	79.8	3.916	207.7	25.84	12.66
111	2007	218	300	73.6	79.9	4.395	193	22.4	12.66
111	2007	218	315	73.8	80.2	4.355	203.8	24.76	12.66
111	2007	218	330	74	80.7	4.182	202.3	25.41	12.66
111	2007	218	345	73.9	77.9	5.61	202.2	25.06	12.66
111	2007	218	400	72.2	82	5.423	202.1	25.08	12.67
111	2007	218	415	71.3	82.5	3.746	216.2	31.31	12.67
111	2007	218	430	71.4	82.8	3.408	216.1	33.68	12.69
111	2007	218	445	71.5	84.4	3.986	218.9	29.45	12.71
111	2007	218	500	71.3	86	5.294	227.3	33.29	12.73
111	2007	218	515	71.2	88	4.504	246.4	43.03	12.74
111	2007	218	530	71.6	87.9	3.992	293	28.31	12.75
111	2007	218	545	72	88	3.234	300.9	38.23	12.78
111	2007	218	600	72.1	87	3.658	286	33.17	12.81
111	2007	218	615	72.2	85.1	3.708	295.1	27.08	12.87
111	2007	218	630	72.3	85.1	2.933	284.9	39.75	13.05

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	218	645	72.5	85	2.606	251.9	34.14	13.23
111	2007	218	700	72.7	85.2	3.084	263.7	39.49	13.26
111	2007	218	715	72.9	84.9	3.457	264.8	42.42	13.25
111	2007	218	730	73	85	3.541	259.2	37.09	13.25
111	2007	218	745	73	86.5	4.052	263.7	34.73	13.25
111	2007	218	800	73.2	87	4.426	274.1	41.27	13.26
111	2007	218	815	74	86	4.875	274.9	38.32	13.26
111	2007	218	830	74.4	85.6	4.279	276.9	42.28	13.26
111	2007	218	845	74.7	85	5.205	280.2	33.5	13.26
111	2007	218	900	74.8	84.5	4.52	278.9	35.6	13.26
111	2007	218	915	75.6	82.9	4.957	268.4	42.81	13.27
111	2007	218	930	75.9	83.7	6.307	262.2	43.84	13.29
111	2007	218	945	76.3	81.8	6.009	268.1	38.13	13.29
111	2007	218	1000	75.9	82.2	7.03	270.8	34.07	13.29
111	2007	218	1015	76.3	79.2	7.2	268.6	39.84	13.3
111	2007	218	1030	75.4	79.3	7.87	278.1	34.57	13.3
111	2007	218	1045	75	81.8	6.249	276.5	36.21	13.3
111	2007	218	1100	74.7	82.3	6.211	282.2	39.72	13.3
111	2007	218	1115	74	82.9	6.775	273	39.14	13.3
111	2007	218	1130	73.7	83.3	6.211	292.9	34.15	13.3
111	2007	218	1145	73.7	84.7	6.499	290.8	35.66	13.3
111	2007	218	1200	73.7	85.8	5.931	299	28.17	13.3
111	2007	218	1215	73.9	88.2	6.422	299.4	30.5	13.3
111	2007	218	1230	73.8	87.5	6.837	296.5	32.08	13.31
111	2007	218	1245	73	89.4	5.495	301.8	25.85	13.31
111	2007	218	1300	73.2	89.3	5.046	294.2	36.94	13.31
111	2007	218	1315	73.7	89.9	3.604	302.8	37.2	13.3
111	2007	218	1330	73.9	89.6	5.032	294.1	31.95	13.31
111	2007	218	1345	73.6	90	4.073	302	32.61	13.31
111	2007	218	1400	74.7	87.9	4.947	286	41.56	13.32
111	2007	218	1415	76.2	83.2	5.528	288.1	43.06	13.25
111	2007	218	1430	76.8	82.6	6.972	280.8	38.36	13.19
111	2007	218	1445	77.2	81.5	8.34	298.5	26.79	13.19
111	2007	218	1500	78.1	80.5	7.44	298.6	35.72	13.06
111	2007	218	1515	78.9	78	7.29	296.5	36.76	12.99
111	2007	218	1530	78.9	77.5	6.94	284.2	33.71	12.9
111	2007	218	1545	78.4	78.4	7.87	285.8	32.65	12.87
111	2007	218	1600	78	80.3	7.46	288	31.88	12.85
111	2007	218	1615	76.9	83.4	7.24	270.9	36.57	12.84
111	2007	218	1630	75.9	85	6.382	283	33.4	12.83
111	2007	218	1645	75.2	85.6	5.064	269.9	40.14	12.82
111	2007	218	1700	75.2	86	5.193	272.5	38.63	12.81
111	2007	218	1715	75.3	86.1	5.59	284	33.69	12.81
111	2007	218	1730	75.4	85.8	4.502	274.3	38.36	12.8
111	2007	218	1745	75.5	85.9	4.188	288.2	41.31	12.8
111	2007	218	1800	75.7	86.4	4.319	296.1	30.85	12.79
111	2007	218	1815	76	85.9	4.808	300.5	29.65	12.79
111	2007	218	1830	76.8	84.8	4.937	297	25.46	12.77
111	2007	218	1845	76.9	84.3	4.385	306.3	28.97	12.78
111	2007	218	1900	76.7	85.5	3.97	296	28.41	12.78
111	2007	218	1915	76.6	85.8	3.775	304.6	35.32	12.77
111	2007	218	1930	76.3	86.5	4.816	311.2	23.43	12.77
111	2007	218	1945	75.9	87.1	3.87	309.5	18.11	12.77
111	2007	218	2000	75.6	87.8	3.444	299	23.89	12.76
111	2007	218	2015	75.4	88.4	3.257	302.1	31.12	12.76
111	2007	218	2030	75.5	88.3	3.39	310.3	23.01	12.75
111	2007	218	2045	75.5	88.3	3.392	306.8	22.44	12.75
111	2007	218	2100	75.6	87.9	3.59	315	18.18	12.75
111	2007	218	2115	75.6	87.9	2.899	302.8	26.6	12.75
111	2007	218	2130	75.4	88.1	2.985	295.3	26.5	12.74

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	218	2145	75.4	88.1	2.111	296.4	25.92	12.74
111	2007	218	2200	75.2	88.5	1.953	315.6	20.51	12.74
111	2007	218	2215	75.1	89	1.962	312.7	17.79	12.73
111	2007	218	2230	75.1	88.5	2.042	323.7	18.1	12.73
111	2007	218	2245	75	88.4	2.033	314.5	15.28	12.73
111	2007	218	2300	74.8	88.6	0.399	330.6	18.24	12.73
111	2007	218	2315	74.8	88.2	1.589	325.2	19.96	12.72
111	2007	218	2330	75.1	87.4	2.592	329.1	15.39	12.72
111	2007	218	2345	75.2	87.2	1.946	324.7	17.36	12.71
111	2007	218	2400	74.9	87.9	1.493	320.2	16.3	12.71
111	2007	219	15	74.9	87.7	2.558	325.5	17.19	12.71
111	2007	219	30	75.4	86.6	3.366	330.7	15.72	12.71
111	2007	219	45	75.7	86.2	3.608	331	21.2	12.7
111	2007	219	100	75.8	86.5	3.757	345.6	16.17	12.7
111	2007	219	115	75.5	87	3.311	342.6	22.43	12.69
111	2007	219	130	75.2	87.3	2.373	345.7	13.36	12.69
111	2007	219	145	74.6	88.5	1.358	348.6	14.88	12.69
111	2007	219	200	74.1	89.2	1.02	331.2	14.68	12.68
111	2007	219	215	73.6	89.9	0.06	298.3	0.417	12.68
111	2007	219	230	73.2	90.3	na	na	na	12.67
111	2007	219	245	72.9	90.9	na	na	na	12.67
111	2007	219	300	72.9	91.4	na	na	na	12.67
111	2007	219	315	72.8	91.5	na	na	na	12.64
111	2007	219	330	72.7	91.8	0.515	87.6	10.91	12.65
111	2007	219	345	72.6	91.9	0.078	262.7	1.79	12.65
111	2007	219	400	72.7	92.1	0.652	316.6	19.16	12.65
111	2007	219	415	72.8	92.1	0.404	316.4	5.715	12.64
111	2007	219	430	72.9	92.2	0.505	339.6	19.63	12.63
111	2007	219	445	72.9	92.6	0.551	9.42	21.31	12.63
111	2007	219	500	73.3	92.3	1.555	14.05	29.14	12.63
111	2007	219	515	73.3	92.3	0.497	46.61	15.17	12.63
111	2007	219	530	73.1	92.2	0.459	43.95	9.04	12.63
111	2007	219	545	72.8	92.5	0.932	353.3	16.32	12.63
111	2007	219	600	72.7	92.6	0.86	67.82	21.79	12.62
111	2007	219	615	72.7	92.4	0.229	323	3.344	12.62
111	2007	219	630	72.5	92.6	0.686	22.05	16.26	12.62
111	2007	219	645	72.8	92.7	0.39	109.3	18.13	12.61
111	2007	219	700	73.6	92.2	1.019	87.3	27.44	12.62
111	2007	219	715	74.7	90.9	0.398	90.3	18.72	12.62
111	2007	219	730	75.6	89	1.009	57.21	42.31	12.61
111	2007	219	745	76.4	86.2	1.746	85	43.77	12.61
111	2007	219	800	77.2	82.5	2.06	74.3	31.87	12.62
111	2007	219	815	78.3	76.9	2.997	80.1	30.92	12.62
111	2007	219	830	79.7	68.43	2.687	86.6	38.03	12.68
111	2007	219	845	80.7	63.87	3.829	97	32.62	12.67
111	2007	219	900	81.4	61.77	3.048	70	31.1	12.61
111	2007	219	915	82.2	57.39	4.24	100.1	27.53	12.6
111	2007	219	930	83.1	55.98	3.244	91.7	42.53	12.6
111	2007	219	945	84.1	53.74	3.011	102.3	48.92	12.6
111	2007	219	1000	84.4	53.24	3.976	99.1	32.33	12.64
111	2007	219	1015	84.2	53.37	4.81	91	31.48	12.62
111	2007	219	1030	84.1	50.56	5.038	79.3	27.65	12.6
111	2007	219	1045	84.7	48.82	4.319	81.3	32.71	12.6
111	2007	219	1100	85	51.66	4.843	104.8	37.46	12.6
111	2007	219	1115	85.6	47.32	4.484	94.3	42.15	12.74
111	2007	219	1130	85.8	47.92	4.067	112.2	37.55	12.66
111	2007	219	1145	86	46.12	3.819	107.1	44.12	12.6
111	2007	219	1200	87.2	44.64	3.455	86.7	45.54	12.6
111	2007	219	1215	87.1	43.84	3.882	99.3	56.58	12.65
111	2007	219	1230	86.9	44.47	3.743	70.5	53.03	12.7

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	219	1245	87.7	44.24	2.558	128.3	88.5	12.61
111	2007	219	1300	87.7	44.67	3.336	79.9	57.81	12.58
111	2007	219	1315	87.7	44.94	3.515	38.6	57.48	12.58
111	2007	219	1330	87	43.67	3.636	17.21	48.73	12.58
111	2007	219	1345	87.9	50.55	3.523	24.6	97.5	12.57
111	2007	219	1400	86	55.83	4.214	209.2	38.31	12.57
111	2007	219	1415	85.1	51.52	4.41	229.1	33.57	12.57
111	2007	219	1430	84.5	54.73	5.503	228.6	25.14	12.57
111	2007	219	1445	84.6	56.4	4.567	242.4	42	12.56
111	2007	219	1500	84.8	55.8	4.315	246.4	46.37	12.56
111	2007	219	1515	83.8	58.57	5.215	241.3	34.52	12.56
111	2007	219	1530	83.6	63.68	5.028	255.2	34.88	12.56
111	2007	219	1545	83.9	58.44	4.393	273.5	36.17	12.56
111	2007	219	1600	83.7	58.77	5.026	290.7	28.19	12.56
111	2007	219	1615	82.6	59.91	4.168	294.1	29.07	12.56
111	2007	219	1630	82.4	59.35	3.92	262.8	24.77	12.56
111	2007	219	1645	82.6	58.42	3.428	264.9	31.67	12.56
111	2007	219	1700	82.8	57.02	3.219	264	41.48	12.56
111	2007	219	1715	82.1	61.76	3.235	276.6	28.6	12.56
111	2007	219	1730	81.4	63.9	3.338	288.4	26.45	12.55
111	2007	219	1745	81.1	64.34	3.003	274.3	29.24	12.55
111	2007	219	1800	81.1	63.7	2.538	285.5	28.46	12.55
111	2007	219	1815	80.9	64.77	2.391	243.2	29.49	12.55
111	2007	219	1830	80.7	63.8	2.237	261.4	31.93	12.55
111	2007	219	1845	80.5	63.57	1.816	296	22.98	12.55
111	2007	219	1900	80.3	60.66	1.729	267.5	31.79	12.55
111	2007	219	1915	80.2	62.47	2.214	230.7	34.06	12.55
111	2007	219	1930	79.7	64.38	2.19	235.2	32.63	12.55
111	2007	219	1945	79.3	66.12	2.107	218.9	24.9	12.55
111	2007	219	2000	78.9	66.35	1.822	263.3	31.01	12.54
111	2007	219	2015	78.5	68.46	1.624	254.4	34.49	12.54
111	2007	219	2030	78.1	70.3	1.943	281.1	29.04	12.54
111	2007	219	2045	77.8	71	2.144	286.9	25.23	12.54
111	2007	219	2100	77.7	70.4	1.695	259.8	32.4	12.54
111	2007	219	2115	77.8	69.57	1.393	276.7	31.64	12.54
111	2007	219	2130	77.8	68.74	1.254	236.9	36.68	12.54
111	2007	219	2145	77.8	70.4	0.786	257.2	32.51	12.54
111	2007	219	2200	77.7	73.5	0.62	273.1	20.47	12.54
111	2007	219	2215	77.4	80.4	1.357	284.3	29.94	12.54
111	2007	219	2230	77.2	84.5	1.868	289.1	31.73	12.54
111	2007	219	2245	77.1	86.1	2.201	305.2	17.74	12.54
111	2007	219	2300	76.9	87.7	2.43	291.5	26.92	12.54
111	2007	219	2315	76.8	88.5	2.338	284.1	31.68	12.54
111	2007	219	2330	76.8	88.7	2.179	237.6	30.12	12.54
111	2007	219	2345	76.9	88.3	2.695	246.3	35.02	12.54
111	2007	219	2400	77.1	87.6	3.08	295.1	31.75	12.54
111	2007	220	15	76.9	84.1	2.625	271.5	30.08	12.54
111	2007	220	30	77.3	84.2	2.712	263	38.87	12.53
111	2007	220	45	77.2	85.8	3.505	225.1	32.94	12.53
111	2007	220	100	77.1	86.6	2.55	265.5	41.97	12.53
111	2007	220	115	77.1	87.2	2.985	223.1	30.02	12.53
111	2007	220	130	77.2	87.5	1.899	266.4	47.46	12.53
111	2007	220	145	77.2	87.9	2.786	288.5	33.7	12.53
111	2007	220	200	77.3	88.8	4.285	288.6	34.71	12.53
111	2007	220	215	77.2	89.7	3.261	277.5	35.95	12.53
111	2007	220	230	77.1	90.5	3.356	295.1	33.07	12.53
111	2007	220	245	76.9	90.9	3.411	272.9	40.15	12.53
111	2007	220	300	76.6	91.5	4.039	276.9	35.93	12.53
111	2007	220	315	76.5	92	3.541	298.2	39.25	12.52
111	2007	220	330	76.3	92.6	4.551	297.6	29.92	12.52

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	220	345	76.4	93	4.071	301.5	32.17	12.52
111	2007	220	400	76.4	93.1	3.438	287.2	33.4	12.52
111	2007	220	415	76.4	93.4	3.859	284.7	34.37	12.53
111	2007	220	430	76.3	93.4	4.113	280.5	42.2	12.54
111	2007	220	445	76.2	93.6	3.096	261.5	48.91	12.55
111	2007	220	500	76.2	93.8	4.073	266.6	38.69	12.56
111	2007	220	515	76.2	93.8	3.807	287.3	40.63	12.58
111	2007	220	530	76.2	93.7	4.212	285.1	38.48	12.58
111	2007	220	545	76.1	93.8	4.5	287.5	30.16	12.6
111	2007	220	600	76	93.8	4.444	276.4	31.88	12.63
111	2007	220	615	75.8	93.9	4.353	269.7	37.91	12.73
111	2007	220	630	75.7	93.8	4.26	250.4	43.85	12.93
111	2007	220	645	75.7	93.8	4.494	251.3	36.52	13.13
111	2007	220	700	75.6	93.8	3.668	278.5	45.73	13.26
111	2007	220	715	75.4	92	5.876	306.6	66.95	13.32
111	2007	220	730	72.8	94.2	9.36	302.5	29.58	13.31
111	2007	220	745	72.7	94.5	8.05	293.1	35.03	13.3
111	2007	220	800	72.4	94.8	4.621	281.9	40.92	13.29
111	2007	220	815	72.5	94.9	2.882	291.1	31.83	13.29
111	2007	220	830	73	95.1	2.586	291.5	27.61	13.29
111	2007	220	845	73.7	95.2	2.49	287	26.77	13.29
111	2007	220	900	74.6	95.2	2.751	289.6	37.85	13.28
111	2007	220	915	76	95.1	3.267	287.7	27.05	13.29
111	2007	220	930	76.7	95	2.91	294.6	35.55	13.29
111	2007	220	945	76.8	94.9	3.503	286.4	34.66	13.29
111	2007	220	1000	77.8	94.6	4.486	306.9	23.58	13.28
111	2007	220	1015	78.5	93.3	6.529	318.1	22.5	13.28
111	2007	220	1030	79.6	87.7	7.39	318.7	20.69	13.27
111	2007	220	1045	81.3	80.8	6.873	321.4	21.54	13.27
111	2007	220	1100	82.5	76.7	7.26	329.3	26.08	13.27
111	2007	220	1115	83.3	75.1	7.73	321.1	20.28	13.26
111	2007	220	1130	83.9	73.3	8.09	323.4	17.27	13.25
111	2007	220	1145	84.8	72.9	7.23	322.8	22.49	13.24
111	2007	220	1200	84.8	70.9	7.34	327.2	19.06	13.24
111	2007	220	1215	84.7	73.7	6.605	314.7	21.26	13.24
111	2007	220	1230	84	74.7	5.874	314.2	24.17	13.23
111	2007	220	1245	84	73.4	5.24	311.2	25.79	13.24
111	2007	220	1300	85.7	63.3	5.87	324.1	31.59	13.24
111	2007	220	1315	87.9	64.2	6.156	346	33.7	13.24
111	2007	220	1330	85.6	73.6	4.202	291.9	37.53	13.24
111	2007	220	1345	86.6	69.71	5.169	295.9	33.42	13.24
111	2007	220	1400	86.5	68.83	4.776	312.6	28.87	13.25
111	2007	220	1415	88.8	56.33	6.072	345.7	30.39	13.25
111	2007	220	1430	89.6	52.52	7.18	354.3	25.63	13.26
111	2007	220	1445	89.8	55.63	7.01	356.8	28.22	13.26
111	2007	220	1500	90.6	50.35	7.19	353.5	26.24	13.26
111	2007	220	1515	90.7	52.39	7.33	2.021	25.45	13.27
111	2007	220	1530	90.7	51.32	7.96	340.7	25.59	13.26
111	2007	220	1545	90.9	52.66	6.724	348.9	29.52	13.28
111	2007	220	1600	91.3	49.72	8.33	338.9	28.25	13.29
111	2007	220	1615	91.5	47.98	8.84	351.3	25.49	13
111	2007	220	1630	91.2	48.55	8.54	352.5	21.98	12.92
111	2007	220	1645	91.4	50.82	6.831	341.6	20.27	12.89
111	2007	220	1700	91.5	49.52	7.93	352.1	26.56	12.87
111	2007	220	1715	91.7	47.08	7.1	345.7	23.96	12.85
111	2007	220	1730	91.8	46.04	9.64	338.8	22.86	12.83
111	2007	220	1745	91.7	46.88	10.31	343.6	21.33	12.82
111	2007	220	1800	91.5	48.88	6.777	347.1	23.7	12.81
111	2007	220	1815	91.4	47.31	7.33	347.2	23.21	12.8
111	2007	220	1830	91.1	47.98	8.43	340.8	17.7	12.79

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	220	1845	90.8	49.15	7.86	349.9	22.06	12.79
111	2007	220	1900	90.4	49.25	7.22	344.5	22.88	12.77
111	2007	220	1915	90	51.15	5.461	347.8	25.38	12.77
111	2007	220	1930	89.2	53.32	3.892	356.6	24.03	12.77
111	2007	220	1945	88.5	52.73	4.625	349.8	19.95	12.76
111	2007	220	2000	88	54.04	2.836	3.068	22.14	12.75
111	2007	220	2015	87.3	55.78	2.822	351	18.43	12.75
111	2007	220	2030	86.8	56.52	2.254	0.343	21.09	12.75
111	2007	220	2045	85.9	59.69	2.455	354.4	20.24	12.74
111	2007	220	2100	85.1	60.56	1.517	8.01	25.5	12.74
111	2007	220	2115	84.8	62	2.32	3.329	25.76	12.73
111	2007	220	2130	84.4	62.8	2.298	3.396	22.29	12.73
111	2007	220	2145	84	64.37	2.324	6.407	23.51	12.73
111	2007	220	2200	83.6	64.14	1.881	1.531	26.4	12.72
111	2007	220	2215	83.5	61.5	2.57	13.26	28.58	12.72
111	2007	220	2230	83.6	60.63	2.58	10.41	26.77	12.72
111	2007	220	2245	83.1	60.4	2.29	357.8	27.52	12.72
111	2007	220	2300	82.8	59.97	2.32	8.35	28.57	12.72
111	2007	220	2315	82.5	58.97	3.96	21.17	24.26	12.71
111	2007	220	2330	82.4	56.99	3.191	16.45	43.26	12.71
111	2007	220	2345	82.2	54.65	3.763	33.99	22.06	12.71
111	2007	220	2400	81.6	56.39	3.759	27.72	22.33	12.71
111	2007	221	15	80.8	57.6	2.429	27.82	31.04	12.71
111	2007	221	30	79.9	59.44	2.391	16.28	20.16	12.71
111	2007	221	45	79.2	57.51	4.071	32.82	19.29	12.7
111	2007	221	100	79	58.51	2.949	19.01	28.77	12.68
111	2007	221	115	78	61.68	1.197	334.2	20.8	12.69
111	2007	221	130	75.9	67.64	1.524	330	15.43	12.69
111	2007	221	145	74.8	72.7	0.886	330.3	20.84	12.69
111	2007	221	200	73.2	76.9	1.117	293.9	29.62	12.69
111	2007	221	215	72.4	74.5	1.174	13.52	24.73	12.69
111	2007	221	230	73	71.8	1.799	7.99	22.89	12.69
111	2007	221	245	72.6	72.7	0.619	357.6	31.42	12.69
111	2007	221	300	72.2	74.6	0.451	285.4	13.6	12.68
111	2007	221	315	71	77.4	0.349	252.7	9.68	12.68
111	2007	221	330	70.4	79.9	1.244	22.66	28.06	12.68
111	2007	221	345	70.5	79.4	1.046	30.6	34.64	12.68
111	2007	221	400	70.6	80.1	0.511	219.6	18.74	12.68
111	2007	221	415	69.87	82.3	0.368	302.3	3.477	12.69
111	2007	221	430	69.58	81.5	0.58	49.33	4.596	12.69
111	2007	221	445	69.34	82.6	0.352	300.1	3.681	12.72
111	2007	221	500	68.88	83.8	0.607	353.7	17.81	12.75
111	2007	221	515	69.41	79.8	1.509	43.57	19.08	12.76
111	2007	221	530	70.6	75.7	1.21	88.1	34.8	12.81
111	2007	221	545	71.8	72.2	2.357	79.6	30.79	12.81
111	2007	221	600	72.7	71.5	3.386	81.8	30.25	12.83
111	2007	221	615	72.9	72.4	2.896	90.4	42.57	12.92
111	2007	221	630	73	72.9	3.412	95.7	28.95	13.07
111	2007	221	645	73.1	73.2	3.539	107.9	36.51	13.21
111	2007	221	700	73.4	73.2	3.297	109.7	26.31	13.22
111	2007	221	715	73.9	72.7	3.581	113.3	31.03	13.22
111	2007	221	730	74.2	71.4	3.974	115.5	29.69	13.22
111	2007	221	745	74.3	69.51	5.691	121.7	24.33	13.21
111	2007	221	800	74.9	67.6	5.393	124.7	31.08	13.21
111	2007	221	815	75.1	67.7	5.671	131	22.97	13.21
111	2007	221	830	75	63.86	6.869	131	22.71	13.21
111	2007	221	845	75.2	58.94	6.765	135.1	29.2	13.21
111	2007	221	900	75.6	55.93	6.394	125.8	26.33	13.22
111	2007	221	915	75.6	56.67	6.323	144.3	27.96	13.22
111	2007	221	930	75.7	53.63	6.374	142.7	25.94	13.22

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	221	945	75.7	54.63	7.02	134.7	26.62	13.22
111	2007	221	1000	76	51.42	5.977	123.7	27.44	13.22
111	2007	221	1015	76.6	51.42	5.161	103.9	28.42	13.22
111	2007	221	1030	76.9	51.05	4.903	114.3	37.46	13.23
111	2007	221	1045	77.1	48.01	6.094	141.3	32.18	13.23
111	2007	221	1100	77.4	46.83	6.753	154	27.93	13.22
111	2007	221	1115	77.6	47.64	6.142	139.9	27.76	13.2
111	2007	221	1130	77.5	45.93	5.759	134.8	38.45	13.22
111	2007	221	1145	78	45.13	6.233	161.5	36.93	13.22
111	2007	221	1200	78.3	55.32	5.387	159.7	39.39	13.22
111	2007	221	1215	75.7	58.67	8.74	201.1	23.73	13.22
111	2007	221	1230	74.8	59.44	8.65	191	22.44	13.22
111	2007	221	1245	75.1	56.3	8.31	184.4	23.97	13.22
111	2007	221	1300	74.8	56.44	8.24	191.9	21.11	13.22
111	2007	221	1315	74.6	57.24	7.94	194.3	27.04	13.22
111	2007	221	1330	74.1	60.68	9.34	186.9	24.36	13.22
111	2007	221	1345	74.2	59.68	9.04	197.7	19.39	13.22
111	2007	221	1400	74.3	61.02	8.73	193.4	22.16	13.22
111	2007	221	1415	74	58.61	7.92	192.5	24.55	13.22
111	2007	221	1430	74.3	58.71	8.18	193.1	21.81	13.2
111	2007	221	1445	74.4	62.19	8.36	189.3	22.04	13.22
111	2007	221	1500	74.1	64.39	8.32	198.8	23.08	13.22
111	2007	221	1515	74.2	63.32	8.34	194	23.58	13.23
111	2007	221	1530	73.9	65.6	8.65	194.3	22.26	13.24
111	2007	221	1545	73.6	64.36	8.85	189	20.47	13.13
111	2007	221	1600	73.8	62.15	7.71	186.2	22.23	13.2
111	2007	221	1615	74.2	62.25	7.02	189.8	24.73	12.97
111	2007	221	1630	73.9	63.42	6.847	195.8	34.68	12.9
111	2007	221	1645	73.6	64.39	6.346	196.8	27.68	12.87
111	2007	221	1700	73	64.99	6.871	191.4	22.99	12.85
111	2007	221	1715	72.6	66.06	5.882	185.1	22.45	12.83
111	2007	221	1730	72.2	69.58	6.178	193	29.52	12.81
111	2007	221	1745	71.6	70.4	6.869	191.3	26.56	12.81
111	2007	221	1800	71.6	69.99	6.184	193.7	20.32	12.79
111	2007	221	1815	71.3	71.8	6.956	192.9	20.76	12.79
111	2007	221	1830	71.3	70.4	5.578	192.5	21.83	12.78
111	2007	221	1845	71.1	71.9	5.808	196.9	23.39	12.77
111	2007	221	1900	70.9	71.6	5.634	192.3	24.03	12.77
111	2007	221	1915	70.7	71.4	5.92	181.7	24.72	12.76
111	2007	221	1930	70.6	72.9	5.417	187.5	21.99	12.75
111	2007	221	1945	70.3	73.3	3.95	215.7	31.99	12.75
111	2007	221	2000	70.2	73.1	4.321	212.1	30.44	12.75
111	2007	221	2015	70.2	71.3	4.305	200.5	27.49	12.74
111	2007	221	2030	70.3	72.1	4.816	195.9	21.29	12.74
111	2007	221	2045	70.3	72.4	5.147	192.4	21.65	12.73
111	2007	221	2100	70.2	72.5	4.766	191.7	19	12.73
111	2007	221	2115	70.4	71.5	4.363	197.8	25.14	12.73
111	2007	221	2130	70.3	70.9	4.317	209	32.78	12.73
111	2007	221	2145	70.1	71.7	3.795	232.8	32.66	12.73
111	2007	221	2200	69.97	72.2	3.845	232.6	31.38	12.72
111	2007	221	2215	69.93	72.2	4.089	225.9	25.58	12.72
111	2007	221	2230	69.99	71.7	4.023	222.1	33.02	12.71
111	2007	221	2245	69.97	72.3	3.72	221.5	29.8	12.71
111	2007	221	2300	69.93	73	4.305	230.2	33.95	12.71
111	2007	221	2315	69.99	72.2	4.371	220.9	28.98	12.71
111	2007	221	2330	70.1	73.1	3.874	224.4	26.41	12.71
111	2007	221	2345	70	72.6	4.095	205.4	33.95	12.71
111	2007	221	2400	70.3	72.4	5.09	195.9	19.63	12.7
111	2007	222	15	70.4	71.9	4.152	201	24.34	12.7
111	2007	222	30	70.6	71.8	3.374	200.7	26.7	12.7

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	222	45	70.6	72	4.125	203.5	25.62	12.69
111	2007	222	100	70.6	72.2	5.705	192.5	18.46	12.69
111	2007	222	115	70.6	72.1	5.161	192.3	18.19	12.69
111	2007	222	130	70.6	72.4	6.114	197.5	18.32	12.69
111	2007	222	145	70.6	72.9	5.221	197.9	21.18	12.69
111	2007	222	200	70.6	72.7	5.127	199	29.95	12.69
111	2007	222	215	70.5	72.8	5.207	201.1	25.46	12.69
111	2007	222	230	70.5	73	4.555	202.8	22.06	12.69
111	2007	222	245	70.5	73.4	4.345	195.2	23.19	12.69
111	2007	222	300	70.4	73.7	5.137	195.7	21.68	12.69
111	2007	222	315	70.3	74.5	4.424	195.2	24.21	12.69
111	2007	222	330	70.3	74.3	4.8	189.6	17.33	12.69
111	2007	222	345	70.4	74	5.534	193.2	20.12	12.68
111	2007	222	400	70.5	74.8	6.442	195.9	19.9	12.68
111	2007	222	415	70.4	74.9	6.329	192.5	17.76	12.67
111	2007	222	430	70.4	74	6.452	183.7	23.9	12.67
111	2007	222	445	70.4	74.5	5.878	181.5	17.98	12.67
111	2007	222	500	70.2	75.3	5.562	168.9	21.4	12.67
111	2007	222	515	70.1	75.7	6.257	167.6	19.61	12.71
111	2007	222	530	69.9	76	6.614	165.2	21.3	12.78
111	2007	222	545	69.92	76.9	5.767	171.3	20.95	12.95
111	2007	222	600	69.87	76.4	6.742	171.6	18.8	13.15
111	2007	222	615	69.8	78	6.466	172.5	19.52	13.15
111	2007	222	630	69.67	80	6.501	178.4	20.34	13.2
111	2007	222	645	68.75	85.6	6.726	175.9	22.44	13.3
111	2007	222	700	67.77	87.8	6.789	178.7	21.3	13.29
111	2007	222	715	67.62	88.6	5.759	171.5	22.03	13.27
111	2007	222	730	67.62	89.4	6.231	178.2	22.38	13.27
111	2007	222	745	67.66	89.5	7.09	171.4	19.71	13.27
111	2007	222	800	67.7	89.7	6.468	175.7	19.69	13.26
111	2007	222	815	67.54	90.2	7.27	171	22.37	13.26
111	2007	222	830	67.31	89.6	7.61	168.6	18.79	13.25
111	2007	222	845	67.34	89.4	7.3	174	20.34	13.24
111	2007	222	900	66.97	90.5	8	177.1	20.02	13.24
111	2007	222	915	66.57	91.1	7.6	170.7	21.6	13.24
111	2007	222	930	66.31	91.6	7.12	164.4	20.01	13.24
111	2007	222	945	66.1	92	7.19	162.7	21.01	13.24
111	2007	222	1000	66.12	92.2	6.581	152.2	20.64	13.23
111	2007	222	1015	66.01	92.2	7.25	153.8	21.91	13.23
111	2007	222	1030	65.62	91.4	8.35	156.4	22.46	13.23
111	2007	222	1045	64.32	91.7	6.652	135.4	22.19	13.23
111	2007	222	1100	63.61	91.7	6.69	139.4	25.76	13.22
111	2007	222	1115	63.85	92.2	6.998	151.6	21.31	13.23
111	2007	222	1130	64.13	92.6	6.553	140.7	23.49	13.23
111	2007	222	1145	64.57	92.4	7.96	152.3	16.58	13.23
111	2007	222	1200	64.75	92.4	6.974	144.5	23.67	13.24
111	2007	222	1215	64.64	92.4	7.77	137.2	25.47	13.24
111	2007	222	1230	64.12	92.5	7.64	138.2	26.04	13.23
111	2007	222	1245	63.95	92.6	7.04	131.4	24.71	13.23
111	2007	222	1300	63.88	92.8	6.436	133.5	25.89	13.23
111	2007	222	1315	63.82	92.9	7.23	137.9	26.44	13.23
111	2007	222	1330	63.9	92.7	7.33	139	25.58	13.23
111	2007	222	1345	63.53	92.1	7.83	130.1	26.61	13.23
111	2007	222	1400	62.86	92.4	7.97	135.3	26.13	13.23
111	2007	222	1415	62.77	91.8	7.64	136.1	27.42	13.23
111	2007	222	1430	62.01	91.7	9.29	134	21.03	13.24
111	2007	222	1445	61.54	91.5	7.45	130	30	13.24
111	2007	222	1500	61.14	91.2	6.678	119	30.6	13.24
111	2007	222	1515	60.22	91.8	6.988	120.3	31.16	13.24
111	2007	222	1530	59.77	92.7	6.366	119.5	26.6	13.24

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	222	1545	59.88	92.2	6.509	121.6	26.44	13.24
111	2007	222	1600	60	92.5	6.342	113.1	25.87	13.25
111	2007	222	1615	60.18	92	6.44	122.8	29.93	13.06
111	2007	222	1630	60.13	91.9	5.35	104.3	35.32	13
111	2007	222	1645	60.15	91.5	6.188	125.9	35.74	12.97
111	2007	222	1700	60.1	91.5	5.215	97.6	37.03	12.95
111	2007	222	1715	59.99	91.3	6.507	119.2	31.28	12.94
111	2007	222	1730	59.89	91.4	6.112	120.5	25.42	12.93
111	2007	222	1745	59.95	90.9	5.663	116.6	26.35	12.92
111	2007	222	1800	59.66	90.1	6.644	119.5	34.22	12.91
111	2007	222	1815	59.51	90.6	5.749	118.8	27.43	12.9
111	2007	222	1830	59.42	91.3	6.114	119	33.93	12.9
111	2007	222	1845	59.04	92.1	5.209	112.2	25.35	12.89
111	2007	222	1900	58.69	92.5	4.353	103.7	32.74	12.89
111	2007	222	1915	58.62	92.4	5	104.4	29.32	12.88
111	2007	222	1930	58.48	92.6	4.49	103.3	34.37	12.87
111	2007	222	1945	58.52	92.7	4.675	116.1	27.8	12.87
111	2007	222	2000	58.57	92.4	5.373	113.7	25.43	12.87
111	2007	222	2015	58.65	92	5.57	124.5	25.36	12.86
111	2007	222	2030	58.57	92.2	4.45	120.9	26.07	12.85
111	2007	222	2045	58.59	92.9	4.063	124.7	27.38	12.85
111	2007	222	2100	58.67	93.1	4.226	112.4	30.63	12.85
111	2007	222	2115	58.67	93.2	3.588	104.6	38.03	12.84
111	2007	222	2130	58.75	93	3.434	96	32.19	12.83
111	2007	222	2145	58.65	93	5.028	97.1	26.28	12.83
111	2007	222	2200	58.6	93.1	4.218	94.1	27.74	12.83
111	2007	222	2215	58.52	93.1	3.944	86.1	36.25	12.82
111	2007	222	2230	58.36	93.4	4.103	87.9	36.41	12.82
111	2007	222	2245	58.26	93.5	3.862	91.7	34.4	12.82
111	2007	222	2300	58.21	93.8	4.424	84.2	30.85	12.81
111	2007	222	2315	58.09	93.5	4.953	94.6	38.82	12.81
111	2007	222	2330	57.97	93.5	4.053	91	31.49	12.81
111	2007	222	2345	57.83	93.6	3.958	93.1	33.96	12.81
111	2007	222	2400	57.7	93.6	3.908	85.3	35.71	12.8
111	2007	223	15	57.6	93.7	4.549	87.4	29.75	12.79
111	2007	223	30	57.65	93.6	3.549	95.3	37.19	12.79
111	2007	223	45	57.77	93.6	3.358	89.7	41.13	12.79
111	2007	223	100	57.85	93.7	3.491	86.3	34.26	12.79
111	2007	223	115	57.91	93.7	4.075	83.7	30.15	12.78
111	2007	223	130	58	93.4	3.751	88.6	27.12	12.78
111	2007	223	145	58.1	93.3	3.203	93.1	31.71	12.78
111	2007	223	200	58.07	93.1	3.888	91.5	29.2	12.78
111	2007	223	215	58.03	92.8	4.101	96	30.45	12.77
111	2007	223	230	57.92	92.6	3.944	96.2	27.81	12.77
111	2007	223	245	57.91	92.5	2.901	93.9	44.11	12.77
111	2007	223	300	57.89	92.4	3.332	90.6	33.29	12.76
111	2007	223	315	57.91	92.3	3.203	82.5	36.65	12.76
111	2007	223	330	57.95	92.4	2.276	74.8	30.08	12.76
111	2007	223	345	58.02	92.1	2.707	72.4	36.74	12.76
111	2007	223	400	58.12	91.8	2.243	71.1	34.25	12.76
111	2007	223	415	58.19	91.6	2.407	69.17	37.63	12.77
111	2007	223	430	58.25	91.2	2.761	79	31.12	12.79
111	2007	223	445	58.25	90.8	2.943	70.2	32.47	12.81
111	2007	223	500	58.19	90.2	2.874	72.9	35.49	12.84
111	2007	223	515	58.18	89.7	2.432	73.9	29.4	12.87
111	2007	223	530	58.19	89	2.838	68.55	34.76	12.89
111	2007	223	545	58.16	87.9	2.604	67.85	35.96	12.92
111	2007	223	600	58.09	86.9	3.531	63.77	30.45	12.99
111	2007	223	615	57.86	87	2.643	80.2	37.23	13.19
111	2007	223	630	57.89	87.2	2.318	67.53	35.39	13.31

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	223	645	58.37	86.6	1.878	59.76	39.91	13.31
111	2007	223	700	59.08	83	2.778	86.8	31.79	13.3
111	2007	223	715	59.54	80.5	3.237	74.6	34.03	13.3
111	2007	223	730	59.8	78.6	3.739	76.7	32.81	13.3
111	2007	223	745	60.48	77.3	3.025	72	42.71	13.29
111	2007	223	800	61.49	75.3	3.622	82.6	36.7	13.28
111	2007	223	815	62.33	73.8	3.918	93	36.88	13.28
111	2007	223	830	63.18	69.38	4.017	88.4	42.21	13.28
111	2007	223	845	63.26	67.3	5.542	101.1	31.19	13.28
111	2007	223	900	63.77	65.46	5.477	100	27.46	13.28
111	2007	223	915	64.39	61.11	5.115	91.3	31.59	13.28
111	2007	223	930	65.04	58.9	5.268	67.77	27.54	13.29
111	2007	223	945	65.78	55.99	5.558	72.6	33.86	13.28
111	2007	223	1000	66.43	56.66	5.518	82	32.5	13.28
111	2007	223	1015	67.14	52.64	5.449	99.6	37.45	13.28
111	2007	223	1030	68.17	53.14	4.174	82.9	35.07	13.28
111	2007	223	1045	68.85	53.91	4.224	78.4	36.1	13.27
111	2007	223	1100	69.23	54.71	4.43	76.1	39.25	13.27
111	2007	223	1115	69.78	54.34	5.097	104.2	33.75	13.27
111	2007	223	1130	70.7	50.92	4.692	94	44.39	13.26
111	2007	223	1145	71.4	50.55	4.327	66.79	38.39	13.26
111	2007	223	1200	71.9	48.35	4.164	84.9	40.33	13.26
111	2007	223	1215	71.7	48.41	4.625	83.7	43.91	13.26
111	2007	223	1230	72.1	46.47	4.442	52.54	39.42	13.26
111	2007	223	1245	72.9	43.03	5.475	79.8	41.04	13.27
111	2007	223	1300	73.8	42.03	4.321	112.7	37.11	13.27
111	2007	223	1315	74.4	38.35	4.542	73.3	41.52	13.28
111	2007	223	1330	74.6	38.95	4.563	84.4	40.34	13.28
111	2007	223	1345	75.2	36.34	4.601	49.84	39.15	13.28
111	2007	223	1400	76.1	31.23	4.544	48.61	49.13	13.28
111	2007	223	1415	76.8	30.05	4.329	86.9	46.68	13.28
111	2007	223	1430	77.1	31.09	4.293	78.5	39.46	13.28
111	2007	223	1445	77.7	30.11	3.118	78.3	70.4	13.28
111	2007	223	1500	78.1	27.84	4.216	81.1	49.26	13.29
111	2007	223	1515	78.3	27.71	3.988	45.48	49.56	13.3
111	2007	223	1530	78	31.78	3.898	34.52	74.5	13.31
111	2007	223	1545	79.2	33.56	3.003	345.1	97.7	13.29
111	2007	223	1600	77.3	48.16	4.067	258.7	33.89	13.13
111	2007	223	1615	76.2	49.8	4.22	285	31.8	13.03
111	2007	223	1630	76.3	48.7	3.725	282.7	33.92	12.99
111	2007	223	1645	76.1	49.5	4.148	275.7	35.29	12.95
111	2007	223	1700	75.6	51.07	4.347	286.8	32.54	12.93
111	2007	223	1715	75.3	54.45	4.049	267.6	37.62	12.91
111	2007	223	1730	75.4	52.11	4.96	297.6	28.64	12.9
111	2007	223	1745	75.3	48.53	4.224	284.6	32.3	12.89
111	2007	223	1800	75.2	51.97	4.706	291.3	31.69	12.89
111	2007	223	1815	74.7	51.31	5.495	315.1	17.8	12.87
111	2007	223	1830	74.4	51.38	5.012	305.2	18.07	12.87
111	2007	223	1845	74	53.58	5.058	304.8	22.22	12.86
111	2007	223	1900	73.4	55.49	5.25	312.3	13.97	12.86
111	2007	223	1915	73.1	56.57	4.273	312.2	24.22	12.85
111	2007	223	1930	72.3	59.95	3.571	311.1	18.73	12.85
111	2007	223	1945	71.2	59.41	4.381	313.2	14.48	12.85
111	2007	223	2000	70.6	61.22	3.68	316	15.35	12.84
111	2007	223	2015	69.86	63.43	2.774	307.3	13.59	12.83
111	2007	223	2030	69.61	64.67	3.565	324.6	14.71	12.83
111	2007	223	2045	69.56	65.42	3.497	328.7	12.15	12.83
111	2007	223	2100	69.23	65.22	2.181	354.7	27.98	12.83
111	2007	223	2115	68.47	66.89	2.131	331.8	34.7	12.83
111	2007	223	2130	67.69	70.4	1.464	306.7	31.69	12.82

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	223	2145	67.72	69.8	2.546	341.5	15.86	12.82
111	2007	223	2200	67.77	70.5	2.512	316.6	13.82	12.81
111	2007	223	2215	67.35	72	0.581	289.9	13.45	12.81
111	2007	223	2230	66.75	76.4	0.197	312.4	6.563	12.81
111	2007	223	2245	66.3	78.1	1.329	342.7	18.58	12.81
111	2007	223	2300	66.08	78.9	1.744	306.6	18.67	12.81
111	2007	223	2315	66.34	79	1.778	342.2	25.62	12.81
111	2007	223	2330	66.62	80.1	1.416	333.3	17.88	12.8
111	2007	223	2345	66.06	81.9	1.325	324	20.54	12.8
111	2007	223	2400	65.58	82.7	0.752	307.8	8.13	12.8
111	2007	224	15	65.21	83.9	1.039	301.1	25.97	12.8
111	2007	224	30	65.09	84.3	0.623	297.9	8.62	12.8
111	2007	224	45	64.77	85.9	0.395	327	6.122	12.79
111	2007	224	100	64.6	86.9	0.278	332.4	6.042	12.79
111	2007	224	115	64.61	87.4	1.103	324.6	10.19	12.79
111	2007	224	130	64.48	88.2	0.157	356.6	12.13	12.79
111	2007	224	145	64.69	88.6	0.838	356.2	13.39	12.79
111	2007	224	200	65.54	86.9	1.829	7.52	17.73	12.78
111	2007	224	215	66.15	85.7	2.296	1.209	16.17	12.79
111	2007	224	230	66.04	86	1.633	1.26	16.46	12.79
111	2007	224	245	65.85	85.3	2.33	6.318	23.84	12.79
111	2007	224	300	65.92	84.1	2.618	3.706	21.89	12.79
111	2007	224	315	65.92	83.9	2.073	356.6	21.57	12.78
111	2007	224	330	65.74	83.3	1.996	1.417	15.48	12.78
111	2007	224	345	65.54	83.8	1.081	3.44	20.02	12.78
111	2007	224	400	65.1	84.9	0.518	22.12	23.02	12.78
111	2007	224	415	64.56	86.3	0.031	5.97	0.821	12.79
111	2007	224	430	63.95	87.5	na	na	na	12.81
111	2007	224	445	63.45	88.4	na	na	na	12.84
111	2007	224	500	63.11	89.5	na	na	na	12.87
111	2007	224	515	63.07	89.9	0.096	261.4	1.969	12.94
111	2007	224	530	63.46	90	0.654	312.5	14.65	12.99
111	2007	224	545	64	89.3	0.728	340.2	6.773	13.06
111	2007	224	600	64.31	89	0.409	291.9	31.66	13.17
111	2007	224	615	64.09	89.2	0.072	246.8	17.61	13.34
111	2007	224	630	63.78	89.9	na	na	na	13.33
111	2007	224	645	64.42	89.7	na	na	na	13.33
111	2007	224	700	65.66	88.1	na	na	na	13.32
111	2007	224	715	67.74	81.8	0.533	145.1	28.01	13.32
111	2007	224	730	69.74	76.6	2.064	172.6	28.7	13.31
111	2007	224	745	70.5	75.2	2.463	146.5	25.56	13.3
111	2007	224	800	72.1	72.2	2.203	150.6	33.59	13.3
111	2007	224	815	73.6	67.29	1.687	132.7	41.13	13.31
111	2007	224	830	74.8	67.15	2.273	149.4	32.02	13.31
111	2007	224	845	77	60.25	0.648	196.7	62.67	13.31
111	2007	224	900	77.8	60.92	1.211	349.5	46.95	13.31
111	2007	224	915	78.8	57.51	1.458	58.18	65.78	13.31
111	2007	224	930	79.2	57.67	1.623	9.79	57.29	13.31
111	2007	224	945	80.3	55.02	1.738	271.8	40.99	13.31
111	2007	224	1000	80.2	60.86	2.653	262	41.35	13.31
111	2007	224	1015	80	59.66	2.56	245.4	30.75	13.3
111	2007	224	1030	80.4	56.95	3.583	240.2	34.01	13.3
111	2007	224	1045	80.3	55.91	3.35	285.3	33.59	13.3
111	2007	224	1100	80.9	57.38	3.914	248	38.96	13.29
111	2007	224	1115	80.2	60.49	4.462	256.2	33.58	13.29
111	2007	224	1130	80.7	56.78	3.573	262.6	46.52	13.29
111	2007	224	1145	80.7	59.86	4.226	256.5	39.37	13.29
111	2007	224	1200	80.2	58.46	4.623	280.1	38.03	13.29
111	2007	224	1215	80.2	55.45	4.776	244.3	35.91	13.3
111	2007	224	1230	79.8	56.78	5.536	261.7	36.91	13.3

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	224	1245	79.8	54.68	5.209	254.4	44.91	13.3
111	2007	224	1300	79.8	55.58	4.978	269.5	45.24	13.3
111	2007	224	1315	80.3	57.29	5.066	274.1	35.85	13.3
111	2007	224	1330	79.7	56.18	6.644	300.3	32.08	13.31
111	2007	224	1345	79.6	55.72	5.568	283.5	38.8	13.31
111	2007	224	1400	79.9	52.14	5.62	282.4	38.36	13.31
111	2007	224	1415	80	51.3	5.248	273.2	35.08	13.31
111	2007	224	1430	80.2	55.21	5.211	281.1	37.5	13.31
111	2007	224	1445	80.1	52.84	5.594	299.1	30.88	13.32
111	2007	224	1500	80	53.11	4.889	280	34.29	13.27
111	2007	224	1515	80.4	51.14	5.653	294.7	27.69	13.25
111	2007	224	1530	81.1	50.4	5.016	290.8	37.91	13.31
111	2007	224	1545	81.3	47.76	5.068	290	38.22	13.28
111	2007	224	1600	81	48.3	5.103	290.6	26.94	13.14
111	2007	224	1615	81.5	47.56	4.405	291.4	38.22	13.05
111	2007	224	1630	81.8	45.55	4.619	289.1	37.92	12.99
111	2007	224	1645	81.4	46.69	4.792	281.1	33.72	12.96
111	2007	224	1700	81.5	49.7	4.82	282.9	34.54	12.94
111	2007	224	1715	81.6	47.83	4.214	284.6	29.11	12.93
111	2007	224	1730	81.5	48.29	4.047	272.8	36.72	12.91
111	2007	224	1745	81	49.63	3.799	260.9	35.49	12.91
111	2007	224	1800	80.9	50.47	3.386	291.4	33.86	12.89
111	2007	224	1815	80.5	51.34	3.553	264.1	36.68	12.89
111	2007	224	1830	79.9	56.38	4.025	276.6	28.94	12.89
111	2007	224	1845	78.8	62.3	3.88	286.9	31.43	12.88
111	2007	224	1900	77.4	69.92	4.387	300.1	28.96	12.87
111	2007	224	1915	76.5	72.8	3.493	297.7	28.14	12.87
111	2007	224	1930	75.5	77.4	4.371	291.9	31.21	12.87
111	2007	224	1945	74.6	77.7	2.78	295.5	22.76	12.87
111	2007	224	2000	74.1	77.5	2.582	300.6	21.4	12.87
111	2007	224	2015	73.8	77.1	3.005	305.5	20.51	12.86
111	2007	224	2030	73.5	77.8	2.242	292.7	24.73	12.86
111	2007	224	2045	73.1	79.3	1.624	291.5	17.67	12.86
111	2007	224	2100	72.7	81.2	1.631	295.4	19.16	12.85
111	2007	224	2115	72.5	81	2	293.2	21.54	12.85
111	2007	224	2130	72.4	81.6	1.64	303	20.98	12.85
111	2007	224	2145	72.2	82.1	1.578	295	20.2	12.85
111	2007	224	2200	71.9	82.4	1.401	288.4	26.88	12.85
111	2007	224	2215	71.9	82.5	1.046	286.1	14.1	12.84
111	2007	224	2230	71.5	83.9	1.051	288.6	22.32	12.84
111	2007	224	2245	71.3	83.7	1.144	267.7	21.4	12.84
111	2007	224	2300	71.3	82.3	0.965	277	23.29	12.83
111	2007	224	2315	71.5	80.6	1.413	268.9	29.32	12.83
111	2007	224	2330	71.6	79.8	1.28	288.2	23.76	12.83
111	2007	224	2345	71.7	80	1.628	281.7	29.51	12.83
111	2007	224	2400	71.7	81	1.903	291.2	26.06	12.83
111	2007	225	15	71.9	82.9	2.834	295.5	29.04	12.83
111	2007	225	30	72.1	83.9	3.078	303.2	24.73	12.83
111	2007	225	45	72.1	85.3	2.816	307.1	24.22	12.83
111	2007	225	100	71.9	86.2	1.837	291.9	23.19	12.82
111	2007	225	115	71.8	86	3.507	313.7	23.32	12.82
111	2007	225	130	72.1	84.3	3.976	317.9	18.35	12.82
111	2007	225	145	72	82.8	3.571	316.7	13.7	12.81
111	2007	225	200	72.1	80.6	3.789	316.6	17.42	12.81
111	2007	225	215	72.1	79.2	4.033	319.8	12.76	12.81
111	2007	225	230	72	78.8	3.189	315.1	14.08	12.81
111	2007	225	245	71.8	77.5	3.69	317.3	13.25	12.81
111	2007	225	300	71.6	76.9	3.019	312.7	16.45	12.81
111	2007	225	315	71.4	77.2	2.816	312.7	14.83	12.81
111	2007	225	330	71.4	77.7	2.864	320	13.19	12.81

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	225	345	71.2	77.7	2.759	315.4	14.08	12.8
111	2007	225	400	71.3	77.5	3.156	316.4	13.07	12.81
111	2007	225	415	71.6	76.2	3.356	316.6	13.68	12.81
111	2007	225	430	71.8	76.1	3.249	318.1	17.71	12.87
111	2007	225	445	72	75.7	3.642	318.5	15.48	12.99
111	2007	225	500	72.2	75.4	4.472	316.5	13.84	12.93
111	2007	225	515	72.3	75.1	4.536	319.6	15.35	12.88
111	2007	225	530	72.2	75.5	4.212	320.8	15.42	12.95
111	2007	225	545	72.2	75.6	3.523	316.8	13.82	13.33
111	2007	225	600	72.3	75.2	3.43	346.6	20.81	13.36
111	2007	225	615	72.3	75.1	3.092	356.5	23.59	13.37
111	2007	225	630	72.5	74.6	5.054	3.788	25.32	13.36
111	2007	225	645	71	83.9	4.472	6.958	23.45	13.36
111	2007	225	700	69.28	87.6	3.708	19.62	31.23	13.35
111	2007	225	715	69.21	88.2	2.121	339.9	40.83	13.35
111	2007	225	730	69.12	88.8	1.858	49.24	78.3	13.34
111	2007	225	745	69.75	88.2	2.637	112	20.68	13.33
111	2007	225	800	70	87.5	2.874	111.1	28.1	13.33
111	2007	225	815	70.2	88.4	2.421	12.27	65.99	13.32
111	2007	225	830	69.76	90.6	2.824	286.2	38.63	13.33
111	2007	225	845	69.78	90.5	4.178	319.9	14.2	13.32
111	2007	225	900	70.4	89.1	4.015	322.5	13.49	13.33
111	2007	225	915	71.2	87.3	3.831	331.2	16.33	13.33
111	2007	225	930	71.7	86	3.485	335.5	16.29	13.34
111	2007	225	945	72.4	84.3	3.31	0.079	26.67	13.33
111	2007	225	1000	73.4	77.6	3.34	3.399	27.53	13.33
111	2007	225	1015	74.9	73.9	3.735	19.07	44.44	13.33
111	2007	225	1030	76.3	68.34	3.974	25.64	39.55	13.33
111	2007	225	1045	76.9	67.5	4.385	36.72	31.21	13.33
111	2007	225	1100	77.2	66.02	3.811	39.81	36.8	13.3
111	2007	225	1115	77.9	61.51	4.25	55.25	35.37	13.3
111	2007	225	1130	78.8	61	3.998	33.97	37.49	13.15
111	2007	225	1145	79.4	59.03	3.67	35.14	46.43	13.13
111	2007	225	1200	79.8	60.73	4.059	29.41	57.03	13.17
111	2007	225	1215	79.3	60.29	3.517	22.34	47.37	13.35
111	2007	225	1230	80.1	56.92	3.791	20.95	47.8	13.35
111	2007	225	1245	80.1	55.82	5.445	8.35	25.29	13.34
111	2007	225	1300	80.4	53.04	4.792	15.79	31.94	13.33
111	2007	225	1315	82.1	54.38	4.329	30.63	43.43	13.31
111	2007	225	1330	81.3	54.95	5.618	355.1	31.12	13.29
111	2007	225	1345	81.9	51.64	4.478	23.89	43.27	13.3
111	2007	225	1400	81.8	50.53	4.148	10.3	35.92	13.3
111	2007	225	1415	82.1	52.77	4.426	19.5	41.31	13.3
111	2007	225	1430	82.2	50.5	3.918	55.11	40.72	13.3
111	2007	225	1445	81.9	61.5	3.723	351.7	46.5	13.3
111	2007	225	1500	80.3	64.61	4.301	309.1	34.64	13.3
111	2007	225	1515	79.8	64.1	5.655	297.4	28.58	13.3
111	2007	225	1530	80.8	64.1	5.691	285.5	31.9	13.31
111	2007	225	1545	81.1	61.9	5.842	305.3	28.88	13.32
111	2007	225	1600	80.3	61.97	6.338	309.9	19.19	13.15
111	2007	225	1615	81.5	60.59	4.855	301.8	32.86	13.05
111	2007	225	1630	81	62.47	5.616	303.5	26.71	13
111	2007	225	1645	81	60.16	4.071	284.9	34.5	12.97
111	2007	225	1700	81.8	61.16	3.896	284.4	28.43	12.94
111	2007	225	1715	82	59.93	3.936	285.4	32.01	12.93
111	2007	225	1730	82	63.2	3.773	288	29.66	12.91
111	2007	225	1745	81.6	61.56	4.065	284.5	34.79	12.9
111	2007	225	1800	81.5	62.6	3.654	290.2	28.98	12.89
111	2007	225	1815	81.6	62.3	3.571	311.1	24.3	12.89
111	2007	225	1830	82	50.2	3.126	325.5	23.39	12.88

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	225	1845	83	47.56	3.166	4.007	23.73	12.88
111	2007	225	1900	82.6	48.36	4.083	5.404	20.97	12.87
111	2007	225	1915	82	49.63	4.285	0.111	21.9	12.87
111	2007	225	1930	81.2	51.44	4.279	357.3	21.02	12.87
111	2007	225	1945	80.4	52.68	3.189	0.383	23.51	12.87
111	2007	225	2000	79.9	52.88	3.396	354.6	23.26	12.87
111	2007	225	2015	79.5	52.65	3.924	3.157	22.89	12.87
111	2007	225	2030	79.2	52.42	3.954	8.38	24.96	12.87
111	2007	225	2045	78.9	53.46	3.761	0.826	23.57	12.87
111	2007	225	2100	78.5	54	3.753	8.44	28.14	12.87
111	2007	225	2115	78.5	53.66	5.272	45.28	30.28	12.86
111	2007	225	2130	78.3	52.89	5.294	80.2	37.52	12.86
111	2007	225	2145	77.5	51.76	4.661	83	33.77	12.86
111	2007	225	2200	77.5	51.86	4.603	85.1	37.5	12.85
111	2007	225	2215	77.1	52.32	5.058	78.5	33.18	12.85
111	2007	225	2230	76.6	47.24	5.262	75	32.74	12.85
111	2007	225	2245	76.2	41.66	5.981	74.6	36.39	12.85
111	2007	225	2300	75.5	41.06	4.379	69.49	33.83	12.85
111	2007	225	2315	75.1	41.8	4.685	63.78	27.05	12.85
111	2007	225	2330	74.4	42.8	4.013	51.86	24.67	12.84
111	2007	225	2345	73.8	43.87	4.353	55.52	28.66	12.84
111	2007	225	2400	73.2	44.01	3.839	54.69	24.27	12.83
111	2007	226	15	72.6	45.08	3.271	54.98	34.71	12.83
111	2007	226	30	71.9	46.45	3.086	48.13	40.81	12.83
111	2007	226	45	71.4	46.92	3.521	56.54	25.51	12.83
111	2007	226	100	71.1	47.89	4.412	51.05	28.44	12.82
111	2007	226	115	70.8	47.46	4.921	57.33	34.67	12.82
111	2007	226	130	70.6	48.26	5.407	52.5	28.46	12.82
111	2007	226	145	70.1	49.26	4.671	59.11	31.33	12.81
111	2007	226	200	69.68	50.54	4.555	68.99	29.69	12.81
111	2007	226	215	69.14	51.94	3.859	73.3	23.63	12.81
111	2007	226	230	68.62	53.15	3.62	63.74	26.71	12.8
111	2007	226	245	68.18	55.09	3.263	62.89	33.21	12.81
111	2007	226	300	67.58	56.36	2.941	66.05	29.87	12.8
111	2007	226	315	67.1	57.77	3.056	53.25	25.28	12.8
111	2007	226	330	66.77	58.87	3.086	49.82	29.33	12.8
111	2007	226	345	66.43	60.71	3.471	39.84	22.45	12.8
111	2007	226	400	65.79	62.06	2.606	41.82	27.86	12.8
111	2007	226	415	65.39	62.59	2.346	47.66	28.81	12.8
111	2007	226	430	65.1	63.46	1.982	61.25	32.93	12.8
111	2007	226	445	64.61	65.24	1.419	62.02	33.74	12.83
111	2007	226	500	64.05	67.51	2.681	25.92	20.78	12.87
111	2007	226	515	63.76	65.31	4.025	24.9	19.53	12.86
111	2007	226	530	64.41	65.14	2.757	51.67	25.49	12.89
111	2007	226	545	64.18	66.98	2.945	45.62	27.37	13.16
111	2007	226	600	63.51	68.99	2.103	53.77	44.05	13.35
111	2007	226	615	62.92	70.7	1.049	64.32	38.21	13.33
111	2007	226	630	62.47	72.3	1.561	28.87	27.96	13.3
111	2007	226	645	63.63	66.38	2.481	43.93	31.12	13.3
111	2007	226	700	65.02	65.94	2.578	42.3	28.51	13.29
111	2007	226	715	65.52	65.6	2.798	54.79	29.82	13.28
111	2007	226	730	66.55	64.19	2.828	56.74	28.09	13.27
111	2007	226	745	67.76	60.75	4.109	58.66	25.01	13.26
111	2007	226	800	68.97	58.23	3.72	50.33	33.68	13.26
111	2007	226	815	69.88	57.06	4.752	59.07	31.37	13.26
111	2007	226	830	70.4	55.65	4.843	59.64	29.47	13.26
111	2007	226	845	71.5	55.38	5.094	80.2	33.58	13.25
111	2007	226	900	72.1	53.4	5.092	93.9	28.41	13.25
111	2007	226	915	73	50.36	4.772	87.7	33.88	13.24
111	2007	226	930	73.5	49.32	4.667	80.7	33.42	13.24

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	226	945	73.9	47.58	4.953	95.5	36.54	13.24
111	2007	226	1000	74.4	46.71	4.369	76.5	39.81	13.24
111	2007	226	1015	75.3	42.69	4.365	92	31.53	13.24
111	2007	226	1030	75.5	38.62	5.292	100.8	29.57	13.24
111	2007	226	1045	76.1	36.48	4.46	89	39.29	13.23
111	2007	226	1100	76.8	38.52	4.43	61.74	40.23	13.23
111	2007	226	1115	76.8	35.84	5.175	117.6	31.31	13.24
111	2007	226	1130	76.8	35.54	4.768	98.3	48.09	13.24
111	2007	226	1145	78	32.33	4.133	70.8	41.1	13.25
111	2007	226	1200	78.1	35.34	4.341	106.5	41.94	13.25
111	2007	226	1215	78.5	33.46	4.107	86.3	28.63	13.25
111	2007	226	1230	78.7	31.76	3.364	83.9	62.17	13.25
111	2007	226	1245	78.3	33.09	4.184	33.74	62.32	13.26
111	2007	226	1300	78.9	30.15	4.768	66.34	39.62	13.13
111	2007	226	1315	78.3	31.16	6.158	354.3	38.55	13.04
111	2007	226	1330	78.9	28.28	4.792	34.87	28.91	12.99
111	2007	226	1345	79	28.68	4.736	11.9	43.08	12.95
111	2007	226	1400	79.4	27.94	4.883	30.54	44.18	12.93
111	2007	226	1415	78.9	27.61	5.195	343.4	32.21	12.91
111	2007	226	1430	78.7	31.72	5.546	332.6	33.05	12.91
111	2007	226	1445	78.3	43.45	5.024	324.3	36.52	13.03
111	2007	226	1500	77.5	43.28	5.524	304.7	35.37	13.02
111	2007	226	1515	77.2	37.5	5.097	309.3	28.58	12.95
111	2007	226	1530	77.8	38.07	5.066	299.3	32.59	12.91
111	2007	226	1545	77.4	38.24	6.519	304.7	27.12	12.87
111	2007	226	1600	77.3	40.95	6.485	306	26.74	12.86
111	2007	226	1615	77.4	45.39	5.626	287	29.35	12.85
111	2007	226	1630	77	44.66	5.443	288.5	34.15	12.83
111	2007	226	1645	77.2	45.6	4.677	292.1	33.52	12.83
111	2007	226	1700	77	41.42	5.3	281.6	29.51	12.82
111	2007	226	1715	76.9	42.65	4.544	282.5	34.03	12.82
111	2007	226	1730	76.7	44.39	5.346	298.8	28.63	12.82
111	2007	226	1745	76.6	47.43	4.512	285.5	34.18	12.81
111	2007	226	1800	76.3	48.04	4.117	293.6	24.32	12.81
111	2007	226	1815	76.1	47.67	3.928	299	24.91	12.81
111	2007	226	1830	75.8	50.54	3.505	289.1	29.6	12.8
111	2007	226	1845	74.8	53.89	3.052	294.6	23.39	12.8
111	2007	226	1900	74.2	55.5	2.564	288.1	26.15	12.8
111	2007	226	1915	73.5	58.54	2.618	290	23.98	12.79
111	2007	226	1930	72.7	58.94	2.298	300.9	20.22	12.79
111	2007	226	1945	71.8	60.72	2.405	301.2	15.56	12.8
111	2007	226	2000	71	65.37	2.822	300.9	16.41	12.79
111	2007	226	2015	70.6	66.75	3.366	308	19.96	12.79
111	2007	226	2030	70.4	67.26	3.418	309.5	18.56	12.78
111	2007	226	2045	70.2	68.63	2.322	305.8	18.64	12.77
111	2007	226	2100	69.76	67.76	2.681	305.1	18.1	12.77
111	2007	226	2115	69.91	68.29	3.275	312.2	16.74	12.77
111	2007	226	2130	69.76	69.83	3.632	316.7	12.86	12.76
111	2007	226	2145	69.8	70.4	3.483	306.2	19.48	12.76
111	2007	226	2200	69.63	71.1	2.862	306	16.56	12.76
111	2007	226	2215	69.25	73.2	2.469	303.1	22.33	12.74
111	2007	226	2230	68.94	74	1.811	288.2	24.51	12.74
111	2007	226	2245	68.89	74.1	2.711	303.7	18.36	12.74
111	2007	226	2300	68.98	75.7	2.661	299.8	22.26	12.73
111	2007	226	2315	68.75	77.5	1.952	295.3	21.51	12.73
111	2007	226	2330	68.53	78.9	2.328	301.9	16.81	12.72
111	2007	226	2345	68.48	79.7	2.87	301.7	24.31	12.72
111	2007	226	2400	68.81	80.1	2.639	306.1	21.9	12.72
111	2007	227	15	68.79	81	2.675	296.2	18.75	12.71
111	2007	227	30	68.75	81.9	2.808	305	22.6	12.71

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	227	45	68.86	83.2	2.584	304.7	21.64	12.71
111	2007	227	100	68.75	84.6	2.639	310.2	14.99	12.7
111	2007	227	115	68.59	85.4	2.465	305.5	20.14	12.7
111	2007	227	130	68.4	86.1	2.238	299.4	18.17	12.7
111	2007	227	145	68.36	86.7	2.324	308.8	14.12	12.7
111	2007	227	200	68.09	87.1	2.153	319	14.35	12.7
111	2007	227	215	67.97	86.7	2.357	311.2	13.85	12.7
111	2007	227	230	67.87	86.6	1.594	310.6	18.11	12.7
111	2007	227	245	67.42	87.5	0.928	303.7	16	12.7
111	2007	227	300	66.74	88.5	na	na	na	12.7
111	2007	227	315	66.19	89.9	0.8	314.2	6.43	12.7
111	2007	227	330	66.31	90.1	0.84	313.4	10.61	12.7
111	2007	227	345	66.13	90.2	0.466	332	13.36	12.7
111	2007	227	400	65.81	90.8	0.545	331.9	16.7	12.7
111	2007	227	415	66.04	90.9	1.621	322.7	14.63	12.7
111	2007	227	430	65.96	90.7	1.061	304.1	17.19	12.71
111	2007	227	445	65.74	91.6	1.82	299.5	15.62	12.73
111	2007	227	500	67.17	88.2	3.003	302.6	25.92	12.76
111	2007	227	515	68.44	86.6	3.449	304.5	24.96	12.78
111	2007	227	530	68.74	87	2.761	302.1	26.43	12.8
111	2007	227	545	68.74	87.3	2.433	302.8	24.34	12.83
111	2007	227	600	68.6	86.1	2.798	308.9	17.64	12.92
111	2007	227	615	68.56	80.8	3.535	308.8	22.01	13.21
111	2007	227	630	68.41	79.3	2.774	311	15.23	13.45
111	2007	227	645	68.07	78	2.473	304	16.74	13.44
111	2007	227	700	68.28	76.4	3.058	313.8	18.19	13.41
111	2007	227	715	68.82	75.4	3.114	315.8	16.93	13.41
111	2007	227	730	69.48	73.5	2.818	313.2	20.05	13.43
111	2007	227	745	70.7	70.8	1.981	305.4	27.68	13.42
111	2007	227	800	71.7	66.52	3.316	313.9	20.16	13.41
111	2007	227	815	72.4	64.18	4.15	314.2	22.34	13.41
111	2007	227	830	72.9	68.16	4.75	306.5	30.05	13.41
111	2007	227	845	73	64.74	5.242	302.8	31.69	13.41
111	2007	227	900	73	66.14	6.642	302.9	28.93	13.41
111	2007	227	915	73.3	67.51	6.746	307.3	22.24	13.4
111	2007	227	930	73.8	66.6	6.154	303.9	29.84	13.4
111	2007	227	945	74	67.34	6.95	305.1	25.62	13.39
111	2007	227	1000	74.3	66.6	6.68	307.8	24.45	13.39
111	2007	227	1015	74.7	68.37	5.532	298.2	29.71	13.39
111	2007	227	1030	75.4	67.8	5.425	288.3	32.99	13.38
111	2007	227	1045	75.8	69.68	5.133	285.5	33.78	13.37
111	2007	227	1100	75.7	67.97	5.876	301.2	32.36	13.37
111	2007	227	1115	75.4	70.2	6.352	290.5	34.94	13.37
111	2007	227	1130	75.3	71.3	6.751	297.8	31.3	13.37
111	2007	227	1145	75.8	71.1	6.493	305.5	35.07	13.36
111	2007	227	1200	75.9	68.37	6.998	298	30.65	13.35
111	2007	227	1215	76	68.71	6.976	293.2	35.01	13.35
111	2007	227	1230	76.4	69.61	7.2	304.4	34.2	13.35
111	2007	227	1245	76.5	71.4	6.652	304.3	26.67	13.35
111	2007	227	1300	76.7	69.37	6.555	299.5	32.15	13.35
111	2007	227	1315	76.9	68	7.71	292.4	28.17	13.35
111	2007	227	1330	76.9	67.3	7.16	299.1	28.06	13.34
111	2007	227	1345	77.3	65.26	7.76	301.8	29.98	13.35
111	2007	227	1400	77.9	67.87	6.98	280.6	36.47	13.34
111	2007	227	1415	78.3	61.51	6.481	292.7	35.24	13.35
111	2007	227	1430	77.8	69.56	7.84	298.7	29.54	13.35
111	2007	227	1445	78	65.55	7.99	296	33.64	13.35
111	2007	227	1500	78.2	69.06	8.66	306.8	25.83	13.35
111	2007	227	1515	77.3	71.9	8.2	298.8	33.09	13.36
111	2007	227	1530	76.4	74.5	8.42	299.2	32.01	13.36

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	227	1545	76.7	72.2	9.39	303.3	23.5	13.37
111	2007	227	1600	77.5	72.3	6.924	301.2	31.05	13.22
111	2007	227	1615	76.9	75.1	7.85	296.3	33.04	13.09
111	2007	227	1630	75.8	75	8.71	304.7	27.88	13.03
111	2007	227	1645	76.7	73.4	7.75	301.4	32.09	12.98
111	2007	227	1700	76.8	74	7.35	292.8	33.07	12.95
111	2007	227	1715	76.5	74.2	7.25	297.5	33.11	12.92
111	2007	227	1730	76.7	73.2	7.26	294	30.18	12.9
111	2007	227	1745	76.1	74.1	8.3	310.9	27.24	12.89
111	2007	227	1800	75.4	76.3	6.088	307.7	27.47	12.88
111	2007	227	1815	75.1	76.1	6.442	301.6	31.53	12.87
111	2007	227	1830	74.7	76.1	5.88	299.4	29.67	12.86
111	2007	227	1845	74.7	75.4	6.35	307.8	29.68	12.86
111	2007	227	1900	74.8	75.2	5.767	312.2	25.52	12.85
111	2007	227	1915	74.8	74.6	6.916	328.7	20.38	12.84
111	2007	227	1930	74.4	75.9	6.765	309.9	21.91	12.84
111	2007	227	1945	74.1	77.1	6.73	312.5	23.43	12.84
111	2007	227	2000	73.9	78.3	6.154	308.9	18.52	12.83
111	2007	227	2015	73.6	79.3	5.723	306.5	23.84	12.83
111	2007	227	2030	73.5	79.8	6.392	309	23.12	12.82
111	2007	227	2045	73.5	80.5	5.193	315.5	24.44	12.82
111	2007	227	2100	73.4	81.4	4.746	315.5	22.44	12.82
111	2007	227	2115	73.3	82.1	4.26	308	21.76	12.82
111	2007	227	2130	73.3	82.3	4.232	304.2	25.89	12.82
111	2007	227	2145	73.3	83	5.483	306.1	22.41	12.82
111	2007	227	2200	73.4	83.3	5.131	314	17.32	12.82
111	2007	227	2215	73.4	82.9	4.319	313.5	25.46	12.81
111	2007	227	2230	73.4	82.6	4.011	310.8	21.82	12.82
111	2007	227	2245	73.5	82.3	3.694	316.8	23.26	12.81
111	2007	227	2300	73.6	82	3.168	318.1	16.9	12.8
111	2007	227	2315	73.8	80.7	3.561	319.6	14.71	12.81
111	2007	227	2330	73.5	81.9	2.618	315.3	10.88	12.8
111	2007	227	2345	73.2	82.5	2.296	318.5	14.18	12.8
111	2007	227	2400	73.1	82.2	2.177	321.9	14.61	12.8
111	2007	228	15	72.8	83.1	1.622	333.3	21.55	12.79
111	2007	228	30	72.7	83.2	1.387	314.1	42.11	12.79
111	2007	228	45	72.2	84.2	0.647	319.2	17.23	12.78
111	2007	228	100	72.2	84.3	0.49	68.99	15.54	12.78
111	2007	228	115	72	85.2	0.661	303.4	23.51	12.78
111	2007	228	130	71.5	86	0.038	264.3	1.476	12.78
111	2007	228	145	71.6	86.4	0.439	302.5	7.72	12.78
111	2007	228	200	71.5	86.7	0.695	353.9	27.22	12.77
111	2007	228	215	72	85.1	1.506	17.34	21.37	12.76
111	2007	228	230	72.5	83.7	1.378	74.9	24.54	12.76
111	2007	228	245	72.9	83.1	0.289	100	10.14	12.76
111	2007	228	300	72.8	84.4	0.361	328.4	12.14	12.76
111	2007	228	315	72	86.4	1.69	316.9	8.98	12.75
111	2007	228	330	71.6	87	1.986	307.1	16.82	12.74
111	2007	228	345	71.6	86.8	0.66	67.79	19.13	12.74
111	2007	228	400	72	86.1	0.827	27.11	36.14	12.74
111	2007	228	415	71.7	86.9	1.339	285.9	11.57	12.74
111	2007	228	430	71.3	87.6	0.049	293.9	0.757	12.74
111	2007	228	445	71.5	87.4	0.886	173.5	28.34	12.74
111	2007	228	500	71.9	86.9	0.125	133.7	18.35	12.74
111	2007	228	515	71.6	87.8	0.425	307	24.82	12.76
111	2007	228	530	71.3	88.4	0.009	259.5	0.004	12.86
111	2007	228	545	71.4	88.8	0.747	66.76	37.89	12.96
111	2007	228	600	71.8	88.4	0.413	22.6	26.96	13.31
111	2007	228	615	71.8	88.3	0.436	28.77	20.69	13.45
111	2007	228	630	72.1	88.2	1.345	115.3	31.18	13.47

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	228	645	72.4	87.5	1.372	108.1	28.4	13.46
111	2007	228	700	72.7	86.7	1.191	75.5	28.59	13.43
111	2007	228	715	73	86.4	0.611	102.8	70.5	13.42
111	2007	228	730	73.4	86.1	0.497	256.3	62.54	13.41
111	2007	228	745	74	83.8	2.514	183.5	28.23	13.41
111	2007	228	800	74.4	83.5	3.128	188.4	19.05	13.41
111	2007	228	815	74.5	84.7	2.848	225.1	40.99	13.41
111	2007	228	830	73.1	87.8	3.342	243	41.47	13.4
111	2007	228	845	72.5	89.6	2.261	247.6	36.8	13.39
111	2007	228	900	73.2	89.6	2.522	268.6	57.64	13.38
111	2007	228	915	73.5	89.2	2.723	294.7	31.14	13.38
111	2007	228	930	73.7	88.8	3.791	289.3	33.26	13.38
111	2007	228	945	74	87.8	4.272	293	28.76	13.38
111	2007	228	1000	74.1	88	3.549	287.8	28.4	13.39
111	2007	228	1015	74.6	85.7	3.729	290.4	29.8	13.39
111	2007	228	1030	75	85.1	3.751	299	32.76	13.39
111	2007	228	1045	75.2	84.9	4.623	294.7	31.22	13.38
111	2007	228	1100	75.7	84	4.77	307.2	25.08	13.38
111	2007	228	1115	76	84.1	4.075	283.7	33.54	13.39
111	2007	228	1130	75.8	85.4	4.323	295.6	30.8	13.4
111	2007	228	1145	76	85.4	4.605	291.7	31.27	13.4
111	2007	228	1200	75.1	88.1	5.733	299	27.05	13.41
111	2007	228	1215	75.1	88.3	5.628	308.4	26.7	13.41
111	2007	228	1230	75.1	88.6	5.046	292.9	29.21	13.41
111	2007	228	1245	74.8	90.3	5.262	310.9	20.17	13.24
111	2007	228	1300	75.3	89.1	4.458	297	29.69	13.21
111	2007	228	1315	75.5	88.8	5.04	307.4	24.25	13.11
111	2007	228	1330	75.6	89	5.288	303.4	25.91	13.05
111	2007	228	1345	75.8	88.4	6.43	310.1	21.68	13.03
111	2007	228	1400	75.8	88.4	6.333	296.6	29.66	13.01
111	2007	228	1415	75.5	89.1	5.411	298.1	31.87	12.97
111	2007	228	1430	75.2	89.7	5.534	278.3	38.36	12.94
111	2007	228	1445	74.7	90.6	5.568	272.9	33.4	12.92
111	2007	228	1500	74.2	92.1	4.478	261.9	36.71	12.91
111	2007	228	1515	74.2	92.4	3.279	291.3	33.38	12.89
111	2007	228	1530	74.5	92.2	3.11	285.5	34.56	12.89
111	2007	228	1545	74.9	92.1	3.586	293.1	34.1	12.88
111	2007	228	1600	75.9	90.5	3.722	308.4	32.97	12.88
111	2007	228	1615	77.3	87	3.553	299.4	33.35	12.87
111	2007	228	1630	78.7	84	3.779	260.3	34.66	12.86
111	2007	228	1645	77.8	84.4	4.565	245.4	26.46	12.86
111	2007	228	1700	76	86	4.865	264.4	36.43	12.85
111	2007	228	1715	76.5	84.4	4.887	270.6	29.6	12.85
111	2007	228	1730	76.7	83.2	4.774	284.3	33.79	12.84
111	2007	228	1745	76.3	81.2	4.831	301	32.99	12.84
111	2007	228	1800	76.6	75.3	3.872	278.8	26.98	12.84
111	2007	228	1815	77.2	77.3	3.38	302.1	38.02	12.83
111	2007	228	1830	76.4	80.2	5.423	305	26.62	12.82
111	2007	228	1845	75.5	81.6	4.77	306.2	31.65	12.82
111	2007	228	1900	75.1	83.3	3.906	289.6	30.48	12.82
111	2007	228	1915	74.7	85.5	3.904	295.4	28.5	12.81
111	2007	228	1930	74.2	87.2	4.96	310	23.97	12.81
111	2007	228	1945	73.7	87.6	4.935	314.4	18.57	12.8
111	2007	228	2000	73.6	88	4.448	309.9	24.94	12.8
111	2007	228	2015	73.5	88.8	3.694	304	23.92	12.8
111	2007	228	2030	73.4	89.2	3.281	312.2	20.29	12.79
111	2007	228	2045	73.4	89.5	2.971	310.2	17.37	12.79
111	2007	228	2100	73.4	89.6	3.307	307.6	21.06	12.78
111	2007	228	2115	73.4	89.7	2.782	307.3	19.84	12.78
111	2007	228	2130	73.4	89.1	2.973	307.2	21.8	12.78

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	228	2145	73.7	87.7	3.092	310.9	18.41	12.77
111	2007	228	2200	74.1	85.6	2.88	297.2	26.49	12.76
111	2007	228	2215	74.2	84.5	1.706	291.6	32.16	12.76
111	2007	228	2230	74	84.8	1.968	322.8	22.23	12.76
111	2007	228	2245	74	82.9	2.929	315.2	22.6	12.75
111	2007	228	2300	74.9	75.2	3.904	318	15.29	12.74
111	2007	228	2315	76.7	70.8	5.25	322.3	16.86	12.74
111	2007	228	2330	77	71.6	4.833	316.3	15.35	12.74
111	2007	228	2345	76.6	72.7	4.395	325.8	14.91	12.73
111	2007	228	2400	76.4	72.1	3.446	334.8	25.47	12.73
111	2007	229	15	76.4	72.7	2.542	341.1	18.64	12.72
111	2007	229	30	75.4	75.3	1.521	300.8	23.53	12.72
111	2007	229	45	74.5	77.2	1.482	7.58	19.23	12.72
111	2007	229	100	74.4	77.2	2.405	345.4	20.64	12.72
111	2007	229	115	74.4	78.1	2.61	326.2	14.59	12.72
111	2007	229	130	74.8	76.2	2.53	342	35.14	12.72
111	2007	229	145	74.7	77.2	1.837	318.1	34.16	12.72
111	2007	229	200	74.1	79.9	1.132	282	16.27	12.72
111	2007	229	215	73.6	79.9	1.259	295.8	16.84	12.72
111	2007	229	230	73.5	80.6	1.75	303.4	13.08	12.71
111	2007	229	245	73.4	81.2	0.954	338.6	25.23	12.71
111	2007	229	300	73	82.3	0.09	297.9	3.322	12.71
111	2007	229	315	72.6	83.6	0.809	345.5	32.46	12.71
111	2007	229	330	72.4	85.1	0.982	317.6	14.11	12.71
111	2007	229	345	72.1	85.6	1.147	308.7	17.31	12.71
111	2007	229	400	72.1	85.7	0.37	326.9	17.68	12.71
111	2007	229	415	72.4	85.2	0.194	223.5	8.15	12.71
111	2007	229	430	72.7	84.8	1.178	20.68	14.37	12.71
111	2007	229	445	72.7	85.5	0.872	318.3	18.71	12.72
111	2007	229	500	72.5	86.1	0.849	65.08	7.62	12.72
111	2007	229	515	72.6	86.3	1.046	44.61	12.03	12.72
111	2007	229	530	72.5	85.8	1.664	11.38	23.54	12.72
111	2007	229	545	73.1	83.6	1.551	32.04	31.3	12.75
111	2007	229	600	73.4	82.4	1.028	51.96	35.39	12.75
111	2007	229	615	73.3	82.2	1.366	307.2	53.81	12.8
111	2007	229	630	73.7	78.6	2.54	66.04	31.1	12.84
111	2007	229	645	74.1	77	3.42	68.43	29.38	12.83
111	2007	229	700	74.2	75.8	3.604	56.34	26.61	12.91
111	2007	229	715	74.2	75.1	2.709	29.66	29.98	13.34
111	2007	229	730	74.2	73.6	2.356	37.17	44.26	13.45
111	2007	229	745	74.2	73.7	1.925	38.64	25.04	13.45
111	2007	229	800	74.2	72.9	3.338	48.06	24.39	13.44
111	2007	229	815	74.4	72.8	3.038	57.25	26.02	13.43
111	2007	229	830	74.3	72.9	2.439	65.82	33.98	13.42
111	2007	229	845	74.6	71.4	2.02	77.8	28.82	13.4
111	2007	229	900	75.1	68.95	2.459	31.15	25.06	13.39
111	2007	229	915	75.7	64.97	3.451	33.75	26.13	13.39
111	2007	229	930	77.3	55.97	3.058	44.29	38.55	13.38
111	2007	229	945	77.8	44.3	4.52	46.39	26.95	13.36
111	2007	229	1000	78.8	40.18	5.227	54.56	30.91	13.36
111	2007	229	1015	79.5	33.53	5.405	41.28	28.61	13.37
111	2007	229	1030	80	34.2	6.593	25.69	19.07	13.37
111	2007	229	1045	80.5	31.69	4.742	26.35	27.49	13.38
111	2007	229	1100	81	30.62	4.74	10.24	31.97	13.38
111	2007	229	1115	79.7	31.22	3.35	2.853	26.06	13.39
111	2007	229	1130	80.4	30.21	3.378	28.57	32.77	13.4
111	2007	229	1145	81.4	28.18	2.512	18.5	70.5	13.4
111	2007	229	1200	81.6	29.91	3.035	332.1	43.78	13.4
111	2007	229	1215	82.9	30.08	3.316	32.64	51.46	13.4
111	2007	229	1230	82.1	29.65	4.341	356.1	24.5	13.41

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	229	1245	82.3	28.68	2.854	337.7	74.6	13.35
111	2007	229	1300	82.7	29.31	4.047	13.33	72.3	13.31
111	2007	229	1315	82.4	31.65	4.156	6.668	42.05	13.4
111	2007	229	1330	82.7	32.49	4.105	24.7	44.57	13.23
111	2007	229	1345	82.5	31.78	4.166	32.06	32.24	13.2
111	2007	229	1400	83.2	41.58	3.195	305.9	62.19	13.12
111	2007	229	1415	80.7	47.76	4.234	268	36.94	13.08
111	2007	229	1430	81.1	35.83	4.083	275.9	40.36	13.03
111	2007	229	1445	80.3	43.98	4.974	267.6	41.08	12.98
111	2007	229	1500	80.4	42.91	4.168	280.7	38.12	12.95
111	2007	229	1515	80.6	41.14	4.935	275.8	35.48	12.94
111	2007	229	1530	80.9	42.41	4.849	270.1	44.52	12.92
111	2007	229	1545	80.5	41.07	4.611	283.5	39.55	12.91
111	2007	229	1600	80.4	40.54	4.146	274.2	36.68	12.9
111	2007	229	1615	78.2	43.58	3.962	285.7	33.11	12.89
111	2007	229	1630	77.2	46.66	2.365	287.1	27.6	12.89
111	2007	229	1645	76.8	49.01	1.606	287	30.4	12.88
111	2007	229	1700	76.2	67.47	1.749	306.7	22.42	12.88
111	2007	229	1715	73.3	71.3	1.66	343.1	44.45	12.87
111	2007	229	1730	70.6	80.5	3.005	270.5	55.92	12.87
111	2007	229	1745	70.2	79.9	1.759	229	49	12.87
111	2007	229	1800	70.2	80.8	3.124	278.4	30.79	12.86
111	2007	229	1815	69.71	81.9	2.792	270.1	36.93	12.86
111	2007	229	1830	69.19	83	2.235	260.4	36.19	12.85
111	2007	229	1845	69.43	81.8	1.634	315.9	21.66	12.85
111	2007	229	1900	69.9	83.4	1.486	53.71	23.06	12.85
111	2007	229	1915	69.69	73	6.38	11.76	24.57	12.84
111	2007	229	1930	67.36	83	4.468	149.9	45.49	12.84
111	2007	229	1945	65.81	86.6	2.324	250.2	81	12.84
111	2007	229	2000	65.33	88	0.985	289.7	52.39	12.83
111	2007	229	2015	65.33	89.8	2.324	327.4	71	12.82
111	2007	229	2030	65.41	90.8	0.906	198.6	61.93	12.82
111	2007	229	2045	65.77	90.4	1.851	203.2	41.41	12.81
111	2007	229	2100	66.12	90.4	1.354	242.9	39.74	12.81
111	2007	229	2115	66.62	89.9	1.695	326.1	87.1	12.79
111	2007	229	2130	66.7	91.2	2.082	7.87	59.39	12.79
111	2007	229	2145	66.6	91.6	1.845	352.1	63.03	12.79
111	2007	229	2200	66.54	91.8	1.85	29.3	27.26	12.78
111	2007	229	2215	66.5	92	3.033	46.99	24.06	12.78
111	2007	229	2230	66.21	91.6	2.269	48.57	29.32	12.78
111	2007	229	2245	65.86	91.5	2.069	37.55	35.6	12.75
111	2007	229	2300	65.68	91.6	1.545	16.84	28.94	12.76
111	2007	229	2315	65.47	91.8	1.478	345.2	37.95	12.76
111	2007	229	2330	65.1	92	1.634	324.2	46.55	12.76
111	2007	229	2345	64.97	92.6	3.12	358.3	26.35	12.74
111	2007	229	2400	64.9	92.9	3.908	4.678	20.39	12.74
111	2007	230	15	64.95	82.7	7.92	28.17	26.97	12.73
111	2007	230	30	63.87	82.9	7.13	38.57	25.27	12.72
111	2007	230	45	62.87	83.2	6.509	52.79	28.11	12.72
111	2007	230	100	62.34	85	4.825	70.5	32.68	12.71
111	2007	230	115	61.9	85.1	5.006	67.86	28.85	12.71
111	2007	230	130	61.68	84.4	4.591	59.96	27.8	12.7
111	2007	230	145	61.28	85.4	3.531	27.24	26	12.7
111	2007	230	200	60.48	87.9	2.985	6.09	24.5	12.69
111	2007	230	215	59.92	88.1	3.485	16.62	25.65	12.68
111	2007	230	230	59.72	88.4	3.32	6.429	24.6	12.68
111	2007	230	245	59.76	87.9	5.193	23.53	21.3	12.68
111	2007	230	300	59.61	88.5	4.053	2.972	21.53	12.68
111	2007	230	315	59.49	88.4	4.154	4.006	23.65	12.67
111	2007	230	330	59.31	88.5	3.992	17.05	20.51	12.68

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	230	345	59	89.6	3.694	10.49	22.05	12.68
111	2007	230	400	58.86	89.4	4.101	9.9	25.24	12.67
111	2007	230	415	59.12	87.5	4.99	353.4	18.21	12.67
111	2007	230	430	59.12	86	4.732	352.7	25.67	12.67
111	2007	230	445	58.78	85.4	4.645	353.6	19.66	12.68
111	2007	230	500	58.75	83.1	4.891	6.847	23.4	12.67
111	2007	230	515	58.72	80.9	4.617	1.569	24.15	12.68
111	2007	230	530	59.02	79	5.453	359.3	22.5	12.69
111	2007	230	545	58.82	76.7	5.435	359.1	21.1	12.68
111	2007	230	600	58.93	73.4	6.569	358.5	24.6	12.67
111	2007	230	615	58.74	73.3	6.158	2.534	21.81	12.67
111	2007	230	630	58.33	73.1	5.231	0.121	23.98	12.68
111	2007	230	645	58.27	72.6	5.383	8.45	21.93	12.68
111	2007	230	700	58.46	70.6	6.251	9.05	23.1	12.68
111	2007	230	715	58.71	70	5.806	9.41	27.56	12.66
111	2007	230	730	58.95	65.45	7.53	1.279	26.84	12.68
111	2007	230	745	59.46	62.91	7.45	22.09	28.12	12.72
111	2007	230	800	59.86	61.3	7.09	16.8	27.16	12.79
111	2007	230	815	60.43	59.76	6.42	12.1	26.73	12.79
111	2007	230	830	60.96	58.99	6.646	8.17	22.72	12.77
111	2007	230	845	61.27	57.68	7.96	5.399	23.48	12.8
111	2007	230	900	61.45	57.65	9.04	7.58	28.03	12.87
111	2007	230	915	62.19	54.47	7.92	22.46	24.96	12.84
111	2007	230	930	62.81	53.46	8.29	23.01	27.77	12.86
111	2007	230	945	63.32	49.81	8.45	27.46	30.87	12.88
111	2007	230	1000	63.65	50.41	9.41	29.88	30	12.95
111	2007	230	1015	63.88	50.18	8.9	30.62	24.19	12.86
111	2007	230	1030	64.46	49.87	8.84	35.73	30.53	12.84
111	2007	230	1045	65.03	48.57	9.16	30.35	24.85	12.88
111	2007	230	1100	65.98	47.23	7.23	31.77	26.93	13.13
111	2007	230	1115	66.16	46.29	8.4	26.06	29.32	13.09
111	2007	230	1130	66.11	45.62	9.57	23.91	25.79	13.07
111	2007	230	1145	66.9	46.02	9.36	29.47	21.68	13.11
111	2007	230	1200	67.3	44.45	8.04	30.15	26.62	13.12
111	2007	230	1215	68.33	43.48	7.59	23.62	31.95	13.17
111	2007	230	1230	68.44	44.61	8.04	20.1	32.79	13.16
111	2007	230	1245	69.15	43.41	7.24	22.48	39.2	13.24
111	2007	230	1300	69.85	39.73	7.89	42.61	29.5	13.24
111	2007	230	1315	70.3	43.58	7.77	36.13	27.94	13.23
111	2007	230	1330	70.1	42	8.54	26.06	29.99	13.27
111	2007	230	1345	70.9	40.6	8.25	39.73	24.32	13.27
111	2007	230	1400	71	39.69	7.9	39.46	32.35	13.25
111	2007	230	1415	70.9	42.5	8.69	4.495	26.89	13.12
111	2007	230	1430	71.2	40.43	7.35	1.831	27.71	13.06
111	2007	230	1445	71.6	41.16	7.73	15.39	39.34	13.02
111	2007	230	1500	71.6	39.29	8.2	6.957	28.33	12.96
111	2007	230	1515	71.9	40.69	7.82	9.04	29.67	12.95
111	2007	230	1530	72.5	39.79	6.98	17.15	35.77	12.9
111	2007	230	1545	72.9	38.98	6.571	25.75	30.06	12.87
111	2007	230	1600	72.6	38.11	6.98	15.81	37.53	12.84
111	2007	230	1615	72.5	38.42	7.98	0.61	26.23	12.82
111	2007	230	1630	72.7	37.38	6.994	4.914	26.99	12.8
111	2007	230	1645	72.7	35.51	7.24	13.2	30.74	12.77
111	2007	230	1700	73.2	35.27	6.541	23.73	27.24	12.75
111	2007	230	1715	73.1	35.94	7.18	357.6	32.18	12.73
111	2007	230	1730	72.9	38.62	7.23	356.1	21.06	12.72
111	2007	230	1745	73.2	38.58	6.712	23.17	24.74	12.7
111	2007	230	1800	73	38.88	5.528	13.93	30.66	12.69
111	2007	230	1815	72.6	38.92	5.042	6.12	30	12.68
111	2007	230	1830	72	38.68	5.05	15.97	23.84	12.67

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	230	1845	71.2	39.69	4.305	13.93	24.46	12.66
111	2007	230	1900	71.2	40.49	3.882	352	25.16	12.66
111	2007	230	1915	70.9	42.07	2.79	3.49	23.21	12.66
111	2007	230	1930	70.1	45.24	2.955	21.6	20.81	12.66
111	2007	230	1945	69.27	46.25	2.105	359	33.77	12.65
111	2007	230	2000	68.17	52.84	1.684	309.3	28.89	12.65
111	2007	230	2015	66.31	58.63	1.163	316.5	7.82	12.66
111	2007	230	2030	65.86	57.47	1.593	9.3	19.22	12.66
111	2007	230	2045	65.25	58.1	1.04	310.6	24.3	12.62
111	2007	230	2100	64.39	62.09	0.572	5.645	11.56	12.66
111	2007	230	2115	64.64	60.85	1.404	27.54	12.09	12.66
111	2007	230	2130	64.44	64.4	0.917	317.3	35.39	12.66
111	2007	230	2145	64.55	59.89	2.502	8.32	24.06	12.66
111	2007	230	2200	64.57	63.63	1.443	338.5	26.42	12.66
111	2007	230	2215	63.91	62.93	2.743	353.8	15.13	12.66
111	2007	230	2230	63.64	64.94	1.905	333.8	26.44	12.66
111	2007	230	2245	62.93	66.51	1.674	346.9	28.76	12.66
111	2007	230	2300	62.32	69.35	1.154	317.4	38.41	12.67
111	2007	230	2315	62.83	64.57	1.386	341.7	29.87	12.66
111	2007	230	2330	63.57	59.62	2.236	6.46	29.2	12.66
111	2007	230	2345	64.16	58.75	2.284	2.73	26.76	12.67
111	2007	230	2400	64.22	58.35	2.013	25.75	24.81	12.67
111	2007	231	15	64.06	59.72	2.013	22.85	21.17	12.67
111	2007	231	30	63.54	62.56	1.693	355.6	18.44	12.67
111	2007	231	45	62.55	65.98	2.574	335	17.76	12.67
111	2007	231	100	62.35	65.17	1.861	354.7	28.99	12.67
111	2007	231	115	62.55	65.07	2.089	32.23	20.18	12.68
111	2007	231	130	62.65	66.38	1.752	4.89	24.87	12.67
111	2007	231	145	62.17	67.31	1.935	351	14.26	12.67
111	2007	231	200	61.87	68.99	1.571	349	27.4	12.67
111	2007	231	215	61.55	70.9	0.51	353.3	14.3	12.67
111	2007	231	230	61.32	70.7	0.577	91.2	17.81	12.67
111	2007	231	245	61.31	72.5	0.325	182.9	6.567	12.67
111	2007	231	300	60.47	76.3	na	na	na	12.67
111	2007	231	315	60.19	77.6	0.855	357.7	17.54	12.68
111	2007	231	330	59.76	79.6	1.066	310.1	18.41	12.68
111	2007	231	345	59.25	81	1.661	311.9	7.49	12.67
111	2007	231	400	59.37	79.8	0.992	345.4	10.21	12.68
111	2007	231	415	59.64	78.4	0.704	348.8	26.47	12.68
111	2007	231	430	59.68	79.5	0.364	44.4	25.41	12.68
111	2007	231	445	60.16	76.9	1.446	42.85	34.58	12.69
111	2007	231	500	60.29	78.3	1.734	311.9	18.06	12.82
111	2007	231	515	59.47	79.9	1.529	299.6	14.12	12.95
111	2007	231	530	59.31	80.3	0.074	146.8	18.48	12.94
111	2007	231	545	59.74	79.9	0.219	111.6	15.23	12.94
111	2007	231	600	59.78	80.4	0.081	303.9	0.837	13.06
111	2007	231	615	59.72	81.9	0.943	0.539	25.19	13.27
111	2007	231	630	59.62	82.9	0.77	321.9	17.69	13.48
111	2007	231	645	59.78	82.4	0.325	352.5	15.7	13.47
111	2007	231	700	59.99	81.7	0.394	49.77	6.692	13.46
111	2007	231	715	60.67	80.4	1.013	311.8	45.39	13.45
111	2007	231	730	60.83	78.8	1.992	328.2	16.35	13.45
111	2007	231	745	61.34	78.7	1.13	321.3	22.91	13.38
111	2007	231	800	61.66	77.3	1.269	89.4	26.68	13.39
111	2007	231	815	62.07	75.4	0.954	95.1	22.27	13.36
111	2007	231	830	62.46	74.1	0.514	147	60.68	13.23
111	2007	231	845	62.89	74.2	0.305	292.1	12.49	13.21
111	2007	231	900	63.33	71	0.859	354.6	29.96	13.32
111	2007	231	915	64.12	65.44	1.149	71.3	45.12	13.45
111	2007	231	930	65.28	59.98	2.259	109.4	28.59	13.45

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	231	945	65.64	55.93	2.709	116	23.08	13.46
111	2007	231	1000	66.53	51.78	2.832	124.5	26.31	13.45
111	2007	231	1015	67.72	50.57	2.457	141.8	47.62	13.45
111	2007	231	1030	67.94	54.58	3.118	187.6	35.25	13.45
111	2007	231	1045	67.86	55.58	2.654	200.8	36.67	13.45
111	2007	231	1100	67.26	58.23	3.487	239.3	22.49	13.45
111	2007	231	1115	66.98	56.32	3.388	224.9	29.62	13.45
111	2007	231	1130	67.7	55.69	2.834	221.7	39.49	13.45
111	2007	231	1145	68.33	56.82	2.949	243.9	34.07	13.44
111	2007	231	1200	69.49	56.48	3.334	228.3	42.05	13.44
111	2007	231	1215	69.47	53.6	3.904	252.3	53.57	13.44
111	2007	231	1230	68.85	57.85	3.71	197	30.81	13.45
111	2007	231	1245	68.37	57.58	4.049	230.3	36.17	13.44
111	2007	231	1300	67.73	58.48	3.428	242.6	37.18	13.44
111	2007	231	1315	67.29	57.85	3.573	233.5	30.74	13.45
111	2007	231	1330	67.69	58.56	3.96	219.3	23.52	13.41
111	2007	231	1345	68.38	54.71	3.974	247.4	38.33	13.37
111	2007	231	1400	68.67	56.75	3.442	226.6	33.76	13.31
111	2007	231	1415	68.11	58.82	3.636	230.2	36.77	13.45
111	2007	231	1430	67.51	59.96	3.65	222	28.04	13.45
111	2007	231	1445	67.47	61.6	3.743	226.3	29.42	13.23
111	2007	231	1500	67.48	62.27	3.289	217.6	33.51	13.11
111	2007	231	1515	67.4	61.47	3.175	232.7	33.32	13.05
111	2007	231	1530	67.45	58.66	3.463	230.3	28.36	13
111	2007	231	1545	67.38	62.61	3.031	243.8	32.69	12.97
111	2007	231	1600	67.24	63.78	3.027	224.3	36.73	12.95
111	2007	231	1615	67.1	64.88	2.651	221.2	25.33	12.94
111	2007	231	1630	67.23	66.39	2.283	243	34.79	12.93
111	2007	231	1645	67.1	67.59	2.426	236.7	32.9	12.91
111	2007	231	1700	67.19	67.73	2.181	250.5	29.87	12.91
111	2007	231	1715	67.12	68.93	2.588	236.5	24.79	12.9
111	2007	231	1730	66.85	70.7	1.994	244.4	33.09	12.9
111	2007	231	1745	66.79	72.7	1.928	247.7	37.67	12.9
111	2007	231	1800	66.4	76.9	2.461	278.2	31.1	12.89
111	2007	231	1815	65.48	80.3	1.637	277.9	24.56	12.88
111	2007	231	1830	64.79	82.1	1.522	267.1	28.04	12.87
111	2007	231	1845	64.18	82.9	1.566	284.3	30.18	12.87
111	2007	231	1900	63.99	83.8	0.735	283.3	15.56	12.88
111	2007	231	1915	63.36	85.9	2.604	292.2	26.17	12.87
111	2007	231	1930	62.51	88	2.244	279	29.86	12.87
111	2007	231	1945	62.09	89.1	2.096	276	35.2	12.86
111	2007	231	2000	61.62	89.9	1.721	255.4	32.95	12.86
111	2007	231	2015	61.13	89.7	2.818	250.9	29.68	12.86
111	2007	231	2030	60.52	90.1	2.047	248.9	31.69	12.86
111	2007	231	2045	60.37	90.6	2.656	232.3	25.45	12.85
111	2007	231	2100	60.51	89.7	3.406	209.1	22.15	12.85
111	2007	231	2115	60.6	89.6	2.403	213.8	30.07	12.85
111	2007	231	2130	60.4	87.4	2.527	214.6	27.09	12.85
111	2007	231	2145	59.72	87.1	2.995	188.2	19.5	12.85
111	2007	231	2200	59.31	88	2.671	166.8	21.74	12.85
111	2007	231	2215	58.97	88.9	2.562	153.5	25.14	12.84
111	2007	231	2230	58.6	90.1	2.955	161.2	24.35	12.83
111	2007	231	2245	58.37	91.2	3.757	197.2	22.21	12.84
111	2007	231	2300	58.48	91.9	4.808	191.8	19.09	12.84
111	2007	231	2315	58.49	92.7	5.183	216.9	24.12	12.83
111	2007	231	2330	58.81	93.1	4.426	206.7	33.43	12.83
111	2007	231	2345	59.68	92.4	3.31	155.2	44.1	12.83
111	2007	231	2400	59.54	92.7	3.31	126.3	30.25	12.82
111	2007	232	15	59.6	92.7	2.046	91.5	43.49	12.82
111	2007	232	30	59.7	92.9	1.446	95.7	30.52	12.82

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	232	45	59.87	93.2	1.727	148.7	44.83	12.8
111	2007	232	100	60.16	93.3	2.147	101.6	40.85	12.81
111	2007	232	115	60.23	93.3	1.005	107.5	40.46	12.8
111	2007	232	130	60.15	93.3	1.75	112.8	35.54	12.8
111	2007	232	145	60.06	93.5	2.221	132.9	23.59	12.8
111	2007	232	200	60.13	93.4	2.455	141.5	29.36	12.79
111	2007	232	215	60.42	93.2	1.903	125.7	31.69	12.78
111	2007	232	230	60.57	92.7	1.803	115.3	30.52	12.79
111	2007	232	245	60.6	92.5	1.853	138.5	34.65	12.78
111	2007	232	300	60.83	92.1	1.915	108.2	21.32	12.78
111	2007	232	315	60.68	91.8	2.612	132.1	26.49	12.78
111	2007	232	330	60.7	91.3	3.181	130.3	25.76	12.78
111	2007	232	345	60.7	91.2	2.512	103.7	29.79	12.77
111	2007	232	400	60.63	91	3.634	117.4	27	12.77
111	2007	232	415	60.65	90.7	3.249	130.5	19.76	12.77
111	2007	232	430	60.65	90.2	3.442	123.3	24.15	12.84
111	2007	232	445	60.66	89.8	3.795	122.1	27.24	12.9
111	2007	232	500	60.74	89.9	4.347	134.6	22.68	12.83
111	2007	232	515	61.03	89.6	4.144	135.6	22.74	12.83
111	2007	232	530	61.16	89.7	3.503	132.9	21.32	12.87
111	2007	232	545	61.13	89.9	3.759	124.7	21.8	13.03
111	2007	232	600	61.17	89.4	4.011	120.7	25.64	13.19
111	2007	232	615	61.28	88.7	4.323	127.8	20.47	13.42
111	2007	232	630	61.35	88.2	4.665	132.7	21.1	13.41
111	2007	232	645	61.47	87.9	4.816	140.9	26.13	13.39
111	2007	232	700	61.67	88.1	4.059	141.1	23.23	13.45
111	2007	232	715	61.63	88.3	3.684	114.8	21.02	13.44
111	2007	232	730	61.66	88.2	3.549	121.6	22.74	13.43
111	2007	232	745	61.9	87.3	4.248	127.6	26.81	13.43
111	2007	232	800	62.27	85.9	4.26	132	25.45	13.42
111	2007	232	815	62.47	84.1	5.205	150.4	18.75	13.41
111	2007	232	830	62.53	83.2	5.401	148.8	27.23	13.4
111	2007	232	845	62.88	81.4	4.857	152.8	24.4	13.39
111	2007	232	900	63.32	77.3	5.197	130.1	25.42	13.39
111	2007	232	915	63.79	77.6	3.999	124.6	26.16	13.38
111	2007	232	930	63.78	79.9	4.228	116.1	28.5	13.38
111	2007	232	945	63.87	80.2	4.752	124.4	22.43	13.36
111	2007	232	1000	64.02	79.9	4.361	125.5	27.61	13.36
111	2007	232	1015	64.74	78.1	4.055	132.5	24.29	13.36
111	2007	232	1030	65.14	76.1	5.235	126.4	32.44	13.35
111	2007	232	1045	65.48	72.7	5.953	126	27.71	13.34
111	2007	232	1100	66.06	65.63	5.651	130.2	23.64	13.34
111	2007	232	1115	66.6	64.89	5.445	138.1	25.54	13.34
111	2007	232	1130	67.24	64.65	4.409	125.1	31.48	13.34
111	2007	232	1145	67.68	63.61	4.875	125.8	31.41	13.33
111	2007	232	1200	69.6	57.73	5.203	124.3	31.71	13.33
111	2007	232	1215	69.44	55.18	7.4	142.1	24.26	13.31
111	2007	232	1230	70.2	53.11	6.37	143.9	30.05	13.31
111	2007	232	1245	70.6	44.64	8.18	147.9	24.16	13.31
111	2007	232	1300	70.7	41.6	8.38	146.8	24.33	13.31
111	2007	232	1315	70.4	41.5	8.7	149.8	19.68	13.31
111	2007	232	1330	70.1	42.87	7.34	153.8	20.71	13.31
111	2007	232	1345	70.2	41.2	6.19	171.4	28.3	13.31
111	2007	232	1400	69.82	44.84	6.333	174.5	20.81	13.32
111	2007	232	1415	68.93	44.27	6.382	169.9	21.51	13.33
111	2007	232	1430	68.69	44.58	7.57	155.7	19.15	13.35
111	2007	232	1445	68.49	46.92	6.74	161.6	22.56	13.36
111	2007	232	1500	68.59	48.49	5.838	161.6	20.66	13.18
111	2007	232	1515	68.74	50.3	5.949	163.9	25.11	13.18
111	2007	232	1530	68.42	44.01	6.289	161.4	24.45	13.11

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	232	1545	67.96	45.65	7.55	152.2	21.56	13.03
111	2007	232	1600	67.64	48.8	5.169	157.4	24.7	12.98
111	2007	232	1615	67.54	51.14	4.933	137.4	27.12	12.95
111	2007	232	1630	67.29	52.88	6.283	145.5	22.25	12.92
111	2007	232	1645	67.23	53.28	5.771	139.3	27.56	12.91
111	2007	232	1700	67.12	56.22	4.15	118	25.87	12.89
111	2007	232	1715	66.91	55.99	4.341	120.8	24.61	12.88
111	2007	232	1730	66.91	56.32	4.349	119.4	28.21	12.87
111	2007	232	1745	67.1	55.82	3.565	115.5	30.68	12.87
111	2007	232	1800	66.89	56.22	4.057	116.1	20.91	12.86
111	2007	232	1815	66.61	56.86	4.234	115.1	18.56	12.86
111	2007	232	1830	66.44	55.46	5.183	130.6	26.26	12.85
111	2007	232	1845	66.35	55.46	6.734	141.2	21.85	12.85
111	2007	232	1900	66.14	55.43	5.54	152.6	23.53	12.85
111	2007	232	1915	66.05	56.09	5.669	155	19.07	12.85
111	2007	232	1930	65.76	55.96	5.342	157.3	20.24	12.84
111	2007	232	1945	65.69	56.46	5.586	160.6	23.64	12.84
111	2007	232	2000	65.55	55.63	4.542	151.1	23.04	12.84
111	2007	232	2015	65.79	54.56	3.674	127	29.71	12.84
111	2007	232	2030	65.81	55.29	5.647	154.6	23.26	12.83
111	2007	232	2045	65.85	56.13	4.494	130.2	34.55	12.83
111	2007	232	2100	65.58	58.07	3.42	123.4	35.67	12.84
111	2007	232	2115	65.11	60.95	4.085	140.8	19.66	12.84
111	2007	232	2130	64.54	63.02	3.622	127	25.52	12.83
111	2007	232	2145	63.99	64.8	3.334	111.2	20.43	12.84
111	2007	232	2200	63.59	66.34	3.426	111.7	25.33	12.83
111	2007	232	2215	63.25	68.35	3.114	123.4	23.51	12.83
111	2007	232	2230	62.76	72.6	3.68	119.3	19.32	12.82
111	2007	232	2245	61.93	76.9	3.759	113.1	24.41	12.82
111	2007	232	2300	61.21	79.7	4.73	121.5	20.58	12.81
111	2007	232	2315	60.72	80.6	4.395	131.2	22	12.81
111	2007	232	2330	60.83	75.7	5.254	142.7	27.66	12.81
111	2007	232	2345	60.75	78.5	3.932	140.4	24.22	12.81
111	2007	232	2400	59.94	82	3.126	128.1	26.65	12.81
111	2007	233	15	59.24	83.8	2.535	123.3	24.46	12.81
111	2007	233	30	59.04	85.9	1.431	105.7	31.57	12.81
111	2007	233	45	58.98	87.6	3.074	112.6	18	12.8
111	2007	233	100	59.07	87.5	2.955	125.8	28.81	12.8
111	2007	233	115	59.37	85.6	4.432	135.2	18.61	12.79
111	2007	233	130	59.42	86.3	3.471	129.4	24.09	12.79
111	2007	233	145	59.43	86.6	3.261	119.5	25.9	12.78
111	2007	233	200	59.26	87.8	3.741	126.4	24.2	12.78
111	2007	233	215	59.05	88	4.347	120.7	22.37	12.79
111	2007	233	230	58.67	86.7	5.101	120.5	22.09	12.78
111	2007	233	245	58.12	85.3	4.625	123.3	29.79	12.77
111	2007	233	300	57.74	84.9	3.586	127	25.29	12.78
111	2007	233	315	57.34	86	3.35	123.1	22.87	12.77
111	2007	233	330	56.98	86.3	3.511	120.2	26.25	12.77
111	2007	233	345	56.92	86.6	3.64	123.2	24.97	12.77
111	2007	233	400	57.01	85.3	3.835	136.3	29.18	12.77
111	2007	233	415	57.07	85.8	3.656	124.3	29.06	12.76
111	2007	233	430	56.72	86.9	3.436	109.9	27.56	12.81
111	2007	233	445	56.63	88.2	3.954	123.5	21.88	12.92
111	2007	233	500	56.68	88.2	4.424	131.1	23.01	12.99
111	2007	233	515	56.81	86.5	4.694	125.5	23.19	13.21
111	2007	233	530	56.63	87.1	3.731	114.7	25.85	13.41
111	2007	233	545	56.36	86.8	4.758	125	24.89	13.39
111	2007	233	600	56.19	87.9	4.718	133.6	20.13	13.38
111	2007	233	615	55.99	89.8	4.532	131.3	25.36	13.37
111	2007	233	630	56.08	91.1	5.969	148	18.27	13.36

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	233	645	56.25	92	5.524	155.6	24.88	13.35
111	2007	233	700	56.21	91.9	6.839	156.2	22.12	13.34
111	2007	233	715	55.97	92.3	5.9	155.7	21.06	13.34
111	2007	233	730	56.15	92.9	5.236	158.4	22.1	13.33
111	2007	233	745	56.35	92.8	5.81	162.2	22.6	13.33
111	2007	233	800	56.31	92.1	6.287	159.5	21.71	13.32
111	2007	233	815	55.92	91.3	7.38	162	20.84	13.31
111	2007	233	830	55.7	89.9	7.17	164.6	20.29	13.31
111	2007	233	845	55.83	89.2	6.06	172.1	22.42	13.31
111	2007	233	900	55.96	88.2	5.818	156	22.23	13.31
111	2007	233	915	56.18	89.7	4.546	144	26.06	13.31
111	2007	233	930	56.3	90.8	4.655	153.6	18.72	13.31
111	2007	233	945	56.27	91.8	4.921	157.7	22.54	13.31
111	2007	233	1000	56.32	92.6	4.367	157.9	24.92	13.31
111	2007	233	1015	56.55	93.3	4.518	161.1	24.66	13.3
111	2007	233	1030	56.81	93.5	4.089	155.3	25.36	13.3
111	2007	233	1045	57.14	93.6	3.918	148.5	33.66	13.3
111	2007	233	1100	57.28	93.3	5.606	160.1	27.21	13.29
111	2007	233	1115	57.49	92.4	7.33	161.2	21.32	13.3
111	2007	233	1130	57.55	92.4	7.04	157	25.18	13.3
111	2007	233	1145	57.52	92	7.89	153.7	22.07	13.3
111	2007	233	1200	57.68	92.1	7.83	151.6	20.25	13.31
111	2007	233	1215	57.92	92.3	6.001	151.7	26.91	13.31
111	2007	233	1230	57.95	91.9	6.176	142.1	23.58	13.32
111	2007	233	1245	57.75	91.7	6.384	137.2	22.96	13.32
111	2007	233	1300	57.59	92.3	6.454	140.6	22.85	13.32
111	2007	233	1315	57.57	92.5	6.12	137.9	27.87	13.32
111	2007	233	1330	57.29	92.9	6.946	143.5	21.37	13.32
111	2007	233	1345	57.29	92.4	7.58	149.6	26.58	13.32
111	2007	233	1400	57.18	91.7	8.03	141.9	25.15	13.32
111	2007	233	1415	57.12	91.7	7.87	141.2	23.41	13.32
111	2007	233	1430	56.8	91.3	7.37	132.7	25.98	13.33
111	2007	233	1445	56.44	91.4	6.672	132.8	32.66	13.33
111	2007	233	1500	56.31	92	6.954	141.4	24.17	13.35
111	2007	233	1515	56.14	91.9	7.74	144.7	22.7	13.35
111	2007	233	1530	55.92	91.4	8.34	147.1	22.78	13.36
111	2007	233	1545	55.49	91.6	8.24	150.9	22.42	13.37
111	2007	233	1600	55.18	92.4	7.22	137.4	24.84	13.11
111	2007	233	1615	55.16	92.1	6.126	130.9	25.28	13.03
111	2007	233	1630	55.07	92.4	5.695	129.5	25.63	12.98
111	2007	233	1645	55.14	92.8	5.24	131.3	23.51	12.94
111	2007	233	1700	55.36	92.8	4.953	122.2	28.32	12.92
111	2007	233	1715	55.39	92.6	5.201	128.9	26.26	12.9
111	2007	233	1730	55.25	92.4	5.197	131.6	25.25	12.89
111	2007	233	1745	55.02	91.8	6.162	142.5	20.13	12.88
111	2007	233	1800	54.52	92.2	6.215	140.4	27.62	12.87
111	2007	233	1815	54.35	92.4	6.136	145.5	26.76	12.86
111	2007	233	1830	54.28	92.8	5.532	136	24.91	12.86
111	2007	233	1845	54.34	92.7	5.638	134.8	25.89	12.85
111	2007	233	1900	54.45	92.9	4.972	131.2	35.13	12.85
111	2007	233	1915	54.32	92.9	5.048	127.7	25.37	12.84
111	2007	233	1930	53.75	93	6.722	116.5	26.9	12.84
111	2007	233	1945	53.43	93.3	4.976	118.9	26.57	12.84
111	2007	233	2000	53.54	93.7	4.178	101.4	31.72	12.84
111	2007	233	2015	53.5	93.5	4.202	109.5	37.82	12.84
111	2007	233	2030	53.11	93.7	5.354	118.9	22.65	12.84
111	2007	233	2045	52.88	93.4	6.182	130.4	27.75	12.84
111	2007	233	2100	52.87	91.6	6.342	128.2	28.57	12.84
111	2007	233	2115	53.1	90.1	5.836	138.6	26.19	12.84
111	2007	233	2130	53.3	88.1	6.45	132.5	20.76	12.84

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	233	2145	53.52	86	5.933	132.4	21.96	12.83
111	2007	233	2200	53.63	86.5	3.461	121.9	29.94	12.83
111	2007	233	2215	53.67	86.2	4.418	117	20.56	12.83
111	2007	233	2230	53.96	87.1	3.044	113.6	34.85	12.83
111	2007	233	2245	54.21	87.7	2.269	92.6	33.3	12.83
111	2007	233	2300	54.49	88.4	3.122	116.8	24.95	12.83
111	2007	233	2315	54.78	89	2.671	106.4	26.11	12.82
111	2007	233	2330	55.08	89.3	3.303	120	25.87	12.82
111	2007	233	2345	55.4	89.3	4.129	114	26.33	12.82
111	2007	233	2400	55.75	88.6	4.234	122.2	25.77	12.82
111	2007	234	15	56.13	88.5	3.328	126.4	28.34	12.81
111	2007	234	30	56.28	88.8	2.778	120.1	24.74	12.81
111	2007	234	45	56.38	89.5	3.185	118	36.44	12.81
111	2007	234	100	56.63	89.6	2.907	112.9	34.75	12.8
111	2007	234	115	56.92	89.7	2.616	95.7	31.91	12.75
111	2007	234	130	57.11	90	2.055	113.7	37.58	12.8
111	2007	234	145	57.32	90	3.029	107.2	21.98	12.79
111	2007	234	200	57.46	89.8	3.197	120	24.59	12.79
111	2007	234	215	57.5	89.3	3.432	125.5	22.05	12.79
111	2007	234	230	57.56	88.6	2.899	129.3	30.03	12.79
111	2007	234	245	57.52	88.6	2.595	114.5	22.1	12.79
111	2007	234	300	57.36	88.7	1.997	121.2	39.59	12.78
111	2007	234	315	57.29	88.6	2.506	138.4	27.47	12.77
111	2007	234	330	57.33	88	2.866	125.9	20.72	12.78
111	2007	234	345	57.47	86	3.448	133.5	30.11	12.77
111	2007	234	400	57.68	84.1	3.569	146.8	20.79	12.77
111	2007	234	415	57.78	83.5	3.289	118.9	22.15	12.76
111	2007	234	430	57.65	83.7	2.824	97.9	29.57	12.76
111	2007	234	445	57.54	83.9	2.373	118.5	25.22	12.76
111	2007	234	500	57.64	84	1.869	122.2	25.03	12.78
111	2007	234	515	57.73	84.6	1.815	112.4	24.12	12.82
111	2007	234	530	57.91	83.9	2.977	125.3	24.1	12.94
111	2007	234	545	58.35	81	3.471	131.4	24.42	13.1
111	2007	234	600	58.73	80.1	2.374	118.6	26.28	13.3
111	2007	234	615	58.83	80.5	1.48	117.4	30.31	13.39
111	2007	234	630	58.86	81.8	1.31	83.3	21.73	13.38
111	2007	234	645	58.94	82.7	1.626	71.7	22.64	13.38
111	2007	234	700	59.09	83	1.933	73.2	40.58	13.37
111	2007	234	715	59.44	83.1	2.901	73.5	27.09	13.35
111	2007	234	730	59.78	83.3	2.766	70.4	26.7	13.34
111	2007	234	745	59.98	83.6	2.226	90.5	31.43	13.33
111	2007	234	800	60.43	83.8	2.375	88.2	31.57	13.32
111	2007	234	815	61.19	83.4	2.687	98.8	34.95	13.32
111	2007	234	830	61.82	82	3.495	119.8	28.27	13.31
111	2007	234	845	62.34	81.2	3.35	122.1	33.44	13.31
111	2007	234	900	62.52	80.9	3.688	121.2	28.54	13.32
111	2007	234	915	62.88	77.3	4.373	126.4	23.63	13.32
111	2007	234	930	63.23	75.5	4.849	137.7	30.71	13.32
111	2007	234	945	63.74	74.8	5.169	122.6	31.49	13.32
111	2007	234	1000	63.93	74	5.153	127.1	29.33	13.31
111	2007	234	1015	64.51	73.3	5.195	126.1	29.75	13.3
111	2007	234	1030	64.97	72.7	6.273	145	24.15	13.3
111	2007	234	1045	65.06	72.1	5.677	150.9	25.13	13.3
111	2007	234	1100	64.78	72.7	5.874	142.4	26.35	13.3
111	2007	234	1115	64.69	74.7	4.96	134.4	27.18	13.3
111	2007	234	1130	64.85	75.4	4.629	134.3	24.8	13.3
111	2007	234	1145	64.93	73.9	3.924	141.9	27.93	13.3
111	2007	234	1200	65.08	73.7	3.644	143.5	51.81	13.3
111	2007	234	1215	65.16	73.6	4.992	153.5	20.55	13.3
111	2007	234	1230	65.09	77.1	5.957	159.2	28.61	13.32

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	234	1245	64.05	79.1	6.616	154.5	22.49	13.31
111	2007	234	1300	63.97	78.6	6.883	154.5	23.87	13.31
111	2007	234	1315	63.99	76.2	6.686	167.2	27.51	13.31
111	2007	234	1330	64.61	72.1	6.19	165.1	28.03	13.3
111	2007	234	1345	65.04	70.8	6.531	163.1	21.52	13.3
111	2007	234	1400	65.14	71.1	6.114	159	24.9	13.3
111	2007	234	1415	65.72	70.9	4.546	150.3	26.03	13.3
111	2007	234	1430	65.78	71.2	4.909	148.4	25.68	13.3
111	2007	234	1445	65.81	68.7	5.588	161.5	23.75	13.3
111	2007	234	1500	65.88	69.4	5.02	137.5	34.01	13.3
111	2007	234	1515	65.84	67.6	4.758	127.8	27.23	13.24
111	2007	234	1530	65.78	63.79	5.943	131.7	25.75	13.18
111	2007	234	1545	65.64	65.42	5.524	130.2	25	13.19
111	2007	234	1600	65.74	66.16	4.925	132.1	25.34	13.06
111	2007	234	1615	65.76	62.38	5.201	132.4	27.78	13
111	2007	234	1630	65.82	63.28	4.393	138.6	38.64	12.96
111	2007	234	1645	65.88	64.65	4.363	157.7	28.33	12.94
111	2007	234	1700	65.56	65.92	5.167	139.8	27.86	12.92
111	2007	234	1715	65.43	66.23	4.373	155.9	23.71	12.91
111	2007	234	1730	65.6	65.99	4.47	166.1	23.31	12.89
111	2007	234	1745	65.72	65.96	4.553	160	25.29	12.88
111	2007	234	1800	65.61	64.93	4.643	148.2	27.63	12.88
111	2007	234	1815	65.35	64.22	5.647	146.2	23.38	12.87
111	2007	234	1830	65.11	62.75	5.56	158.5	22.27	12.87
111	2007	234	1845	64.93	64.53	4.51	144.9	23.55	12.87
111	2007	234	1900	64.72	65.53	3.088	152	25.15	12.86
111	2007	234	1915	64.58	66.4	4.085	152.3	23.04	12.86
111	2007	234	1930	64.23	68.51	4.226	132	25.47	12.86
111	2007	234	1945	63.93	70.2	4.528	143.7	25.21	12.86
111	2007	234	2000	63.81	71.1	3.845	160	19.67	12.85
111	2007	234	2015	63.58	74.6	4.158	167.7	24.12	12.85
111	2007	234	2030	63.21	76	4.41	149.9	23.8	12.85
111	2007	234	2045	63.06	74.7	3.952	125.2	26.41	12.85
111	2007	234	2100	62.74	76.8	3.718	119.1	22.81	12.85
111	2007	234	2115	62.46	79.1	3.499	125.1	27.52	12.85
111	2007	234	2130	62.25	80.6	2.96	103.7	30.59	12.85
111	2007	234	2145	62.16	81	2.487	102.7	29.9	12.85
111	2007	234	2200	62.25	80.2	2.285	84.3	32.53	12.84
111	2007	234	2215	62.33	79.8	3.118	115.6	25.64	12.84
111	2007	234	2230	62.42	79.6	2.098	107.4	31.44	12.83
111	2007	234	2245	62.45	79.4	2.042	110.4	27.57	12.83
111	2007	234	2300	62.52	79.3	2.002	108	21.95	12.83
111	2007	234	2315	62.61	79.3	1.899	109.5	27.12	12.83
111	2007	234	2330	62.56	80.2	1.988	119.9	22.87	12.82
111	2007	234	2345	62.42	80.2	2.012	102.8	29.98	12.82
111	2007	234	2400	62.46	80.1	2.072	119.4	24.44	12.82
111	2007	235	15	62.51	80.1	1.547	95.8	34.77	12.81
111	2007	235	30	62.63	79.7	0.745	92.4	26.06	12.81
111	2007	235	45	62.72	79.7	1.775	115.2	18.55	12.8
111	2007	235	100	62.76	79.9	1.626	115.7	26.18	12.8
111	2007	235	115	62.73	80.3	1.56	115.8	27.29	12.8
111	2007	235	130	62.65	81.2	2.131	124	21.35	12.79
111	2007	235	145	62.54	82	1.896	135	28.35	12.78
111	2007	235	200	62.23	84.3	1.879	154.8	32.46	12.78
111	2007	235	215	61.63	87.2	2.87	175.4	17.84	12.78
111	2007	235	230	61.22	88.6	2.711	165.7	20.82	12.77
111	2007	235	245	61	89.7	3.723	152.1	16.74	12.78
111	2007	235	300	60.85	90.4	2.578	142.8	24.71	12.77
111	2007	235	315	60.69	91.2	1.993	145.2	30.52	12.77
111	2007	235	330	60.54	91.7	1.855	127.5	35.03	12.77

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	235	345	60.52	91.8	1.84	162.8	24.58	12.77
111	2007	235	400	60.51	91.9	2.937	160.9	18.8	12.77
111	2007	235	415	60.5	92	3.112	152.5	20.39	12.83
111	2007	235	430	60.63	92	2.349	137	29.44	12.97
111	2007	235	445	60.68	92.1	2.087	124.5	27.82	13.27
111	2007	235	500	60.66	92.3	2.643	117.6	20.03	13.18
111	2007	235	515	60.71	92.3	1.847	105.5	24.77	13.17
111	2007	235	530	60.72	92.4	2.079	108.4	23.16	13.25
111	2007	235	545	60.81	92.5	2.133	88	27.91	13.32
111	2007	235	600	60.84	92.5	2.123	90.9	33.11	13.32
111	2007	235	615	60.85	92.6	2.316	100.6	29.08	13.29
111	2007	235	630	60.98	92.7	2.564	104.8	28	13.27
111	2007	235	645	61.23	92.5	2.431	108.3	28.14	13.32
111	2007	235	700	61.45	92.2	3.114	108.6	21.11	13.32
111	2007	235	715	61.76	91.8	2.828	94	29.27	13.32
111	2007	235	730	62.06	91.3	2.284	103.1	33.95	13.31
111	2007	235	745	62.37	90.5	3.197	108	29.64	13.31
111	2007	235	800	62.74	89.8	2.729	116.9	31.27	13.3
111	2007	235	815	63.07	89	2.943	111.2	32.52	13.3
111	2007	235	830	63.2	88.8	2.502	95.7	32.06	13.3
111	2007	235	845	63.61	88.3	2.479	91.8	32.27	13.3
111	2007	235	900	63.72	89	3.654	107.7	27.76	13.31
111	2007	235	915	63.86	89	3.362	106	27.28	13.3
111	2007	235	930	64.24	88.8	2.939	96	37.5	13.3
111	2007	235	945	64.47	88.1	2.766	113.8	29.89	13.3
111	2007	235	1000	64.53	88.6	2.56	100.7	29.88	13.3
111	2007	235	1015	64.99	87.7	2.04	90.4	32.18	13.3
111	2007	235	1030	65.69	86.6	2.715	109	38.61	13.29
111	2007	235	1045	66.1	85	2.192	81.4	38.84	13.29
111	2007	235	1100	66.3	84.6	1.815	169.3	78.3	13.29
111	2007	235	1115	67.03	82.7	2.119	112	50.95	13.28
111	2007	235	1130	67.33	82.4	2.147	170.5	40.47	13.28
111	2007	235	1145	67.93	82.1	2.403	202.5	43.54	13.28
111	2007	235	1200	68.37	81.3	2.58	223.4	53.02	13.29
111	2007	235	1215	68.48	81.7	2.927	249.5	33.41	13.29
111	2007	235	1230	68.05	84.1	4.234	219.7	28.32	13.28
111	2007	235	1245	68.5	80.8	3.968	215	28.82	13.28
111	2007	235	1300	70.3	77.6	3.988	205.2	36.93	13.28
111	2007	235	1315	69.48	81.5	3.448	221.7	31.84	13.28
111	2007	235	1330	68.98	80.6	3.753	240.6	24.83	13.28
111	2007	235	1345	69.87	76.6	3.078	224.6	40.56	13.28
111	2007	235	1400	70.4	78.1	3.926	228.7	31.2	13.29
111	2007	235	1415	69.83	78.1	4.549	207.9	30.55	13.29
111	2007	235	1430	70.1	78.2	4.577	206.1	28	13.28
111	2007	235	1445	70	78.7	4.224	219	27.75	13.24
111	2007	235	1500	71	76.6	2.941	231	39.56	13.3
111	2007	235	1515	71.7	74.6	2.95	209.9	37.74	13.22
111	2007	235	1530	73	75.8	3.042	227.1	42.58	13.08
111	2007	235	1545	71.7	78.6	4.561	230.7	27.21	13.01
111	2007	235	1600	72.1	77.1	3.857	240.6	32.36	12.97
111	2007	235	1615	72.1	74.7	3.775	220.1	28.14	12.95
111	2007	235	1630	72.7	76.4	3.491	233	39.08	12.93
111	2007	235	1645	71.5	79.4	4.734	218.4	34.22	12.92
111	2007	235	1700	70.5	81.9	5.203	218.7	29.05	12.9
111	2007	235	1715	68.8	85.3	4.925	205.7	28.76	12.89
111	2007	235	1730	67.87	87.2	4.843	212.4	26.24	12.88
111	2007	235	1745	66.98	88	4.19	212.7	30.59	12.87
111	2007	235	1800	66.27	89.6	3.817	213.3	35.24	12.87
111	2007	235	1815	65.64	90.4	3.864	217.9	25.88	12.87
111	2007	235	1830	65.3	91.6	2.629	225.8	38.08	12.86

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	235	1845	65.61	91.7	3.338	194.7	36.26	12.86
111	2007	235	1900	65.63	91.7	3.886	192.6	27.41	12.86
111	2007	235	1915	65.36	92.2	3.594	200.2	30.32	12.86
111	2007	235	1930	65.02	93	4.506	201.7	18.86	12.85
111	2007	235	1945	65.05	93.6	3.868	190.1	19.3	12.85
111	2007	235	2000	64.99	93.8	3.275	207.2	28.1	12.85
111	2007	235	2015	65.02	94	2.131	209.2	32.92	12.84
111	2007	235	2030	65.01	94.2	2.862	202.1	25.24	12.84
111	2007	235	2045	65.06	94.3	1.859	237.2	28.24	12.83
111	2007	235	2100	64.89	94.5	3.404	209.4	23.98	12.83
111	2007	235	2115	64.75	94.5	2.485	221.6	35.1	12.82
111	2007	235	2130	64.45	94.6	2.699	220	41.3	12.82
111	2007	235	2145	64.4	94.9	2.912	235	26.81	12.82
111	2007	235	2200	64.49	94.9	2.328	232.3	31.97	12.81
111	2007	235	2215	64.55	95.1	2.024	258.5	43.76	12.81
111	2007	235	2230	64.58	95.1	2.119	236.8	26.37	12.81
111	2007	235	2245	64.67	95	1.463	268.6	46.16	12.8
111	2007	235	2300	64.56	95.2	1.804	288.8	34.37	12.8
111	2007	235	2315	64.66	95.2	1.842	323.1	25.62	12.79
111	2007	235	2330	64.6	95.4	1.15	305.8	40.87	12.79
111	2007	235	2345	64.66	95.4	0.466	284.8	13.5	12.79
111	2007	235	2400	64.65	95.3	0.574	266.1	24.94	12.78
111	2007	236	15	64.74	95.4	0.654	7.24	18	12.77
111	2007	236	30	64.75	95.5	0.552	43.54	17.13	12.77
111	2007	236	45	64.77	95.5	0.83	328.2	15.89	12.77
111	2007	236	100	64.89	95.6	1.678	3.509	25.43	12.76
111	2007	236	115	64.86	95.5	1.756	357.7	23.74	12.75
111	2007	236	130	64.96	95.6	1.558	345.7	24.52	12.75
111	2007	236	145	64.89	95.6	2.351	344.2	21.82	12.75
111	2007	236	200	64.95	95.7	2.62	329.7	23.1	12.74
111	2007	236	215	64.88	95.7	2.07	349.8	19.57	12.74
111	2007	236	230	64.87	95.8	1.986	358.8	33.98	12.73
111	2007	236	245	64.85	95.8	2.606	343.7	32.84	12.73
111	2007	236	300	64.76	95.8	2.054	335.1	26.54	12.72
111	2007	236	315	64.69	95.8	2.044	343	24.7	12.7
111	2007	236	330	64.68	95.8	1.591	351.5	34.37	12.71
111	2007	236	345	64.66	95.9	1.732	338.2	24.23	12.72
111	2007	236	400	64.67	95.9	1.301	344.5	21.64	12.72
111	2007	236	415	64.71	96	0.357	10.89	5.896	12.72
111	2007	236	430	64.78	96	0.472	276.8	20.86	12.73
111	2007	236	445	64.83	96	1.268	323.5	17.12	12.87
111	2007	236	500	64.82	96	1.72	279.6	33.1	13.1
111	2007	236	515	64.94	96	1.781	310.9	20.04	13.35
111	2007	236	530	64.97	96	0.797	260.1	24.31	13.38
111	2007	236	545	65.07	96	1.782	230.5	21.44	13.37
111	2007	236	600	65.12	96	1.869	288.3	31.83	13.35
111	2007	236	615	65.17	96.1	2.34	297.4	31.76	13.35
111	2007	236	630	65.02	96.1	2.931	300.6	22.94	13.33
111	2007	236	645	65.1	96.2	2.643	313.3	23.22	13.33
111	2007	236	700	64.95	96.1	3.305	314	23.82	13.32
111	2007	236	715	64.83	96.1	2.737	321.9	22.23	13.31
111	2007	236	730	64.98	96.1	1.927	294.6	36.42	13.3
111	2007	236	745	65.03	96.2	2.342	323.8	32.34	13.29
111	2007	236	800	65.23	96.1	2.673	321.7	23.8	13.27
111	2007	236	815	65.37	96.1	2.083	322.5	34.49	13.28
111	2007	236	830	66.22	96.1	1.623	231.6	44.59	13.28
111	2007	236	845	67.18	96	1.921	260.3	50.68	13.28
111	2007	236	900	67.56	96	2.336	252.1	47.98	13.28
111	2007	236	915	67.68	95.3	2.917	217.1	23.35	13.28
111	2007	236	930	68.21	94.9	2.911	232.7	39.35	13.26

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	236	945	69.19	92.4	3.422	233.3	35.36	13.27
111	2007	236	1000	69.73	90.5	3.789	245.8	29.92	13.27
111	2007	236	1015	70.2	86.3	3.481	234.4	37.73	13.28
111	2007	236	1030	71.2	82	3.221	243.5	45.15	13.28
111	2007	236	1045	71.8	81.9	4.14	222.3	42.88	13.27
111	2007	236	1100	72.3	79.8	3.859	263.1	51.07	13.28
111	2007	236	1115	73.8	75.5	3.592	261.4	52.22	13.28
111	2007	236	1130	74.7	75.1	4.013	255.2	36.54	13.27
111	2007	236	1145	74.7	74.9	4.347	265.5	41.09	13.27
111	2007	236	1200	74.8	74.7	4.542	266.1	38.35	13.27
111	2007	236	1215	75.5	74	4.855	291.5	44.88	13.27
111	2007	236	1230	74.8	73.3	5.471	287.1	39.38	13.28
111	2007	236	1245	75.1	73.4	5.171	303	29.67	13.26
111	2007	236	1300	75.4	73.4	5.806	298.7	32.83	13.28
111	2007	236	1315	75.7	72.8	4.895	274.5	36.25	13.28
111	2007	236	1330	76.1	72.3	4.883	284.1	34.61	13.28
111	2007	236	1345	76.4	72.2	6.102	307.4	29.76	13.28
111	2007	236	1400	76.5	70.8	4.76	280.1	39	13.28
111	2007	236	1415	76.1	72.1	5	273.5	38.75	13.29
111	2007	236	1430	75.8	72.2	5.451	293.5	38.71	13.3
111	2007	236	1445	75.8	73	5.465	245.8	35.68	13.3
111	2007	236	1500	75.9	72.8	5.667	251.1	31.64	13.3
111	2007	236	1515	75.6	73.8	5.127	232.6	41.77	13.3
111	2007	236	1530	74.7	75.3	6.066	237.7	32.05	13.31
111	2007	236	1545	75.1	74.7	5.749	237.2	35.95	13.33
111	2007	236	1600	75.4	72.5	6.472	262.4	22.31	13.09
111	2007	236	1615	74.7	74.3	5.739	251.9	28.87	13.01
111	2007	236	1630	74.1	75.3	5.544	243.4	39.06	12.97
111	2007	236	1645	74.7	77	4.982	228.2	39.3	12.94
111	2007	236	1700	73.7	77.5	5.677	213.6	38.81	12.91
111	2007	236	1715	73.3	78.7	5.225	220.5	37.65	12.89
111	2007	236	1730	73.2	78.4	4.52	223.7	40.51	12.88
111	2007	236	1745	72.3	79	5.26	227.2	41.56	12.87
111	2007	236	1800	71.9	80.2	4.82	242.6	36.84	12.86
111	2007	236	1815	71.6	81.6	5.741	256.6	24.87	12.85
111	2007	236	1830	71.4	81.6	4.768	260.5	34.37	12.85
111	2007	236	1845	71	82.3	3.94	249	26.79	12.84
111	2007	236	1900	70.4	84.9	5.149	244.1	28.17	12.83
111	2007	236	1915	69.87	85.8	4.597	255.9	27.39	12.83
111	2007	236	1930	69.62	85.7	3.64	255.4	28.53	12.83
111	2007	236	1945	69.47	86.1	3.579	249.1	24.65	12.82
111	2007	236	2000	69.15	87.1	3.225	230.4	36.17	12.82
111	2007	236	2015	68.94	87.2	3.93	240.8	35.39	12.81
111	2007	236	2030	68.83	87.4	3.988	238.2	33.32	12.81
111	2007	236	2045	68.72	87.7	3.884	239.2	35.96	12.81
111	2007	236	2100	68.75	87.4	4.067	247.5	27.55	12.81
111	2007	236	2115	68.76	87.7	3.396	255.3	36.94	12.8
111	2007	236	2130	68.67	88	3.866	249.5	29.32	12.8
111	2007	236	2145	68.63	88.1	3.745	243.6	27.07	12.8
111	2007	236	2200	68.69	88.1	4.138	245.8	29.97	12.8
111	2007	236	2215	68.8	88.2	4.631	260.4	25.1	12.79
111	2007	236	2230	68.97	88	4.76	261.6	26	12.79
111	2007	236	2245	69.07	88.1	4.802	263.7	17.95	12.77
111	2007	236	2300	69.21	88.3	4.587	266	20.43	12.77
111	2007	236	2315	69.47	88	3.615	265.7	23.95	12.78
111	2007	236	2330	69.74	88	2.824	260.6	32.1	12.77
111	2007	236	2345	70	88.1	3.813	251.8	29.33	12.77
111	2007	236	2400	70	88.7	4.555	263.8	26.05	12.76
111	2007	237	15	69.9	89.4	3.622	253.5	23.32	12.76
111	2007	237	30	69.69	90.2	4.565	258	25.76	12.76

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	237	45	69.59	90.9	4.498	261.2	29.13	12.76
111	2007	237	100	69.7	90.8	3.942	271.1	24	12.75
111	2007	237	115	69.77	90.7	3.11	259.4	21.17	12.74
111	2007	237	130	69.71	90.9	3.092	262.5	19.29	12.74
111	2007	237	145	69.67	90.9	3.023	256.5	21.83	12.74
111	2007	237	200	69.52	91.1	2.89	254.9	23.25	12.73
111	2007	237	215	69.44	91.3	2.729	257.2	23	12.73
111	2007	237	230	69.35	91.5	3.618	258.5	18.91	12.72
111	2007	237	245	69.32	91.7	3.67	262	19.09	12.72
111	2007	237	300	69.18	91.9	3.497	257.6	28.48	12.72
111	2007	237	315	69.01	92.2	3.428	248.6	27.54	12.71
111	2007	237	330	68.95	92.5	2.637	247.1	29.35	12.71
111	2007	237	345	68.95	92.9	3.904	262.3	23.29	12.7
111	2007	237	400	69	93	3.793	257.1	21.4	12.7
111	2007	237	415	69.02	93.2	3.918	261.8	21.74	12.7
111	2007	237	430	69.07	93.3	4.085	257	23.25	12.71
111	2007	237	445	69.09	93.5	3.132	257.3	28.05	12.74
111	2007	237	500	69.15	93.5	3.571	249.4	28.13	12.76
111	2007	237	515	69.12	93.6	3.805	260.4	25.24	12.8
111	2007	237	530	69.17	93.6	3.908	263.3	26.44	12.89
111	2007	237	545	69.16	93.8	3.273	253.3	27.3	13.12
111	2007	237	600	69.09	94	3.352	250.5	27.8	13.36
111	2007	237	615	69.1	94.3	2.989	249.3	21.99	13.34
111	2007	237	630	69.17	94.4	2.259	233.7	38.14	13.33
111	2007	237	645	69.1	94.6	2.371	238.5	37.86	13.32
111	2007	237	700	68.92	94.7	2.548	249.6	28.82	13.32
111	2007	237	715	68.85	94.8	3.354	256.8	26.1	13.31
111	2007	237	730	68.98	94.9	3.07	239.6	28.4	13.29
111	2007	237	745	69.08	94.8	3.283	248.6	26.81	13.28
111	2007	237	800	69.13	94.9	4.222	259.8	26.64	13.28
111	2007	237	815	69.3	95.1	3.712	252.2	22.94	13.27
111	2007	237	830	69.56	95.1	3.765	241	32.39	13.27
111	2007	237	845	69.75	95	4.317	252.5	29.23	13.27
111	2007	237	900	70	95	3.793	247.3	31.51	13.27
111	2007	237	915	70.4	95	3.785	245.8	30.19	13.28
111	2007	237	930	70.5	95.1	4.591	250.7	32	13.29
111	2007	237	945	70.9	95.1	4.913	257.1	23.68	13.29
111	2007	237	1000	71.6	94.6	5.103	263.8	23.79	13.29
111	2007	237	1015	72	93.7	5.908	264.1	21.57	13.3
111	2007	237	1030	72.8	91.5	5.695	258.7	26.83	13.31
111	2007	237	1045	73.1	89.2	6.094	255	24.52	13.32
111	2007	237	1100	74	86.8	4.321	240.6	34.19	13.32
111	2007	237	1115	74.4	86	5.346	278.5	30.87	13.32
111	2007	237	1130	75.2	83.9	3.489	283.2	41.59	13.32
111	2007	237	1145	75.1	83.9	5.028	322.4	27.84	13.31
111	2007	237	1200	74.9	86	3.831	305	32.3	13.31
111	2007	237	1215	74.9	86.3	3.602	290.8	36.01	13.31
111	2007	237	1230	74.1	87.8	4.246	291.3	35.66	13.31
111	2007	237	1245	73.8	87.8	3.708	285.2	32.37	13.31
111	2007	237	1300	74.7	84.9	4.627	280.7	31.46	13.31
111	2007	237	1315	75.3	85.6	3.946	283.1	49.59	13.3
111	2007	237	1330	75.9	84.1	4.774	287.9	37.97	13.3
111	2007	237	1345	75.9	86.2	5.455	303.9	30.66	13.3
111	2007	237	1400	75.6	84.9	5.447	308.6	28.59	13.31
111	2007	237	1415	75.5	84.9	5.107	306.3	33.25	13.31
111	2007	237	1430	75.5	86.1	4.724	305.5	30.64	13.31
111	2007	237	1445	75.9	85.2	4.426	299	33.75	13.32
111	2007	237	1500	75.2	87	4.331	302.8	41.3	13.32
111	2007	237	1515	73.9	89.1	4.432	294	30.68	13.33
111	2007	237	1530	73.8	89.1	4.446	310.9	25.68	13.34

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	237	1545	75.1	85.1	3.563	298.9	42.99	13.35
111	2007	237	1600	76.6	81.8	4.436	306.4	27.66	13.1
111	2007	237	1615	76.2	83	3.65	282.9	47.69	13.02
111	2007	237	1630	75.9	83.9	3.797	282.3	38.45	12.97
111	2007	237	1645	76.4	82.1	3.628	304.6	36.75	12.94
111	2007	237	1700	75.9	82.9	3.944	257.6	38.44	12.91
111	2007	237	1715	75.3	82.3	4.426	253.9	36.31	12.89
111	2007	237	1730	76.3	80.2	3.71	253.7	35.4	12.88
111	2007	237	1745	77	80.7	4.18	301.4	43.48	12.87
111	2007	237	1800	76.9	79.9	3.791	281.4	39.07	12.85
111	2007	237	1815	75.9	81.8	3.962	285.6	41.63	12.85
111	2007	237	1830	75.2	84.9	3.813	256.5	38.81	12.84
111	2007	237	1845	73.7	86.3	3.382	270.3	45.35	12.84
111	2007	237	1900	73.8	86.1	3.324	291.9	45.8	12.83
111	2007	237	1915	73.4	86.9	3.193	288.7	44.68	12.82
111	2007	237	1930	73	88.1	3.475	289.5	40.32	12.82
111	2007	237	1945	72.6	88.8	3.094	277.7	30.62	12.82
111	2007	237	2000	72.3	89.3	3.733	281.2	41.91	12.81
111	2007	237	2015	72.3	89.4	4.035	291.8	32.97	12.8
111	2007	237	2030	72.2	89.9	3.656	297.3	32.62	12.8
111	2007	237	2045	72	89.9	4.69	308.7	27.24	12.8
111	2007	237	2100	72.3	89.5	4.625	294.3	29.93	12.8
111	2007	237	2115	72.5	88.8	5.262	308.3	30.45	12.8
111	2007	237	2130	73	87.7	5.534	324	20.99	12.79
111	2007	237	2145	73.3	87.3	5.759	316.4	20.13	12.79
111	2007	237	2200	73.1	87.9	5.745	317.2	27.28	12.78
111	2007	237	2215	72.8	88.6	5.54	312.8	24.76	12.78
111	2007	237	2230	72.7	88.9	5.771	316.1	21.57	12.77
111	2007	237	2245	72.7	88.8	5.326	317.3	23.06	12.77
111	2007	237	2300	72.8	88.9	5.999	315.6	20.64	12.77
111	2007	237	2315	72.7	89.1	6.273	318.6	18.93	12.77
111	2007	237	2330	72.6	89.5	4.808	308.6	22.19	12.77
111	2007	237	2345	72.7	89.2	5.169	317.9	24.57	12.76
111	2007	237	2400	72.8	89.1	4.353	315.4	22.73	12.76
111	2007	238	15	72.8	89	3.539	311	25.16	12.75
111	2007	238	30	72.7	89	2.087	295.6	31.81	12.76
111	2007	238	45	72.4	89.8	2.155	287.2	34.43	12.75
111	2007	238	100	72.2	90.2	2.077	290.5	30.84	12.74
111	2007	238	115	71.9	90.6	3.05	300.8	29.49	12.74
111	2007	238	130	71.7	90.6	3.908	313.9	19.66	12.74
111	2007	238	145	72.1	90.2	4.47	316.2	19.62	12.73
111	2007	238	200	72.4	89.6	3.737	329.3	16.36	12.73
111	2007	238	215	72.6	89.7	3.09	322.2	19.6	12.72
111	2007	238	230	72.5	89.8	2.606	309.3	26.84	12.72
111	2007	238	245	72.3	90.2	2.846	316.4	18.42	12.71
111	2007	238	300	72	90.8	3.449	324.1	16.09	12.71
111	2007	238	315	71.9	91.1	3.773	324.2	17.23	12.7
111	2007	238	330	72	91	3.162	329.3	15.06	12.7
111	2007	238	345	72	91.3	2.59	332.4	17.76	12.7
111	2007	238	400	72.1	91.5	2.526	338.2	25.69	12.7
111	2007	238	415	72.4	91.2	3.07	330.3	17.5	12.71
111	2007	238	430	72.7	90.9	2.659	343.6	24.3	12.74
111	2007	238	445	73	90.5	2.578	335.5	29.16	12.82
111	2007	238	500	73.3	89.4	2.608	337.6	20.27	12.97
111	2007	238	515	73.6	88.3	2.363	338	16.82	13.02
111	2007	238	530	73.7	87.1	1.387	354.4	24.62	13.32
111	2007	238	545	73.3	87.4	0.011	19.65	0.008	13.42
111	2007	238	600	74.1	77.2	3.839	359.6	27.18	13.41
111	2007	238	615	75.3	75	3.033	16.97	21.66	13.41
111	2007	238	630	75.3	74.4	2.23	26.34	28.2	13.39

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	238	645	75	74.6	2.245	10.7	31.75	13.37
111	2007	238	700	75.4	72.6	3.089	30.21	32.14	13.34
111	2007	238	715	76.1	71	2.615	50.11	39.17	13.33
111	2007	238	730	77.1	68.08	2.423	75.8	41.56	13.32
111	2007	238	745	77.8	67.37	3.398	71	32.12	13.32
111	2007	238	800	78	67.7	3.225	75.3	36.18	13.31
111	2007	238	815	77.7	68.47	2.623	74.3	39.5	13.31
111	2007	238	830	77.6	68.67	2.625	78.5	31.15	13.31
111	2007	238	845	77.4	69.84	2.129	32.5	49.86	13.31
111	2007	238	900	77.1	71.1	2.8	3.544	21.33	13.31
111	2007	238	915	77.2	71.4	3.124	356.2	23.63	13.31
111	2007	238	930	77.5	70.6	3.199	359.7	23.85	13.31
111	2007	238	945	77.1	72.5	2.288	358.5	19.86	13.31
111	2007	238	1000	76.8	73.8	2.745	341.8	24.85	13.31
111	2007	238	1015	76.9	72.7	2.473	345.2	23.26	13.31
111	2007	238	1030	77.2	71.3	3.477	328.6	16.33	13.3
111	2007	238	1045	77.6	70.7	3.781	336.5	20.1	13.3
111	2007	238	1100	78.3	67.47	3.886	349.1	30.56	13.3
111	2007	238	1115	78.5	68.7	4.718	331	23.74	13.3
111	2007	238	1130	78.5	66.76	4.309	349.9	20.47	13.3
111	2007	238	1145	78.6	68.16	4.264	343.8	15.61	13.29
111	2007	238	1200	78.4	68.56	4.353	356.1	32.14	13.29
111	2007	238	1215	78.4	66.56	4.871	356.4	31.41	13.29
111	2007	238	1230	78.1	66.96	5.296	353.3	31.08	13.29
111	2007	238	1245	78.3	67.46	4.083	4.591	23.13	13.29
111	2007	238	1300	78.4	66.76	3.334	4.902	29.56	13.29
111	2007	238	1315	79.1	65.99	3.976	352.7	26.16	13.29
111	2007	238	1330	79.5	64.15	4.045	357.2	28.22	13.29
111	2007	238	1345	79.7	63.15	3.229	23.73	32.85	13.3
111	2007	238	1400	79.7	64.72	3.819	15.49	26.35	13.3
111	2007	238	1415	80	64.88	3.144	5.932	38.87	13.3
111	2007	238	1430	80.4	64.88	3.32	23.77	27.86	13.3
111	2007	238	1445	79.9	65.18	3.92	10.32	25.66	13.31
111	2007	238	1500	79.3	66.18	4.003	31.78	26.85	13.3
111	2007	238	1515	79	66.95	3.451	28.9	24.94	13.32
111	2007	238	1530	79.7	64.41	3.67	24.95	30.74	13.33
111	2007	238	1545	80.2	62.87	5.012	4.922	27.17	13.19
111	2007	238	1600	80.7	59.09	4.047	35.92	36.41	13.05
111	2007	238	1615	80.9	61.4	3.9	27.82	32.31	12.99
111	2007	238	1630	80.2	63.5	3.898	42.5	27.97	12.95
111	2007	238	1645	80	65.71	3.412	36.92	32.67	12.93
111	2007	238	1700	79.7	65.34	4.067	47.19	29.78	12.91
111	2007	238	1715	79	66.74	4.81	38.05	24.09	12.89
111	2007	238	1730	79	66.15	4.063	51.82	32.33	12.87
111	2007	238	1745	78.8	67.06	3.72	44.63	24.9	12.87
111	2007	238	1800	78.2	68.49	2.723	17.43	29.63	12.86
111	2007	238	1815	77.9	69.2	2.24	6.236	24.6	12.85
111	2007	238	1830	77.6	70.5	2.429	5.185	26.19	12.84
111	2007	238	1845	77.4	71.3	2.064	3.42	26.19	12.84
111	2007	238	1900	77.1	72.5	1.712	1.691	24.76	12.83
111	2007	238	1915	76.8	73.4	1.371	3.002	18.7	12.83
111	2007	238	1930	76.6	74.4	1.414	11.24	26.86	12.83
111	2007	238	1945	76.2	75.9	1.202	353.3	24.28	12.82
111	2007	238	2000	75.7	77.7	0.76	17.2	13.21	12.82
111	2007	238	2015	75.3	79.1	0.156	4.954	5.407	12.82
111	2007	238	2030	74.9	80.2	1.2	17.48	17.95	12.82
111	2007	238	2045	74.6	79.7	1.15	22.3	39.13	12.82
111	2007	238	2100	74.6	73.6	2.136	80.5	42.69	12.81
111	2007	238	2115	75.2	69.08	3.475	84.1	30.59	12.81
111	2007	238	2130	75	69.02	2.967	67.2	31.17	12.81

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	238	2145	74.6	68.55	2.353	82.6	37.27	12.81
111	2007	238	2200	74.1	68.25	2.385	68.38	28.5	12.81
111	2007	238	2215	73.7	68.32	2.391	71.5	30.45	12.8
111	2007	238	2230	73.2	68.99	2.749	68.35	26.5	12.8
111	2007	238	2245	72.8	69.73	2.395	70.4	31.52	12.8
111	2007	238	2300	72.2	71	1.735	86.3	30.75	12.79
111	2007	238	2315	71.9	71	2.308	77.3	30.2	12.79
111	2007	238	2330	71.5	72.1	2.151	71.3	24.47	12.78
111	2007	238	2345	71.2	72.7	2.544	70.9	26.23	12.78
111	2007	238	2400	70.9	74	2.361	65.23	27.26	12.77
111	2007	239	15	70.4	76.8	1.724	39.03	34.41	12.77
111	2007	239	30	69.58	78.2	1.859	30.55	21.1	12.76
111	2007	239	45	69.66	77.8	3.241	53.63	23.19	12.75
111	2007	239	100	69.8	78.1	2.953	50.93	24.94	12.75
111	2007	239	115	69.67	78	3.04	56.45	30.03	12.75
111	2007	239	130	69.58	78.4	2.554	59.9	27.14	12.74
111	2007	239	145	69.3	78.8	2.473	75.5	28.58	12.74
111	2007	239	200	69.16	79.6	2.661	65.45	24.13	12.73
111	2007	239	215	68.9	80.6	2.747	57.17	26.78	12.73
111	2007	239	230	68.57	81.4	1.748	55.45	35.49	12.72
111	2007	239	245	68.21	82.6	2.171	56.2	23.89	12.72
111	2007	239	300	67.61	84.2	1.46	41.37	23.06	12.71
111	2007	239	315	67.39	84.8	2.247	64.94	29.16	12.7
111	2007	239	330	67.42	84.9	1.884	69	32.58	12.7
111	2007	239	345	67.4	85.2	2.181	67.4	24.41	12.7
111	2007	239	400	67.31	85.5	2.469	80.7	27.79	12.71
111	2007	239	415	67.29	85.8	2.298	84.1	26.61	12.76
111	2007	239	430	67.23	85.3	2.955	91.7	36.3	12.78
111	2007	239	445	67.35	85	3.175	92.3	35.44	12.82
111	2007	239	500	67.33	85.1	3.054	95.8	33.61	12.9
111	2007	239	515	67.27	85	2.558	101.8	41.88	13.01
111	2007	239	530	67.14	85.4	2.614	100	40.49	13.21
111	2007	239	545	67.07	85.8	3.116	93.1	30.32	13.39
111	2007	239	600	66.92	86.1	3.257	91.5	32.39	13.38
111	2007	239	615	66.88	86	3.173	102.2	34.75	13.37
111	2007	239	630	66.82	86.1	2.925	95.4	28.66	13.36
111	2007	239	645	67.08	85.3	3.15	88	31.89	13.34
111	2007	239	700	67.62	84.6	2.711	96.2	34.12	13.33
111	2007	239	715	68.41	83	3.001	96.6	36.14	13.33
111	2007	239	730	69.15	80.7	3.662	95	33.74	13.32
111	2007	239	745	69.83	79.6	4.113	94.9	37.82	13.31
111	2007	239	800	69.93	79.3	4.301	100.6	33.07	13.3
111	2007	239	815	70.1	79.3	4.303	107	31.96	13.3
111	2007	239	830	70.9	76.1	3.594	99.6	37.03	13.3
111	2007	239	845	72.1	74.3	5.304	102.9	31.36	13.3
111	2007	239	900	73.2	70.1	5.655	116.8	30.49	13.3
111	2007	239	915	73.9	70.9	4.992	113.2	27.73	13.3
111	2007	239	930	73.7	67.91	4.754	116	34	13.3
111	2007	239	945	74.7	65.33	5.993	130.4	27.05	13.29
111	2007	239	1000	75.4	62.15	5.07	117.2	31.36	13.29
111	2007	239	1015	76.3	61.99	5.213	115.3	36.73	13.29
111	2007	239	1030	77.1	60.01	4.204	115.1	35.17	13.28
111	2007	239	1045	77.7	60.04	4.577	127.9	37.02	13.28
111	2007	239	1100	78.5	57.03	4.281	124.9	36.48	13.28
111	2007	239	1115	78.6	58.57	4.488	124.8	34.73	13.28
111	2007	239	1130	78.5	55.52	4.649	106	46.05	13.28
111	2007	239	1145	79	56.63	5.372	115.8	32.32	13.28
111	2007	239	1200	79.1	57.49	5.354	126.8	29.74	13.28
111	2007	239	1215	79.9	55.85	4.222	133.3	43.91	13.27
111	2007	239	1230	80.4	55.28	3.851	112.6	44.62	13.27

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	239	1245	80	61.73	3.585	170.5	61.84	13.27
111	2007	239	1300	77.7	61.66	5.687	223	34.51	13.28
111	2007	239	1315	77.5	61.53	5.838	211.8	31.2	13.28
111	2007	239	1330	76.9	59.09	6.833	204.8	20.44	13.28
111	2007	239	1345	77.5	60.09	6.511	201.1	17.36	13.28
111	2007	239	1400	77.7	58.36	6.565	208.3	19.72	13.28
111	2007	239	1415	77.4	61.8	7.45	212.1	21.97	13.28
111	2007	239	1430	77.7	57.35	6.662	213.6	25.53	13.29
111	2007	239	1445	77.8	59.32	7.58	209.2	22.16	13.3
111	2007	239	1500	77.4	58.69	7.83	213.2	24.38	13.3
111	2007	239	1515	77.8	58.56	7.18	213.8	25.24	13.3
111	2007	239	1530	77.6	56.38	6.668	207.8	24.39	13.3
111	2007	239	1545	78.1	57.89	6.295	204.8	27.43	13.11
111	2007	239	1600	77.6	59.09	6.235	213.9	29.1	13.03
111	2007	239	1615	77.4	59.46	5.868	214.7	21.3	12.98
111	2007	239	1630	77	61.93	5.872	206.4	27.07	12.95
111	2007	239	1645	76.8	61.63	6.215	209.3	23.3	12.92
111	2007	239	1700	76.2	59.53	6.696	209.8	24.02	12.9
111	2007	239	1715	76	59.83	6.886	208.3	23.97	12.89
111	2007	239	1730	76	60.23	6.031	209.6	24.14	12.87
111	2007	239	1745	75.9	62.84	5.588	210	27.77	12.87
111	2007	239	1800	75.5	64.11	4.782	214.8	25.43	12.86
111	2007	239	1815	75	64.25	5.775	208.3	21.75	12.85
111	2007	239	1830	74.6	65.62	5.147	202.2	25.8	12.85
111	2007	239	1845	74.2	65.73	4.397	206.4	25.34	12.84
111	2007	239	1900	73.8	65.76	4.696	196.9	21.91	12.83
111	2007	239	1915	73.2	69.61	4.605	207.3	20.3	12.83
111	2007	239	1930	72.2	72.6	2.874	211.6	27.44	12.83
111	2007	239	1945	71.6	72.8	2.981	215.8	24.72	12.83
111	2007	239	2000	71.3	74.9	2.675	222.3	23.74	12.82
111	2007	239	2015	70.8	75.3	1.659	203.2	32.67	12.82
111	2007	239	2030	70.9	76.4	1.463	171.9	26.1	12.81
111	2007	239	2045	70.6	77.2	1.94	188.1	21.2	12.81
111	2007	239	2100	70.4	77.7	1.982	185.3	22.74	12.81
111	2007	239	2115	70.2	78.4	1.708	193.2	19.29	12.81
111	2007	239	2130	69.82	79	2.363	190.9	19.83	12.8
111	2007	239	2145	69.59	79.7	1.908	190.7	21.54	12.8
111	2007	239	2200	69.42	79.9	2.093	191.4	20.49	12.8
111	2007	239	2215	69.19	80.7	2.022	184.3	18.57	12.79
111	2007	239	2230	68.98	81.2	1.688	184.5	21.41	12.79
111	2007	239	2245	68.85	81.8	1.567	170.3	21.55	12.78
111	2007	239	2300	68.61	83.1	0.483	88.8	43.4	12.78
111	2007	239	2315	67.85	85.1	0.687	43.11	23.33	12.77
111	2007	239	2330	67.3	86	0.533	49.94	16.21	12.77
111	2007	239	2345	66.62	87.1	0.078	54.72	10.95	12.76
111	2007	239	2400	66.03	88.3	na	na	na	12.76
111	2007	240	15	65.57	89.2	na	na	na	12.76
111	2007	240	30	65.19	89.7	0.186	345.5	2.952	12.75
111	2007	240	45	64.75	90.5	0.615	336.4	6.617	12.74
111	2007	240	100	64.42	90.9	na	na	na	12.74
111	2007	240	115	64.16	91.3	na	na	na	12.74
111	2007	240	130	64.11	91.3	0.5	18.09	19.49	12.72
111	2007	240	145	63.85	91.8	0.051	23.12	0.554	12.72
111	2007	240	200	63.67	92	na	na	na	12.72
111	2007	240	215	63.47	92.2	na	na	na	12.71
111	2007	240	230	63.33	92.2	0.176	55.64	4.904	12.7
111	2007	240	245	63.19	92.4	0.103	71.4	8.59	12.7
111	2007	240	300	63.25	92.6	0.672	70.2	20.92	12.7
111	2007	240	315	63.56	92.3	0.606	57.77	22.46	12.7
111	2007	240	330	63.5	92.3	0.283	62.56	15.94	12.7

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	240	345	63.63	92.2	1.128	45.3	20.42	12.69
111	2007	240	400	63.78	92	1.138	65.37	25.83	12.69
111	2007	240	415	63.72	91.8	0.258	81	8.18	12.7
111	2007	240	430	63.35	92.1	0.018	60.51	0.259	12.71
111	2007	240	445	62.97	92.3	0.027	78.2	1.983	12.75
111	2007	240	500	62.92	92.3	0.73	43.8	13.25	12.8
111	2007	240	515	63	92.4	0.555	37.42	17.39	12.89
111	2007	240	530	62.85	92.3	0.174	32.59	5.994	13.06
111	2007	240	545	62.63	92.6	0.369	19.46	5.917	13.35
111	2007	240	600	62.54	92.6	na	na	na	13.36
111	2007	240	615	62.36	92.5	0.009	5.01	0	13.35
111	2007	240	630	62.1	92.9	0.217	317.3	15.3	13.34
111	2007	240	645	62.5	93.2	0.428	347.6	13.12	13.33
111	2007	240	700	63.41	92.8	0.508	5.894	19.74	13.32
111	2007	240	715	64.64	92.3	0.225	1.462	19.37	13.31
111	2007	240	730	66.87	89.8	1.155	102	36.39	13.3
111	2007	240	745	68.81	86	1.823	87	40.96	13.3
111	2007	240	800	69.81	82.4	2.128	79.4	33.37	13.29
111	2007	240	815	71.3	77.3	1.998	99.7	38.21	13.28
111	2007	240	830	72.6	74.6	2.588	146.8	35.01	13.28
111	2007	240	845	73	73.2	3.033	117.2	31.12	13.28
111	2007	240	900	73.6	70.2	3.094	79.3	27.67	13.28
111	2007	240	915	74.7	65.98	2.945	88.2	43	13.28
111	2007	240	930	76	62.79	2.395	78.1	55.15	13.27
111	2007	240	945	76.8	61.12	2.643	120.4	44.87	13.27
111	2007	240	1000	77.2	61.58	3.104	97.7	38.18	13.26
111	2007	240	1015	76.2	60.61	2.786	43.66	38.19	13.26
111	2007	240	1030	77.4	57.37	2.516	46.72	48.26	13.26
111	2007	240	1045	78.7	52.78	2.792	84.6	54.56	13.24
111	2007	240	1100	79.3	52.85	2.816	49.5	62.48	13.25
111	2007	240	1115	79.1	54.88	3.123	153.2	79.1	13.25
111	2007	240	1130	79.6	57.55	3.747	359.2	95.8	13.25
111	2007	240	1145	78.8	63.2	5.161	225.9	31.51	13.25
111	2007	240	1200	78.3	66.18	5.127	242.5	34.44	13.25
111	2007	240	1215	75.7	74.2	5.421	224.9	30.33	13.25
111	2007	240	1230	74.5	69.79	4.816	242.5	32.47	13.25
111	2007	240	1245	75.5	67.02	5.179	249.8	33.03	13.26
111	2007	240	1300	75.8	70	5.983	232.6	30.92	13.26
111	2007	240	1315	74.9	69	6.321	216.2	29.36	13.27
111	2007	240	1330	73.3	71.3	5.868	222.8	31.31	13.28
111	2007	240	1345	73.3	70.1	5.441	227	27.61	13.28
111	2007	240	1400	73.3	70.8	5.096	217.9	28.04	13.28
111	2007	240	1415	73.1	70.5	5.707	221.2	28.24	13.28
111	2007	240	1430	73	69.58	5.097	228.8	27.09	13.28
111	2007	240	1445	74	65.56	5.632	218.3	30.49	13.3
111	2007	240	1500	74.9	65.03	4.746	232	35.46	13.3
111	2007	240	1515	74.2	67.17	5.497	238.9	33.76	13.31
111	2007	240	1530	73.8	68.64	5.499	239.3	34.54	13.1
111	2007	240	1545	73.9	66.7	4.361	245.9	45.39	13.03
111	2007	240	1600	74.1	66.53	4.418	224.6	38.85	12.98
111	2007	240	1615	74.5	64.22	4.46	228.2	35.61	12.95
111	2007	240	1630	74.5	62.25	4.103	250.7	41.3	12.93
111	2007	240	1645	74.2	64.75	4.305	243.2	46.09	12.91
111	2007	240	1700	74.1	62.08	4.224	251.9	36.92	12.89
111	2007	240	1715	74.4	60.4	3.449	250.6	40.44	12.89
111	2007	240	1730	74	60.84	4.127	253.2	35.02	12.88
111	2007	240	1745	73.9	64.69	3.954	256.5	38.33	12.87
111	2007	240	1800	73.8	66.03	3.698	241.4	36.97	12.87
111	2007	240	1815	73.2	66.23	3.326	250.1	37.44	12.86
111	2007	240	1830	73.1	66.63	3.203	250.2	40.48	12.85

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	240	1845	72.6	67	2.479	249.6	35.04	12.85
111	2007	240	1900	71.9	71	2.538	252	35.36	12.85
111	2007	240	1915	71.4	71.4	2.165	250.3	36.34	12.85
111	2007	240	1930	70.3	73.3	1.005	235.6	20.58	12.84
111	2007	240	1945	69.62	75.2	1.483	238.9	23.33	12.84
111	2007	240	2000	69.01	77.5	1.128	255.9	21.94	12.84
111	2007	240	2015	68.43	78.3	1.141	247.9	24.24	12.83
111	2007	240	2030	68.13	79.2	0.971	306.7	20.7	12.83
111	2007	240	2045	67.67	81.2	1.001	314.9	15.42	12.83
111	2007	240	2100	67.12	82.7	0.398	299.4	16.24	12.83
111	2007	240	2115	66.8	83.7	0.386	242.7	10.45	12.82
111	2007	240	2130	66.89	83.7	0.735	256.2	30.43	12.81
111	2007	240	2145	66.83	84.3	0.338	288.2	12.75	12.81
111	2007	240	2200	66.4	85.8	0.831	342.8	17.2	12.81
111	2007	240	2215	65.61	87.2	0.773	347.7	7.09	12.8
111	2007	240	2230	65.17	88.1	na	na	na	12.79
111	2007	240	2245	64.81	89.2	1.063	350.2	11.1	12.79
111	2007	240	2300	64.63	89.3	0.804	343.4	14.57	12.79
111	2007	240	2315	64.04	89.9	0.761	328.4	10.28	12.77
111	2007	240	2330	63.58	90.5	na	na	na	12.77
111	2007	240	2345	63.41	90.8	0.13	331	1.888	12.77
111	2007	240	2400	63.26	91.1	na	na	na	12.76
111	2007	241	15	62.98	91.4	0.12	336.6	1.296	12.75
111	2007	241	30	62.78	91.8	0.018	340.7	0.009	12.75
111	2007	241	45	62.6	92.3	0.162	10.12	1.169	12.74
111	2007	241	100	62.57	92	na	na	na	12.74
111	2007	241	115	62.57	92.5	0.214	20.09	3.842	12.72
111	2007	241	130	62.83	92.4	0.112	18.53	3.54	12.72
111	2007	241	145	62.81	92.5	0.369	22.82	12.66	12.71
111	2007	241	200	62.84	92.7	0.457	12.95	16.02	12.7
111	2007	241	215	62.85	92.6	0.374	335	9.74	12.7
111	2007	241	230	62.86	92.7	0.045	17.02	14.82	12.7
111	2007	241	245	63.11	92.7	0.479	47.54	29.27	12.69
111	2007	241	300	63.31	92.3	0.389	261.3	48.67	12.68
111	2007	241	315	63.02	92.4	0.385	22.07	15.74	12.68
111	2007	241	330	62.82	92.7	0.323	55.29	7.19	12.68
111	2007	241	345	62.93	92.6	0.222	27.34	5.328	12.68
111	2007	241	400	62.98	92.6	0.069	2.844	1.122	12.68
111	2007	241	415	63.17	92.5	0.984	48.3	26.18	12.68
111	2007	241	430	63.14	92.4	0.047	51.13	9.4	12.68
111	2007	241	445	62.8	92.3	na	na	na	12.7
111	2007	241	500	62.45	92.7	na	na	na	12.72
111	2007	241	515	62.43	92.6	0.264	183.7	6.807	12.75
111	2007	241	530	62.25	92.8	na	na	na	12.83
111	2007	241	545	61.87	93.1	0.076	331.9	0.49	13.09
111	2007	241	600	61.94	93.2	0.411	2.747	20.11	13.35
111	2007	241	615	62.08	93.6	0.806	332.5	24.72	13.39
111	2007	241	630	62.6	93	0.604	332.2	22.13	13.38
111	2007	241	645	62.55	93.6	0.038	52.8	0.677	13.37
111	2007	241	700	63.44	92.8	0.492	14.7	7.69	13.36
111	2007	241	715	64.51	92.3	0.209	20.04	22.48	13.33
111	2007	241	730	66.16	89.6	0.882	315.4	58.76	13.35
111	2007	241	745	68.44	81.9	1.656	148.5	44.89	13.34
111	2007	241	800	68.83	81.1	1.205	79.6	32.05	13.33
111	2007	241	815	68.85	80.2	1.276	79.9	21.3	13.33
111	2007	241	830	69.76	76.9	1.34	59.37	28.42	13.33
111	2007	241	845	70.8	77.6	1.68	2.032	34.46	13.33
111	2007	241	900	70.9	76	1.549	319.8	45.1	13.33
111	2007	241	915	71.5	74.4	0.99	285.5	27.21	13.33
111	2007	241	930	72.1	67.46	1.201	281.2	58.05	13.33

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	241	945	73.1	63.21	1.117	340.2	51.98	13.32
111	2007	241	1000	75.3	56.11	2.209	297.3	59.99	13.32
111	2007	241	1015	75.6	55.34	2.132	91.7	99.9	13.31
111	2007	241	1030	76.1	61.99	2.163	267.4	44.01	13.31
111	2007	241	1045	75.8	63.59	3.727	240.3	37.01	13.31
111	2007	241	1100	75.6	61.92	3.87	237.9	27.87	13.32
111	2007	241	1115	76.8	58.11	3.086	240.1	35.17	13.31
111	2007	241	1130	76.8	62.15	3.372	248.3	33.47	13.31
111	2007	241	1145	75.3	67.26	4.899	228.3	34.33	13.31
111	2007	241	1200	75.4	66.09	4.907	236.8	35.21	13.31
111	2007	241	1215	75.8	65.06	4.734	256.5	38.29	13.31
111	2007	241	1230	76.1	63.59	5.036	237.3	31.97	13.3
111	2007	241	1245	76.4	62.49	4.577	232.1	39.58	13.3
111	2007	241	1300	76.4	60.11	4.726	232.3	34.03	13.3
111	2007	241	1315	76.2	59.64	5.04	244.7	33.03	13.3
111	2007	241	1330	76.1	56.97	4.559	270	33.12	13.3
111	2007	241	1345	76.9	54.72	4.325	258.8	38.74	13.3
111	2007	241	1400	76.5	59.97	5.072	242.8	28.21	13.31
111	2007	241	1415	75.7	61.41	5.882	245	36.79	13.31
111	2007	241	1430	76.4	59.57	4.696	239.5	34.95	13.31
111	2007	241	1445	76.3	56.89	5.157	248.5	33.87	13.31
111	2007	241	1500	76.5	57.19	5.026	243.2	35.61	13.32
111	2007	241	1515	76.3	59.83	5.322	232.7	29.22	13.32
111	2007	241	1530	76.4	59.4	4.845	257.9	38.76	13.33
111	2007	241	1545	76.7	55.35	4.583	270.2	39.21	13.34
111	2007	241	1600	77.3	54.48	4.127	280.3	48.71	13.08
111	2007	241	1615	76.7	56.32	4.935	255.6	35.18	13.01
111	2007	241	1630	76.4	58.56	4.685	257.1	34.94	12.97
111	2007	241	1645	75.9	58.73	4.855	246.3	30.9	12.93
111	2007	241	1700	75.8	59.29	4.528	273.8	45.44	12.91
111	2007	241	1715	75.5	58.36	4.778	278.3	36.8	12.89
111	2007	241	1730	75.4	55.89	4.381	276.1	34.26	12.88
111	2007	241	1745	75.4	55.36	3.86	286.3	36.76	12.87
111	2007	241	1800	75.7	57.77	3.235	286.2	37.21	12.86
111	2007	241	1815	75.2	58.4	3.225	268.1	37.27	12.85
111	2007	241	1830	75	58.87	2.77	279.5	31.64	12.84
111	2007	241	1845	74.1	61.95	3.277	270.6	31.44	12.82
111	2007	241	1900	73.4	63.56	2.832	261.4	33.17	12.82
111	2007	241	1915	72.5	65.93	2.479	272	29.89	12.82
111	2007	241	1930	71.4	68.44	2.042	286.6	31.26	12.81
111	2007	241	1945	70.6	72.6	1.502	295.1	24.8	12.8
111	2007	241	2000	69.99	75.2	1.064	303.6	22.55	12.8
111	2007	241	2015	69.61	77.1	1.004	302.4	19.54	12.79
111	2007	241	2030	69.38	79.2	1.412	326.3	9.54	12.79
111	2007	241	2045	68.92	80.7	1.39	317.5	9.67	12.78
111	2007	241	2100	68.42	82.6	1.206	307.5	12.58	12.78
111	2007	241	2115	68.34	82.9	1.726	320	11.43	12.78
111	2007	241	2130	68.12	83.7	0.654	312.3	5.144	12.78
111	2007	241	2145	67.59	85.2	0.701	333.2	8.19	12.77
111	2007	241	2200	67.03	86.2	0.115	324.2	1.381	12.76
111	2007	241	2215	67.03	85.5	1.117	311.8	14.3	12.76
111	2007	241	2230	67.2	84.1	1.396	310.6	15	12.75
111	2007	241	2245	67.49	82.7	1.408	313.7	15.47	12.75
111	2007	241	2300	67.34	82.9	0.974	307	13.58	12.74
111	2007	241	2315	67.16	83.9	0.993	301.2	21.4	12.74
111	2007	241	2330	67.73	83.4	1.311	305.2	24.73	12.73
111	2007	241	2345	68.27	82.1	2.175	318.4	19.13	12.72
111	2007	241	2400	68.22	82.4	1.444	337.2	36.08	12.72
111	2007	242	15	67.78	83.4	0.414	313.7	8.43	12.71
111	2007	242	30	67.21	84.3	0.06	284.7	2.869	12.71

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	242	45	66.96	84.9	0.645	311.6	33.56	12.7
111	2007	242	100	66.72	85.4	0.383	5.107	23.7	12.69
111	2007	242	115	66.32	85.6	0.109	37.41	1.544	12.68
111	2007	242	130	66.1	86.6	na	na	na	12.69
111	2007	242	145	66.34	85.8	na	na	na	12.68
111	2007	242	200	66.3	85.1	0.026	297.7	1.668	12.67
111	2007	242	215	65.96	86	0.187	285.4	5.236	12.66
111	2007	242	230	65.74	85.8	0.181	236	5.419	12.66
111	2007	242	245	65.24	87	na	na	na	12.65
111	2007	242	300	64.74	88	0.49	319.4	15.91	12.65
111	2007	242	315	64.21	89.1	0.323	342.8	3.368	12.64
111	2007	242	330	63.83	89.7	0.116	351.7	0.492	12.63
111	2007	242	345	63.73	90.1	0.154	353	12.84	12.63
111	2007	242	400	63.53	90.5	na	na	na	12.63
111	2007	242	415	63.32	91.1	na	na	na	12.63
111	2007	242	430	63.5	91	1.101	335.3	11.72	12.63
111	2007	242	445	63.75	91.1	0.152	298.4	6.329	12.65
111	2007	242	500	64.01	90.8	0.085	240.4	4.539	12.68
111	2007	242	515	64.14	90.7	0.324	77.4	5.896	12.71
111	2007	242	530	63.9	90.8	na	na	na	12.8
111	2007	242	545	63.46	91.4	0.627	31.68	51.06	13.09
111	2007	242	600	63.44	91.2	0.434	88.7	10.85	13.4
111	2007	242	615	63.11	91.5	0.511	346.2	12.54	13.43
111	2007	242	630	63.05	91.5	0.717	2.267	25.38	13.43
111	2007	242	645	63.01	92.1	0.959	323.9	31.99	13.41
111	2007	242	700	63.96	91.3	1.355	332.9	17.67	13.4
111	2007	242	715	65.49	86.4	2.316	330.8	15.12	13.39
111	2007	242	730	67.47	77.5	2.483	325.7	17.08	13.37
111	2007	242	745	69.03	71.8	1.635	272.6	32.39	13.37
111	2007	242	800	70.3	67.34	1.698	257.4	23.41	13.37
111	2007	242	815	71.5	64.49	1.867	271.9	26.82	13.35
111	2007	242	830	72.9	61.91	2.336	291	34.88	13.35
111	2007	242	845	73.1	61.04	3.289	287.1	30.13	13.35
111	2007	242	900	73.1	59.7	3.283	277.8	31.2	13.35
111	2007	242	915	73.6	60.59	3.052	288.9	37	13.35
111	2007	242	930	73.5	58.49	3.112	280.9	37.49	13.35
111	2007	242	945	74.2	57.44	3.6	299.8	31.95	13.35
111	2007	242	1000	75.5	55.63	3.797	293.4	35.74	13.34
111	2007	242	1015	75.7	51.89	4.254	267.6	36.81	13.33
111	2007	242	1030	76.1	44.77	4.496	291.2	47.77	13.33
111	2007	242	1045	76.7	43.43	4.847	286.6	35.78	13.33
111	2007	242	1100	76.9	49.52	5.058	295.8	35.81	13.34
111	2007	242	1115	77.2	48.48	4.403	277.1	47.65	13.33
111	2007	242	1130	76.9	51.09	4.325	259.5	43.73	13.34
111	2007	242	1145	77.8	45.1	4.224	294.7	46.55	13.34
111	2007	242	1200	77.4	43.86	5.193	300.5	30.19	13.34
111	2007	242	1215	77.5	45.19	4.837	305.2	40.12	13.33
111	2007	242	1230	78.4	44.02	4.232	286.2	42.4	13.34
111	2007	242	1245	78.3	48.47	4.561	275	40.01	13.33
111	2007	242	1300	78.6	46.83	4.135	305	35.21	13.33
111	2007	242	1315	78.6	46.23	4.627	300.2	35.83	13.34
111	2007	242	1330	78.7	46.26	4.52	272.1	39.78	13.34
111	2007	242	1345	78.1	45.99	5.379	247.8	33.45	13.34
111	2007	242	1400	77.5	54.88	4.929	247.5	30.36	13.35
111	2007	242	1415	77.7	55.25	4.581	269.4	45.6	13.35
111	2007	242	1430	77.3	57.32	4.778	257.3	32.67	13.35
111	2007	242	1445	77.2	56.25	4.591	251.8	37.62	13.35
111	2007	242	1500	77.5	53.74	4.275	249.3	40.79	13.35
111	2007	242	1515	78.5	52.44	3.942	288.4	37.33	13.36
111	2007	242	1530	79	57.62	4.224	259.5	41.5	13.37

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	242	1545	77.6	58.49	4.657	255	29.23	13.38
111	2007	242	1600	77.2	60.13	4.911	255.3	44.38	13.07
111	2007	242	1615	77	59.36	4.365	263.6	36.33	13
111	2007	242	1630	77.4	57.72	3.559	279.3	38.32	12.95
111	2007	242	1645	78.2	57.05	3.11	273.9	37.53	12.93
111	2007	242	1700	77.9	58.26	3.588	239.9	33.94	12.9
111	2007	242	1715	77.2	61.43	3.777	242.5	31.4	12.88
111	2007	242	1730	76.5	64.24	4.025	237.8	25.51	12.88
111	2007	242	1745	75.9	64.04	4.333	224.4	36.11	12.86
111	2007	242	1800	75.5	64.61	3.604	227.1	25.57	12.86
111	2007	242	1815	75.5	62.21	3.473	231.6	30.81	12.84
111	2007	242	1830	75	66.79	3.455	231.6	29.32	12.84
111	2007	242	1845	74.4	67.93	3.122	234.7	30.29	12.84
111	2007	242	1900	74	67.8	3.168	239.7	28.33	12.83
111	2007	242	1915	73.3	71.6	2.896	230.8	29.11	12.82
111	2007	242	1930	72.5	72.5	3.013	225.2	28.05	12.82
111	2007	242	1945	72	72.8	2.383	227.7	21.79	12.82
111	2007	242	2000	71.7	69.99	2.306	238.3	21.85	12.81
111	2007	242	2015	71.6	69.46	2.105	236.6	25.26	12.81
111	2007	242	2030	71.5	70.5	1.443	248.1	28.77	12.81
111	2007	242	2045	71	73.6	1.288	258.4	22.82	12.82
111	2007	242	2100	70.7	75.4	1.73	243.5	27.96	12.81
111	2007	242	2115	70.9	74.5	1.692	235.9	29.8	12.81
111	2007	242	2130	71.1	74.9	1.427	233.8	41.6	12.81
111	2007	242	2145	70.9	76.6	0.834	261.6	27.44	12.81
111	2007	242	2200	69.82	80.7	0.587	356.6	16.93	12.81
111	2007	242	2215	69.24	81.3	0.669	67.21	12.65	12.8
111	2007	242	2230	68.67	82.9	0.42	36.3	34.85	12.8
111	2007	242	2245	68.34	84	0.673	356.6	17.77	12.8
111	2007	242	2300	67.5	85.8	0.433	335.6	4.59	12.8
111	2007	242	2315	67.01	86.8	0.526	30.31	5.603	12.79
111	2007	242	2330	66.9	87.2	0.172	19.52	3.944	12.78
111	2007	242	2345	66.64	87.7	0.314	30.05	16.48	12.78
111	2007	242	2400	66.69	87.5	1.019	45.48	10.1	12.77
111	2007	243	15	66.67	87.7	0.983	4.716	16.93	12.76
111	2007	243	30	66.09	88.1	0.284	12.01	9.26	12.76
111	2007	243	45	65.78	89	na	na	na	12.75
111	2007	243	100	65.72	89.3	1.143	37.71	11.18	12.74
111	2007	243	115	66.18	87.9	2.953	45.12	17.57	12.72
111	2007	243	130	66.6	86.9	1.348	51.51	16.99	12.72
111	2007	243	145	66.16	87.2	0.073	144.7	7.95	12.72
111	2007	243	200	65.74	88.2	1.22	40	23.07	12.71
111	2007	243	215	65.5	88.6	1.28	30.14	18.96	12.7
111	2007	243	230	65.23	89	0.884	86	19.57	12.69
111	2007	243	245	64.89	89.5	0.68	65.05	28.32	12.68
111	2007	243	300	64.54	89.7	0.619	266.2	20.65	12.68
111	2007	243	315	64.15	90.6	0.926	47.57	21.31	12.67
111	2007	243	330	64.12	90.7	1.638	48.08	23.44	12.66
111	2007	243	345	64.22	90.9	1.247	41.25	30.07	12.66
111	2007	243	400	64.13	90.6	0.173	320.4	25.07	12.66
111	2007	243	415	63.48	91.2	0.145	220.9	10.6	12.67
111	2007	243	430	63.32	91.4	0.349	247	2.154	12.7
111	2007	243	445	63.36	91.7	0.789	44.42	14.2	12.74
111	2007	243	500	63.33	91.8	0.43	48.42	10.78	12.78
111	2007	243	515	63.22	92.2	0.755	58.23	27.14	12.84
111	2007	243	530	63.22	92	0.078	38.91	3.213	12.97
111	2007	243	545	63.09	92.6	0.458	138.9	41.1	13.3
111	2007	243	600	63.22	92.4	0.137	177.9	24.76	13.41
111	2007	243	615	63.5	92.3	0.815	27.74	20.57	13.39
111	2007	243	630	63.96	92.1	1.337	57.41	24.46	13.39

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	243	645	64.89	91	1.972	63.58	25.72	13.37
111	2007	243	700	65.98	88.6	2.068	75	24.32	13.36
111	2007	243	715	66.65	86.2	2.459	50.68	25.31	13.36
111	2007	243	730	67.59	83.4	1.893	72.8	40.4	13.35
111	2007	243	745	69.31	79.1	2.349	108.4	33.99	13.35
111	2007	243	800	70.5	77.3	2.905	129.4	32.96	13.35
111	2007	243	815	71.4	76.3	2.866	136	34.66	13.33
111	2007	243	830	72.3	76.7	3.287	85.4	29.37	13.33
111	2007	243	845	72.9	75.6	3.88	92.4	39.25	13.34
111	2007	243	900	73.9	74.4	4.46	79.3	37.54	13.34
111	2007	243	915	74.1	74	4.516	73.1	35.26	13.34
111	2007	243	930	74.5	74.2	4.518	72.3	31.9	13.33
111	2007	243	945	75.1	70.5	4.47	88.8	32.8	13.33
111	2007	243	1000	75.4	69.11	3.954	101.2	43.44	13.33
111	2007	243	1015	76.4	67.27	4.516	106.5	44.67	13.3
111	2007	243	1030	76.7	67.8	4.315	111	36.96	13.32
111	2007	243	1045	77.5	63.66	3.908	111.7	45.66	13.32
111	2007	243	1100	78.4	63.65	3.866	103	40.95	13.31
111	2007	243	1115	78.8	61.51	4.172	87.9	42.74	13.31
111	2007	243	1130	79.2	59.36	3.849	72.4	39.44	13.32
111	2007	243	1145	79.1	60.57	4.575	57.72	46.47	13.31
111	2007	243	1200	79.5	58.16	4.99	67.71	36.26	13.31
111	2007	243	1215	80	55.58	4.851	65.72	37.84	13.32
111	2007	243	1230	80.5	54.91	5.165	106.6	28.66	13.31
111	2007	243	1245	80.4	51.94	5.89	86.7	39.85	13.32
111	2007	243	1300	81	49.53	4.567	76.6	39.4	13.31
111	2007	243	1315	81.6	50.3	4.837	103.5	43.98	13.31
111	2007	243	1330	81.5	51.44	4.943	101.5	37.16	13.32
111	2007	243	1345	82.2	50.57	5.215	88.4	43.16	13.32
111	2007	243	1400	82.4	51.7	4.436	74.5	48.06	13.33
111	2007	243	1415	82.4	53.51	4.438	73.1	32.02	13.33
111	2007	243	1430	81.6	56.18	4.301	78	46.43	13.33
111	2007	243	1445	81.6	56.38	4.264	56.66	52.9	13.33
111	2007	243	1500	82	57.02	4.113	48.07	36.38	13.35
111	2007	243	1515	81.4	58.66	4.933	43.16	24.13	13.35
111	2007	243	1530	81.3	57.55	5.054	40.53	42.14	13.35
111	2007	243	1545	80.5	60.56	5.354	32.98	23.8	13.11
111	2007	243	1600	80	61.13	5.471	47.78	29.73	13.03
111	2007	243	1615	79.6	64.24	5.918	58.23	22.85	12.98
111	2007	243	1630	78.8	65.14	5.657	46.54	25.81	12.95
111	2007	243	1645	78.9	64.41	4.808	47.73	32.47	12.92
111	2007	243	1700	79.3	63.81	5.018	39.63	23.63	12.91
111	2007	243	1715	79.8	64.65	5.61	50.04	33.73	12.89
111	2007	243	1730	79	64.18	6.259	63.7	32.36	12.89
111	2007	243	1745	78.2	63.08	6.06	47.34	26.96	12.87
111	2007	243	1800	78	62.08	6.338	70.5	30.02	12.87
111	2007	243	1815	77.6	62.15	5.852	62	37.56	12.87
111	2007	243	1830	77.3	61.44	6.013	64.46	29.98	12.85
111	2007	243	1845	76.5	61.92	6.759	58.34	26.69	12.86
111	2007	243	1900	76.2	61.32	6.088	63	29.91	12.86
111	2007	243	1915	75.9	62.59	5.423	58.55	25.05	12.86
111	2007	243	1930	75.5	61.42	5.751	60.73	29.96	12.85
111	2007	243	1945	75.2	60.85	5.54	58.25	28.34	12.85
111	2007	243	2000	74.8	60.88	5.238	56.21	30.07	12.85
111	2007	243	2015	74.6	61.76	6.263	57.4	29.33	12.85
111	2007	243	2030	74.1	63.6	4.516	63.53	26.06	12.85
111	2007	243	2045	73.7	64.1	4.714	57.53	28.48	12.84
111	2007	243	2100	73.3	64.5	4.833	54.18	29.95	12.84
111	2007	243	2115	73.1	64.64	4.762	60.14	28.97	12.84
111	2007	243	2130	72.9	64.34	4.164	66.1	28.51	12.83

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	243	2145	72.8	63.81	4.335	63.04	29.91	12.82
111	2007	243	2200	72.7	63.54	4.214	73.3	29.72	12.83
111	2007	243	2215	72.7	62.67	4.293	75.6	29.49	12.83
111	2007	243	2230	72.9	62	5.056	69.61	26.43	12.82
111	2007	243	2245	72.6	63.58	4.583	78	31.5	12.82
111	2007	243	2300	72	65.15	3.662	64.74	32.74	12.81
111	2007	243	2315	71.5	65.79	4.013	62.35	23.94	12.81
111	2007	243	2330	71.3	65.89	4.25	71.5	27.37	12.8
111	2007	243	2345	71.2	66.56	4.752	70.2	30.75	12.79
111	2007	243	2400	70.9	67.39	4.661	66.6	29.22	12.79
111	2007	244	15	70.4	68.16	4.679	61.21	28.14	12.78
111	2007	244	30	69.88	68.26	4.772	56.08	29.24	12.77
111	2007	244	45	69.48	68.46	4.698	63.7	26.12	12.77
111	2007	244	100	69.08	69.13	4.077	66.05	31.89	12.76
111	2007	244	115	68.88	68.36	4.802	65.97	35.61	12.75
111	2007	244	130	68.85	66.39	4.133	70.8	35.86	12.75
111	2007	244	145	68.79	65.22	5.034	71.4	34.6	12.74
111	2007	244	200	68.45	65.86	4.518	75	36.66	12.73
111	2007	244	215	68.03	64.19	4.385	86.3	36.9	12.73
111	2007	244	230	67.82	62.95	4.957	83.3	32.53	12.72
111	2007	244	245	67.55	63.45	5.51	84.3	35.42	12.7
111	2007	244	300	67.01	61.92	5.898	84	33.27	12.71
111	2007	244	315	66.63	62.59	5.578	84.2	35.47	12.7
111	2007	244	330	66.09	62.32	5.562	79.3	33.26	12.7
111	2007	244	345	65.71	61.45	5.715	91.3	30.35	12.68
111	2007	244	400	65.3	61.55	5.02	85.5	36.73	12.7
111	2007	244	415	64.85	63.73	4.474	79.2	30.67	12.69
111	2007	244	430	64.36	64.33	3.998	84.1	29.53	12.71
111	2007	244	445	63.84	64.97	3.644	84.1	31.96	12.73
111	2007	244	500	63.4	64.7	4.397	82.7	33.13	12.78
111	2007	244	515	63.04	63.87	4.978	67.96	34.74	12.84
111	2007	244	530	62.79	62.46	5.03	74.9	28.31	12.95
111	2007	244	545	62.73	62.46	5.274	69.81	26.4	13.23
111	2007	244	600	62.44	62.53	4.379	69.89	26.44	13.35
111	2007	244	615	62.15	62.5	3.813	69.18	27.41	13.34
111	2007	244	630	61.93	63.07	3.783	68.14	21.92	13.33
111	2007	244	645	61.67	64.11	2.373	68.04	26.99	13.32
111	2007	244	700	61.9	64.04	1.542	58.19	41.64	13.31
111	2007	244	715	63.06	61.54	1.739	102.2	47.67	13.31
111	2007	244	730	64.09	61.47	2.993	102.3	32.95	13.3
111	2007	244	745	64.43	61.56	4.188	71.8	32.54	13.3
111	2007	244	800	65.44	60.86	4.208	74.9	39.57	13.29
111	2007	244	815	66.25	60.49	4.764	74.6	36.18	13.29
111	2007	244	830	67.36	59.41	4.565	89.3	32.78	13.28
111	2007	244	845	68.13	57.73	4.945	81.3	33.57	13.28
111	2007	244	900	68.08	57.33	5.423	71.6	38.7	13.28
111	2007	244	915	68.95	56.69	5.276	94.3	34.39	13.28
111	2007	244	930	69.57	55.35	5.79	85.3	25.74	13.28
111	2007	244	945	70.4	53.75	5.659	95.9	33.02	13.28
111	2007	244	1000	71.1	53.01	5.01	74.6	33.69	13.27
111	2007	244	1015	72	50.56	5.634	85.8	32.76	13.27
111	2007	244	1030	72.3	50.59	6.384	110.9	34.76	13.26
111	2007	244	1045	73.2	48.55	5.491	98.1	40.52	13.26
111	2007	244	1100	73.2	48.75	6.231	111	26.37	13.26
111	2007	244	1115	73.6	47.28	5.687	94.6	38.08	13.24
111	2007	244	1130	73.9	44.73	6.136	90.4	35.16	13.24
111	2007	244	1145	74	46.37	5.518	93.3	32.48	13.22
111	2007	244	1200	74.8	43.06	5.703	76.2	33.71	13.24
111	2007	244	1215	75.4	38.72	5.975	82.5	36.8	13.24
111	2007	244	1230	75.6	40.02	6.027	69.86	34.81	13.24

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	244	1245	75.4	40.29	6.402	61.3	43.44	13.24
111	2007	244	1300	75.7	39.82	6.974	85.7	33.99	13.24
111	2007	244	1315	76.3	37.48	7.16	76	38.49	13.25
111	2007	244	1330	76.3	38.62	7.78	47.18	28.08	13.25
111	2007	244	1345	76.4	35.31	6.815	67.28	38.04	13.25
111	2007	244	1400	75.6	35.74	6.577	69.33	38.24	13.25
111	2007	244	1415	75	36.41	7.56	58.74	32.84	13.26
111	2007	244	1430	75.8	36.78	7.54	83.4	36.88	13.26
111	2007	244	1445	75.7	37.28	7.12	57.28	33.4	13.26
111	2007	244	1500	75.9	36.98	6.718	90.6	36.85	13.27
111	2007	244	1515	75.9	36.81	7.71	66.12	38.51	13.28
111	2007	244	1530	76.4	36.97	7.48	81.8	34.43	13.28
111	2007	244	1545	76.6	35.47	6.094	62.78	31.01	13.11
111	2007	244	1600	76.9	35.63	6.479	74.9	31.86	13.02
111	2007	244	1615	76.3	37.04	6.499	70.4	33.83	12.98
111	2007	244	1630	76.2	35.47	6.412	44.08	32.71	12.95
111	2007	244	1645	75.9	35.94	5.703	55.62	38.7	12.92
111	2007	244	1700	76	36.34	6.128	41.78	30.74	12.9
111	2007	244	1715	75.7	35.47	6.698	52.19	30.41	12.89
111	2007	244	1730	75.4	35.97	6.501	64.56	34.63	12.87
111	2007	244	1745	75.8	36.44	5.421	65.25	31.86	12.86
111	2007	244	1800	75.2	34.87	5.975	58.65	32.23	12.85
111	2007	244	1815	75.4	34.4	5.219	83.8	32.38	12.84
111	2007	244	1830	74.8	34.4	5.169	73.4	34.48	12.83
111	2007	244	1845	74.2	36.11	4.782	75.3	34.37	12.83
111	2007	244	1900	73.6	37.18	4.851	75.6	35.64	12.82
111	2007	244	1915	72.7	39.79	4.182	68.52	29.35	12.82
111	2007	244	1930	71.7	42.43	3.795	62.29	27.16	12.82
111	2007	244	1945	70.7	44.74	2.719	45.81	29.06	12.81
111	2007	244	2000	70.1	46.82	2.249	52.37	33.12	12.81
111	2007	244	2015	69.04	49.73	1.931	39.36	29.32	12.8
111	2007	244	2030	68.43	50.57	2.191	47.45	23.72	12.8
111	2007	244	2045	68.05	49.24	2.774	46.28	22.78	12.79
111	2007	244	2100	67.43	51.04	2.336	23.14	26.65	12.79
111	2007	244	2115	66.43	53.75	1.113	357.8	25.16	12.76
111	2007	244	2130	64.76	60.68	0.506	8.94	9.49	12.78
111	2007	244	2145	63.38	60.99	1.07	8.31	19.17	12.77
111	2007	244	2200	62.7	64.1	0.222	342.7	12.58	12.77
111	2007	244	2215	61.77	66.45	0.776	3.87	23.81	12.76
111	2007	244	2230	60.98	69.67	0.739	340.5	15.59	12.76
111	2007	244	2245	60.29	69.33	0.92	46.74	13.93	12.75
111	2007	244	2300	61.57	59.6	2.044	87.8	32.63	12.75
111	2007	244	2315	63.29	54.61	2.455	91.8	30.27	12.74
111	2007	244	2330	63.39	54.51	1.957	94.9	26.89	12.74
111	2007	244	2345	62.79	54.14	1.911	92.9	30.95	12.73
111	2007	244	2400	62.55	54.74	1.938	79.2	21.68	12.73
111	2007	245	15	62.01	57.29	1.762	67.3	30.01	12.72
111	2007	245	30	60.81	60.23	0.732	25.12	24.46	12.72
111	2007	245	45	59.87	65.45	0.46	46.12	13.87	12.71
111	2007	245	100	59.52	63.65	1.113	49.08	13.56	12.7
111	2007	245	115	58.72	65.73	0.677	332.8	10.88	12.7
111	2007	245	130	57.63	71	na	na	na	12.69
111	2007	245	145	56.81	72.7	1.113	333.5	9.34	12.69
111	2007	245	200	55.81	75.5	0.478	318.3	9.55	12.68
111	2007	245	215	55.07	76.9	1.587	326.3	10.64	12.68
111	2007	245	230	54.65	78.9	0.531	344.7	8.25	12.67
111	2007	245	245	54.7	77.3	1.304	46.69	7.92	12.67
111	2007	245	300	55.05	77.4	0.634	59.56	14.18	12.66
111	2007	245	315	54.72	78.6	0.364	54.8	5.703	12.66
111	2007	245	330	54.84	76.7	0.705	53.25	10.68	12.66

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	245	345	55.09	76.6	0.971	41.78	9.48	12.66
111	2007	245	400	54.93	75.1	0.957	38.47	14.64	12.66
111	2007	245	415	54.55	75.6	1.177	40.26	22.37	12.66
111	2007	245	430	55.19	71.9	1.01	79.8	23.29	12.66
111	2007	245	445	55.91	69.62	1.599	65.6	15.48	12.68
111	2007	245	500	55.83	71.3	1.038	62.04	18.06	12.72
111	2007	245	515	55.4	72.5	0.593	69.85	20.15	12.76
111	2007	245	530	55.33	70.6	1.267	85.5	22.26	12.85
111	2007	245	545	56.04	69.12	1.309	71	26.96	13.25
111	2007	245	600	55.99	71.4	1.097	68.81	19.63	13.41
111	2007	245	615	55.12	72.6	0.662	61.34	9.94	13.4
111	2007	245	630	53.9	78.7	0.61	357.4	27.4	13.38
111	2007	245	645	53.43	78.4	0.95	58.61	14.25	13.38
111	2007	245	700	55.54	71.3	1.566	68.44	25.37	13.36
111	2007	245	715	57.74	65.44	1.82	89.7	32.43	13.35
111	2007	245	730	59.81	62.73	2.221	105.6	40.5	13.34
111	2007	245	745	61.18	62.29	2.858	98.1	37.93	13.33
111	2007	245	800	61.89	60.94	3.694	106.5	36.72	13.33
111	2007	245	815	62.8	58.86	4.246	94.1	36.59	13.33
111	2007	245	830	63.29	57.48	4.754	94	35.88	13.33
111	2007	245	845	63.97	56.61	5.145	100.5	32.39	13.33
111	2007	245	900	64.67	55.4	4.371	83	35.76	13.32
111	2007	245	915	65.25	54.76	4.645	103.8	31.81	13.33
111	2007	245	930	66.09	53.12	4.361	84.7	33.12	13.33
111	2007	245	945	66.84	51.84	3.654	92	35.12	13.33
111	2007	245	1000	67.44	48.36	3.964	78	31.17	13.32
111	2007	245	1015	67.79	46.25	4.115	105.8	43.36	13.32
111	2007	245	1030	68.68	46.76	3.753	112.1	36.47	13.31
111	2007	245	1045	69.47	41.84	3.279	108.7	49.96	13.3
111	2007	245	1100	70	41.27	3.725	109.1	34.91	13.3
111	2007	245	1115	70.1	39.46	2.725	52.21	59.26	13.3
111	2007	245	1130	70.3	39.22	2.838	23.8	75.8	13.3
111	2007	245	1145	71.2	35.88	3.851	62.55	53.49	13.31
111	2007	245	1200	71.8	35.51	3.283	139.1	55.2	13.31
111	2007	245	1215	72.6	35.61	3.36	72.1	57.33	13.31
111	2007	245	1230	72.8	33.94	2.951	50.05	84.9	13.31
111	2007	245	1245	73.5	33.33	3.408	93.4	62.52	13.32
111	2007	245	1300	74.4	32.53	2.896	133.6	48.65	13.31
111	2007	245	1315	73.8	40.49	3.884	187.3	51.44	13.32
111	2007	245	1330	73	50.22	4.694	229.3	38.83	13.33
111	2007	245	1345	71.5	48.58	4.859	247.7	40.64	13.33
111	2007	245	1400	70.9	48.98	6.219	227.1	25.89	13.33
111	2007	245	1415	71.1	52.06	5.86	234.4	31.7	13.33
111	2007	245	1430	70.2	54.03	6.128	234.6	32.55	13.33
111	2007	245	1445	69.92	54	5.904	238.6	25.14	13.34
111	2007	245	1500	70.3	55.13	4.937	254.8	37.18	13.34
111	2007	245	1515	70.8	54.03	4.887	253.5	36.01	13.35
111	2007	245	1530	71.2	51.45	4.542	277.9	34.97	13.35
111	2007	245	1545	71.6	51.92	4.744	257.8	37.26	13.11
111	2007	245	1600	71.4	53.03	4.814	256.9	41.54	13.03
111	2007	245	1615	71.4	51.45	4.837	254.7	36.47	12.98
111	2007	245	1630	71.5	51.76	4.8	267.9	35.18	12.94
111	2007	245	1645	71.7	51.32	5.084	296.3	40.09	12.91
111	2007	245	1700	71.9	48.35	3.968	296.7	39.84	12.89
111	2007	245	1715	71.7	49.68	4.546	301	31.64	12.88
111	2007	245	1730	71.4	51.42	4.16	278.2	36.08	12.87
111	2007	245	1745	71.4	50.82	3.864	287.9	38.62	12.86
111	2007	245	1800	71	50.62	3.924	294.3	32.66	12.85
111	2007	245	1815	70.7	52.96	3.729	299.3	34.54	12.84
111	2007	245	1830	70.2	54.86	3.817	269.5	34.24	12.84

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	245	1845	69.42	55.37	3.412	277.3	32.42	12.83
111	2007	245	1900	68.97	57.28	2.731	289.2	33.48	12.82
111	2007	245	1915	67.79	60.69	1.985	286.2	31.53	12.82
111	2007	245	1930	66.64	63.14	2.099	262.9	36.36	12.82
111	2007	245	1945	66.26	64.08	2.812	267.6	38.54	12.82
111	2007	245	2000	66.08	65.16	1.844	259.8	32.23	12.81
111	2007	245	2015	65.77	66.63	1.367	282.4	28.08	12.81
111	2007	245	2030	65.7	66.67	1.845	292.2	31.65	12.8
111	2007	245	2045	65.64	67.01	1.629	308.9	23.33	12.8
111	2007	245	2100	65.28	68.11	1.313	305	27.65	12.8
111	2007	245	2115	64.99	70.2	0.956	302.8	19.32	12.8
111	2007	245	2130	64.5	71.7	1.742	315.7	23.63	12.79
111	2007	245	2145	64.26	72.5	1.406	317.9	24.51	12.79
111	2007	245	2200	64.51	72	1.801	318.4	25.58	12.78
111	2007	245	2215	64.43	72.4	1.419	312.2	26.2	12.78
111	2007	245	2230	64.55	73.7	2.044	328.2	28.08	12.78
111	2007	245	2245	63.59	75.7	1.746	335.2	22.26	12.77
111	2007	245	2300	64.51	71.4	2.713	310.9	23.35	12.76
111	2007	245	2315	65.5	69.66	2.947	306.6	23.95	12.76
111	2007	245	2330	66.05	67.95	3.332	305.7	27.71	12.76
111	2007	245	2345	66.4	69.72	3.541	311.8	22.36	12.76
111	2007	245	2400	66.48	70.9	3.755	307.1	26.49	12.75
111	2007	246	15	66.26	72.2	3.459	311.7	19.97	12.74
111	2007	246	30	66.15	72.1	2.864	311.2	20.77	12.74
111	2007	246	45	65.99	71.6	2.913	312	21.59	12.74
111	2007	246	100	65.91	72	2.699	313	17.9	12.73
111	2007	246	115	65.86	72.7	2.578	311.8	22.3	12.72
111	2007	246	130	65.77	73.1	2.739	309.5	20.74	12.72
111	2007	246	145	65.55	73.6	2.512	317	18.91	12.71
111	2007	246	200	65.06	75.5	2.079	331	26.39	12.7
111	2007	246	215	63.7	79.4	0.36	332.6	6.039	12.7
111	2007	246	230	62.44	82.1	0.558	347.3	16.27	12.7
111	2007	246	245	62.51	81.8	0.729	332.7	16.98	12.7
111	2007	246	300	61.83	83.5	0.313	333.1	8.35	12.7
111	2007	246	315	61.94	81.4	1.601	329.3	15.25	12.7
111	2007	246	330	62.26	82	0.479	335.8	8.4	12.7
111	2007	246	345	61.03	84.4	na	na	na	12.7
111	2007	246	400	60.11	85.9	0.294	332.1	7.2	12.69
111	2007	246	415	60.01	86.4	1.009	350.1	15.89	12.68
111	2007	246	430	60.19	85.6	0.495	352.3	18.95	12.69
111	2007	246	445	59.38	86.9	na	na	na	12.69
111	2007	246	500	58.71	88	na	na	na	12.72
111	2007	246	515	58.42	89.1	na	na	na	12.77
111	2007	246	530	58.1	89.7	na	na	na	12.91
111	2007	246	545	57.73	90.3	na	na	na	13.34
111	2007	246	600	57.49	90.8	na	na	na	13.4
111	2007	246	615	57.5	91.2	na	na	na	13.39
111	2007	246	630	57.56	91.6	0.054	323.5	1.213	13.37
111	2007	246	645	58.32	92.1	0.743	343.7	15.15	13.36
111	2007	246	700	59.9	91.6	1.545	337	16.17	13.35
111	2007	246	715	62.47	87.1	2.552	334.1	14.6	13.35
111	2007	246	730	64.44	82.7	3.263	334.3	18.18	13.33
111	2007	246	745	65.63	79.4	4.786	327.8	17.41	13.33
111	2007	246	800	66.56	75.8	5.469	326.8	20.82	13.33
111	2007	246	815	67.57	71.1	5.292	325.6	23.85	13.33
111	2007	246	830	68.31	69.95	6.942	330.3	15.04	13.33
111	2007	246	845	69.14	66.47	5.898	329.2	21.85	13.32
111	2007	246	900	69.71	61.98	7.84	324.6	22.1	13.32
111	2007	246	915	70.3	62.78	7.19	318.3	23.88	13.32
111	2007	246	930	70.6	62.61	7.89	326.3	23.56	13.32

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	246	945	71.4	62.44	6.942	324.9	22.18	13.32
111	2007	246	1000	71.9	61.53	7.13	326.5	19.43	13.31
111	2007	246	1015	72	61.93	7.17	318.8	21.81	13.31
111	2007	246	1030	72.4	62.36	7.52	318.4	26.23	13.31
111	2007	246	1045	72.6	64.43	8.07	324.5	24.61	13.31
111	2007	246	1100	73.4	63.76	6.362	314.3	32.16	13.3
111	2007	246	1115	73.4	63.32	6.956	309.8	30.54	13.3
111	2007	246	1130	73.8	62.92	6.936	308.9	30.37	13.3
111	2007	246	1145	74	61.15	7.14	309.5	24.67	13.3
111	2007	246	1200	73.4	63.56	8.47	309.5	25.44	13.3
111	2007	246	1215	73.6	65.13	7.84	313	24.26	13.3
111	2007	246	1230	73.8	65.66	6.168	304.6	31.64	13.3
111	2007	246	1245	74.1	64.33	7.5	307.1	25.3	13.3
111	2007	246	1300	74.4	64.33	7.06	314.6	26.77	13.3
111	2007	246	1315	74.7	64.79	7.15	309.3	31.7	13.3
111	2007	246	1330	75	64.53	6.456	300	37.06	13.31
111	2007	246	1345	74.8	64.86	8.05	308.8	21.73	13.3
111	2007	246	1400	75.2	64.79	7.19	310.9	31.77	13.31
111	2007	246	1415	74.9	66.9	8.51	312.8	24.02	13.32
111	2007	246	1430	75	68.84	7.95	310.6	22.03	13.33
111	2007	246	1445	75.1	68.87	8.47	315.4	35.24	13.33
111	2007	246	1500	75.2	68.87	8.49	314.3	28.84	13.33
111	2007	246	1515	75.2	69.71	8.37	305.7	31.42	13.34
111	2007	246	1530	75.4	69.27	8.69	314.8	27.62	13.12
111	2007	246	1545	75.4	68.04	8.41	310.2	28.86	13.04
111	2007	246	1600	76	66.77	7.18	322.5	23.74	12.98
111	2007	246	1615	75.6	65.7	8.67	308.1	29.75	12.95
111	2007	246	1630	74.9	63.72	10.58	318.1	23.85	12.93
111	2007	246	1645	75.1	64.16	8.8	319.6	27.48	12.91
111	2007	246	1700	74.9	64.76	7.73	310.4	33.49	12.89
111	2007	246	1715	74.5	65.23	8.83	309	25.11	12.88
111	2007	246	1730	74.3	66.4	8.09	308.9	30.62	12.87
111	2007	246	1745	74	67.03	8.64	316	27.98	12.87
111	2007	246	1800	73.6	67.77	8.02	314.6	25.21	12.87
111	2007	246	1815	73.1	68.91	9.18	317.3	26.59	12.86
111	2007	246	1830	72.9	69.68	7.59	315.5	25.09	12.85
111	2007	246	1845	72.6	70.9	7.05	318.2	23.59	12.85
111	2007	246	1900	72.1	72.5	7.51	322.1	27.76	12.85
111	2007	246	1915	71.6	73.3	7.92	317.1	22.27	12.85
111	2007	246	1930	71.4	73.5	7.65	320.1	24.23	12.85
111	2007	246	1945	71.3	73.4	7.32	325.7	23.22	12.85
111	2007	246	2000	71.2	74.2	6.493	329.3	24.43	12.84
111	2007	246	2015	71.1	74	6.366	327.5	17.56	12.84
111	2007	246	2030	71.1	73.6	6.686	326.9	29.53	12.84
111	2007	246	2045	71.1	74.6	6.978	323.8	22.95	12.83
111	2007	246	2100	71.1	75.7	7.18	328.1	19.83	12.83
111	2007	246	2115	71.1	77.1	7.05	325.4	20.83	12.83
111	2007	246	2130	71	78.1	6.088	322.3	19.16	12.83
111	2007	246	2145	70.9	78.8	6.372	318.2	23.46	12.83
111	2007	246	2200	70.7	80	4.841	321.9	18.49	12.82
111	2007	246	2215	70.7	78.3	5.246	318.8	22.37	12.82
111	2007	246	2230	70.8	77.4	4.823	320.3	21.9	12.82
111	2007	246	2245	70.9	75.5	4.861	321.7	23.15	12.81
111	2007	246	2300	70.8	75.4	3.757	318.9	23.49	12.81
111	2007	246	2315	70.8	75.1	4.281	317.3	19.84	12.8
111	2007	246	2330	70.7	75.5	4.847	322.8	18.58	12.8
111	2007	246	2345	70.8	75.1	5.512	324.4	21.18	12.79
111	2007	246	2400	70.7	74.4	5.191	320.5	18.47	12.79
111	2007	247	15	70.7	74.5	5.094	324.1	23.36	12.78
111	2007	247	30	70.6	74.6	5.812	327.7	20.39	12.77

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	247	45	70.6	75.3	5.983	329.2	16.02	12.77
111	2007	247	100	70.4	75.1	5.697	330.3	16.18	12.76
111	2007	247	115	70.6	75.8	5.854	330.6	22.95	12.76
111	2007	247	130	70.2	76.9	5.189	331.8	12.77	12.75
111	2007	247	145	69.71	77.9	3.791	330.5	12.36	12.75
111	2007	247	200	69.33	78.5	3.507	331.1	12.62	12.74
111	2007	247	215	68.98	79.7	3.009	332.5	16.08	12.74
111	2007	247	230	68.89	79.7	3.432	340.9	19.18	12.73
111	2007	247	245	68.66	80.3	2.907	346.1	19.03	12.73
111	2007	247	300	68.47	80.6	3.152	352.9	21.45	12.73
111	2007	247	315	68.36	81	3.241	347.9	16.44	12.72
111	2007	247	330	68.21	80.8	3.547	341.3	25.23	12.72
111	2007	247	345	68.27	80.9	3.646	338.5	16.25	12.71
111	2007	247	400	67.9	81.9	3.054	341	11.59	12.71
111	2007	247	415	67.75	82.3	3.205	349.1	17.7	12.71
111	2007	247	430	67.47	83.4	3.219	345.3	12.9	12.73
111	2007	247	445	67.12	84	2.488	349.1	22.74	12.83
111	2007	247	500	66.81	84.4	2.304	359.8	22.88	12.91
111	2007	247	515	66.34	85.7	2.062	1.93	25.49	13.11
111	2007	247	530	66.32	85.1	2.683	359.2	25.21	13.35
111	2007	247	545	66.29	85.5	2.002	346.9	17.09	13.37
111	2007	247	600	66.12	85.6	2.437	359.6	17.85	13.36
111	2007	247	615	65.69	86.7	2.185	350.3	23.29	13.35
111	2007	247	630	65.48	86.8	1.778	7.05	26.58	13.34
111	2007	247	645	65.43	86.7	2.302	2.5	23.88	13.34
111	2007	247	700	65.51	85.6	2.899	346.6	10.1	13.32
111	2007	247	715	66.61	82.8	2.574	344.7	12.07	13.31
111	2007	247	730	67.6	79.4	2.399	343.3	17.51	13.31
111	2007	247	745	68.84	74.5	2.449	17.33	32.51	13.3
111	2007	247	800	70.2	72	2.451	32.8	28.86	13.3
111	2007	247	815	71.1	69.7	2.884	42.03	24.19	13.3
111	2007	247	830	72.4	67.39	3.412	32.9	27.71	13.3
111	2007	247	845	73.3	65.98	4.736	44.77	27.86	13.3
111	2007	247	900	73.9	63.07	5.31	64.41	34.35	13.3
111	2007	247	915	74.6	60.52	6.1	64.57	28.84	13.3
111	2007	247	930	74.8	60.68	6.192	54.78	28.56	13.3
111	2007	247	945	75.8	56.07	5.816	86.5	36.52	13.29
111	2007	247	1000	76.5	56	4.859	80.8	33.06	13.29
111	2007	247	1015	76.2	54.53	5.935	80	32.24	13.3
111	2007	247	1030	76.3	55.3	6.072	81.4	32.04	13.3
111	2007	247	1045	76.5	53.16	5.475	67.56	28.38	13.3
111	2007	247	1100	77	53.13	6.102	65.96	34.9	13.3
111	2007	247	1115	77.6	51.45	6.023	47.72	33.39	13.29
111	2007	247	1130	78.4	47.27	5.443	78.8	40.14	13.29
111	2007	247	1145	78.6	46.06	4.962	53.92	36.6	13.28
111	2007	247	1200	79.3	44.46	5.35	75.5	39.48	13.29
111	2007	247	1215	79.9	43.59	5.667	100.9	34.66	13.29
111	2007	247	1230	80.4	42.01	4.551	73.4	37.21	13.29
111	2007	247	1245	81.1	40.51	5.528	97.3	41.29	13.29
111	2007	247	1300	80.9	38.3	5.542	59.29	35.26	13.3
111	2007	247	1315	81.5	34.99	5.248	67.68	39.08	13.29
111	2007	247	1330	81.8	32.65	5.512	68.89	35.71	13.3
111	2007	247	1345	82.3	31.05	5.647	83.6	49.16	13.31
111	2007	247	1400	82.1	30.88	6.297	60.7	35.21	13.3
111	2007	247	1415	82.9	32.79	5.914	90.5	37.81	13.32
111	2007	247	1430	82	32.19	5.951	58.63	37.89	13.32
111	2007	247	1445	82	31.65	5.375	68.1	34.04	13.32
111	2007	247	1500	82.4	31.78	5.828	76.2	32.64	13.33
111	2007	247	1515	82.3	29.91	5.455	87.7	37.14	13.33
111	2007	247	1530	82.5	30.11	4.671	78.5	43.52	13.11

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	247	1545	81.8	31.72	5.338	52.14	43.57	13.03
111	2007	247	1600	82.2	29.55	5.491	68.64	27.51	12.98
111	2007	247	1615	81.5	30.08	5.149	45.48	34.7	12.95
111	2007	247	1630	82.3	29.65	4.812	66.76	42.32	12.92
111	2007	247	1645	81.6	31.32	4.667	57.02	32.48	12.9
111	2007	247	1700	81.7	29.55	4.54	75.8	35.6	12.89
111	2007	247	1715	81.3	29.98	4.863	64.16	34.33	12.88
111	2007	247	1730	81.2	30.15	4.464	61.52	45.02	12.87
111	2007	247	1745	81.1	29.34	4.365	81.2	39.85	12.87
111	2007	247	1800	80.6	31.48	4.005	89.8	40.68	12.87
111	2007	247	1815	80.1	31.65	4.222	123	26.86	12.86
111	2007	247	1830	79.7	32.49	3.173	103.3	42.87	12.86
111	2007	247	1845	79.1	33.72	3.537	93	33.19	12.85
111	2007	247	1900	78.4	34.63	2.717	109.6	34.86	12.85
111	2007	247	1915	77.4	36.9	1.391	96.3	29.25	12.85
111	2007	247	1930	75.7	47.81	1.291	359.7	46.65	12.85
111	2007	247	1945	72.9	52.12	0.799	333.2	20.3	12.84
111	2007	247	2000	71.5	54.17	0.688	343.8	45.81	12.84
111	2007	247	2015	70.5	57.31	0.39	357.1	5.495	12.84
111	2007	247	2030	69.98	58.59	0.222	350.1	12.7	12.84
111	2007	247	2045	69.32	60.3	0.045	20.68	5.876	12.83
111	2007	247	2100	69.06	61.34	0.429	2.596	25.56	12.83
111	2007	247	2115	68.46	63.85	0.302	356.5	21.79	12.83
111	2007	247	2130	67.79	65.06	1.048	336.7	25.95	12.83
111	2007	247	2145	67.14	66.53	0.327	344.5	11.06	12.82
111	2007	247	2200	66.52	68.14	1.613	329.5	8.35	12.82
111	2007	247	2215	65.77	69.28	2.445	331	7.06	12.81
111	2007	247	2230	66.03	67.87	1.173	7.69	28.89	12.81
111	2007	247	2245	66.6	68.81	0.567	18.37	34.42	12.81
111	2007	247	2300	65.57	71.8	0.34	324.6	3.654	12.8
111	2007	247	2315	65.04	73.2	0.098	354.5	4.498	12.8
111	2007	247	2330	64.64	73.9	0.123	29.96	6.328	12.79
111	2007	247	2345	64.67	74.5	0.448	55.84	10	12.79
111	2007	247	2400	64.17	75.2	na	na	na	12.78
111	2007	248	15	63.34	77.6	0.32	334.9	2.059	12.78
111	2007	248	30	63.1	78.4	0.429	337.6	5.21	12.77
111	2007	248	45	62.8	79.1	0.44	324.2	6.684	12.77
111	2007	248	100	62.34	80.8	0.946	334.5	6.295	12.76
111	2007	248	115	61.99	81.7	0.272	6.781	3.129	12.75
111	2007	248	130	61.55	82.9	na	na	na	12.75
111	2007	248	145	61.28	83.4	0.452	37.59	14.51	12.74
111	2007	248	200	61.12	83.8	0.415	337.5	6.96	12.73
111	2007	248	215	60.82	84.1	na	na	na	12.73
111	2007	248	230	60.63	84.7	0.077	26.19	1.629	12.73
111	2007	248	245	60.82	83.7	0.605	51.04	12.02	12.72
111	2007	248	300	61.3	81	0.993	45.67	8.77	12.72
111	2007	248	315	61.88	77.7	1.324	71.1	17.02	12.71
111	2007	248	330	62.05	76.7	0.354	75.9	11.38	12.71
111	2007	248	345	61.34	79.2	0.303	341.1	3.9	12.71
111	2007	248	400	60.47	81	0.058	37.93	1.991	12.71
111	2007	248	415	59.83	82.7	na	na	na	12.71
111	2007	248	430	59.45	83.8	0.19	57.58	5.334	12.73
111	2007	248	445	59.95	82.5	1.355	47.82	18.87	12.79
111	2007	248	500	60.36	81.3	0.725	59.56	14.7	12.86
111	2007	248	515	60.11	83.2	0.196	47.59	11.77	12.97
111	2007	248	530	60.33	83	1.39	49.64	13.19	13.17
111	2007	248	545	60.71	82.7	1.13	49.26	15.74	13.36
111	2007	248	600	60.8	82.6	0.637	33.64	15.28	13.36
111	2007	248	615	60.69	82.6	1.035	44.25	13.78	13.35
111	2007	248	630	60.61	81.6	1.216	24.98	24	13.35

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	248	645	60.94	79.2	2.232	34.67	14.42	13.34
111	2007	248	700	61.76	76.6	2.035	48.53	24.35	13.33
111	2007	248	715	63.05	73.8	1.933	61.05	32.03	13.33
111	2007	248	730	64.12	71.4	2.258	69.25	42.21	13.32
111	2007	248	745	65.81	64.94	2.516	101	36.2	13.33
111	2007	248	800	66.37	61.73	3.277	94.7	35.44	13.32
111	2007	248	815	66.91	59.88	3.731	99.8	38.03	13.32
111	2007	248	830	67.16	58.71	4.569	95.1	34.58	13.3
111	2007	248	845	67.47	59.17	5.256	100.3	33.67	13.31
111	2007	248	900	67.89	58.4	5.451	82.1	32.41	13.31
111	2007	248	915	68.13	57.49	5.127	105.1	28.88	13.31
111	2007	248	930	68.85	56.59	4.724	91.8	33.02	13.31
111	2007	248	945	69.54	57.19	4.851	109.3	37.8	13.31
111	2007	248	1000	70	54.38	4.287	94.5	39.15	13.3
111	2007	248	1015	70.6	53.47	4.42	114.4	34.35	13.3
111	2007	248	1030	71.2	46.31	3.998	87.7	40.9	13.3
111	2007	248	1045	71.7	44.94	4.726	110.2	32.76	13.3
111	2007	248	1100	72	41.26	5.125	122.2	37.09	13.29
111	2007	248	1115	72.5	41.52	3.843	109.6	34.3	13.28
111	2007	248	1130	72.5	41.22	4.899	116.1	38.39	13.28
111	2007	248	1145	73.2	40.52	4.285	95.9	45.5	13.29
111	2007	248	1200	74.1	37.14	3.557	115.2	45.83	13.28
111	2007	248	1215	74.1	38.82	5.348	131.8	30.56	13.29
111	2007	248	1230	74.5	37.48	3.996	111.1	41.97	13.29
111	2007	248	1245	74.8	37.31	4.244	123.7	47.98	13.29
111	2007	248	1300	75.3	34.07	4.019	117.7	54.87	13.3
111	2007	248	1315	75.8	35.04	4.075	84.4	49.03	13.3
111	2007	248	1330	75.6	33.77	3.396	112.3	67	13.3
111	2007	248	1345	76.4	44.56	3.407	180.5	90.8	13.3
111	2007	248	1400	74	49.91	5.642	233.6	35.15	13.3
111	2007	248	1415	72.5	51.55	5.483	240	29.2	13.31
111	2007	248	1430	72	51.45	4.994	233.2	34.55	13.32
111	2007	248	1445	72.4	50.98	5.153	230.5	39.44	13.32
111	2007	248	1500	71.9	51.45	5.461	230.5	32.63	13.33
111	2007	248	1515	72.1	52.19	4.933	241	38.86	13.07
111	2007	248	1530	72	51.79	5.612	223.6	34.23	13
111	2007	248	1545	72.5	53.13	4.845	227.1	33.04	12.96
111	2007	248	1600	71.8	50.65	5.187	239.6	41.3	12.93
111	2007	248	1615	71.8	51.59	5.439	237.8	38.6	12.91
111	2007	248	1630	71.7	53.43	4.921	228.1	32.11	12.9
111	2007	248	1645	71.6	54.13	4.659	238.8	36.42	12.89
111	2007	248	1700	71.9	53.23	4.129	248.4	40.39	12.88
111	2007	248	1715	71.8	56.44	3.922	231.5	38.22	12.87
111	2007	248	1730	71.1	56.6	4.095	242.1	36.37	12.87
111	2007	248	1745	71.2	55.83	3.561	248.7	37.4	12.87
111	2007	248	1800	71.2	55.3	2.85	251.9	35.49	12.86
111	2007	248	1815	70.8	57.54	3.345	234.5	30.28	12.86
111	2007	248	1830	70.7	58.61	3.162	239.5	30.16	12.85
111	2007	248	1845	69.86	60.08	3.003	256	31.39	12.85
111	2007	248	1900	69.21	62.12	2.798	248.5	29.99	12.85
111	2007	248	1915	68.36	64.1	2.369	232.2	27.33	12.85
111	2007	248	1930	67.83	65.48	2.115	230.7	20.62	12.85
111	2007	248	1945	67.41	67.12	2.087	237.2	23.58	12.85
111	2007	248	2000	67.61	65.05	2.289	213.4	40.05	12.84
111	2007	248	2015	67.42	67.33	1.621	260.8	24.59	12.84
111	2007	248	2030	66.83	67.63	1.355	240	23.96	12.83
111	2007	248	2045	66.5	70	0.793	291.3	18.33	12.83
111	2007	248	2100	65.83	71.3	0.483	280.6	28.87	12.83
111	2007	248	2115	65.49	75.2	1.408	342.4	16.57	12.83
111	2007	248	2130	64.4	78	1.248	326.6	9.62	12.82

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	248	2145	63.86	79.3	0.047	354.2	0.355	12.82
111	2007	248	2200	63.93	79.4	0.89	351.9	21.42	12.81
111	2007	248	2215	63.58	80.5	0.58	348.4	15.79	12.81
111	2007	248	2230	63.22	82	0.731	345.9	18.26	12.81
111	2007	248	2245	63.34	82	0.445	30.75	6.139	12.8
111	2007	248	2300	63.23	82.5	0.397	327.5	3.301	12.79
111	2007	248	2315	62.54	83.9	1.462	327.9	11.62	12.79
111	2007	248	2330	62.43	83.9	0.402	30.1	21.54	12.79
111	2007	248	2345	62.35	84.1	0.139	38.36	5.843	12.78
111	2007	248	2400	62.23	84.5	0.302	11.93	15.13	12.77
111	2007	249	15	61.98	84.8	0.38	71.2	42.26	12.76
111	2007	249	30	61.81	85.3	na	na	na	12.76
111	2007	249	45	61.65	85.7	na	na	na	12.75
111	2007	249	100	61.54	85.5	0.56	6.019	19.73	12.74
111	2007	249	115	61.06	86.4	0.934	342.3	10.88	12.73
111	2007	249	130	60.64	87.3	0.963	15.26	24.42	12.73
111	2007	249	145	60.74	86.8	0.486	30.41	8.2	12.73
111	2007	249	200	60.79	86.6	0.213	84.3	6.062	12.72
111	2007	249	215	61.09	85.3	0.488	113.8	26.42	12.72
111	2007	249	230	61.66	83.5	0.542	113.3	32.33	12.71
111	2007	249	245	62.35	81.4	1.05	106.6	18.78	12.71
111	2007	249	300	62.05	82.4	0.607	37.54	12.65	12.71
111	2007	249	315	61.54	83.6	1.177	55.71	26.06	12.71
111	2007	249	330	61.04	84.4	0.697	33.77	24.23	12.71
111	2007	249	345	60.59	85.3	0.591	36.8	10.47	12.71
111	2007	249	400	60.25	86	na	na	na	12.71
111	2007	249	415	60.08	86.3	0.543	10.31	20.91	12.71
111	2007	249	430	59.9	87.2	0.974	23.75	34.65	12.75
111	2007	249	445	60.85	87.8	0.892	199.5	67.01	12.81
111	2007	249	500	64.55	82.9	3.241	226.3	34.43	12.89
111	2007	249	515	66.44	81.6	3.195	217.1	24	13
111	2007	249	530	66.48	82.3	2.541	229.3	34.35	13.19
111	2007	249	545	66.72	81.2	3.16	218.9	29.34	13.35
111	2007	249	600	66.68	81.7	2.363	234.3	29.13	13.35
111	2007	249	615	66.77	80.9	2.425	222.4	29.61	13.35
111	2007	249	630	66.99	79.6	2.56	217.5	29.41	13.34
111	2007	249	645	67.47	79.3	2.378	226.9	28.9	13.33
111	2007	249	700	67.63	79.3	2.492	220.8	23.23	13.32
111	2007	249	715	67.96	79	2.504	232.8	23.67	13.31
111	2007	249	730	68.17	78.9	2.548	228.9	27.34	13.31
111	2007	249	745	68.41	78	3.239	230.9	23.75	13.3
111	2007	249	800	68.54	78.7	2.903	234.6	27.32	13.3
111	2007	249	815	68.78	78.1	3.704	226.7	24.74	13.3
111	2007	249	830	69.15	78.1	3.058	224.6	29.46	13.3
111	2007	249	845	69.44	77.6	4.166	231.6	22.97	13.3
111	2007	249	900	70.5	75	4.833	220.8	30.57	13.31
111	2007	249	915	70.8	76.7	5.155	218.5	25.63	13.31
111	2007	249	930	72.1	73.4	3.708	219.2	33.27	13.31
111	2007	249	945	72.4	74	4.726	210.6	33.89	13.31
111	2007	249	1000	72.8	70.7	4.929	208.9	27.34	13.3
111	2007	249	1015	73	72	4.835	225.8	32.4	13.3
111	2007	249	1030	72.7	68.74	5.31	236.5	35.85	13.3
111	2007	249	1045	73.4	70.5	4.806	236.8	32.49	13.3
111	2007	249	1100	73.3	71.9	5.683	219.3	30.3	13.28
111	2007	249	1115	72.7	71.7	5.604	235.5	31.96	13.28
111	2007	249	1130	73.6	69.94	5.215	216.7	30.46	13.28
111	2007	249	1145	74.3	69.07	5.457	225.8	30.81	13.28
111	2007	249	1200	74.3	69.98	5.786	244.1	29.93	13.27
111	2007	249	1215	73.6	69.44	6.023	238.3	29.33	13.28
111	2007	249	1230	73.9	69.78	6.656	239.6	31.13	13.29

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	249	1245	74.2	69.21	5.538	236.1	32.37	13.28
111	2007	249	1300	74.5	71.6	6.408	226.3	30.6	13.28
111	2007	249	1315	74.5	71.1	7.04	229.5	28.57	13.28
111	2007	249	1330	74.5	71	6.523	220	27.68	13.28
111	2007	249	1345	74.6	72.6	7.33	216.9	24.9	13.28
111	2007	249	1400	74.7	70.7	6.394	227.8	30.42	13.28
111	2007	249	1415	74.7	69.37	6.545	219.5	29.73	13.29
111	2007	249	1430	74.8	71.4	6.656	227.7	25.36	13.23
111	2007	249	1445	74.4	73.2	6.533	238.5	27.34	13.13
111	2007	249	1500	74.7	68.06	6.259	219.9	23.58	13.07
111	2007	249	1515	74.6	73.4	6.088	222.3	27.53	13.01
111	2007	249	1530	75.2	72.7	5.28	222	34.94	12.97
111	2007	249	1545	75.2	71	5.153	237.8	36.29	12.94
111	2007	249	1600	74.7	71.9	6.607	243.4	35.22	12.92
111	2007	249	1615	74.4	72.8	6.734	243.3	37.09	12.91
111	2007	249	1630	74.1	73.5	6.491	243.9	29.41	12.89
111	2007	249	1645	74.1	74.8	6.34	244.7	37.13	12.89
111	2007	249	1700	74.1	76.7	5.509	258.5	35.01	12.88
111	2007	249	1715	74.5	76.5	5.703	284.5	45.1	12.87
111	2007	249	1730	74.3	67.54	5.362	277.6	40.5	12.87
111	2007	249	1745	74.1	68	5.004	281.3	42.73	12.87
111	2007	249	1800	74.2	67.97	4.081	273.3	43.48	12.86
111	2007	249	1815	73.5	68.74	3.98	285.7	34.32	12.86
111	2007	249	1830	73.1	72.4	4.025	281.2	34.98	12.85
111	2007	249	1845	72.4	74	3.65	262.5	36.7	12.85
111	2007	249	1900	71.8	79.4	3.638	264.9	33.13	12.85
111	2007	249	1915	71.2	83	3.44	255	30.98	12.85
111	2007	249	1930	70.9	85.3	3.277	247.2	35.86	12.85
111	2007	249	1945	70.7	86.7	3.438	260.6	36.52	12.85
111	2007	249	2000	70.6	87.1	3.048	257.4	29.65	12.85
111	2007	249	2015	70.5	87	3.41	263.2	35.02	12.85
111	2007	249	2030	70.5	86.9	3.154	263.1	41.31	12.84
111	2007	249	2045	70.5	86.2	3.876	255.1	38.68	12.84
111	2007	249	2100	70.4	85.8	3.702	256.1	37.93	12.83
111	2007	249	2115	70.4	85.2	4.293	258.2	39.19	12.83
111	2007	249	2130	70.4	84.6	4.152	268.9	41.73	12.83
111	2007	249	2145	70.4	84.7	4.059	273.3	30.96	12.82
111	2007	249	2200	70.5	83.9	4.635	274	35.44	12.82
111	2007	249	2215	70.4	84.2	3.888	275.2	41.67	12.81
111	2007	249	2230	70.3	84.4	3.9	289.1	39.46	12.81
111	2007	249	2245	70.2	84.6	4.196	286.9	35.88	12.81
111	2007	249	2300	70.1	85.2	3.569	290.3	41.73	12.8
111	2007	249	2315	70.1	85.4	3.914	289.5	34.53	12.79
111	2007	249	2330	69.99	86.1	2.959	286.8	38.47	12.78
111	2007	249	2345	70	86.1	3.559	294.7	35.24	12.78
111	2007	249	2400	70.2	85.9	3.612	290.6	34.03	12.77
111	2007	250	15	70.4	85.9	3.976	287	37.27	12.77
111	2007	250	30	70.2	86.4	2.967	295	36.14	12.76
111	2007	250	45	70.2	86.2	3.271	300.9	35.51	12.75
111	2007	250	100	70.3	86.2	3.541	300.7	27.41	12.75
111	2007	250	115	70.3	86.2	2.963	301.2	28.41	12.75
111	2007	250	130	70.2	87	2.919	297.7	33.7	12.74
111	2007	250	145	70	87.7	2.806	302.5	32.55	12.74
111	2007	250	200	69.84	88.4	3.033	302.9	35.73	12.73
111	2007	250	215	69.71	89.1	2.937	298.5	35.55	12.73
111	2007	250	230	69.74	89.3	3.044	293.7	29.31	12.73
111	2007	250	245	69.67	89.6	2.993	301	31.22	12.73
111	2007	250	300	69.63	90.1	3.072	302.6	26.13	12.73
111	2007	250	315	69.57	90.4	3.723	313.9	23.75	12.72
111	2007	250	330	69.69	90.3	3.382	310.1	29.98	12.72

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	250	345	69.66	90.1	4.125	321.1	24.72	12.72
111	2007	250	400	69.78	89.8	3.761	314.8	21.61	12.71
111	2007	250	415	69.94	89.7	4.424	319.7	22.69	12.71
111	2007	250	430	70.1	89.6	4.853	317.7	22.87	12.71
111	2007	250	445	70.3	89.8	3.72	320	20.64	12.71
111	2007	250	500	70.5	89.7	4.156	321.9	23.15	12.75
111	2007	250	515	70.6	89.4	5.586	324.3	28.52	12.85
111	2007	250	530	70.6	89.6	4.454	327.3	22.48	12.99
111	2007	250	545	70.6	89.9	4.544	324.5	28.08	13.33
111	2007	250	600	70.5	89.6	5.177	327.2	15.78	13.37
111	2007	250	615	70.2	89.9	4.381	318.3	26.74	13.37
111	2007	250	630	69.94	90.5	3.233	322.1	27.5	13.37
111	2007	250	645	69.64	90.8	3.34	325.1	18.88	13.31
111	2007	250	700	69.5	90.8	3.283	326	16.31	13.34
111	2007	250	715	69.54	90.6	3.43	319.1	24.58	13.36
111	2007	250	730	69.77	89.8	3.537	319.1	25.5	13.32
111	2007	250	745	70.2	88	4.593	320.2	24.8	13.17
111	2007	250	800	70.8	86.2	4.974	322.6	25.84	13.21
111	2007	250	815	71.2	85.2	4.681	325.3	25.31	13.33
111	2007	250	830	71.6	84.1	5.205	323.6	24.81	13.36
111	2007	250	845	72.2	82.9	5.278	312	30.89	13.37
111	2007	250	900	73.2	79.9	4.909	302.7	29.96	13.36
111	2007	250	915	73.5	80.1	5.465	310	35.83	13.35
111	2007	250	930	73.5	80.2	6.15	310	24.83	13.35
111	2007	250	945	73.9	79.2	6.074	314.4	24.27	13.33
111	2007	250	1000	74.5	77.7	5.578	316.9	33.81	13.32
111	2007	250	1015	75.5	75.5	5.739	310.9	32.62	13.32
111	2007	250	1030	75.7	75.3	6.269	307.5	29.2	13.32
111	2007	250	1045	76.4	72.9	5.503	298	33.09	13.32
111	2007	250	1100	76.7	73.1	6.702	312.6	29.04	13.32
111	2007	250	1115	76.5	73.5	6.702	309.1	34.02	13.32
111	2007	250	1130	75.9	74	6.603	308.5	30.28	13.3
111	2007	250	1145	76.1	74.6	7.13	314.4	26.66	13.3
111	2007	250	1200	76.6	73.7	5.653	302.7	37.51	13.3
111	2007	250	1215	76.9	75.1	5.836	290	33	13.3
111	2007	250	1230	77.4	73.1	5.56	296.7	38.39	13.3
111	2007	250	1245	76.4	74.1	5.949	294.4	33.08	13.29
111	2007	250	1300	77	75.7	6.72	299	32.91	13.28
111	2007	250	1315	76.2	78.4	6.025	299.9	40.17	13.3
111	2007	250	1330	75.2	80.2	6.571	269.5	33.54	13.3
111	2007	250	1345	75.3	79	7.2	263.8	34.4	13.3
111	2007	250	1400	75.3	78.9	7.41	289.6	36.97	13.33
111	2007	250	1415	76	77.6	7.49	297.4	36.92	13.32
111	2007	250	1430	76.3	77.7	6.98	282.2	33.15	13.16
111	2007	250	1445	76.6	73.9	6.168	285.6	40.84	13.05
111	2007	250	1500	76.7	75.9	6.527	281.3	35.76	13
111	2007	250	1515	76.5	75.6	6.603	277.2	37.43	12.96
111	2007	250	1530	76.3	74.9	6.676	287.7	44.23	12.94
111	2007	250	1545	76.7	76	6.138	286.7	38.52	12.92
111	2007	250	1600	76.5	76	5.783	280.3	40.19	12.91
111	2007	250	1615	76.4	76.5	6.146	299.1	38.46	12.89
111	2007	250	1630	75.9	76.7	6.63	301.8	35.29	12.89
111	2007	250	1645	75.6	77.8	6.068	300.9	45.78	12.89
111	2007	250	1700	75	78.6	7.25	301	34.02	12.88
111	2007	250	1715	74.7	79.7	7.03	306.9	32.88	12.87
111	2007	250	1730	74.5	80.1	6.573	300.5	32.75	12.87
111	2007	250	1745	74.3	80.1	6.287	302.6	33.16	12.87
111	2007	250	1800	74.1	81.3	5.721	305.7	32.99	12.87
111	2007	250	1815	73.7	82.2	6.059	296.1	36.81	12.87
111	2007	250	1830	73.3	83	5.788	303.5	30.13	12.86

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	250	1845	73	84.2	6.291	305.6	31.73	12.86
111	2007	250	1900	72.5	85.1	6.136	301.2	35.73	12.85
111	2007	250	1915	72.2	85.7	5.264	308.2	37.18	12.85
111	2007	250	1930	72.1	86.1	6.263	304.4	33.18	12.85
111	2007	250	1945	72	86.5	5.211	302.9	30.36	12.85
111	2007	250	2000	71.9	86.7	5.675	305.7	34.43	12.84
111	2007	250	2015	71.9	86.8	5.745	309.2	35.32	12.84
111	2007	250	2030	71.9	86.7	6.37	310.5	30.64	12.83
111	2007	250	2045	71.8	86.9	5.89	305	28.14	12.83
111	2007	250	2100	71.8	87.1	7.1	310.4	29.59	12.83
111	2007	250	2115	71.8	87.3	5.578	308.9	27.53	12.82
111	2007	250	2130	71.7	87.6	5.798	303.2	41.09	12.82
111	2007	250	2145	71.6	87.9	5.564	308.2	31.47	12.81
111	2007	250	2200	71.5	88.1	5.362	310.9	26.37	12.81
111	2007	250	2215	71.5	88.3	5.544	304.1	29.33	12.8
111	2007	250	2230	71.4	88.7	5.872	309.5	26.63	12.8
111	2007	250	2245	71.4	88.7	5.407	308.8	34.48	12.79
111	2007	250	2300	71.3	89.1	5.048	313.4	30.07	12.79
111	2007	250	2315	71.3	89.1	5.727	318.3	25.94	12.78
111	2007	250	2330	71.3	89.4	5.447	314.1	26.46	12.77
111	2007	250	2345	71.3	89.2	6.035	314.3	26.33	12.77
111	2007	250	2400	71.3	89.5	5.362	311.2	27.54	12.76
111	2007	251	15	71.2	89.6	6.174	315.7	26.47	12.75
111	2007	251	30	71.2	89.6	6.11	309.6	27.11	12.75
111	2007	251	45	71.2	89.1	6.468	316.8	26	12.74
111	2007	251	100	71.2	89	5.943	316.3	32.59	12.73
111	2007	251	115	71.1	89	5.636	308.6	29.42	12.73
111	2007	251	130	71.1	89	5.588	310.8	30.42	12.72
111	2007	251	145	71	89.2	5.308	306.6	28.32	12.72
111	2007	251	200	71	89.1	6.233	314.6	22.98	12.71
111	2007	251	215	71	89.1	6.188	320.7	24.53	12.71
111	2007	251	230	71.1	89.3	5.912	320.1	24.9	12.71
111	2007	251	245	71.3	89.5	6.47	316.4	25.11	12.71
111	2007	251	300	71.5	89.4	6.928	314.8	27.16	12.71
111	2007	251	315	71.6	89.6	7.5	317	25.44	12.71
111	2007	251	330	71.5	89.9	6.926	315.7	25.44	12.71
111	2007	251	345	71.3	90.2	6.422	317.8	24.57	12.71
111	2007	251	400	71.1	90.3	6.491	320.4	24.49	12.71
111	2007	251	415	70.8	89.7	5.763	320	18.67	12.71
111	2007	251	430	70.6	88.8	5.723	320.6	26.57	12.71
111	2007	251	445	70.5	88.2	5.769	316.1	23.11	12.71
111	2007	251	500	70.5	88.3	5.584	314.8	28.62	12.71
111	2007	251	515	70.3	88.7	5.127	314.9	29.14	12.71
111	2007	251	530	70.3	88.5	5.975	320.1	29.42	12.71
111	2007	251	545	70.3	88.7	5.745	317.5	27.9	12.71
111	2007	251	600	70.3	88.7	6.342	321.5	22.54	12.71
111	2007	251	615	70.1	89.1	5.354	316.4	33.97	12.71
111	2007	251	630	70.1	88.7	5.999	313.8	27.18	12.74
111	2007	251	645	70	88.9	4.907	314.9	28.92	12.87
111	2007	251	700	69.99	88.5	5.278	317.2	30.05	13.24
111	2007	251	715	70.2	87.3	5.87	322.2	20.64	13.37
111	2007	251	730	70.5	86.1	5.435	321.3	22.33	13.37
111	2007	251	745	70.8	84.6	6.444	320.3	25.83	13.36
111	2007	251	800	71.2	83.7	5.916	325.5	25.55	13.35
111	2007	251	815	71.5	83	5.223	320.3	27.49	13.32
111	2007	251	830	72	81.2	5.332	321	24.84	13.2
111	2007	251	845	72.2	80.6	6.269	319.6	26.78	13.19
111	2007	251	900	72.7	80.8	6.037	311.5	30.6	13.24
111	2007	251	915	72.7	79.7	7.16	312.4	27.56	13.19
111	2007	251	930	72.9	79.5	7.64	314.3	26.65	13.19

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	251	945	73.2	78.1	7	317	27.84	13.29
111	2007	251	1000	73.8	77.5	6.156	308.7	32.74	13.21
111	2007	251	1015	74.5	75.2	5.788	302.9	32.91	13.17
111	2007	251	1030	74.2	75.6	7.11	307.4	22.28	13.1
111	2007	251	1045	74.5	75	7.64	318.1	30.21	13.03
111	2007	251	1100	74.8	74.3	6.775	315.9	31.31	12.99
111	2007	251	1115	75.1	73.1	7.58	321	29.65	12.95
111	2007	251	1130	75.8	72.5	6.771	315.9	24.56	12.93
111	2007	251	1145	76.1	71.3	7.05	311	31.51	12.93
111	2007	251	1200	75.7	72	8.04	319.3	30.75	12.91
111	2007	251	1215	76.3	71.4	6.595	305.6	32.04	12.93
111	2007	251	1230	76.6	71.9	7.62	311.5	26.36	12.9
111	2007	251	1245	76.6	73.4	7.78	315.3	33.54	12.88
111	2007	251	1300	77.2	71.6	7.34	294	29.96	12.87
111	2007	251	1315	77.8	70.6	6.595	297.8	44.1	12.88
111	2007	251	1330	77.2	74.5	7.74	301.4	27.29	13.01
111	2007	251	1345	77.5	74.6	7.41	298.7	42.6	12.93
111	2007	251	1400	77.6	72.2	6.275	289.4	37.58	12.88
111	2007	251	1415	77.6	72.9	6.823	299.2	34.2	12.87
111	2007	251	1430	76.8	75.2	7.93	291.1	37.49	12.86
111	2007	251	1445	76.8	74.5	7.87	302	36.19	12.85
111	2007	251	1500	77.2	73.8	5.963	308.1	37.49	12.83
111	2007	251	1515	77	76.5	7.89	291.8	36.82	12.83
111	2007	251	1530	76.8	75.5	6.797	302	37.74	12.81
111	2007	251	1545	76.7	75.2	7.02	316.3	31.33	12.8
111	2007	251	1600	76.4	75.2	7.49	312.1	36.01	12.79
111	2007	251	1615	76.1	76.1	7.09	305.5	29.28	12.77
111	2007	251	1630	76	76.8	6.7	302.3	37.17	12.76
111	2007	251	1645	75.8	76.3	7.58	299.7	27.61	12.75
111	2007	251	1700	75.5	77.6	7.38	318.9	30.92	12.73
111	2007	251	1715	75.5	77.7	6.398	305.9	37.67	12.73
111	2007	251	1730	75.1	77.9	6.708	309.4	31.49	12.71
111	2007	251	1745	75	78.5	6.213	304.4	37.64	12.71
111	2007	251	1800	74.5	79	5.868	308.7	35.04	12.71
111	2007	251	1815	74	79.7	6.199	317.8	28.95	12.7
111	2007	251	1830	73.4	80.6	4.802	314.1	36.6	12.7
111	2007	251	1845	72.9	80.9	4.492	309.5	34.71	12.69
111	2007	251	1900	72.7	80.6	4.827	313	27.21	12.69
111	2007	251	1915	72.7	80.3	4.333	320.9	30.26	12.7
111	2007	251	1930	72.6	79.3	3.408	316.5	44.02	12.69
111	2007	251	1945	72.5	78	4.216	302	29.5	12.69
111	2007	251	2000	72.5	77.3	3.797	308.9	32.82	12.69
111	2007	251	2015	72.6	77.9	4.119	299.8	27.72	12.69
111	2007	251	2030	72.3	80.5	4.007	293.1	32.19	12.69
111	2007	251	2045	72.1	81.9	4.561	309	27.16	12.69
111	2007	251	2100	71.9	83.1	3.346	309.8	32.53	12.69
111	2007	251	2115	71.7	82.6	3.684	307.6	33.52	12.69
111	2007	251	2130	71.7	82.4	4.011	312.1	31.01	12.69
111	2007	251	2145	71.7	81.2	5.477	308.5	32.6	12.69
111	2007	251	2200	71.7	81.7	5.449	312.4	29.52	12.69
111	2007	251	2215	71.7	82.2	6.527	315.5	23.36	12.69
111	2007	251	2230	71.6	83.4	5.628	312	30.51	12.69
111	2007	251	2245	71.5	83.9	6.344	323.3	22.52	12.69
111	2007	251	2300	71.5	84	6.057	319.7	26.94	12.69
111	2007	251	2315	71.6	84	6.166	320.2	25.73	12.68
111	2007	251	2330	71.5	83.6	5.856	324.7	18.93	12.68
111	2007	251	2345	71.5	82.9	6.454	330.5	22.78	12.68
111	2007	251	2400	71.4	82.2	6.491	324.7	22.31	12.68
111	2007	252	15	71.6	81.4	6.896	323.1	23.77	12.67
111	2007	252	30	71.6	81.8	6.505	320.2	22.36	12.67

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	252	45	71.5	82.1	6.384	315.1	26.12	12.66
111	2007	252	100	71.5	82.7	6.241	316.4	27.1	12.66
111	2007	252	115	71.4	83.4	5.967	318.2	25.45	12.66
111	2007	252	130	71.2	84	5.538	311.2	29.99	12.66
111	2007	252	145	71.1	84.2	5.51	320.7	27.01	12.66
111	2007	252	200	71.2	84.7	6.082	326	27.8	12.66
111	2007	252	215	71	85.3	5.604	318.7	23.81	12.66
111	2007	252	230	70.9	85.5	5.147	326	25.84	12.66
111	2007	252	245	70.8	85.1	4.184	322.7	26.81	12.66
111	2007	252	300	70.7	84.3	4.96	320.1	24.95	12.66
111	2007	252	315	70.6	83.7	4.536	323.5	29.02	12.66
111	2007	252	330	70.4	83.6	3.559	320.8	27.37	12.66
111	2007	252	345	70.3	84.1	3.706	309.8	25.67	12.66
111	2007	252	400	70.1	83.8	4.031	317.5	23.71	12.66
111	2007	252	415	70.1	83.4	4.871	317.3	20.88	12.66
111	2007	252	430	70.2	83.2	6.039	323.9	18.46	12.67
111	2007	252	445	70.1	83.6	5.689	324.8	19.83	12.67
111	2007	252	500	69.97	84.4	4.955	322.2	17.97	12.68
111	2007	252	515	69.85	84.9	4.921	324.5	22.9	12.71
111	2007	252	530	69.84	85.7	3.722	329.3	20.92	12.83
111	2007	252	545	69.66	86.9	3.632	320	22.6	13.06
111	2007	252	600	69.71	87	4.19	325.8	19.52	13.35
111	2007	252	615	69.73	86.6	4.341	334.3	27.46	13.41
111	2007	252	630	69.66	86.5	3.628	332.3	16.15	13.41
111	2007	252	645	69.49	86.6	4.47	319.4	19.68	13.41
111	2007	252	700	69.54	86.5	4.035	323	23.81	13.41
111	2007	252	715	69.86	86	4.732	321.7	19.26	13.39
111	2007	252	730	70.4	84.9	4.782	324	22.97	13.39
111	2007	252	745	71.1	82.8	5.441	326.3	22.57	13.39
111	2007	252	800	71.5	82.5	5.862	326.5	24.28	13.38
111	2007	252	815	71.9	81.3	6.388	324.5	23.01	13.39
111	2007	252	830	72.3	79.1	6.656	329.2	25.72	13.39
111	2007	252	845	73	77	7.27	326	25.45	13.39
111	2007	252	900	73.5	74.1	7.98	335.2	17.41	13.39
111	2007	252	915	73.9	73.3	8.51	333.5	23.75	13.39
111	2007	252	930	74.5	73.1	7.41	327.1	19	13.39
111	2007	252	945	74.9	73.2	7.38	325.8	23.87	13.39
111	2007	252	1000	75.3	71	6.603	321.8	31.53	13.39
111	2007	252	1015	75.8	70.6	6.07	303.5	30.94	13.37
111	2007	252	1030	75.9	72.4	6.156	299.2	32.22	13.37
111	2007	252	1045	76.2	70.5	6.025	312.5	28.91	13.36
111	2007	252	1100	76.4	69.71	5.949	301.3	29.44	13.36
111	2007	252	1115	76.9	73.6	5.713	297.4	36.16	13.35
111	2007	252	1130	76.6	72.6	6.585	317.3	30.62	13.35
111	2007	252	1145	76.4	72.9	6.654	309.8	29.37	13.34
111	2007	252	1200	75.4	78	7.56	317.8	24.72	13.34
111	2007	252	1215	75	78.3	6.229	305.9	33.99	13.33
111	2007	252	1230	75.6	75.9	6.047	306.2	28.46	13.33
111	2007	252	1245	76.7	76.5	5.898	308.7	34.75	13.33
111	2007	252	1300	75.9	72.9	4.835	305.8	34.6	13.33
111	2007	252	1315	77	69.7	6.757	303.6	30.49	13.33
111	2007	252	1330	77.3	65.66	6.116	291.6	34.71	13.33
111	2007	252	1345	77.5	65.45	6.712	313.7	27.85	13.33
111	2007	252	1400	77.6	65.85	6.712	309.2	31.72	13.33
111	2007	252	1415	78.2	65.95	5.302	294.3	37.97	13.33
111	2007	252	1430	78.3	60.03	5.695	292.3	39.2	13.33
111	2007	252	1445	78.4	58.06	5.661	305.8	32.43	13.28
111	2007	252	1500	78.4	60.26	5.36	295.1	31.83	13.34
111	2007	252	1515	78.1	58.42	4.893	288.3	30.43	13.34
111	2007	252	1530	77.4	61.76	5.276	297.9	33.24	13.36

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	252	1545	77.2	60.16	4.264	271.3	39.23	13.15
111	2007	252	1600	78.6	49.57	4.786	288.5	45.72	13.06
111	2007	252	1615	78.6	54.68	4.657	289.3	39.22	13
111	2007	252	1630	78.4	59.66	4.845	289	36.31	12.96
111	2007	252	1645	77.7	63.5	4.637	267.8	39.25	12.93
111	2007	252	1700	77.9	64.37	4.329	266.3	35.54	12.91
111	2007	252	1715	77.4	66.74	4.331	278.8	30.23	12.89
111	2007	252	1730	77.2	70.3	4.285	271.1	38.23	12.88
111	2007	252	1745	76.2	74.4	3.998	249.4	31.85	12.86
111	2007	252	1800	74.8	76.4	3.027	241.4	32.62	12.86
111	2007	252	1815	74.3	77.8	3.328	230.3	21.47	12.84
111	2007	252	1830	74	79.3	2.612	238.5	32.35	12.84
111	2007	252	1845	73.8	79.9	2.8	222.6	28.24	12.83
111	2007	252	1900	73.7	80.5	2.77	239.7	24.19	12.82
111	2007	252	1915	73.3	81.1	2.816	240.1	22.24	12.82
111	2007	252	1930	73.1	81.6	2.341	241.7	25.3	12.81
111	2007	252	1945	73.1	81.8	3.1	238.2	24.55	12.8
111	2007	252	2000	73.1	82.1	2.882	223.7	25.98	12.8
111	2007	252	2015	73.2	82.3	2.884	225.9	28.21	12.8
111	2007	252	2030	73.1	82.2	3.235	233.6	29.6	12.79
111	2007	252	2045	73.1	82.9	2.882	231.7	30.8	12.78
111	2007	252	2100	73.2	83.2	3.477	215.4	23.2	12.78
111	2007	252	2115	73.3	83.9	3.652	219.9	25.5	12.78
111	2007	252	2130	73.1	85.2	2.57	230	25.76	12.77
111	2007	252	2145	73.2	85.7	3.13	215.4	26.73	12.77
111	2007	252	2200	73.2	86.6	2.78	224.7	30.25	12.77
111	2007	252	2215	73.4	87.1	2.728	217.4	34.88	12.76
111	2007	252	2230	73.5	87.4	2.614	231.7	37.22	12.76
111	2007	252	2245	73.4	88.2	2.667	220.9	26.46	12.76
111	2007	252	2300	73.5	88.3	3.487	203.9	21.36	12.75
111	2007	252	2315	73.6	88.7	3.028	224	31.06	12.75
111	2007	252	2330	73.5	89.2	2.832	207.6	33.09	12.74
111	2007	252	2345	73.5	89.4	3.078	216.3	38.06	12.74
111	2007	252	2400	73.4	89.9	2.378	222.7	32.93	12.74
111	2007	253	15	73.4	90.3	1.552	242.3	34.19	12.74
111	2007	253	30	73.4	90.7	2.121	230.8	27.59	12.74
111	2007	253	45	73.3	91	2.316	226.5	28.51	12.73
111	2007	253	100	73.3	91.1	2.997	226.9	25.61	12.73
111	2007	253	115	73.2	91.3	2.882	224.6	24.5	12.73
111	2007	253	130	73.1	91.5	2.29	227.7	28.58	12.73
111	2007	253	145	73	91.6	2.77	232.8	29.95	12.72
111	2007	253	200	72.9	91.5	1.71	230.7	21.17	12.72
111	2007	253	215	72.9	90.9	1.875	239.1	35.45	12.71
111	2007	253	230	73	90.4	0.778	273.4	21.58	12.71
111	2007	253	245	73	89.9	1.244	248.3	22.66	12.71
111	2007	253	300	73.1	89.4	1.122	246.1	22.7	12.71
111	2007	253	315	73.1	89.9	1.273	242	21.11	12.7
111	2007	253	330	73	90.5	1.334	229.5	28.44	12.7
111	2007	253	345	72.9	90.6	1.068	248.8	28.59	12.69
111	2007	253	400	72.7	91.1	1.522	217.8	28.45	12.69
111	2007	253	415	72.7	91.5	1.705	187.9	29.29	12.69
111	2007	253	430	72.7	91.5	2.183	184.5	15.06	12.7
111	2007	253	445	72.6	91.7	2.365	179.6	21.15	12.7
111	2007	253	500	72.5	91.8	2.488	187.4	19.95	12.72
111	2007	253	515	72.1	92.1	2.794	187	20.96	12.74
111	2007	253	530	72	92.2	2.766	197.8	17.65	12.88
111	2007	253	545	71.7	92.3	3.898	182.3	19.7	13.07
111	2007	253	600	71.4	92.6	2.999	186.4	23.43	13.46
111	2007	253	615	71	93	3.928	177.6	21.7	13.44
111	2007	253	630	70.8	93	4.182	168	22.19	13.43

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	253	645	70.7	93.2	3.741	173.9	22.93	13.41
111	2007	253	700	70.5	93.5	3.992	169.1	22.58	13.4
111	2007	253	715	70.4	93.7	3.154	141	30.93	13.39
111	2007	253	730	70.5	93.8	2.451	121.1	32.81	13.37
111	2007	253	745	70.5	93.8	2.387	152	33.47	13.37
111	2007	253	800	70.6	93.9	2.528	158	29.51	13.37
111	2007	253	815	70.8	93.8	2.959	171.6	27.44	13.37
111	2007	253	830	70.9	93.6	2.961	176.7	26.16	13.37
111	2007	253	845	71.1	93.6	3.334	188.4	25.31	13.37
111	2007	253	900	71.4	93.1	3.63	184.2	22.7	13.37
111	2007	253	915	71.6	92.5	4.776	174	21.47	13.37
111	2007	253	930	71.6	92.1	5.163	190.2	24.08	13.37
111	2007	253	945	71.6	91.6	4.559	183.1	25.93	13.36
111	2007	253	1000	71.5	91.8	4.073	207.7	21.63	13.36
111	2007	253	1015	71.5	91.5	4.029	190.6	23.48	13.36
111	2007	253	1030	71.8	91.2	3.698	175.4	22.04	13.35
111	2007	253	1045	72.1	89.7	4.083	175.4	20.52	13.35
111	2007	253	1100	71.9	90.2	4.651	198.5	23.65	13.35
111	2007	253	1115	71.6	90.6	4.176	181.7	22.81	13.35
111	2007	253	1130	71.5	90	4.869	180.4	23.54	13.35
111	2007	253	1145	71.1	90.4	5.199	188.3	25.49	13.36
111	2007	253	1200	70.6	90.4	6.454	190.8	25.68	13.36
111	2007	253	1215	70.9	89.7	6.422	190.3	20.96	13.35
111	2007	253	1230	72.1	86.7	5.01	187.4	28.72	13.32
111	2007	253	1245	73.3	82.8	4.649	200.1	26.26	13.32
111	2007	253	1300	73.8	83.1	5.469	194.6	23.75	13.32
111	2007	253	1315	74	82.7	5.514	201.8	31.72	13.32
111	2007	253	1330	74.5	81.7	4.937	203.8	25.71	13.32
111	2007	253	1345	74.1	82.7	4.72	165.2	32.36	13.32
111	2007	253	1400	74.2	82.1	4.359	157.3	30.33	13.32
111	2007	253	1415	74.5	82	4.422	166.9	27.81	13.32
111	2007	253	1430	74.9	80.7	3.553	185.2	38.81	13.34
111	2007	253	1445	76.3	79.4	4.667	204.2	29.04	13.34
111	2007	253	1500	76	79	4.851	203.2	32.58	13.34
111	2007	253	1515	76.2	80.2	4.301	216.1	27.98	13.36
111	2007	253	1530	76.1	81.2	4.853	222.5	28.86	13.22
111	2007	253	1545	76.4	79.9	4.573	229.3	32.44	12.97
111	2007	253	1600	76.1	79.8	5.36	215.2	29.51	12.87
111	2007	253	1615	74.8	82.2	5.64	220.3	28.11	12.83
111	2007	253	1630	74.1	82.5	6.906	207.9	20.86	12.8
111	2007	253	1645	74	84.5	5.914	201.4	21.41	12.79
111	2007	253	1700	73.3	86.8	4.526	219.8	28.43	12.78
111	2007	253	1715	72.9	88.4	4.033	232.7	33.91	12.77
111	2007	253	1730	73	87.8	3.835	223	29.92	12.76
111	2007	253	1745	72.6	88.7	5.399	209.9	25.7	12.75
111	2007	253	1800	72.1	89.6	4.96	206.3	22.61	12.74
111	2007	253	1815	72.1	89.5	4.428	204.7	25	12.73
111	2007	253	1830	71.6	90.7	4.14	195.6	21.99	12.72
111	2007	253	1845	71.5	90.4	3.261	188.8	28.85	12.71
111	2007	253	1900	71.1	91.1	3.805	183.7	25.29	12.7
111	2007	253	1915	70.8	91.7	3.888	186.7	28.43	12.67
111	2007	253	1930	70.7	91.8	3.505	192.2	26.25	12.67
111	2007	253	1945	70.8	91.5	3.815	186.3	21.63	12.65
111	2007	253	2000	70.9	91.3	3.662	179.1	23.28	12.63
111	2007	253	2015	70.9	91.5	4.25	194.2	20.08	12.64
111	2007	253	2030	71	91.2	4.23	198.5	18.54	12.63
111	2007	253	2045	71.2	90.8	4.013	190.7	21.08	12.62
111	2007	253	2100	71.1	90.7	4.941	187.6	19.33	12.62
111	2007	253	2115	70.8	91.1	4.109	181.3	23.18	12.6
111	2007	253	2130	70.7	91.1	3.69	165.3	23.77	12.6

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	253	2145	70.6	91.3	3.513	166.6	19.23	12.59
111	2007	253	2200	70.6	91.3	3.362	186.5	27.7	12.58
111	2007	253	2215	70.5	91.1	2.85	201.9	22.85	12.58
111	2007	253	2230	70.4	91.5	3.029	202.9	18.02	12.57
111	2007	253	2245	70.5	91.6	3.307	196.1	20.71	12.56
111	2007	253	2300	70.6	91.6	4.19	188.3	19.83	12.55
111	2007	253	2315	70.4	91.8	4.256	192.3	20.97	12.55
111	2007	253	2330	70.3	92.1	3.924	182	21.1	12.55
111	2007	253	2345	70.2	92	3.221	180.8	26.54	12.54
111	2007	253	2400	70.1	91.9	3.354	195.6	21.54	12.54
111	2007	254	15	70.2	91.8	3.035	205.1	24.99	12.54
111	2007	254	30	70.2	91.7	3.277	194.7	22.18	12.54
111	2007	254	45	70.2	91.5	3.338	195.5	21.23	12.54
111	2007	254	100	70.3	91.4	3.827	207.1	20.11	12.54
111	2007	254	115	70.5	91.6	4.194	206.9	22.32	12.54
111	2007	254	130	70.2	92.2	3.968	207.6	17.2	12.54
111	2007	254	145	70.1	92.6	3.749	190.9	21.15	12.54
111	2007	254	200	70.1	92.7	3.67	177.5	23.54	12.53
111	2007	254	215	69.9	93	3.261	182.5	18.9	12.54
111	2007	254	230	69.8	93.3	3.559	195.6	17.83	12.54
111	2007	254	245	69.89	93.3	3.31	184.7	21.26	12.53
111	2007	254	300	69.92	93.4	3.084	184.9	23.15	12.54
111	2007	254	315	69.97	93.5	3.301	184.1	20.45	12.52
111	2007	254	330	69.93	93.6	3.868	190.7	20.39	12.53
111	2007	254	345	69.81	93.7	3.948	179.2	20.23	12.54
111	2007	254	400	69.68	93.9	4.841	181.4	20.19	12.54
111	2007	254	415	69.69	94.2	4.714	197.4	17.09	12.54
111	2007	254	430	69.74	94.3	4.649	193.3	19.67	12.55
111	2007	254	445	69.86	94.5	5.505	202.3	20.68	12.58
111	2007	254	500	70.2	94.6	4.168	206.3	24.61	12.62
111	2007	254	515	70.4	94.7	4.486	207.1	23.65	12.67
111	2007	254	530	70.7	94.7	4.651	212.9	22.78	12.78
111	2007	254	545	70.9	94.7	4.502	205.4	26.35	12.99
111	2007	254	600	71	94.7	5.59	207.2	19.46	13.36
111	2007	254	615	71.1	94.6	5.743	205.6	21.17	13.39
111	2007	254	630	71.2	94.7	5.844	205.8	24.89	13.37
111	2007	254	645	71.3	94.5	6.426	209.2	23.72	13.37
111	2007	254	700	71.4	94.5	6.11	204.9	27.17	13.36
111	2007	254	715	71.5	94.4	5.048	215.9	25.59	13.34
111	2007	254	730	71.7	94.2	5.048	232.4	27.72	13.34
111	2007	254	745	71.7	94	4.369	258.2	46.71	13.33
111	2007	254	800	71.4	94.1	4.553	274.2	35.22	13.32
111	2007	254	815	71	94.1	3.15	274	36.33	13.33
111	2007	254	830	71	94.1	3.094	259.8	34.32	13.33
111	2007	254	845	71.1	93.9	3.741	269.3	38.85	13.33
111	2007	254	900	71.1	94.1	3.753	269.5	39.35	13.33
111	2007	254	915	71.3	94	4.005	258.1	38.59	13.32
111	2007	254	930	71.4	93.8	4.992	254.2	32.8	13.32
111	2007	254	945	71.6	93.6	4.232	269.3	39.91	13.32
111	2007	254	1000	71.9	92.9	5.248	272.2	44.88	13.33
111	2007	254	1015	72.5	91.9	5.975	282.7	38.86	13.32
111	2007	254	1030	73	90.5	6.368	279.9	38.28	13.32
111	2007	254	1045	73.6	88.7	6.94	298.3	33.72	13.32
111	2007	254	1100	74	88	6.968	302.8	26.95	13.31
111	2007	254	1115	73.9	88.1	6.867	298.3	31.27	13.32
111	2007	254	1130	73.4	89.5	5.572	292.9	42.07	13.32
111	2007	254	1145	72.7	91.2	6.315	291.8	32.92	13.32
111	2007	254	1200	72.4	91.6	6.69	281.5	32.4	13.33
111	2007	254	1215	72.1	92.2	5.576	273.9	40.94	13.34
111	2007	254	1230	72	92.5	5.238	273.3	37.91	13.34

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	254	1245	71.9	93.4	5.711	266.7	40.88	13.34
111	2007	254	1300	72.3	93.4	5.151	290	40.63	13.34
111	2007	254	1315	72.4	93.4	4.629	279.7	39.6	13.34
111	2007	254	1330	72.4	93.7	4.409	282.3	42.04	13.35
111	2007	254	1345	72.6	93.6	5.038	275	39.98	13.28
111	2007	254	1400	72.6	93.6	3.789	294.5	34.96	13.28
111	2007	254	1415	72.6	93.6	2.446	276	60.13	13.36
111	2007	254	1430	71.4	93.4	10.13	331.7	39.44	13.25
111	2007	254	1445	69.95	92.6	0.261	342.6	8.71	13.08
111	2007	254	1500	68.34	93.7	na	na	na	12.95
111	2007	254	1515	68.2	93.6	na	na	na	12.88
111	2007	254	1530	68.28	93.7	na	na	na	12.85
111	2007	254	1545	68.15	93.8	na	na	na	12.84
111	2007	254	1600	68.09	93.8	na	na	na	12.83
111	2007	254	1615	68.09	93.8	na	na	na	12.81
111	2007	254	1630	68.23	94	na	na	na	12.81
111	2007	254	1645	68.65	93.7	na	na	na	12.8
111	2007	254	1700	68.79	93.6	na	na	na	12.8
111	2007	254	1715	69.03	93.4	na	na	na	12.79
111	2007	254	1730	69.11	93.6	na	na	na	12.79
111	2007	254	1745	69.34	93.4	na	na	na	12.79
111	2007	254	1800	69.37	93.2	na	na	na	12.79
111	2007	254	1815	69.33	93.3	na	na	na	12.77
111	2007	254	1830	69.45	93	na	na	na	12.77
111	2007	254	1845	69.67	93.2	na	na	na	12.76
111	2007	254	1900	69.83	92.6	na	na	na	12.76
111	2007	254	1915	69.73	92.8	na	na	na	12.75
111	2007	254	1930	69.66	92.8	na	na	na	12.75
111	2007	254	1945	69.61	92.7	na	na	na	12.73
111	2007	254	2000	69.74	92.4	na	na	na	12.73
111	2007	254	2015	69.75	91.1	na	na	na	12.73
111	2007	254	2030	69.82	90.9	na	na	na	12.72
111	2007	254	2045	69.93	90.4	na	na	na	12.71
111	2007	254	2100	70.1	90.2	na	na	na	12.7
111	2007	254	2115	70.1	89.5	na	na	na	12.69
111	2007	254	2130	70.1	89.1	na	na	na	12.69
111	2007	254	2145	70.2	87.5	0.171	322.2	14.99	12.68
111	2007	254	2200	70.3	86.4	0.89	334.1	12.28	12.67
111	2007	254	2215	70.2	85.9	7.62	333.4	16.66	12.66
111	2007	254	2230	70	86.8	7.85	334.2	19.59	12.65
111	2007	254	2245	69.74	87.6	7.66	332	18.87	12.64
111	2007	254	2300	69.56	87.9	7.38	328.7	17.07	12.64
111	2007	254	2315	69.37	88.7	6.255	325.9	16.09	12.63
111	2007	254	2330	69.22	89.1	6.793	333.7	14.27	12.63
111	2007	254	2345	69.18	89.3	6.325	335.4	20.45	12.62
111	2007	254	2400	69.15	89.3	5.854	333.6	18.94	12.61
111	2007	255	15	69.19	87.9	6.563	338.6	13.82	12.61
111	2007	255	30	69.16	87.1	6.088	337.7	20.64	12.61
111	2007	255	45	69.12	85.1	6.791	345.9	19.24	12.6
111	2007	255	100	69.21	79	7.52	354.7	24.68	12.6
111	2007	255	115	68.98	75.9	6.632	357.6	19.93	12.6
111	2007	255	130	68.51	68	7.75	2.003	15.87	12.6
111	2007	255	145	68.13	53.05	8.22	12.05	24.35	12.59
111	2007	255	200	67.7	52.95	8.97	14.57	30.2	12.6
111	2007	255	215	66.26	59.54	4.335	356.8	24.83	12.6
111	2007	255	230	64.91	63.46	3.718	5.545	25.62	12.6
111	2007	255	245	65.24	66.2	4.089	343.6	21.46	12.59
111	2007	255	300	63.96	71.6	2.006	335	22.26	12.59
111	2007	255	315	62.8	72.4	2.029	331.7	24.58	12.59
111	2007	255	330	62.62	70.1	3.451	340.6	20.26	12.58

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	255	345	63.64	67.31	4.131	340.9	17.25	12.59
111	2007	255	400	63.2	69.02	2.781	322.1	16.88	12.59
111	2007	255	415	62.49	68.39	3.402	329.4	19.45	12.59
111	2007	255	430	63.18	65.95	4.548	342.4	21.56	12.58
111	2007	255	445	64.2	64.28	5.963	343.5	20.34	12.59
111	2007	255	500	64.52	60.8	6.746	351.6	27.31	12.58
111	2007	255	515	65.38	58.92	8.03	9.91	26.05	12.59
111	2007	255	530	65.48	60.39	7.39	3.486	25.18	12.59
111	2007	255	545	64.93	60.15	7.24	353.3	24.26	12.58
111	2007	255	600	64.6	59.05	5.858	352.3	26.17	12.59
111	2007	255	615	64.16	59.82	5.302	338.5	17.18	12.59
111	2007	255	630	63.51	58.78	5.354	340	25.6	12.58
111	2007	255	645	63.3	55.24	5.85	352.2	20.99	12.59
111	2007	255	700	63.14	55.97	4.843	360	22.29	12.59
111	2007	255	715	63.19	50.12	7.15	0.048	20.86	12.59
111	2007	255	730	63.59	47.41	7.97	3.219	25.94	12.59
111	2007	255	745	63.87	45.94	7.77	16.14	27.14	12.6
111	2007	255	800	64.31	46.24	7.24	10.47	24.36	12.6
111	2007	255	815	64.67	46.87	6.203	7.72	23.94	12.88
111	2007	255	830	65.2	48.91	5.117	2.158	24.75	13.21
111	2007	255	845	65.64	47.17	7.46	4.556	24.36	13.45
111	2007	255	900	65.84	45.43	8.11	6.324	25.05	13.43
111	2007	255	915	66.12	45.12	8.26	1.274	30.9	13.42
111	2007	255	930	66.25	44.72	10.23	358.7	22	13.42
111	2007	255	945	65.96	45.02	9.47	7.47	24.05	13.41
111	2007	255	1000	66.57	42.34	8.02	9.49	25.38	13.41
111	2007	255	1015	66.61	43.01	8.88	9.94	31.44	13.4
111	2007	255	1030	66.84	41.81	10.01	0.68	23.46	13.4
111	2007	255	1045	67.3	42.31	7.97	17.54	32.52	13.39
111	2007	255	1100	67.74	40.97	9.16	359.1	29	13.39
111	2007	255	1115	67.64	40.5	10.75	351.8	21.24	13.38
111	2007	255	1130	67.99	40.64	9.68	0.919	24.79	13.38
111	2007	255	1145	68.35	41.47	9.14	7.06	28.51	13.37
111	2007	255	1200	68.69	40.77	8.67	9.32	31.4	13.37
111	2007	255	1215	69.48	41.54	7.75	359.4	29.89	13.37
111	2007	255	1230	69.83	41.71	7.06	11.99	35.23	13.37
111	2007	255	1245	69.67	40.6	9.17	4.668	25.22	13.37
111	2007	255	1300	70	40.9	7.38	6.542	26.9	13.31
111	2007	255	1315	70.3	40.26	7.71	16.56	40.92	13.37
111	2007	255	1330	71	39.76	7.55	26.15	34.59	13.36
111	2007	255	1345	71.2	38.52	8.31	8.06	31.33	13.25
111	2007	255	1400	71.6	37.62	5.715	17.86	35.32	13.38
111	2007	255	1415	72.1	36.85	7.21	1.271	29.58	13.38
111	2007	255	1430	72	35.78	6.767	33.21	32.43	13.38
111	2007	255	1445	72.2	37.38	7.9	3.37	33.19	13.38
111	2007	255	1500	72.6	35.94	6.803	334.5	25.54	13.18
111	2007	255	1515	72.3	36.54	6.066	20.31	36.62	13.21
111	2007	255	1530	72.9	34.34	6.487	9.48	29.47	13.13
111	2007	255	1545	72.9	35.34	6.315	3.95	31.8	12.97
111	2007	255	1600	72.9	36.34	5.26	30	34.44	12.9
111	2007	255	1615	73	34.57	6.738	13.83	32.28	12.87
111	2007	255	1630	73.4	35.01	5.451	28.23	30.55	12.85
111	2007	255	1645	73.3	37.35	5.802	3.449	31.86	12.83
111	2007	255	1700	73.4	36.11	6.352	5.94	37.27	12.81
111	2007	255	1715	73.4	35.61	5.933	18.44	30.76	12.81
111	2007	255	1730	72.9	36.24	5.322	10.19	21.97	12.8
111	2007	255	1745	72.9	36.18	6.203	22.82	29.06	12.79
111	2007	255	1800	72.6	38.98	5.028	5.317	25.82	12.79
111	2007	255	1815	72.3	38.08	4.863	31.79	26.78	12.77
111	2007	255	1830	71.8	40.12	4.133	30.28	24.75	12.77

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	255	1845	71.3	42.33	3.358	32.35	27.53	12.76
111	2007	255	1900	70.3	45.27	3.019	26.56	24.98	12.75
111	2007	255	1915	68.96	48.99	1.982	15.7	17.63	12.74
111	2007	255	1930	67.46	55.88	1.727	19.21	24.96	12.74
111	2007	255	1945	65.87	60.77	1.12	335.1	27.33	12.74
111	2007	255	2000	64.6	64.99	1.226	0.061	37.02	12.72
111	2007	255	2015	63.6	65.2	1.034	352.6	10.87	12.72
111	2007	255	2030	62.51	69.75	1.043	337.4	10.54	12.71
111	2007	255	2045	62	67.95	1.501	9.75	20.88	12.71
111	2007	255	2100	62.97	63.57	1.962	12.43	28.6	12.69
111	2007	255	2115	62.4	65.65	0.667	354.5	21.66	12.69
111	2007	255	2130	61.46	70.3	1.073	346.8	15.32	12.68
111	2007	255	2145	60.64	72.6	1.553	350.8	27.11	12.68
111	2007	255	2200	60.06	75.1	0.948	4.428	33.48	12.68
111	2007	255	2215	59.58	76	1.212	8.9	45.6	12.67
111	2007	255	2230	59.12	77	1.084	14.27	28.32	12.67
111	2007	255	2245	58.41	79	1.061	0.325	19.1	12.66
111	2007	255	2300	57.81	80.9	1.175	23.12	29.31	12.65
111	2007	255	2315	57.67	80.4	0.932	13.17	14.65	12.64
111	2007	255	2330	57.53	80.9	0.994	18.91	15.78	12.63
111	2007	255	2345	56.95	82.3	0.472	330.9	10.12	12.63
111	2007	255	2400	56.41	83.4	0.063	329.1	6.433	12.62
111	2007	256	15	56.15	85.1	0.061	7.25	1.024	12.62
111	2007	256	30	56.08	85.2	0.764	3.996	12.6	12.6
111	2007	256	45	55.71	85.4	0.666	22.4	8.43	12.6
111	2007	256	100	55.63	86.4	0.502	13.71	7.14	12.59
111	2007	256	115	55.23	87	0.342	345	4.226	12.58
111	2007	256	130	54.8	87.5	na	na	na	12.57
111	2007	256	145	54.88	87.4	na	na	na	12.56
111	2007	256	200	54.53	87.7	1.099	338.4	16.99	12.54
111	2007	256	215	53.99	88.8	0.49	345.1	25.8	12.53
111	2007	256	230	54.11	88.5	0.803	24.77	27.84	12.52
111	2007	256	245	53.92	89	0.501	18.93	3.156	12.5
111	2007	256	300	53.88	89	0.027	34.45	0.465	12.5
111	2007	256	315	53.68	88.9	na	na	na	12.49
111	2007	256	330	53.25	89.8	na	na	na	12.47
111	2007	256	345	53.01	89.9	na	na	na	12.49
111	2007	256	400	52.75	90.5	na	na	na	12.48
111	2007	256	415	52.41	91.1	na	na	na	12.48
111	2007	256	430	52.18	91.2	na	na	na	12.48
111	2007	256	445	51.94	91.5	0.551	339.2	9.66	12.5
111	2007	256	500	51.8	91.9	na	na	na	12.51
111	2007	256	515	51.66	92.4	na	na	na	12.55
111	2007	256	530	51.76	92.4	na	na	na	12.67
111	2007	256	545	51.68	92.5	na	na	na	12.79
111	2007	256	600	51.46	92.4	na	na	na	13.31
111	2007	256	615	51.27	93	na	na	na	13.49
111	2007	256	630	51.71	93.1	0.406	35.82	10.94	13.47
111	2007	256	645	52.18	92.8	0.127	30.11	8.46	13.46
111	2007	256	700	52.72	93.5	0.486	37.78	18.47	13.45
111	2007	256	715	54.38	93	0.136	56.28	7.09	13.44
111	2007	256	730	56.34	90.4	1.126	72.3	28.69	13.44
111	2007	256	745	58.84	82.5	1.426	84	29.67	13.43
111	2007	256	800	61.63	73	1.502	97.3	43.19	13.43
111	2007	256	815	63.53	67.34	3.136	116.7	30.63	13.43
111	2007	256	830	64.26	65.49	3.698	111	32.19	13.42
111	2007	256	845	65.21	65.05	3.888	112.3	28.76	13.43
111	2007	256	900	66.05	62.57	3.469	131.8	32.04	13.45
111	2007	256	915	66.67	59.91	4.738	128.5	22.55	13.45
111	2007	256	930	67.47	56.13	4.833	142	25.59	13.44

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	256	945	67.82	55.09	5.145	145.3	25.23	13.43
111	2007	256	1000	68.55	53.31	4.978	133.7	25.74	13.43
111	2007	256	1015	69.3	49	3.727	124.3	39.17	13.41
111	2007	256	1030	70.2	47.36	3.69	141.2	36.21	13.42
111	2007	256	1045	70.5	41.64	3.317	115.7	45.81	13.41
111	2007	256	1100	70.9	41.67	3.086	188.6	44.8	13.41
111	2007	256	1115	71.3	46.21	3.102	169.2	58.08	13.4
111	2007	256	1130	70.4	54.1	3.602	230.5	63.14	13.4
111	2007	256	1145	69.41	57.88	5.006	223.4	29.13	13.4
111	2007	256	1200	69.98	55.17	5.602	230.5	32.05	13.4
111	2007	256	1215	69.72	51.59	5.352	248.3	32.34	13.41
111	2007	256	1230	70.7	51.43	5.256	220.8	28.46	13.41
111	2007	256	1245	70.9	53.44	5.723	228.6	34.86	13.42
111	2007	256	1300	70.2	53.77	5.89	236	30.21	13.43
111	2007	256	1315	70.5	50.73	5.284	235.9	38.07	13.43
111	2007	256	1330	70.8	51.72	5.51	250	38.48	13.44
111	2007	256	1345	71.2	50.02	5.397	244.9	35.05	13.44
111	2007	256	1400	70.9	52.26	5.123	249.6	34.91	13.43
111	2007	256	1415	69.5	51.15	4.895	266.6	35.29	13.43
111	2007	256	1430	70.7	50.48	5.153	257	39.45	13.42
111	2007	256	1445	69.81	48.91	4.921	263.4	31.3	13.43
111	2007	256	1500	68.95	48.71	4.895	290.1	32.24	13.4
111	2007	256	1515	70.5	48.15	4.909	292.5	36.47	13.21
111	2007	256	1530	71.3	46.91	5.34	300.5	33.16	13.31
111	2007	256	1545	71.4	49.22	5.783	292.6	40.44	13.03
111	2007	256	1600	70.9	45.64	4.909	303.4	36.05	12.92
111	2007	256	1615	71	48.98	4.825	272.6	40.26	12.87
111	2007	256	1630	70.3	48.85	4.565	300.9	39.65	12.84
111	2007	256	1645	71.4	45.47	4.486	294	37.55	12.83
111	2007	256	1700	71.1	49.45	4.412	295	46.37	12.81
111	2007	256	1715	70.7	51.55	4.506	272.1	32.79	12.79
111	2007	256	1730	70.5	50.85	3.862	273	38.51	12.77
111	2007	256	1745	70.2	52.12	3.843	279.2	39.12	12.76
111	2007	256	1800	69.81	53.83	3.829	287	32.62	12.76
111	2007	256	1815	69.22	56.03	3.133	267.4	41.13	12.75
111	2007	256	1830	68.84	56.67	2.359	275.4	43.31	12.74
111	2007	256	1845	68.24	58.94	2.534	275.7	34.88	12.72
111	2007	256	1900	67.07	60.92	1.553	283.6	36.55	12.72
111	2007	256	1915	65.85	62.8	1.302	299.8	20.87	12.72
111	2007	256	1930	65.03	64.95	0.871	238.8	15.91	12.71
111	2007	256	1945	64.43	67.39	1.194	306.8	29.55	12.71
111	2007	256	2000	63.63	72.4	1.11	337.9	15.39	12.71
111	2007	256	2015	62.5	75.9	0.296	334.7	4.088	12.7
111	2007	256	2030	61.82	77.2	0.73	342.5	21.57	12.7
111	2007	256	2045	61.29	79.2	0.528	9.22	13.47	12.69
111	2007	256	2100	60.81	80.1	0.29	5.355	11.61	12.68
111	2007	256	2115	60.32	82	0.065	2.542	2.597	12.68
111	2007	256	2130	59.97	82.4	0.168	346.8	6.536	12.68
111	2007	256	2145	59.58	83.5	0.483	334.5	8.57	12.68
111	2007	256	2200	59.37	84.4	0.281	340.2	5.3	12.67
111	2007	256	2215	59.25	84.9	na	na	na	12.67
111	2007	256	2230	59.1	85.5	na	na	na	12.67
111	2007	256	2245	58.6	86	na	na	na	12.66
111	2007	256	2300	58.44	86.7	na	na	na	12.66
111	2007	256	2315	58.31	87	na	na	na	12.65
111	2007	256	2330	58.11	87.2	0.11	36.35	3.243	12.65
111	2007	256	2345	57.87	87.5	0.217	24.37	8.8	12.64
111	2007	256	2400	57.62	88.3	na	na	na	12.65
111	2007	257	15	57.2	88.8	na	na	na	12.64
111	2007	257	30	56.87	89.2	0.446	359.4	9.2	12.64

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	257	45	56.67	89.5	0.441	35.47	7.22	12.63
111	2007	257	100	56.79	89.4	0.467	37.48	16.08	12.63
111	2007	257	115	56.63	89.4	0.216	26.84	10.95	12.63
111	2007	257	130	56.21	89.7	0.062	4.499	0.779	12.62
111	2007	257	145	55.73	90.2	na	na	na	12.62
111	2007	257	200	55.54	90.8	na	na	na	12.62
111	2007	257	215	55.34	91	na	na	na	12.61
111	2007	257	230	55.25	91.2	na	na	na	12.6
111	2007	257	245	55.09	91.4	na	na	na	12.6
111	2007	257	300	55.11	91.3	na	na	na	12.59
111	2007	257	315	54.97	91.3	na	na	na	12.58
111	2007	257	330	54.86	91.4	0.173	97.5	15.01	12.58
111	2007	257	345	54.87	91.1	0.723	26.64	12.57	12.56
111	2007	257	400	54.64	91.1	0.471	18.62	11.46	12.56
111	2007	257	415	54.43	91.2	0.203	7	5.055	12.55
111	2007	257	430	54.3	91.5	0.33	51.27	20.75	12.55
111	2007	257	445	54.36	91.5	0.521	105	10.13	12.57
111	2007	257	500	54.39	91.4	0.443	108	12.61	12.7
111	2007	257	515	54.35	91.3	0.642	110.5	41.94	12.8
111	2007	257	530	54.31	91	0.641	78.5	17.38	12.9
111	2007	257	545	54.26	90.8	1.011	21.98	21.29	13.07
111	2007	257	600	54.27	90.8	0.409	34.38	15.88	13.31
111	2007	257	615	54.29	90.5	0.892	42.63	32.82	13.42
111	2007	257	630	54.25	90.4	0.86	72.9	28.42	13.47
111	2007	257	645	54.34	90.2	0.628	54.54	22.29	13.45
111	2007	257	700	54.56	90	0.534	43.7	19.54	13.44
111	2007	257	715	54.94	89.5	0.735	51.66	29.06	13.44
111	2007	257	730	56.13	88.6	1.128	28.11	32.3	13.43
111	2007	257	745	58.64	83.5	1.313	101.2	29.77	13.42
111	2007	257	800	62	77	1.276	7.3	34.25	13.42
111	2007	257	815	65.25	60.8	2.089	248.1	51.53	13.41
111	2007	257	830	68.07	58.82	2.919	244.6	30.87	13.42
111	2007	257	845	69	55.67	3.013	243.3	36.82	13.43
111	2007	257	900	68.96	57.23	3.755	237.6	28.23	13.42
111	2007	257	915	69.47	53.78	4.289	242	33.38	13.42
111	2007	257	930	69.86	51.17	4.555	223	28.54	13.42
111	2007	257	945	70	51.84	4.966	226.9	29.68	13.42
111	2007	257	1000	70.2	51.84	5.03	229.9	33.12	13.42
111	2007	257	1015	70.2	52.5	5.425	229.8	30.12	13.42
111	2007	257	1030	70.9	51.32	4.551	237.5	32.39	13.41
111	2007	257	1045	71.5	51.69	4.546	235.2	38.59	13.39
111	2007	257	1100	71.1	52.36	5.006	230.9	30.02	13.38
111	2007	257	1115	71.1	51.45	5.127	241.5	41.33	13.4
111	2007	257	1130	70.9	53.73	6.013	238.6	28.25	13.39
111	2007	257	1145	71.2	52.79	6.277	234	31.07	13.39
111	2007	257	1200	71.5	50.59	6.245	227.6	30.63	13.37
111	2007	257	1215	71.9	53.43	6.184	216.9	29.92	13.37
111	2007	257	1230	71.7	55.57	5.904	222.9	30.48	13.38
111	2007	257	1245	71	58.74	6.589	240.4	28.37	13.38
111	2007	257	1300	70.7	59.61	5.401	234	34.16	13.38
111	2007	257	1315	71.3	56.67	5.117	237.4	41.59	13.33
111	2007	257	1330	71.5	57.87	5.84	226.4	38.44	13.4
111	2007	257	1345	71.1	60.95	5.153	228.7	32.74	13.39
111	2007	257	1400	70.7	59.55	5.244	233.5	34.6	13.4
111	2007	257	1415	70.5	59.81	5.739	238	33.13	13.4
111	2007	257	1430	70.8	59.48	5.018	220.3	31.44	13.4
111	2007	257	1445	70.9	61.82	5.352	245.8	35.5	13.4
111	2007	257	1500	70.2	60.38	4.861	230.9	35.87	13.4
111	2007	257	1515	69.74	61.82	5.054	228.3	31.75	13.41
111	2007	257	1530	69.66	64.03	4.52	242.3	31.32	13.2

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	257	1545	70.3	61.02	4.595	247.5	29.79	12.99
111	2007	257	1600	70.6	60.08	4.162	248	39.37	12.89
111	2007	257	1615	70.1	62.25	4.814	222.1	27.12	12.85
111	2007	257	1630	70.1	63.12	4.194	226.5	26.31	12.83
111	2007	257	1645	69.79	62.82	5.012	230.6	30.27	12.82
111	2007	257	1700	69.98	64.56	4.599	230.4	28.41	12.81
111	2007	257	1715	69.32	66.77	4.669	233.6	27.51	12.8
111	2007	257	1730	69.42	67.37	4.148	228.7	28.3	12.79
111	2007	257	1745	69.51	68.78	4.359	226.1	34.3	12.77
111	2007	257	1800	69.11	68.75	4.446	234.8	28.75	12.76
111	2007	257	1815	69.13	69.46	4.142	230.3	27.75	12.76
111	2007	257	1830	69.07	70.4	3.866	228.8	32.67	12.75
111	2007	257	1845	68.98	71.7	3.765	225.5	24.72	12.74
111	2007	257	1900	68.81	73	4.345	219.2	28.74	12.74
111	2007	257	1915	68.69	74.2	5.262	229.4	25.09	12.73
111	2007	257	1930	68.62	74.7	4.009	243.6	36.98	12.72
111	2007	257	1945	68.6	75.2	4.629	237	28.46	12.72
111	2007	257	2000	68.61	76.4	3.168	241.9	30.68	12.71
111	2007	257	2015	68.73	74.3	3.797	243.5	33.86	12.72
111	2007	257	2030	68.98	73	5.373	240.2	20.44	12.71
111	2007	257	2045	69.03	75	4.226	245.1	35.91	12.71
111	2007	257	2100	69.05	75	4.546	231.7	33.93	12.71
111	2007	257	2115	69.11	76.2	4.285	224.9	35.75	12.7
111	2007	257	2130	68.82	80.5	4.833	220.6	24.08	12.7
111	2007	257	2145	67.79	83.9	4.067	241	29.39	12.71
111	2007	257	2200	67.25	84.4	3.13	250.4	39.11	12.7
111	2007	257	2215	66.77	85.3	2.788	272.8	39.66	12.71
111	2007	257	2230	66.24	85.9	2.567	282.2	37.51	12.71
111	2007	257	2245	65.75	87	2.116	291.1	41.31	12.7
111	2007	257	2300	65.42	87.7	1.926	271.5	36.42	12.7
111	2007	257	2315	65.28	88.5	2.077	288.8	37.62	12.68
111	2007	257	2330	64.91	86.5	3.124	227.7	27.31	12.68
111	2007	257	2345	63.88	78.6	4.452	225.9	24.56	12.66
111	2007	257	2400	63.02	82	4.069	233.1	24.48	12.64
111	2007	258	15	63.03	79.6	3.944	228.2	24.56	12.65
111	2007	258	30	62.75	80.8	3.434	235.4	31.74	12.64
111	2007	258	45	62.54	84.3	2.059	253	44.42	12.64
111	2007	258	100	62.61	86.3	0.983	338.3	38.58	12.62
111	2007	258	115	62.59	88.2	1.317	230	38.02	12.62
111	2007	258	130	62.99	88.6	2.687	222.1	31.55	12.62
111	2007	258	145	63.41	87.8	2.717	218.2	29.64	12.61
111	2007	258	200	63.31	87.6	2.86	225.8	27.44	12.6
111	2007	258	215	63.36	87.8	2.477	217.7	25.52	12.58
111	2007	258	230	63.58	88.3	3.013	218.5	27	12.58
111	2007	258	245	63.69	89	2.729	212.5	25.65	12.57
111	2007	258	300	63.68	89.7	1.843	208.8	34.06	12.57
111	2007	258	315	63.76	90.2	1.721	163.9	41.16	12.56
111	2007	258	330	63.48	90.7	1.568	151.8	23.13	12.55
111	2007	258	345	63.2	91.1	1.935	99.7	36.44	12.55
111	2007	258	400	62.82	91.7	1.699	119.1	25.26	12.54
111	2007	258	415	62.57	92.1	1.633	121.6	35.81	12.53
111	2007	258	430	62.39	92.5	1.868	119.2	33.01	12.52
111	2007	258	445	62.32	92.9	1.402	87.4	30.9	12.53
111	2007	258	500	62.23	93	2.079	85.4	31.87	12.55
111	2007	258	515	62.08	93	1.907	96.2	30.33	12.59
111	2007	258	530	61.98	93.1	1.863	73.1	33.8	12.7
111	2007	258	545	61.94	93.2	0.935	42.72	20.78	12.87
111	2007	258	600	61.94	93.2	1.103	30.91	43.24	13.35
111	2007	258	615	61.94	93.4	2.053	137	22.96	13.5
111	2007	258	630	61.87	93.5	2.185	47.76	54.28	13.47

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	258	645	61.75	93.7	2.051	37.8	38.82	13.45
111	2007	258	700	61.77	93.8	2.919	113.9	67.97	13.44
111	2007	258	715	61.73	93.8	1.222	63.82	31.2	13.43
111	2007	258	730	61.81	93.9	1.988	99.8	46.53	13.43
111	2007	258	745	61.92	94	3.648	356.1	23.66	13.42
111	2007	258	800	61.9	94.1	2.367	17.56	28.79	13.42
111	2007	258	815	62	94	2.15	32.31	42.59	13.42
111	2007	258	830	61.96	94.2	0.788	323.1	48.01	13.41
111	2007	258	845	62.13	94.1	1.655	329.3	32.46	13.41
111	2007	258	900	62.35	94.2	1.415	310.4	20.7	13.42
111	2007	258	915	62.45	94.3	1.201	300.7	24.78	13.42
111	2007	258	930	62.47	94.2	2.111	320.4	26.43	13.42
111	2007	258	945	62.76	94.1	1.655	334	26.01	13.42
111	2007	258	1000	62.93	94.1	2.762	346.6	23.14	13.41
111	2007	258	1015	63.02	93.9	4.548	348.8	28.18	13.4
111	2007	258	1030	63.18	93.6	4.738	351.6	18.42	13.4
111	2007	258	1045	62.86	90.5	7.93	22.67	26.11	13.39
111	2007	258	1100	60.05	86.8	8.69	58.58	29.54	13.38
111	2007	258	1115	58.7	84.4	7.27	73.3	27.84	13.37
111	2007	258	1130	58.87	82	5.588	107.7	45.69	13.36
111	2007	258	1145	59.1	83	4.873	63.29	36.51	13.36
111	2007	258	1200	60.04	81.9	6.591	59.82	31.16	13.36
111	2007	258	1215	60.88	77.9	7.5	73.8	29.07	13.35
111	2007	258	1230	61.52	71.9	8.86	62.03	33.01	13.36
111	2007	258	1245	61.78	71.5	7.99	60.47	28.83	13.35
111	2007	258	1300	62.43	68.74	8.34	36.09	22.66	13.36
111	2007	258	1315	62.97	66.56	7.55	54.91	30.21	13.37
111	2007	258	1330	63.44	65.75	8	47.16	24.7	13.37
111	2007	258	1345	64.7	61.57	6.718	57.03	33.96	13.38
111	2007	258	1400	64.3	57.16	8.9	32.16	24.36	13.38
111	2007	258	1415	64.87	53.71	8.15	37.62	23.12	13.37
111	2007	258	1430	65.56	51.71	8.15	35.43	29.37	13.39
111	2007	258	1445	66.15	48.8	8.8	41.04	28.19	13.4
111	2007	258	1500	66.5	46.72	8.59	39.93	27.55	13.4
111	2007	258	1515	66.16	47.06	8.95	20.75	26	13.4
111	2007	258	1530	67.27	43.58	7.91	31.28	31.64	13.14
111	2007	258	1545	67.39	42.14	9.44	25.97	29.58	12.96
111	2007	258	1600	67.64	39.56	8.77	28.23	22.72	12.88
111	2007	258	1615	67.31	41.47	9.22	20.87	25.37	12.85
111	2007	258	1630	67.63	44.44	7.29	16.75	26.75	12.83
111	2007	258	1645	67.57	40.3	7.37	34.18	31.57	12.81
111	2007	258	1700	66.62	42.1	7.7	41.71	28.05	12.8
111	2007	258	1715	66.23	40.73	8.27	41.39	27.92	12.79
111	2007	258	1730	66.22	40.43	8.29	30.03	27.16	12.78
111	2007	258	1745	65.69	42.31	7.61	24.71	31.84	12.77
111	2007	258	1800	65.87	41.57	5.933	35.9	24.51	12.76
111	2007	258	1815	65.07	41.64	6.221	20.5	28.99	12.76
111	2007	258	1830	64.74	43.78	5.947	33.11	20.96	12.75
111	2007	258	1845	64.13	46.02	4.42	37.38	26.74	12.74
111	2007	258	1900	63.29	48.33	3.884	29.44	28.58	12.74
111	2007	258	1915	62.53	49.26	3.843	19.27	22.39	12.74
111	2007	258	1930	62.31	48.17	3.999	33.12	22.32	12.74
111	2007	258	1945	62.31	46.33	5.127	38.65	21.13	12.72
111	2007	258	2000	61.78	48.14	4.667	35.57	22.03	12.72
111	2007	258	2015	60.99	49.15	4.802	32.4	23.87	12.72
111	2007	258	2030	60.64	49.48	4.947	33.22	21.37	12.71
111	2007	258	2045	60.36	50.85	4.363	35.66	22.28	12.71
111	2007	258	2100	59.69	53.83	3.243	34.71	24.86	12.71
111	2007	258	2115	58.56	57.44	2.693	23.07	26.19	12.7
111	2007	258	2130	57.96	56.51	3.878	27.66	24.95	12.7

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	258	2145	57.76	57.28	3.952	17.18	25.61	12.69
111	2007	258	2200	57.47	57.49	3.799	22.66	27.91	12.69
111	2007	258	2215	57.38	57.73	3.559	28.83	23.84	12.69
111	2007	258	2230	57.15	59.5	3.066	26.14	21.85	12.68
111	2007	258	2245	56.29	64.06	2.004	347.4	25.12	12.68
111	2007	258	2300	54.6	68.81	2.159	354.7	16.87	12.68
111	2007	258	2315	54.2	69.95	1.71	359.2	25.43	12.67
111	2007	258	2330	54.08	69.88	1.593	21.2	19.46	12.66
111	2007	258	2345	53.65	72.2	1.548	353.4	31.9	12.66
111	2007	258	2400	52.7	74.9	1.094	20.9	39.42	12.66
111	2007	259	15	52.89	73.8	2.077	21.42	28.31	12.65
111	2007	259	30	52.78	74.9	2.059	12.03	26.97	12.64
111	2007	259	45	52.41	76.3	1.897	12.31	19.69	12.63
111	2007	259	100	51.68	78.6	1.409	355.2	20.61	12.64
111	2007	259	115	51.25	79.5	1.412	359.4	32.09	12.62
111	2007	259	130	51.17	79.6	1.771	17.32	23.36	12.62
111	2007	259	145	51.13	79.2	1.394	3.824	25.39	12.61
111	2007	259	200	50.86	80.8	1.599	16.4	28.2	12.6
111	2007	259	215	50.55	81.6	1.034	14.83	26.26	12.6
111	2007	259	230	50.23	82.5	1.434	12.25	19.21	12.59
111	2007	259	245	49.92	83.3	1.487	23.52	20.09	12.58
111	2007	259	300	50.05	82.6	2.586	29.9	21.89	12.57
111	2007	259	315	50.27	82.1	2.252	34.15	24.55	12.56
111	2007	259	330	50.16	82.7	2.018	14.1	22.8	12.55
111	2007	259	345	49.99	83.1	2.042	19.56	21.9	12.54
111	2007	259	400	49.64	84	2.298	21.44	23.05	12.53
111	2007	259	415	49.6	83.4	2.836	32.48	20.96	12.52
111	2007	259	430	49.8	83	2.268	26.67	24.13	12.53
111	2007	259	445	49.55	84	1.297	17.9	22.54	12.53
111	2007	259	500	48.84	85.6	1.376	348.4	24.94	12.55
111	2007	259	515	48.26	86.9	1.076	1.302	14.05	12.58
111	2007	259	530	47.91	88.1	1.725	8.59	15.28	12.64
111	2007	259	545	47.69	88.6	1.08	352.6	20.99	12.84
111	2007	259	600	47.38	89	0.009	342.9	0.006	13.32
111	2007	259	615	47.15	89.7	0.723	5.142	14.87	13.45
111	2007	259	630	46.84	90.1	0.472	333.7	25.84	13.43
111	2007	259	645	46.49	91	0.918	351.7	10.87	13.42
111	2007	259	700	46.91	91.2	1.199	347.7	22.1	13.4
111	2007	259	715	48.07	89.8	1.224	18.97	22.78	13.4
111	2007	259	730	49.8	85.3	1.736	39.43	28.17	13.39
111	2007	259	745	51.62	79.6	2.099	57.22	27.95	13.38
111	2007	259	800	53.48	74.4	2.973	69.03	33.17	13.28
111	2007	259	815	54.99	70.8	4.025	80.3	36.98	13.38
111	2007	259	830	55.86	68.65	5.09	87.7	31.51	13.38
111	2007	259	845	56.72	65.16	4.97	89.6	33.45	13.37
111	2007	259	900	57.22	62.45	5.016	94	38.52	13.38
111	2007	259	915	58.07	59.86	5.135	94.3	41.45	13.38
111	2007	259	930	58.1	56.04	6.245	100.4	37.52	13.38
111	2007	259	945	58.69	56.71	5.566	94.8	37.18	13.37
111	2007	259	1000	59.38	55.5	4.818	96.7	38.96	13.37
111	2007	259	1015	59.56	55.3	5.745	85.2	32.88	13.36
111	2007	259	1030	59.74	53.09	5.278	89.4	31.82	13.36
111	2007	259	1045	60.29	53.93	5.123	92.6	37.96	13.35
111	2007	259	1100	61	51.08	4.849	89.5	41.66	13.34
111	2007	259	1115	61.14	49.27	4.921	103.5	42.34	13.34
111	2007	259	1130	61.91	49.5	4.399	77.5	37.17	13.34
111	2007	259	1145	60.7	50.1	5.133	76.6	35.28	13.34
111	2007	259	1200	60.11	51.64	4.258	113	41.63	13.34
111	2007	259	1215	60.18	46.93	3.408	59.25	56.03	13.34
111	2007	259	1230	61.6	46.46	4.135	84.5	47.27	13.34

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	259	1245	62.46	43.08	3.853	103.2	55.92	13.34
111	2007	259	1300	62.5	43.58	4.164	124.2	34.57	13.34
111	2007	259	1315	62.83	42.44	3.561	106	61.45	13.34
111	2007	259	1330	63.44	43.28	4.538	104.8	44.85	13.35
111	2007	259	1345	61.98	41.47	3.783	143.5	36.22	13.36
111	2007	259	1400	62.55	43.75	3.481	87.8	50.53	13.36
111	2007	259	1415	61.65	44.52	3.225	4.588	34.76	13.37
111	2007	259	1430	62.49	41.64	3.753	17.31	57.33	13.37
111	2007	259	1445	62.91	39	4.387	31.4	41.55	13.38
111	2007	259	1500	63.07	39.77	3.98	48.08	42.56	13.39
111	2007	259	1515	62.57	41.81	3.696	34.33	45.9	13.39
111	2007	259	1530	62.63	39.87	4.414	42.73	31.98	13.1
111	2007	259	1545	61.98	41.14	3.384	20.11	35.63	12.95
111	2007	259	1600	62.31	40.6	3.755	46.29	43.42	12.87
111	2007	259	1615	62.04	40.87	3.487	16	39.36	12.84
111	2007	259	1630	61.79	44.92	2.987	31.86	36.38	12.81
111	2007	259	1645	61.74	42.68	3.247	17.04	25.09	12.8
111	2007	259	1700	62.27	40.97	3.253	46.43	39.1	12.79
111	2007	259	1715	63.98	38.23	3.86	87.5	47.28	12.78
111	2007	259	1730	64.09	38.43	3.442	81.8	48.14	12.77
111	2007	259	1745	63.89	39.36	3.43	50.51	64.57	12.76
111	2007	259	1800	63.93	39.93	1.669	16.26	58.98	12.76
111	2007	259	1815	64.24	40.47	2.169	103.1	49.75	12.75
111	2007	259	1830	62.88	44.68	2.465	112.2	35.36	12.74
111	2007	259	1845	62.65	45.32	1.698	82.2	29.49	12.74
111	2007	259	1900	61.14	51.91	1.384	74.9	26.04	12.73
111	2007	259	1915	58.83	60.58	1.439	56.25	22.57	12.74
111	2007	259	1930	56.79	66.74	0.686	3.707	20.32	12.73
111	2007	259	1945	54.95	71.5	0.49	338.6	16.15	12.73
111	2007	259	2000	53.91	74.6	0.247	340.4	2.22	12.72
111	2007	259	2015	53.48	76.1	0.156	342.1	2.217	12.71
111	2007	259	2030	52.72	78.8	0.073	21.98	3.905	12.72
111	2007	259	2045	52.47	78.7	0.083	6.256	0.925	12.72
111	2007	259	2100	51.95	80.7	na	na	na	12.71
111	2007	259	2115	51.51	82.1	0.074	16.15	3.478	12.71
111	2007	259	2130	51.27	82.8	0.243	25.49	5.994	12.7
111	2007	259	2145	50.62	84.2	0.627	338.5	4.454	12.7
111	2007	259	2200	50.1	85.2	1.138	348.2	18.22	12.7
111	2007	259	2215	49.73	86	0.652	8.36	11.89	12.68
111	2007	259	2230	49.33	86.4	0.299	351.1	11.49	12.68
111	2007	259	2245	49.01	86.9	0.711	342.7	15.93	12.68
111	2007	259	2300	49.1	87.3	1.176	31.44	19.95	12.68
111	2007	259	2315	49.63	85.9	0.354	28.15	8.57	12.68
111	2007	259	2330	48.94	86.8	na	na	na	12.68
111	2007	259	2345	48.85	87.4	0.221	30.24	10.41	12.66
111	2007	259	2400	48.4	87.9	0.226	343.2	2.938	12.66
111	2007	260	15	48.03	88.4	0.02	345.5	0.244	12.66
111	2007	260	30	47.87	89.2	0.249	83.1	12.53	12.64
111	2007	260	45	47.81	89.1	na	na	na	12.65
111	2007	260	100	47.48	89.5	0.208	48.19	8.11	12.64
111	2007	260	115	47.68	88.4	1.231	40.05	16.92	12.64
111	2007	260	130	47.97	87.1	0.995	36.13	16.08	12.62
111	2007	260	145	47.91	86.9	0.328	27.14	8.53	12.62
111	2007	260	200	47.68	87.2	0.15	46.3	9.86	12.6
111	2007	260	215	47.53	87.6	0.237	37.12	3.594	12.6
111	2007	260	230	47.56	87.6	0.585	38.91	10.5	12.6
111	2007	260	245	47.95	86.7	1.237	54.9	12.5	12.59
111	2007	260	300	48.71	84.9	0.962	57.98	16.51	12.58
111	2007	260	315	49.09	83.7	1.258	59.09	17.53	12.58
111	2007	260	330	49.41	82.8	1.187	52.55	23.3	12.56

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	260	345	49.31	83.7	0.823	49.15	17.9	12.56
111	2007	260	400	49.32	83.1	1.085	55.55	17.03	12.55
111	2007	260	415	49.9	80.9	1.559	64.62	17.23	12.54
111	2007	260	430	50.83	78.2	1.758	71.4	23.93	12.55
111	2007	260	445	51.12	78.4	0.978	75.8	19.2	12.55
111	2007	260	500	50.28	81	0.982	61.09	15	12.58
111	2007	260	515	49.36	83.4	0.73	53.69	13.29	12.6
111	2007	260	530	49.3	83	1.217	52.84	17.05	12.68
111	2007	260	545	49.55	82.8	0.947	43.16	18.27	12.92
111	2007	260	600	49.53	82.8	1.326	41.49	22.94	13.33
111	2007	260	615	49.55	83	0.699	48.83	15.99	13.4
111	2007	260	630	49.24	83.5	1.141	46.63	15.48	13.39
111	2007	260	645	49.65	82.8	1.515	48.63	27.51	13.37
111	2007	260	700	49.85	83.4	1.319	45.07	18.93	13.36
111	2007	260	715	50.68	81.5	1.625	48.7	24.81	13.35
111	2007	260	730	52.72	77.6	2.308	65.32	23	13.34
111	2007	260	745	54.5	75.7	2.242	87	35.5	13.29
111	2007	260	800	55.48	74.3	2.687	95.9	31.56	13.24
111	2007	260	815	56.56	73.6	2.995	95.5	30.62	13.32
111	2007	260	830	57.69	70.7	3.672	100.5	34.35	13.32
111	2007	260	845	58.18	72.7	3.666	104.2	35.45	13.31
111	2007	260	900	58.62	70.5	3.575	114.3	23.3	13.32
111	2007	260	915	59.49	69.13	4.925	123	36.2	13.32
111	2007	260	930	60.08	69.99	4.955	124.7	31.9	13.32
111	2007	260	945	61.18	66.85	6.033	132.2	28.11	13.31
111	2007	260	1000	61.96	61.89	5.777	132.4	30.07	13.32
111	2007	260	1015	62.38	59.75	7.33	150.7	23.95	13.31
111	2007	260	1030	62.69	54.96	6.888	150.6	27.69	13.3
111	2007	260	1045	62.91	54.58	6.172	152.2	23.23	13.3
111	2007	260	1100	63.34	52.94	5.985	168	30.96	13.3
111	2007	260	1115	63.47	58.76	5.35	135.5	30.98	13.3
111	2007	260	1130	62.9	59.06	5.739	133.5	33.67	13.29
111	2007	260	1145	62.51	58.19	5.52	133.5	30.13	13.29
111	2007	260	1200	62.52	56.86	4.921	117.3	35.06	13.3
111	2007	260	1215	62.62	55.99	4.698	111.4	31.02	13.31
111	2007	260	1230	62.68	56.62	3.7	120.1	33.21	13.32
111	2007	260	1245	63.24	54.62	3.819	135.7	34.52	13.32
111	2007	260	1300	64.13	52.21	3.771	124.6	34.96	13.32
111	2007	260	1315	63.68	50.47	4.923	132.5	29.74	13.32
111	2007	260	1330	63.5	49.06	5.788	156.2	23.32	13.32
111	2007	260	1345	64.92	47.56	3.652	143	38.35	13.33
111	2007	260	1400	66.25	50.64	6.043	174	38.05	13.33
111	2007	260	1415	64.01	52.44	6.612	198.8	20.57	13.34
111	2007	260	1430	63.81	51.7	7.1	198.4	22.02	13.24
111	2007	260	1445	63.95	51.37	7.9	206.7	19.06	13.1
111	2007	260	1500	64.53	52.64	7.12	200.7	26.19	12.95
111	2007	260	1515	64.47	51.94	6.4	210.4	32.48	12.88
111	2007	260	1530	64.55	50.33	5.959	212.5	35.28	12.87
111	2007	260	1545	64.17	51	7.45	205.3	24.41	12.83
111	2007	260	1600	63.88	53.07	7.58	202.4	19.87	12.81
111	2007	260	1615	64.02	50.87	6.605	211.1	23.47	12.81
111	2007	260	1630	64.08	51.14	6.066	217.9	24.01	12.8
111	2007	260	1645	64.27	52.21	6.108	208.8	33.28	12.79
111	2007	260	1700	64.63	53.38	4.968	205.9	36.14	12.78
111	2007	260	1715	64.34	52.21	5.699	211.6	28.62	12.78
111	2007	260	1730	64.8	52.01	3.847	186.8	52.36	12.77
111	2007	260	1745	64.17	55.35	5.153	191.3	23.98	12.77
111	2007	260	1800	63.58	55.38	5.387	200.3	23.44	12.77
111	2007	260	1815	63.55	55.18	3.918	189.7	33.15	12.77
111	2007	260	1830	62.71	56.32	5.362	182.5	21.68	12.76

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	260	1845	62.01	58.29	4.422	180.4	21.15	12.76
111	2007	260	1900	60.97	61.27	4.273	179.8	19.83	12.75
111	2007	260	1915	60.25	62.89	4.125	176.3	22.92	12.75
111	2007	260	1930	59.69	64.3	3.4	179.8	21.73	12.74
111	2007	260	1945	59.29	65.74	1.897	170.3	26.73	12.75
111	2007	260	2000	58.95	67.08	1.96	157	29.86	12.73
111	2007	260	2015	58.58	67.68	2.478	151.6	24.88	12.73
111	2007	260	2030	57.77	71.4	1.655	71.6	25.37	12.73
111	2007	260	2045	56.64	72.8	1.441	87.2	26.26	12.72
111	2007	260	2100	56.14	73.7	1.107	101.6	31.25	12.72
111	2007	260	2115	55.59	76.1	1.294	59.28	31.45	12.71
111	2007	260	2130	55.1	77.3	1.698	68.53	22.12	12.71
111	2007	260	2145	54.46	78	1.439	75.2	21.24	12.71
111	2007	260	2200	53.88	80.4	0.559	48.4	9.85	12.69
111	2007	260	2215	52.88	82.4	1.057	73.4	17.52	12.69
111	2007	260	2230	53.2	80.6	1.285	84.1	23.63	12.68
111	2007	260	2245	53.35	78.7	1.755	108.2	23.71	12.68
111	2007	260	2300	53.84	75.5	2.618	127.8	21.85	12.68
111	2007	260	2315	54.24	75.1	2.641	127.5	19.66	12.67
111	2007	260	2330	54.02	76.2	1.674	111.6	27.09	12.66
111	2007	260	2345	53.98	76.6	1.208	101.5	23.86	12.66
111	2007	260	2400	54.2	76.5	1.511	106.5	23.99	12.66
111	2007	261	15	54.68	75.2	2.502	119.9	25.71	12.64
111	2007	261	30	55.06	74.9	2.316	108.4	26.73	12.64
111	2007	261	45	55.5	73.6	2.492	129.6	22.17	12.63
111	2007	261	100	55.76	72.6	3.223	145	26.4	12.62
111	2007	261	115	55.94	71.7	3.97	165.2	18.46	12.61
111	2007	261	130	55.74	72.8	2.299	129.8	36.32	12.6
111	2007	261	145	54.5	76	0.768	104.8	20.17	12.59
111	2007	261	200	53.19	79.1	0.603	67.12	16.1	12.59
111	2007	261	215	51.95	82.7	0.134	356.2	1.101	12.58
111	2007	261	230	50.69	85.4	0.15	16.52	2.23	12.58
111	2007	261	245	49.91	86.8	0.047	3.084	0.523	12.56
111	2007	261	300	49.26	87.7	0	0	0	12.56
111	2007	261	315	48.67	88.9	0.029	27.69	1.178	12.56
111	2007	261	330	48.53	89.5	0	0	0	12.55
111	2007	261	345	48.25	89.7	0	0	0	12.55
111	2007	261	400	47.9	89.9	0.123	29.47	3.647	12.54
111	2007	261	415	47.57	90.4	0.138	7.24	1.569	12.54
111	2007	261	430	47.52	90.2	0.185	15.33	4.446	12.55
111	2007	261	445	46.96	90.5	0.322	44.06	6.992	12.59
111	2007	261	500	46.52	90.6	0	0	0	12.63
111	2007	261	515	46.31	91.4	0.387	60.72	12.54	12.72
111	2007	261	530	47.39	90.8	1.208	79	23.18	12.9
111	2007	261	545	47.84	90.3	1.071	104.8	22.77	13.13
111	2007	261	600	48.14	89.2	1.706	105.6	27.11	13.42
111	2007	261	615	48.37	88.1	2.151	107.9	28.38	13.39
111	2007	261	630	48.74	86.9	2.623	118.1	20.39	13.37
111	2007	261	645	49.29	84.7	3.247	128.4	25.45	13.36
111	2007	261	700	49.98	82.1	3.688	129.4	26.43	13.34
111	2007	261	715	51.14	79	3.011	121.3	23.01	13.34
111	2007	261	730	52.37	76.4	2.393	119.4	30.27	13.33
111	2007	261	745	53.55	73.5	2.427	110.7	32.41	13.32
111	2007	261	800	54.39	70.7	2.905	115.5	29.97	13.32
111	2007	261	815	55.37	68.31	3.59	108.3	36.59	13.32
111	2007	261	830	56.48	64.06	3.789	112.5	31.73	13.31
111	2007	261	845	57.46	62.18	4.829	133.6	29.68	13.31
111	2007	261	900	58.09	61.11	5.505	130.2	28.68	13.31
111	2007	261	915	58.51	61.03	6.245	130	30.28	13.32
111	2007	261	930	59	60.96	6.869	134	22.48	13.31

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	261	945	60.08	56.78	5.489	134	32.92	13.3
111	2007	261	1000	61.06	56.27	5.507	130.9	32.41	13.3
111	2007	261	1015	61.77	53.76	5.31	121.9	28.16	13.3
111	2007	261	1030	62.15	54.53	6.632	102.6	30.39	13.29
111	2007	261	1045	62.24	52.31	6.418	124.7	31.57	13.28
111	2007	261	1100	62.25	54.25	7.05	130.3	35.57	13.28
111	2007	261	1115	62.83	54.25	7.01	145.5	27.71	13.28
111	2007	261	1130	63	52.74	5.705	127.4	42.1	13.27
111	2007	261	1145	63.33	53.01	6.245	127.4	30.8	13.27
111	2007	261	1200	64.26	51.64	5.977	105.1	32.95	13.28
111	2007	261	1215	64.46	49.53	5.173	112.3	38.09	13.27
111	2007	261	1230	64.87	51.1	6.356	133.4	27.7	13.27
111	2007	261	1245	65.17	46.82	6.059	124.4	40	13.27
111	2007	261	1300	64.96	49.93	6.728	139.2	33.19	13.28
111	2007	261	1315	65.46	49.6	5.902	122.3	33.47	13.28
111	2007	261	1330	65.65	47.59	5.512	100.8	45.51	13.28
111	2007	261	1345	65.37	49.67	6.902	156.9	27.21	13.28
111	2007	261	1400	65.25	48.39	5.514	141.6	43.72	13.29
111	2007	261	1415	65.74	46.82	4.418	112.4	38.87	13.29
111	2007	261	1430	66.23	44.84	4.536	110.8	50.24	13.3
111	2007	261	1445	66.95	45.97	4.115	112.8	47.01	13.3
111	2007	261	1500	66.86	42.93	4.917	113.3	45.16	13.32
111	2007	261	1515	66.69	46.07	5.544	123	37.71	13.21
111	2007	261	1530	66.93	44.3	4.889	97.9	38.83	12.99
111	2007	261	1545	67.08	57.34	4.52	147.2	50.16	12.9
111	2007	261	1600	65.39	62.12	5.489	227.2	33.41	12.85
111	2007	261	1615	64.4	62.25	6.938	201	19.07	12.83
111	2007	261	1630	64.27	63.09	6.648	205.8	24.54	12.81
111	2007	261	1645	64.14	62.93	6.94	212.3	27.94	12.8
111	2007	261	1700	64.4	61.97	6.418	193.5	24.7	12.79
111	2007	261	1715	64.52	61.27	5.84	208.9	23.98	12.79
111	2007	261	1730	64.11	61.57	6.325	199.1	24.08	12.77
111	2007	261	1745	64.22	60.23	4.939	194.2	27.6	12.77
111	2007	261	1800	64.52	57.56	4.847	181.7	25.78	12.76
111	2007	261	1815	64.04	60	4.059	194.1	27.4	12.75
111	2007	261	1830	63.68	62.01	3.243	183.8	29.18	12.75
111	2007	261	1845	63.14	63.21	3.124	181	25.79	12.75
111	2007	261	1900	62.13	65.89	2.846	192	20.8	12.74
111	2007	261	1915	61.56	67.6	2.449	188.3	28.54	12.73
111	2007	261	1930	61.16	68.91	2.155	182.8	26.6	12.73
111	2007	261	1945	60.68	70.4	1.717	180.2	33.56	12.73
111	2007	261	2000	60.21	71.4	2.133	181.3	24.95	12.72
111	2007	261	2015	59.94	72.5	1.239	167.1	42.26	12.72
111	2007	261	2030	59.44	76.1	1.315	43.84	81.3	12.72
111	2007	261	2045	57.47	80.2	0.511	27.47	12.85	12.71
111	2007	261	2100	56.62	82.3	0.397	4.108	9.88	12.71
111	2007	261	2115	56.04	83.9	0.14	21.66	3.776	12.71
111	2007	261	2130	55.4	85.3	0.23	348.2	8.96	12.7
111	2007	261	2145	55.25	85.4	1.171	30.13	13.57	12.7
111	2007	261	2200	55.01	86	0.362	24.56	6.679	12.7
111	2007	261	2215	54.5	86.9	0.009	35.08	0	12.68
111	2007	261	2230	54.14	87.4	0.19	36.2	2.149	12.69
111	2007	261	2245	53.86	87.9	na	na	na	12.68
111	2007	261	2300	53.59	88.4	0.238	47.41	4.795	12.68
111	2007	261	2315	53.55	88.4	0.958	50.73	15.12	12.68
111	2007	261	2330	53.79	87.6	1.233	74.9	24.4	12.67
111	2007	261	2345	53.97	86.5	1.13	95.2	25.48	12.68
111	2007	261	2400	54.31	84	2.097	122.5	24.24	12.67
111	2007	262	15	54.55	83.1	1.724	115.3	27.22	12.67
111	2007	262	30	54.17	83.3	1.204	100.7	25.98	12.66

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	262	45	53.79	83.9	0.997	73.3	21.29	12.66
111	2007	262	100	53.41	84.5	0.463	88.8	14.81	12.66
111	2007	262	115	53.11	85.1	0.613	99.8	26.67	12.64
111	2007	262	130	52.41	86.2	0.4	54.09	8.78	12.64
111	2007	262	145	51.75	87.8	0.056	354.7	0.106	12.63
111	2007	262	200	51.3	88.7	na	na	na	12.63
111	2007	262	215	50.88	89.4	na	na	na	12.63
111	2007	262	230	50.33	90	na	na	na	12.62
111	2007	262	245	50.36	90.5	0.063	21.53	2.585	12.61
111	2007	262	300	50.19	90.7	0.05	51	0.294	12.6
111	2007	262	315	50.15	91.5	1.005	82.6	29.36	12.6
111	2007	262	330	51.17	89.5	2.052	118.5	34.34	12.59
111	2007	262	345	51.63	88.2	1.315	127.2	23.6	12.58
111	2007	262	400	51.75	87.1	1.19	119.1	32.15	12.58
111	2007	262	415	51.32	87.1	0.887	94.8	24.19	12.57
111	2007	262	430	50.92	87.5	1.095	93.2	26.36	12.59
111	2007	262	445	50.56	88	0.281	106.2	16.13	12.6
111	2007	262	500	50.34	88	0.8	78.5	15.55	12.66
111	2007	262	515	49.79	89	0.166	49.89	6.677	12.74
111	2007	262	530	49.43	89.8	0.96	75.8	17.25	12.96
111	2007	262	545	49.66	89.8	1.859	75.8	20.53	13.12
111	2007	262	600	49.96	89	0.848	50.54	16.48	13.22
111	2007	262	615	49.69	88.8	0.41	34.73	12.49	13.33
111	2007	262	630	48.96	90.1	0.68	17.83	22.95	13.29
111	2007	262	645	48.89	90	0.799	294.2	40.62	13.36
111	2007	262	700	48.71	90.8	0.761	334.3	18.49	13.34
111	2007	262	715	49.91	90.5	1.424	36.9	21.52	13.28
111	2007	262	730	52.17	87	1.744	71.1	33.42	13.2
111	2007	262	745	54.08	82.8	1.813	71.2	28.99	13.34
111	2007	262	800	55.85	78	2.056	81.2	33.02	13.33
111	2007	262	815	57.35	74.7	2.211	105.1	35.97	13.32
111	2007	262	830	58.19	73.5	3.217	114.4	31.74	13.32
111	2007	262	845	59.19	71.9	3.056	113.8	38.32	13.31
111	2007	262	900	59.75	70.5	3.771	120.2	41.89	13.31
111	2007	262	915	61.31	69.29	3.567	112.9	31.63	13.31
111	2007	262	930	61.98	68.05	4.373	106.5	41.83	13.31
111	2007	262	945	62.55	67.04	4.913	82.5	32.52	13.3
111	2007	262	1000	62.67	65.76	5.898	79.9	30.15	13.3
111	2007	262	1015	63.62	62.21	4.937	99.3	37.85	13.3
111	2007	262	1030	63.93	62.41	5.046	80	35.59	13.25
111	2007	262	1045	64.75	58.7	4.851	88.4	42.51	13.12
111	2007	262	1100	65.35	58.23	5.205	94.5	38.74	13.03
111	2007	262	1115	65.44	57.93	4.835	75.7	44.99	13.01
111	2007	262	1130	66.24	56.09	4.518	80.1	39.67	13.12
111	2007	262	1145	66.76	52.61	4.202	84.3	42.23	13.05
111	2007	262	1200	66.97	53.65	3.857	65	37.34	13.14
111	2007	262	1215	67.6	49.56	3.493	84.1	43.74	13.35
111	2007	262	1230	68.08	51.13	3.422	52.52	60.68	13.36
111	2007	262	1245	68.87	48.75	3.998	75	36.16	13.35
111	2007	262	1300	69.15	47.41	3.259	70.6	69.66	13.34
111	2007	262	1315	69.56	49.88	3.503	231.7	63.97	13.33
111	2007	262	1330	68.51	49.85	4.603	256.1	45.28	13.32
111	2007	262	1345	67.51	49.92	5.141	237.1	28.79	13.33
111	2007	262	1400	67.68	49.45	5.076	244.7	25.61	13.3
111	2007	262	1415	67.95	45.9	4.224	233.2	31.47	13.05
111	2007	262	1430	67.36	52.49	5.375	232.4	33.29	12.93
111	2007	262	1445	66.86	55.83	4.998	229.8	29.94	12.89
111	2007	262	1500	66.83	57.57	4.917	224.7	35.24	12.87
111	2007	262	1515	66.42	52.72	4.661	222	30.46	12.85
111	2007	262	1530	66.38	57.54	4.589	223.4	31.13	12.84

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	262	1545	66.79	57.91	4.156	221.7	36.46	12.83
111	2007	262	1600	66.77	58.78	4.909	237.6	37.96	12.82
111	2007	262	1615	66.33	61.92	4.814	223.9	27.73	12.81
111	2007	262	1630	65.99	62.99	4.853	238.9	37.8	12.81
111	2007	262	1645	65.67	63.96	4.951	234.3	30.3	12.81
111	2007	262	1700	65.45	64.99	4.551	220.7	32.87	12.8
111	2007	262	1715	65.72	65.43	3.634	258.4	39.62	12.79
111	2007	262	1730	65.23	65.63	4.063	225.3	38.12	12.79
111	2007	262	1745	65.1	68.04	3.658	237.8	37.84	12.79
111	2007	262	1800	64.73	67.24	3.406	261.6	32.25	12.79
111	2007	262	1815	64.49	68.42	3.402	271.4	32.72	12.78
111	2007	262	1830	64.33	68.69	2.55	277	36.32	12.77
111	2007	262	1845	63.56	71.4	2.24	261.8	25.64	12.77
111	2007	262	1900	62.27	73.8	1.173	289	26.81	12.77
111	2007	262	1915	61.57	75.5	1.037	305	14.74	12.76
111	2007	262	1930	60.92	77.5	0.478	296.7	4.656	12.76
111	2007	262	1945	60.26	79.2	0.361	327.3	4.708	12.76
111	2007	262	2000	59.54	81.2	0.288	312.5	4.656	12.75
111	2007	262	2015	59.01	82.8	0.681	335.6	8.95	12.75
111	2007	262	2030	58.37	84	0.363	319.1	5.589	12.74
111	2007	262	2045	57.92	85.7	0.089	342.9	4.94	12.73
111	2007	262	2100	57.74	86.3	0.076	315.6	1.659	12.73
111	2007	262	2115	57.28	87	0.63	330	3.948	12.73
111	2007	262	2130	56.86	88	0.201	344	3.84	12.72
111	2007	262	2145	56.48	88.8	0.677	323.6	11.17	12.72
111	2007	262	2200	56.17	89.2	na	na	na	12.71
111	2007	262	2215	55.99	89.9	na	na	na	12.71
111	2007	262	2230	55.91	90.2	na	na	na	12.7
111	2007	262	2245	55.72	90.6	na	na	na	12.69
111	2007	262	2300	55.64	90.7	0.732	320.1	9.02	12.69
111	2007	262	2315	55.3	91.1	0.009	295.7	0.004	12.68
111	2007	262	2330	55.3	91.6	na	na	na	12.67
111	2007	262	2345	55.45	91.7	0.186	24.68	2.719	12.67
111	2007	262	2400	55.52	91.6	0.341	43.48	3.101	12.66
111	2007	263	15	55.34	91.7	na	na	na	12.66
111	2007	263	30	54.86	91.8	na	na	na	12.65
111	2007	263	45	54.59	92.2	na	na	na	12.65
111	2007	263	100	54.4	92.3	na	na	na	12.63
111	2007	263	115	54.23	92.6	na	na	na	12.64
111	2007	263	130	54.15	92.5	na	na	na	12.63
111	2007	263	145	54.15	92.9	0.217	35.18	4.339	12.62
111	2007	263	200	54.25	92.8	na	na	na	12.63
111	2007	263	215	54.15	93	0.438	31.42	5.732	12.61
111	2007	263	230	54.22	92.9	na	na	na	12.61
111	2007	263	245	53.95	93.1	na	na	na	12.6
111	2007	263	300	53.94	93.3	0.658	18.36	12.22	12.6
111	2007	263	315	53.91	93.2	0.124	77.4	7.59	12.6
111	2007	263	330	53.56	93.4	na	na	na	12.59
111	2007	263	345	53.4	93.3	0.07	51.73	0.864	12.59
111	2007	263	400	53.07	93.5	na	na	na	12.58
111	2007	263	415	52.93	93.4	na	na	na	12.58
111	2007	263	430	52.79	93.4	na	na	na	12.58
111	2007	263	445	52.52	93.4	0.665	332	8.36	12.58
111	2007	263	500	52.13	93.8	0.173	338.2	20.48	12.59
111	2007	263	515	52.38	93.5	0.372	52.85	5.257	12.61
111	2007	263	530	52.25	93.6	na	na	na	12.66
111	2007	263	545	52.16	93.8	0.404	27.18	8.77	12.96
111	2007	263	600	52.07	93.9	0.433	328.9	23.97	13.37
111	2007	263	615	52.31	93.5	0.591	29.38	9.25	13.36
111	2007	263	630	52.02	93.6	na	na	na	13.35

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	263	645	51.92	93.7	0.197	346.7	13.43	13.34
111	2007	263	700	52.14	94.1	0.332	11.52	8.08	13.34
111	2007	263	715	52.93	94.3	0.262	329.8	10.57	13.33
111	2007	263	730	54.48	93.7	0.469	12.86	9.41	13.32
111	2007	263	745	56.44	92.6	0.817	338.9	15.24	13.18
111	2007	263	800	58.81	89.1	0.458	325.9	12.59	13.32
111	2007	263	815	60.73	78.7	1.527	334.3	16.12	13.32
111	2007	263	830	62.02	66.92	2.963	326.5	19.32	13.32
111	2007	263	845	63.26	64.77	3.704	339.4	28.16	13.32
111	2007	263	900	64.56	67.01	3.658	337.5	16.55	13.32
111	2007	263	915	65.69	64.13	4.653	327.5	22.61	13.33
111	2007	263	930	67	58.87	5.014	320	18.63	13.33
111	2007	263	945	67.65	57.49	5.51	338.1	25.82	13.32
111	2007	263	1000	69.3	54.05	3.712	322.3	34.44	13.32
111	2007	263	1015	70.4	54.21	3.527	313.4	35.28	13.32
111	2007	263	1030	70.9	52.93	4.047	338.6	27.01	13.31
111	2007	263	1045	71.1	53.09	4.172	348.9	34.18	13.3
111	2007	263	1100	72.1	49.75	3.648	316.9	46.16	13.3
111	2007	263	1115	72.8	48.81	3.797	320.7	33.37	13.29
111	2007	263	1130	73.4	52.52	4.123	269.4	34.87	13.29
111	2007	263	1145	73.3	54.66	4.839	308.4	33.41	13.28
111	2007	263	1200	73.2	54.06	4.021	302	43.79	13.28
111	2007	263	1215	74.3	55.8	4.053	285.1	39.74	13.28
111	2007	263	1230	74.1	57.1	4.911	310.9	33	13.27
111	2007	263	1245	74.2	59.48	5.286	312.2	28.98	13.28
111	2007	263	1300	74.6	57.34	4.742	306.3	34.19	13.28
111	2007	263	1315	74.1	58.17	5.642	293.6	31.85	13.28
111	2007	263	1330	74.3	60.35	5.379	284.8	40.46	13.28
111	2007	263	1345	74.6	60.14	5.024	292.6	41.52	13.28
111	2007	263	1400	73.3	61.84	6.523	311.2	30.98	13.28
111	2007	263	1415	73.4	60.07	5.939	307.6	28.5	13.29
111	2007	263	1430	73.5	59.37	5.957	300.9	30.85	13.29
111	2007	263	1445	73.1	61.1	6.207	316	23.4	13.29
111	2007	263	1500	72.4	63.29	6.251	310.8	29.83	13.3
111	2007	263	1515	71.5	63.35	6.207	303.9	24.73	13.3
111	2007	263	1530	71.9	61.92	5.171	300.3	33.59	13.03
111	2007	263	1545	72	62.35	5.056	302.4	30.01	12.92
111	2007	263	1600	71.5	65.36	5.57	306.1	25.02	12.88
111	2007	263	1615	71.2	64.73	5.26	306.5	34.86	12.84
111	2007	263	1630	71.5	65.96	4.436	316.9	28.56	12.83
111	2007	263	1645	71.1	66.17	4.331	304.6	33.9	12.81
111	2007	263	1700	71.1	68.07	4.48	303.7	32.42	12.8
111	2007	263	1715	70.3	70.3	4.226	299.5	25.39	12.79
111	2007	263	1730	69.28	74	3.966	307.9	26.76	12.78
111	2007	263	1745	68.72	75.1	3.064	300	31.74	12.77
111	2007	263	1800	68.38	76.7	3.487	298	27.22	12.77
111	2007	263	1815	68.13	78.2	3.031	290	31.45	12.76
111	2007	263	1830	67.67	80.3	2.179	300.5	29.96	12.76
111	2007	263	1845	67.52	81	2.018	303.9	22.39	12.75
111	2007	263	1900	66.99	83.1	2.135	306.1	26.3	12.74
111	2007	263	1915	66.64	84	2.427	307.2	23.29	12.73
111	2007	263	1930	66.39	84.3	2.741	317.3	20.94	12.73
111	2007	263	1945	66.2	84.9	1.462	307.7	20.99	12.72
111	2007	263	2000	66.04	85.5	2.294	311.5	21.08	12.71
111	2007	263	2015	66.16	85.6	2.306	314.4	22.42	12.71
111	2007	263	2030	66.06	86	1.952	317.9	16.86	12.71
111	2007	263	2045	65.82	86.9	1.839	306.1	20.61	12.7
111	2007	263	2100	65.82	87.2	2.294	313.7	23.98	12.69
111	2007	263	2115	65.78	87.6	1.907	313.7	17	12.69
111	2007	263	2130	65.85	87.2	3.199	319.4	16.04	12.69

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	263	2145	65.87	86.9	2.447	319.4	18.16	12.69
111	2007	263	2200	65.53	87.2	1.857	309.7	20.99	12.68
111	2007	263	2215	65.33	87.3	1.899	316	16.96	12.69
111	2007	263	2230	64.93	87.8	1.286	311.7	18.73	12.68
111	2007	263	2245	64.58	87.7	0.442	309.9	4.628	12.68
111	2007	263	2300	64.01	88.4	0.056	277.8	2.043	12.68
111	2007	263	2315	63.26	89.3	na	na	na	12.68
111	2007	263	2330	62.66	90.2	0.423	47.93	5.657	12.66
111	2007	263	2345	62.33	90.5	na	na	na	12.66
111	2007	263	2400	61.79	90.9	0.018	318.6	0.041	12.66
111	2007	264	15	61.31	91.4	na	na	na	12.66
111	2007	264	30	60.92	91.6	na	na	na	12.65
111	2007	264	45	60.52	92.2	na	na	na	12.65
111	2007	264	100	60.32	92.2	na	na	na	12.65
111	2007	264	115	60.1	92.4	na	na	na	12.64
111	2007	264	130	59.88	92.6	na	na	na	12.64
111	2007	264	145	59.44	92.8	na	na	na	12.64
111	2007	264	200	59.28	93	0.303	41.31	4.343	12.63
111	2007	264	215	58.99	93	na	na	na	12.62
111	2007	264	230	58.6	93.1	na	na	na	12.61
111	2007	264	245	58.15	93.5	0.29	299.1	7.32	12.6
111	2007	264	300	57.83	93.5	na	na	na	12.6
111	2007	264	315	57.65	93.4	na	na	na	12.59
111	2007	264	330	57.35	93.5	0.027	43.75	0.547	12.57
111	2007	264	345	57.11	93.6	na	na	na	12.56
111	2007	264	400	56.89	93.9	na	na	na	12.55
111	2007	264	415	56.82	94	na	na	na	12.55
111	2007	264	430	56.49	93.9	na	na	na	12.54
111	2007	264	445	56.28	94	0.241	55.91	4.927	12.55
111	2007	264	500	56.26	93.9	0.349	30.66	33.62	12.55
111	2007	264	515	55.84	94	0.133	334.6	1.205	12.59
111	2007	264	530	55.72	94.3	0.444	36.55	9.8	12.64
111	2007	264	545	55.76	94.2	0.094	47.25	3.653	12.95
111	2007	264	600	55.53	94	0.062	348.1	0.851	13.39
111	2007	264	615	55.65	94.2	0.689	69.84	14.69	13.39
111	2007	264	630	55.56	94.2	0.131	31.56	18.47	13.38
111	2007	264	645	55.4	94	0.018	3.084	0.143	13.36
111	2007	264	700	55.12	94.5	0.433	296.2	11.69	13.35
111	2007	264	715	55.64	94.6	0.702	331	40.47	13.34
111	2007	264	730	57	94.4	0.86	15.71	30.03	13.33
111	2007	264	745	58.18	94.2	0.24	11.99	16.01	13.18
111	2007	264	800	60.1	93.5	1.072	81.4	28.7	13.32
111	2007	264	815	62.48	92.4	1.497	164.6	54.64	13.32
111	2007	264	830	64.52	89.4	1.511	163.6	60.99	13.32
111	2007	264	845	66.04	85	1.231	139.6	55.29	13.32
111	2007	264	900	66.85	81	3.251	134	26.37	13.32
111	2007	264	915	68.16	77.2	2.886	157.4	39.27	13.32
111	2007	264	930	69.1	76	2.83	188.8	33.11	13.33
111	2007	264	945	69.23	76.9	3.547	204	26.52	13.32
111	2007	264	1000	69.55	77	3.235	217.2	45.24	13.32
111	2007	264	1015	70.3	74.6	2.592	210.1	58.57	13.32
111	2007	264	1030	70.6	73.9	3.519	256.1	32.17	13.31
111	2007	264	1045	71	71	3.404	200.2	41.16	13.3
111	2007	264	1100	72	66.8	2.725	178.9	36.32	13.3
111	2007	264	1115	72.5	66.33	2.453	229.4	56.7	13.3
111	2007	264	1130	74	60.95	2.625	265.9	55.89	13.3
111	2007	264	1145	73.5	61.32	3.666	249.1	38.78	13.29
111	2007	264	1200	73.6	62.82	4.27	220.6	38.7	13.29
111	2007	264	1215	73.5	67.5	4.009	253.3	42.38	13.3
111	2007	264	1230	73.8	64.02	3.952	299.5	43.38	13.3

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	264	1245	74.8	60.55	3.59	275.7	38.81	13.3
111	2007	264	1300	75.7	58.84	3.99	291.6	47.56	13.3
111	2007	264	1315	75.8	58.03	4.256	290	38.68	13.3
111	2007	264	1330	76.1	55.76	3.733	288.8	33.27	13.31
111	2007	264	1345	76.2	59.23	4.234	294.6	36.68	13.3
111	2007	264	1400	75.8	60.83	4.18	279.1	35.46	13.32
111	2007	264	1415	75.1	62.6	4.121	259.7	40.7	13.32
111	2007	264	1430	75.1	64.61	4.264	264.4	36.35	13.33
111	2007	264	1445	75.1	60.23	4.234	274.9	42.77	13.34
111	2007	264	1500	75	61.13	4.448	291.5	39.08	13.35
111	2007	264	1515	74.9	59.36	5.34	294	30.08	13.36
111	2007	264	1530	75.6	57.05	3.906	298.6	45.43	13.01
111	2007	264	1545	75.5	60.29	4.54	283.8	39.25	12.91
111	2007	264	1600	75	62.73	3.902	263.2	40.34	12.86
111	2007	264	1615	74.3	61.86	4.508	238	33.4	12.84
111	2007	264	1630	74.1	59.43	4.367	260.8	33.38	12.81
111	2007	264	1645	74.4	59.69	4.297	299.8	26.77	12.8
111	2007	264	1700	74.4	59.59	3.938	281.4	37.1	12.79
111	2007	264	1715	74.2	61.6	3.434	287.8	32.51	12.77
111	2007	264	1730	73.7	64.71	3.358	268.1	44.59	12.77
111	2007	264	1745	72.8	68.76	3.263	279	36.01	12.76
111	2007	264	1800	72.1	70	3.16	284.9	30.84	12.76
111	2007	264	1815	71.6	71.1	2.79	286.5	36.39	12.75
111	2007	264	1830	70.9	74.5	3.126	274.6	26.35	12.75
111	2007	264	1845	69.7	77.4	2.56	282.6	33.09	12.74
111	2007	264	1900	68.6	80.3	1.997	290	27.88	12.73
111	2007	264	1915	67.88	82.6	1.327	268.3	30.09	12.73
111	2007	264	1930	67.43	83.9	1.47	263.5	28.89	12.72
111	2007	264	1945	66.93	84.8	0.82	304	12.11	12.72
111	2007	264	2000	66.37	85.9	na	na	na	12.72
111	2007	264	2015	65.57	87.2	0.536	321.2	7.85	12.72
111	2007	264	2030	64.98	88.3	na	na	na	12.71
111	2007	264	2045	64.5	88.8	na	na	na	12.71
111	2007	264	2100	63.96	89.6	0.174	313.4	0.506	12.72
111	2007	264	2115	63.59	90.2	0.009	299.4	0.003	12.72
111	2007	264	2130	63.11	90.8	na	na	na	12.72
111	2007	264	2145	62.7	91	0.029	325.7	0.16	12.71
111	2007	264	2200	62.43	91.5	0.677	349.4	21.96	12.71
111	2007	264	2215	62.41	91.6	0.08	51	8.2	12.71
111	2007	264	2230	62.06	92	0.018	336.4	0.187	12.71
111	2007	264	2245	61.65	92.2	0.666	322.9	7.86	12.7
111	2007	264	2300	61.29	92.5	na	na	na	12.69
111	2007	264	2315	61.18	92.5	0.522	295.4	19.66	12.69
111	2007	264	2330	60.89	93.1	0.117	348.5	4.627	12.68
111	2007	264	2345	60.73	93.2	0.1	293.5	7.47	12.68
111	2007	264	2400	61.15	93	na	na	na	12.67
111	2007	265	15	61.54	93.3	na	na	na	12.67
111	2007	265	30	61.18	93.2	na	na	na	12.66
111	2007	265	45	60.75	93.4	na	na	na	12.66
111	2007	265	100	60.42	93.4	na	na	na	12.65
111	2007	265	115	60.16	93.6	na	na	na	12.65
111	2007	265	130	60.44	93.3	0.483	69.16	8.59	12.64
111	2007	265	145	60.02	93.7	0.009	12.72	0.004	12.64
111	2007	265	200	59.67	93.8	na	na	na	12.64
111	2007	265	215	59.35	94	0.045	44.48	1.424	12.63
111	2007	265	230	60	94.1	0.319	46.95	7.86	12.62
111	2007	265	245	60.91	95	0.684	271.9	49.82	12.62
111	2007	265	300	62.95	93.9	1.122	317.9	29.43	12.61
111	2007	265	315	62.43	94	0.325	59.08	16.37	12.6
111	2007	265	330	62.09	93.8	na	na	na	12.59

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	265	345	61.11	93.6	na	na	na	12.59
111	2007	265	400	60.39	93.8	0.704	47.31	8.69	12.58
111	2007	265	415	59.9	94.1	0.604	41.05	9.87	12.58
111	2007	265	430	59.93	94.2	0.411	97.6	14.51	12.57
111	2007	265	445	59.83	94.1	0.329	94.2	9.63	12.57
111	2007	265	500	59.46	94	0.062	66.64	1.752	12.58
111	2007	265	515	59.22	94	0.112	80.7	5.365	12.61
111	2007	265	530	59.03	94.1	0.17	39.3	8.06	12.69
111	2007	265	545	58.95	94.2	0.21	49.85	3.292	12.97
111	2007	265	600	59.17	94.2	na	na	na	13.36
111	2007	265	615	59.48	94.3	na	na	na	13.37
111	2007	265	630	59.97	94.1	0.497	91.2	17.34	13.36
111	2007	265	645	59.92	94	0.137	72.8	6.283	13.34
111	2007	265	700	59.76	94.1	0.031	24.03	1.128	13.33
111	2007	265	715	59.75	94.2	0.054	9.86	1.646	13.32
111	2007	265	730	60.44	94.4	0.327	83.2	12.51	13.32
111	2007	265	745	61.57	94.2	0.629	32.76	10.55	13.21
111	2007	265	800	62.59	94.1	0.328	328.8	11.77	13.31
111	2007	265	815	64.02	94.4	0.408	301.3	43.98	13.3
111	2007	265	830	66.33	94.3	2.572	229.5	25.9	13.31
111	2007	265	845	67.07	94.1	3.416	232.3	29.42	13.31
111	2007	265	900	67.37	94	2.892	252	35.86	13.31
111	2007	265	915	67.42	94.2	3.684	242.9	26.51	13.31
111	2007	265	930	68.19	93.4	3.684	254.9	33.53	13.31
111	2007	265	945	68.92	92.1	3.688	244.9	27.77	13.32
111	2007	265	1000	70.2	89.2	3.99	258.9	36.07	13.31
111	2007	265	1015	70.9	85.5	4.599	266.5	33.48	13.3
111	2007	265	1030	70.3	85.1	3.273	279.3	44.83	13.3
111	2007	265	1045	70.3	84.5	3.704	299.1	34.22	13.3
111	2007	265	1100	71.1	78.3	4.101	293.5	36.81	13.3
111	2007	265	1115	72.5	72.6	4.403	253.8	47.27	13.3
111	2007	265	1130	72.3	76.3	4.538	306.4	31.46	13.29
111	2007	265	1145	73	75.1	4.071	281.6	47.5	13.29
111	2007	265	1200	73	76	4.095	251.7	42.5	13.29
111	2007	265	1215	72.9	76.2	4.829	292.3	42.03	13.29
111	2007	265	1230	72.2	79	4.98	262.1	36.12	13.29
111	2007	265	1245	72.1	80.4	4.484	281.7	42.05	13.29
111	2007	265	1300	72.7	78.3	4.889	279.5	36.91	13.3
111	2007	265	1315	72.6	80.3	5.006	290.8	40.11	13.3
111	2007	265	1330	71.9	81.6	4.236	282.6	46.6	13.3
111	2007	265	1345	72	82.1	3.914	273.9	39.34	13.3
111	2007	265	1400	71.1	85	4.057	277	45.11	13.3
111	2007	265	1415	70.8	86.1	2.858	277.8	44.63	13.31
111	2007	265	1430	70.6	88.2	2.622	287.4	33.45	13.32
111	2007	265	1445	70.6	88.8	3.332	300.8	45.6	13.32
111	2007	265	1500	70.3	90	4.315	292.5	38.67	13.33
111	2007	265	1515	70.3	90.5	3.696	268.4	32.19	13.1
111	2007	265	1530	70.4	91.3	3.807	265.6	45.57	12.94
111	2007	265	1545	70.7	90.5	3.884	282.4	41.35	12.88
111	2007	265	1600	71	89.5	3.964	281.1	39.19	12.85
111	2007	265	1615	72.5	85.4	4.557	281.1	44.7	12.84
111	2007	265	1630	72.3	85	5.427	275.6	35.19	12.83
111	2007	265	1645	72.6	83.4	4.361	279	37.29	12.81
111	2007	265	1700	72.6	83.6	5.229	290.8	35.65	12.81
111	2007	265	1715	72.7	83.8	5.397	281.8	35.52	12.8
111	2007	265	1730	71.6	87.5	4.673	295.6	32.09	12.79
111	2007	265	1745	70.7	90.1	4.82	306.6	31.67	12.79
111	2007	265	1800	69.88	92.3	5.509	314.7	27.22	12.79
111	2007	265	1815	69.79	92.9	4.69	311.6	30.33	12.79
111	2007	265	1830	69.76	93.1	4.115	305.3	29.3	12.78

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	265	1845	69.78	93.4	4.047	316.1	26.9	12.78
111	2007	265	1900	69.72	93.7	5.475	316.4	26.59	12.78
111	2007	265	1915	69.76	93.7	4.613	321.8	23.64	12.77
111	2007	265	1930	69.64	93.7	4.75	311.4	26.58	12.77
111	2007	265	1945	69.77	93.6	3.217	308.1	30.34	12.77
111	2007	265	2000	69.89	93.1	4.446	319.8	26.61	12.76
111	2007	265	2015	69.97	92.4	5.479	320.3	21.34	12.76
111	2007	265	2030	70	92.4	4.599	316.7	29.28	12.75
111	2007	265	2045	70.1	92.5	3.59	317.1	23.34	12.75
111	2007	265	2100	70.1	92.6	3.789	317.5	24.82	12.75
111	2007	265	2115	70	92.8	3.785	309.3	30.75	12.75
111	2007	265	2130	69.93	93	3.491	315.7	25.96	12.74
111	2007	265	2145	69.87	93.2	4.54	314.2	24.41	12.74
111	2007	265	2200	69.79	93.4	4.077	322.1	24.1	12.74
111	2007	265	2215	69.74	93.6	4.232	322.2	28.42	12.73
111	2007	265	2230	69.79	93.6	3.767	326.8	25.09	12.73
111	2007	265	2245	69.92	93.4	3.334	326.4	19.92	12.73
111	2007	265	2300	69.86	93.5	4.15	322.8	24.35	12.72
111	2007	265	2315	69.67	93.4	3.316	320.6	19.94	12.71
111	2007	265	2330	69.54	93.4	2.718	328.9	25.95	12.72
111	2007	265	2345	69.52	93.4	3.227	329.1	18.81	12.71
111	2007	265	2400	69.39	93.4	2.784	324.5	19.38	12.71
111	2007	266	15	69.28	93.5	2.937	317	26.07	12.7
111	2007	266	30	69.24	93.5	2.519	316.4	27.5	12.7
111	2007	266	45	69.34	93.4	2.838	8.65	30.58	12.69
111	2007	266	100	69.29	93.3	2.506	0.86	23.1	12.69
111	2007	266	115	69.34	93.4	2.774	30.66	22.88	12.68
111	2007	266	130	69.53	93.3	3.05	33.39	24.09	12.68
111	2007	266	145	69.49	93.3	1.42	25.56	29.68	12.67
111	2007	266	200	69.18	93.2	0.237	350.5	14.11	12.67
111	2007	266	215	68.76	93.4	0.185	350.8	19.01	12.66
111	2007	266	230	68.82	93.7	1.066	29.39	17.92	12.65
111	2007	266	245	69.02	93.8	2.27	15.56	18.85	12.65
111	2007	266	300	69.01	94.1	2.548	38.83	27.15	12.64
111	2007	266	315	69.09	94.1	3.251	64.57	27.76	12.64
111	2007	266	330	69.27	94.1	3.469	50.48	22.99	12.63
111	2007	266	345	69.29	94	2.975	56.68	26.21	12.63
111	2007	266	400	69.18	93.8	3.471	67.24	21.73	12.62
111	2007	266	415	69.04	93.6	3.132	61.04	26.28	12.61
111	2007	266	430	68.81	93.3	3.038	65.25	27.56	12.61
111	2007	266	445	68.59	92.7	3.295	75.7	28.88	12.63
111	2007	266	500	68.14	88.8	4.025	82.3	34.56	12.69
111	2007	266	515	67.72	81.2	3.99	81.7	33.11	12.79
111	2007	266	530	67.39	75.2	4.075	86.1	31.67	12.88
111	2007	266	545	66.93	71.9	4.194	81.3	32.5	13.11
111	2007	266	600	66.09	63.44	5.491	75.3	27.76	13.34
111	2007	266	615	65.43	57.16	5.076	83	34.58	13.33
111	2007	266	630	64.57	57.29	4.657	91.4	37.8	13.32
111	2007	266	645	63.67	58.17	3.892	87.3	27.74	13.32
111	2007	266	700	63.15	57.68	4.154	79.5	30.69	13.3
111	2007	266	715	63.01	55.84	3.872	78	27.14	13.3
111	2007	266	730	63.43	52.59	3.539	78.2	29.07	13.3
111	2007	266	745	64.16	51.92	3.797	69.59	31.44	13.3
111	2007	266	800	64.59	51.19	4.214	64.18	23.76	13.3
111	2007	266	815	65.13	49.65	4.496	59.83	34.16	13.3
111	2007	266	830	65.93	48.1	4.752	65.53	28.31	13.29
111	2007	266	845	66.62	45.42	6.1	64.73	26.65	13.29
111	2007	266	900	67.38	43.28	5.993	70.6	30.58	13.29
111	2007	266	915	68.15	42.74	5.062	78.5	37.12	13.3
111	2007	266	930	68.71	41.74	5.52	72.6	32.74	13.3

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	266	945	68.76	40.84	5.405	62.3	28.64	13.3
111	2007	266	1000	69.01	40.5	6.664	59.96	32.14	13.29
111	2007	266	1015	69.14	39.63	5.981	74.4	30.5	13.28
111	2007	266	1030	70	37.18	5.189	45.89	33.24	13.28
111	2007	266	1045	70.5	36.98	5.512	68.12	25.93	13.27
111	2007	266	1100	70.8	33.97	5.54	45.97	36.08	13.28
111	2007	266	1115	71.4	31.73	6.297	61.71	36.39	13.27
111	2007	266	1130	72.2	32.53	4.923	58.16	35.96	13.27
111	2007	266	1145	71.9	31.8	6.634	27.02	35.8	13.27
111	2007	266	1200	72.5	29.86	5.945	41.15	30.62	13.27
111	2007	266	1215	73	29.62	6.462	56.14	37.71	13.27
111	2007	266	1230	73.3	32.2	5.9	52.07	40.35	13.28
111	2007	266	1245	73.6	30.66	5.683	43.39	33.14	13.27
111	2007	266	1300	73.5	30.22	5.884	42.3	37.49	13.28
111	2007	266	1315	73.6	31.9	6.501	31.96	33.9	13.28
111	2007	266	1330	73.6	31.7	6.41	17.76	26.13	13.28
111	2007	266	1345	74.4	31.86	6.342	27.82	31.27	13.29
111	2007	266	1400	74.5	30.59	6.106	43.01	30.93	13.29
111	2007	266	1415	74.5	31.69	6.287	32	37.07	13.3
111	2007	266	1430	74.6	31.73	5.657	31.53	27.42	13.3
111	2007	266	1445	75.1	31.12	5.947	34.01	35.69	13.31
111	2007	266	1500	75.8	29.51	5.788	48.73	25.78	13.08
111	2007	266	1515	75.5	31.38	6.724	31.48	38.48	12.94
111	2007	266	1530	75.9	31.48	5.489	32.79	31.44	12.88
111	2007	266	1545	76.5	30.18	5.036	36.83	28.74	12.85
111	2007	266	1600	76.4	30.31	5.818	20.77	31.04	12.84
111	2007	266	1615	76.9	29.68	5.34	27.92	34.47	12.82
111	2007	266	1630	77.1	29.31	5.683	41.29	29.73	12.81
111	2007	266	1645	76.8	29.18	6.634	33.55	21.03	12.81
111	2007	266	1700	76.9	28.24	5.55	34.25	27.12	12.8
111	2007	266	1715	77	29.05	5.655	28.21	29.61	12.8
111	2007	266	1730	76.8	29.81	6.481	37.49	24.01	12.79
111	2007	266	1745	76.5	30.62	5.512	32.51	24.03	12.79
111	2007	266	1800	76.2	31.25	5.105	33.44	21.97	12.78
111	2007	266	1815	75.7	32.29	4.067	39.92	30.96	12.78
111	2007	266	1830	75.1	34.13	3.537	39.68	26.25	12.78
111	2007	266	1845	73.8	37.98	2.903	21.64	24.46	12.78
111	2007	266	1900	71.9	41.52	1.869	11.49	21.53	12.77
111	2007	266	1915	70.2	46.81	0.827	345	14.28	12.77
111	2007	266	1930	67.96	53.34	0.516	346.2	21.63	12.77
111	2007	266	1945	67.23	51.37	1.392	22.77	21.97	12.76
111	2007	266	2000	67.9	49.6	1.905	29.57	25.54	12.76
111	2007	266	2015	68.08	48.96	1.851	35.37	34.25	12.75
111	2007	266	2030	67.98	49.4	1.322	71.1	36.82	12.75
111	2007	266	2045	67.13	53.75	1.327	20.86	19.67	12.75
111	2007	266	2100	65.8	56.46	0.727	351.6	72.4	12.75
111	2007	266	2115	64.4	59.78	1.177	2.058	27.42	12.74
111	2007	266	2130	63.53	62.79	0.253	358.1	2.643	12.73
111	2007	266	2145	63.22	64.1	1.292	0.585	21.5	12.73
111	2007	266	2200	62.66	62.73	1.116	353.2	30.22	12.72
111	2007	266	2215	61.65	66.01	1.132	329.1	17.32	12.72
111	2007	266	2230	60.87	68.38	1.98	344.6	18.2	12.72
111	2007	266	2245	60.6	68.99	1.398	353.5	23.68	12.71
111	2007	266	2300	60.62	69.25	0.67	319.4	22.4	12.71
111	2007	266	2315	59.82	71.6	1.199	336.5	11.85	12.71
111	2007	266	2330	58.99	73.8	1.599	349.3	21.4	12.7
111	2007	266	2345	58.76	73.2	1.151	7.66	22.8	12.69
111	2007	266	2400	58.96	71.1	0.24	340.3	13.67	12.69
111	2007	267	15	58.8	72.5	1.256	18.23	21.53	12.69
111	2007	267	30	59.78	63.99	2.248	38.03	31.59	12.68

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	267	45	62.33	58.5	3.725	66.39	26.51	12.67
111	2007	267	100	62.89	57.05	3.624	52.15	25.44	12.67
111	2007	267	115	62.91	56.14	2.322	35.98	41.36	12.67
111	2007	267	130	62.64	57.55	1.149	22.56	56.17	12.67
111	2007	267	145	61.46	60.42	1.855	12.52	27.9	12.66
111	2007	267	200	60.33	65.77	1.752	21.86	11.45	12.65
111	2007	267	215	58.96	66.55	1.274	39.92	24.48	12.65
111	2007	267	230	59.83	62.54	1.862	63.5	20.34	12.64
111	2007	267	245	59.57	67.16	1.042	21.6	21.61	12.64
111	2007	267	300	58.41	68	0.923	39.57	26.83	12.64
111	2007	267	315	59.08	62.68	2.29	57.03	23.83	12.63
111	2007	267	330	60.71	58.6	3.259	74.7	27.2	12.63
111	2007	267	345	61.45	57.19	3.342	81.2	33.15	12.62
111	2007	267	400	61.8	57.63	3.749	83	34.76	12.62
111	2007	267	415	62.17	57.32	4.331	87.8	33.24	12.62
111	2007	267	430	62.43	55.54	3.461	79.1	42.19	12.62
111	2007	267	445	62.66	53.03	3.203	93.2	37.52	12.62
111	2007	267	500	62.36	53.8	1.331	105.2	39.04	12.67
111	2007	267	515	60.44	62.86	0.676	16.21	28.38	12.71
111	2007	267	530	57.44	71	1.528	325.9	22.97	12.67
111	2007	267	545	55.78	75.2	1.092	327.6	10.81	12.64
111	2007	267	600	54.69	78.4	1.451	339	32.42	12.7
111	2007	267	615	54.74	78.3	1.049	67.68	50.72	12.83
111	2007	267	630	54.15	81.3	0.715	338	21.19	12.84
111	2007	267	645	53.36	82.8	1.195	320	32.96	12.81
111	2007	267	700	52.62	84.4	1.708	331.5	9.04	12.82
111	2007	267	715	52.83	84.8	1.99	348.6	31.45	13.15
111	2007	267	730	54.79	78.9	0.692	7.95	45.06	13.22
111	2007	267	745	57.22	74.1	0.999	322.2	23.13	13.28
111	2007	267	800	59.02	69.51	1.811	335	28.34	13.31
111	2007	267	815	61.07	64.49	1.867	337.5	21.69	13.31
111	2007	267	830	62.51	60.97	2.582	6.854	31.79	13.3
111	2007	267	845	63.61	59.22	2.866	356.4	25.32	13.28
111	2007	267	900	65.09	55	2.518	46.68	39.43	13.31
111	2007	267	915	66.65	51.48	2.661	78.5	37.6	13.3
111	2007	267	930	68.36	49.4	3.394	92.3	34.8	13.3
111	2007	267	945	69.13	46.02	2.812	108.8	34.65	13.3
111	2007	267	1000	70.4	42.91	2.768	79.9	36.37	13.3
111	2007	267	1015	71.4	39.12	2.957	146.9	40.31	13.29
111	2007	267	1030	71.8	39.69	3.58	143.2	42.26	13.3
111	2007	267	1045	73	34.44	2.81	197.3	55.97	13.22
111	2007	267	1100	73.1	40.45	3.855	217.9	43.08	13.21
111	2007	267	1115	71.6	46.51	4.718	238.3	23.53	13.2
111	2007	267	1130	72.8	43.6	3.596	240.1	36.19	13.32
111	2007	267	1145	72.8	35.04	4.466	247.4	29.31	13.3
111	2007	267	1200	72.9	31.73	4.708	241.7	27.38	13.31
111	2007	267	1215	73.6	33.77	4.258	252.6	33.47	13.31
111	2007	267	1230	73.5	34.67	4.575	258.1	34.45	13.25
111	2007	267	1245	73.7	32.13	4.802	263.3	40.87	13.19
111	2007	267	1300	73.3	32.63	5.058	268.4	32.59	13.2
111	2007	267	1315	73.7	30.29	4.772	277.2	44.79	13.19
111	2007	267	1330	73.9	31.69	4.466	269.2	43.22	13.08
111	2007	267	1345	74	34.47	3.779	271.1	45.92	13.06
111	2007	267	1400	73.7	33.83	4.899	276	32.4	12.98
111	2007	267	1415	73.7	32.76	4.623	276.8	43.28	12.92
111	2007	267	1430	73.5	32.39	5.276	303.9	30.44	12.88
111	2007	267	1445	73.3	35.03	5.143	300.2	36	12.86
111	2007	267	1500	73.5	36.17	4.949	294.9	36.43	12.85
111	2007	267	1515	73.3	35.83	5.485	312.6	31.48	12.84
111	2007	267	1530	73.5	36.3	5.53	320.5	25.42	12.83

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	267	1545	73.2	39.31	5.383	307.2	29.27	12.82
111	2007	267	1600	72.8	39.82	5.413	298.8	38.61	12.81
111	2007	267	1615	72.6	40.29	5.636	302	32.39	12.81
111	2007	267	1630	72.3	40.25	5.755	305.4	27.53	12.8
111	2007	267	1645	72.1	42.33	5.179	305.7	33.81	12.79
111	2007	267	1700	71.7	43.3	6.033	310.8	28.56	12.77
111	2007	267	1715	71.4	43.83	6.686	325.4	20.95	12.78
111	2007	267	1730	71.5	45.57	4.959	309.6	27.54	12.77
111	2007	267	1745	71.1	47.34	4.607	302.5	31.62	12.77
111	2007	267	1800	70.3	49.15	4.962	313.8	23.94	12.76
111	2007	267	1815	70	48.95	3.892	307.2	27.29	12.76
111	2007	267	1830	69.22	50.99	3.771	307	22.74	12.75
111	2007	267	1845	67.88	54.7	3.275	309.4	22.1	12.74
111	2007	267	1900	66.79	57.62	2.695	314.2	19.96	12.74
111	2007	267	1915	66.18	59.1	3.177	312.3	17.03	12.74
111	2007	267	1930	65.67	61.3	2.506	313.6	15.65	12.73
111	2007	267	1945	65.34	61.77	2.764	317.3	16.44	12.73
111	2007	267	2000	65.08	63.82	1.901	309	21.1	12.73
111	2007	267	2015	64.94	65.37	1.757	306.2	24.2	12.72
111	2007	267	2030	64.59	68.32	0.985	330.5	28.35	12.72
111	2007	267	2045	63.07	72.6	0.471	352.2	18.67	12.71
111	2007	267	2100	61.92	75.4	0.367	341.9	17.52	12.71
111	2007	267	2115	61.18	77.9	0.385	19.3	20.54	12.71
111	2007	267	2130	60.57	80	0.133	338.1	3.274	12.69
111	2007	267	2145	60.27	81.4	0.394	0.842	11.99	12.68
111	2007	267	2200	60.07	82.4	0.415	29.8	8.52	12.67
111	2007	267	2215	59.61	83.7	0.018	323.9	0.011	12.67
111	2007	267	2230	59.61	85.4	0.803	347.4	24.53	12.65
111	2007	267	2245	61.43	84.5	1.094	341.9	33.06	12.65
111	2007	267	2300	63.1	82.2	2.403	336.4	26.41	12.65
111	2007	267	2315	63.71	82.4	2.538	331.3	20.08	12.65
111	2007	267	2330	64	82.3	2.925	336.3	18.33	12.63
111	2007	267	2345	64.06	83.4	3.309	341.2	26.27	12.63
111	2007	267	2400	64.16	84.4	2.951	336.8	21.05	12.63
111	2007	268	15	63.88	85.1	3.132	325.5	17.02	12.62
111	2007	268	30	63.71	84.7	3.08	329.7	16.43	12.62
111	2007	268	45	63.54	85	2.665	338.6	24.42	12.61
111	2007	268	100	63.08	85.2	1.845	355.5	26.24	12.61
111	2007	268	115	62.55	86.1	1.891	337.3	24.63	12.61
111	2007	268	130	62.04	86.3	1.052	345.6	15.24	12.61
111	2007	268	145	61.34	87.5	1.09	8.18	16.35	12.61
111	2007	268	200	61.14	87.6	1.935	348	27.64	12.61
111	2007	268	215	60.74	87.9	1.635	322.3	26.93	12.61
111	2007	268	230	60.05	88.2	0.206	332.2	13.95	12.6
111	2007	268	245	59.05	88.9	na	na	na	12.6
111	2007	268	300	58.25	89.7	na	na	na	12.6
111	2007	268	315	57.68	91	1.166	349.7	20.32	12.6
111	2007	268	330	58.28	91.5	1.933	340.3	20.63	12.6
111	2007	268	345	58.94	90.9	2.05	338.6	19.77	12.6
111	2007	268	400	59.21	91	2.719	335.9	16.02	12.6
111	2007	268	415	59.36	90.6	2.616	331	22.3	12.6
111	2007	268	430	59.34	90.4	2.898	340.4	21.65	12.6
111	2007	268	445	59.39	90.6	3.197	331.9	18.39	12.6
111	2007	268	500	59.55	90.6	2.749	331.6	14.96	12.6
111	2007	268	515	59.55	90.9	2.397	333.3	20.2	12.6
111	2007	268	530	59.38	91.1	2.028	334.3	14.91	12.63
111	2007	268	545	59.18	91.5	1.678	324.3	15.27	12.71
111	2007	268	600	58.96	91.6	0.42	314.6	16.97	12.88
111	2007	268	615	58.48	91.9	0.548	326.2	20.35	13.09
111	2007	268	630	58.02	92.6	0.822	328.4	18.09	13.25

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	268	645	58.37	92.9	1.885	336.5	18.88	13.33
111	2007	268	700	59	92.9	2.216	333.7	10.83	13.32
111	2007	268	715	59.49	92.8	2.55	331.9	13.07	13.32
111	2007	268	730	60.39	91.9	2.699	330.6	14.96	13.31
111	2007	268	745	61.65	89.8	3.297	326.3	20.17	13.31
111	2007	268	800	62.88	87	3.261	320.8	21.32	13.3
111	2007	268	815	64.24	80.8	4.234	325.5	21.96	13.3
111	2007	268	830	66.01	75.7	5.759	339.9	21.04	13.3
111	2007	268	845	67.3	71.1	6.049	339.3	27.17	13.3
111	2007	268	900	68.39	68	5.914	338.4	19.25	13.3
111	2007	268	915	69.09	66.16	6.589	331.4	23.98	13.29
111	2007	268	930	70.1	62.81	6.744	334	18.66	13.29
111	2007	268	945	71.8	63.85	4.782	326.3	34.28	13.3
111	2007	268	1000	73	59.92	4.391	307.4	41.16	13.29
111	2007	268	1015	73.6	62.52	4.133	292.9	33.55	13.28
111	2007	268	1030	73.3	66.2	4.661	302.8	23.78	13.28
111	2007	268	1045	73.2	64.9	4.881	299.7	33.11	13.28
111	2007	268	1100	73.5	62.45	5.677	311.8	26.7	13.28
111	2007	268	1115	73.4	65.83	5.687	315.4	24.52	13.28
111	2007	268	1130	74	63.12	5.872	311.3	26	13.28
111	2007	268	1145	73.9	62.82	6.561	306.8	29.69	13.28
111	2007	268	1200	74.2	61.75	5.927	296	39.19	13.28
111	2007	268	1215	74.2	62.19	6.94	313.6	27.33	13.27
111	2007	268	1230	74.8	61.05	6.18	301	37.77	13.27
111	2007	268	1245	74.7	65.79	7.34	308.9	30.4	13.28
111	2007	268	1300	74.7	64.96	6.549	303	28.53	13.28
111	2007	268	1315	74.8	64.39	6.958	307	31.38	13.29
111	2007	268	1330	74.8	63.82	7.05	308.7	33.86	13.29
111	2007	268	1345	74.3	65.4	7.18	312.8	30.49	13.3
111	2007	268	1400	74.1	67.13	7.57	305.8	32.05	13.3
111	2007	268	1415	73.9	67.03	7.37	298.6	28.72	13.31
111	2007	268	1430	73.7	68.63	7.46	304.5	31.26	13.32
111	2007	268	1445	73.6	65.89	6.672	309	26.62	13.33
111	2007	268	1500	73.8	66.72	7.47	306.9	30.43	13.33
111	2007	268	1515	74.4	64.88	7.01	315	33.06	13
111	2007	268	1530	74.8	65.15	6.321	305.8	34.04	12.91
111	2007	268	1545	74.2	69.53	8.35	307.9	30.43	12.87
111	2007	268	1600	73.9	71.3	7.47	304.1	29.22	12.85
111	2007	268	1615	73.7	72.2	7.66	314.7	25.85	12.83
111	2007	268	1630	73.4	73.2	8.45	311.9	26.82	12.81
111	2007	268	1645	73.5	74.6	7.74	308.7	26.98	12.8
111	2007	268	1700	73.4	73	6.201	303.4	35.39	12.79
111	2007	268	1715	73.1	75.1	7.43	310.1	28.64	12.78
111	2007	268	1730	73	74.4	6.235	316.4	29.1	12.79
111	2007	268	1745	72.6	74.5	6.505	315.1	29.55	12.77
111	2007	268	1800	72	76.3	7.2	316.6	22.08	12.77
111	2007	268	1815	71.6	77.2	6.519	311.9	26.75	12.76
111	2007	268	1830	71	78.4	5.072	314.5	24.06	12.76
111	2007	268	1845	70.3	80.7	4.702	312.1	29.13	12.75
111	2007	268	1900	69.84	81.8	4.806	310.9	33.01	12.75
111	2007	268	1915	69.66	81.9	4.857	314.2	23.87	12.75
111	2007	268	1930	69.74	80.9	5.171	318.8	25.38	12.74
111	2007	268	1945	69.7	80.5	4.686	315.8	24.24	12.73
111	2007	268	2000	69.78	79.2	5.34	322.4	23.98	12.73
111	2007	268	2015	69.8	80.3	5.415	320.3	20.21	12.72
111	2007	268	2030	69.73	83.2	5.326	321.3	26.55	12.72
111	2007	268	2045	69.7	84.9	5.298	315.5	30.25	12.71
111	2007	268	2100	69.68	86.1	5.673	314.1	23.97	12.71
111	2007	268	2115	69.61	86.1	6.217	312.3	25.39	12.71
111	2007	268	2130	69.6	86.4	6.239	317.7	25.14	12.7

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	268	2145	69.6	86.4	6.303	313.6	23.78	12.7
111	2007	268	2200	69.53	86.8	6.126	317.8	23.97	12.7
111	2007	268	2215	69.43	87.2	5.991	323.5	20.06	12.69
111	2007	268	2230	69.37	87	6.406	317.3	30.92	12.69
111	2007	268	2245	69.43	86.6	6.823	317.6	22.5	12.68
111	2007	268	2300	69.45	86.8	6.952	322.2	20	12.68
111	2007	268	2315	69.47	86.8	5.989	323.6	22.34	12.67
111	2007	268	2330	69.37	87.6	5.783	318.9	24	12.67
111	2007	268	2345	69.25	88.4	7.11	321.4	22.06	12.66
111	2007	268	2400	69.15	88.6	6.624	333	17.4	12.66
111	2007	269	15	68.96	88.6	6.275	326.6	21.94	12.66
111	2007	269	30	68.83	88.5	4.857	321.5	21.42	12.66
111	2007	269	45	68.81	88	6.136	323	22.68	12.64
111	2007	269	100	68.79	87.5	5.912	324.1	26.36	12.64
111	2007	269	115	68.68	87.1	5.544	321.3	27.09	12.63
111	2007	269	130	68.55	86.3	5.665	322.6	20.27	12.63
111	2007	269	145	68.49	83.5	5.58	327.2	23.57	12.63
111	2007	269	200	68.56	81.2	5.753	329.4	17.24	12.62
111	2007	269	215	68.62	80.9	5.429	328.6	20.75	12.62
111	2007	269	230	68.5	81.3	5.411	324.6	22.54	12.6
111	2007	269	245	68.29	83	5.211	330.6	19.33	12.59
111	2007	269	300	68.09	85.1	5.064	317.5	19.96	12.59
111	2007	269	315	67.92	84.6	4.778	324.1	20.72	12.58
111	2007	269	330	67.94	83.7	5.03	325	19.39	12.58
111	2007	269	345	67.87	83.4	5.36	325.7	27.67	12.56
111	2007	269	400	67.78	83.8	5.451	327.3	25.43	12.56
111	2007	269	415	67.77	84.2	5.737	322.7	21.45	12.55
111	2007	269	430	67.62	85.4	4.758	323.8	23.53	12.55
111	2007	269	445	67.5	86.4	5.084	320.6	27.07	12.55
111	2007	269	500	67.39	87.2	4.756	319.6	24.01	12.56
111	2007	269	515	67.32	87.6	4.152	321.8	25.21	12.59
111	2007	269	530	67.25	88.1	4.712	317.5	21.89	12.76
111	2007	269	545	67.22	88.4	4.968	324.7	22.98	13.11
111	2007	269	600	67.27	88.3	5.387	322.9	20.37	13.43
111	2007	269	615	67.24	88.4	4.962	317.4	23.25	13.43
111	2007	269	630	67.07	88.8	4.851	314.1	22.55	13.42
111	2007	269	645	67.04	89	4.593	316.5	24.67	13.4
111	2007	269	700	67.07	88.9	4.766	314.3	25.96	13.39
111	2007	269	715	67.23	88.9	4.865	312.3	30.94	13.38
111	2007	269	730	67.67	88.3	4.268	319.6	30.58	13.38
111	2007	269	745	68.08	87.8	4.381	309.6	26.42	13.23
111	2007	269	800	68.41	87.5	4.847	307.3	35.93	13.38
111	2007	269	815	68.67	86.9	5.413	308.8	31.49	13.37
111	2007	269	830	69.12	85.7	5.219	311.6	33.86	13.37
111	2007	269	845	69.6	84.3	5.804	308	24.33	13.37
111	2007	269	900	70.1	83.7	6.068	310.8	27.09	13.37
111	2007	269	915	70.7	80.6	7.19	324.5	25.51	13.37
111	2007	269	930	71.1	80.4	6.297	314.6	26.64	13.37
111	2007	269	945	71.7	79.2	5.344	307.6	25.78	13.37
111	2007	269	1000	72.5	76.7	5.709	314.5	23.76	13.36
111	2007	269	1015	72.8	77.4	6.051	308.3	31.19	13.34
111	2007	269	1030	72.7	77.7	6.126	305.7	27.4	13.34
111	2007	269	1045	72.7	77.5	6.791	309.3	31.2	13.33
111	2007	269	1100	73.1	76.7	5.57	306	30.33	13.32
111	2007	269	1115	74.1	73.8	5.074	295	37.99	13.32
111	2007	269	1130	74.7	71.5	5.286	304	33.42	13.32
111	2007	269	1145	74.8	72.7	5.157	299.5	32.88	13.31
111	2007	269	1200	75.4	71.7	5.453	289.8	31.34	13.31
111	2007	269	1215	75.4	70.3	5.739	302.5	25.3	13.3
111	2007	269	1230	75.4	70.6	5.846	299.9	32.6	13.3

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	269	1245	75.3	71.8	5.862	289.2	40.62	13.3
111	2007	269	1300	75.5	71.9	5.459	284.4	40.02	13.3
111	2007	269	1315	75.7	71.3	5.872	288.5	38.18	13.3
111	2007	269	1330	75.9	70.4	6.078	277	38.84	13.31
111	2007	269	1345	75.8	71.2	6.045	296.1	32.91	13.3
111	2007	269	1400	76.3	71.9	5.763	309	33.43	13.32
111	2007	269	1415	76.2	72	5.755	284.1	32.62	13.32
111	2007	269	1430	76.1	74.2	6.11	302.9	41.43	13.32
111	2007	269	1445	76.1	74.3	6.09	289.4	33.83	13.33
111	2007	269	1500	75.6	74.5	5.743	280.5	41.36	13.34
111	2007	269	1515	75.3	74.6	5.693	293.9	39.49	13.06
111	2007	269	1530	75.2	74.4	6.696	309.7	30.55	12.93
111	2007	269	1545	74.8	74.7	7.11	314.8	26.57	12.88
111	2007	269	1600	75	75.7	6.676	302.4	32.17	12.84
111	2007	269	1615	74.6	76.7	6.686	297.6	33.88	12.83
111	2007	269	1630	74.5	75.8	5.991	308.5	34.43	12.81
111	2007	269	1645	74.6	75.7	6.184	310.3	30.9	12.79
111	2007	269	1700	74.4	76.3	5.892	301.9	29.04	12.78
111	2007	269	1715	74.3	76.1	5.9	315.5	28.6	12.78
111	2007	269	1730	73.9	77.5	5.999	307	26.13	12.76
111	2007	269	1745	73.4	79	6.92	310.5	27.73	12.75
111	2007	269	1800	73	80	5.298	288.9	38.32	12.75
111	2007	269	1815	72.3	82	5.389	305	33.04	12.74
111	2007	269	1830	71.8	83.3	4.96	313.7	24.82	12.74
111	2007	269	1845	71.5	83.8	5.004	314.6	23.8	12.74
111	2007	269	1900	71.3	84.2	3.892	301.8	38.16	12.72
111	2007	269	1915	71.2	83.9	4.186	293.6	36.26	12.72
111	2007	269	1930	71.1	84.4	4.25	308.4	29.84	12.72
111	2007	269	1945	71.1	84.6	4.591	324.6	29.14	12.71
111	2007	269	2000	71.1	84.1	4.911	323.4	22.31	12.7
111	2007	269	2015	71.3	83.3	5.59	322.1	24.65	12.7
111	2007	269	2030	71.3	82.7	5.538	317.5	30.04	12.7
111	2007	269	2045	71.4	82	6.068	322.8	26.79	12.7
111	2007	269	2100	71.4	80.6	6.404	319.4	26.73	12.68
111	2007	269	2115	71.7	80	6.738	312.9	33.8	12.7
111	2007	269	2130	71.9	79.5	7.15	325.3	25.2	12.68
111	2007	269	2145	71.8	80.2	6.209	327.3	24.1	12.68
111	2007	269	2200	71.7	81	6.327	327	21.84	12.68
111	2007	269	2215	71.6	81.5	5.814	314.6	27.65	12.68
111	2007	269	2230	71.5	82.1	6.064	320.1	21.08	12.67
111	2007	269	2245	71.3	83.1	5.364	318.4	22.98	12.66
111	2007	269	2300	71.1	83.3	5.572	316.5	25.72	12.66
111	2007	269	2315	71.1	82.5	5.808	321.6	23.42	12.66
111	2007	269	2330	71	82.1	5.356	320.1	26.68	12.65
111	2007	269	2345	70.9	82.1	5.209	317.4	24.92	12.65
111	2007	269	2400	70.7	82.5	5.401	314.5	22.92	12.66
111	2007	270	15	70.6	83	4.585	315.3	22.74	12.65
111	2007	270	30	70.3	83.5	4.575	312.7	31.96	12.64
111	2007	270	45	70.2	83.7	3.96	316	25.25	12.64
111	2007	270	100	70.2	84.2	4.275	311	23.06	12.64
111	2007	270	115	70.2	84.1	4.216	310.6	32.19	12.63
111	2007	270	130	70.2	83.8	4.567	314.5	25.46	12.63
111	2007	270	145	70.3	83	4.839	311.9	25.28	12.63
111	2007	270	200	70.3	83.5	4.248	312.8	23.07	12.62
111	2007	270	215	69.87	84.7	3.731	315	28.27	12.62
111	2007	270	230	69.61	85.4	3.664	305.3	26.81	12.6
111	2007	270	245	69.4	85.9	3.384	310.1	34.13	12.6
111	2007	270	300	69.43	85.2	3.884	301.3	35.4	12.6
111	2007	270	315	69.65	85.1	4.736	313.8	28.49	12.59
111	2007	270	330	69.76	86.5	4.72	307.6	31.12	12.58

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	270	345	69.85	89.6	5.064	307	30.7	12.58
111	2007	270	400	69.94	91.1	5.741	312.6	28.36	12.57
111	2007	270	415	70	91.6	5.923	319.9	23.31	12.56
111	2007	270	430	69.9	92	5.902	319.5	23.33	12.56
111	2007	270	445	69.72	92.3	6.338	318.3	22.38	12.55
111	2007	270	500	69.5	92.9	7.15	321.1	25.11	12.55
111	2007	270	515	69.29	93.4	5.296	325.2	25.23	12.59
111	2007	270	530	69.11	93.7	5.111	319.5	27.51	12.76
111	2007	270	545	69.05	94.1	5.213	327.3	27.88	13.06
111	2007	270	600	69.04	94.3	4.845	315	23.14	13.45
111	2007	270	615	69.16	94.4	4.841	315.1	30.15	13.45
111	2007	270	630	69.22	94.4	4.806	311.1	29.04	13.44
111	2007	270	645	69.2	94.5	4.399	309.6	32.61	13.43
111	2007	270	700	69.16	94.6	3.857	313.3	30.97	13.41
111	2007	270	715	69.2	94.6	3.505	309.7	28.1	13.41
111	2007	270	730	69.35	94.6	3.483	299.3	32.05	13.4
111	2007	270	745	69.53	94.7	3.938	300.4	34.81	13.29
111	2007	270	800	69.69	94.6	3.999	317	32.75	13.4
111	2007	270	815	69.88	94.3	5.395	320	27.81	13.38
111	2007	270	830	70.1	93.7	4.861	315.3	30.55	13.38
111	2007	270	845	70.3	93.2	4.637	310.5	34.13	13.38
111	2007	270	900	70.3	92.8	3.99	302.9	32.55	13.38
111	2007	270	915	70.5	92	3.996	310	35.67	13.38
111	2007	270	930	70.7	91.2	4.434	302.2	36.4	13.39
111	2007	270	945	70.7	90.9	3.118	303.3	41.45	13.38
111	2007	270	1000	70.4	91.2	4.21	302.5	36.19	13.38
111	2007	270	1015	70.5	90.7	4.029	289.8	36.21	13.37
111	2007	270	1030	71.1	88.7	5.258	309.7	29.56	13.36
111	2007	270	1045	71.3	87.7	5.628	315.8	25.85	13.36
111	2007	270	1100	71.9	85.9	5.328	301.8	30.47	13.35
111	2007	270	1115	72.7	82.9	4.647	294.3	41.86	13.35
111	2007	270	1130	73.1	81.2	5.058	302.5	28.09	13.35
111	2007	270	1145	73.4	82.1	4.655	278.4	38.66	13.34
111	2007	270	1200	72.2	86.3	5.086	290.6	32.99	13.34
111	2007	270	1215	71.6	87.1	5.53	309.4	33.45	13.35
111	2007	270	1230	73.6	81.1	4.677	296.4	32.72	13.34
111	2007	270	1245	73.5	83	5.084	314.8	33.43	13.34
111	2007	270	1300	72.9	83.9	4.279	283.5	37.98	13.35
111	2007	270	1315	72.4	85.7	4.536	290.2	43.41	13.36
111	2007	270	1330	72	86.7	5.318	275.1	37.72	13.36
111	2007	270	1345	71.5	87.5	4.996	285.2	35.15	13.36
111	2007	270	1400	71.6	89	4.49	271	36.75	13.37
111	2007	270	1415	71.3	90.7	4.466	270.1	42.35	13.37
111	2007	270	1430	71.6	90.9	4.589	270.2	39.01	13.37
111	2007	270	1445	72.8	88.6	4.135	290.4	44.58	13.39
111	2007	270	1500	73.7	86.2	4.593	293.1	35.89	13.39
111	2007	270	1515	73.7	86.5	4.73	279.2	35.28	13.03
111	2007	270	1530	73	88.1	4.405	290.4	38.84	12.91
111	2007	270	1545	73.1	87.8	3.847	270.6	42.83	12.86
111	2007	270	1600	72.5	89.2	4.484	294.9	35.1	12.84
111	2007	270	1615	72.5	89.9	3.974	281.3	38.58	12.82
111	2007	270	1630	72.4	90.1	3.454	286.5	41.94	12.81
111	2007	270	1645	72.4	90.5	3.477	271.1	38.84	12.8
111	2007	270	1700	72.2	89.8	4.079	270.8	36.1	12.79
111	2007	270	1715	72.2	89.6	3.231	255.6	48.84	12.78
111	2007	270	1730	72.1	89.3	3.537	257.3	30.58	12.78
111	2007	270	1745	71.9	89.4	3.793	258.4	29.18	12.78
111	2007	270	1800	71.8	89.1	3.091	262.9	41.38	12.77
111	2007	270	1815	71.7	88.5	2.913	263.2	34.93	12.76
111	2007	270	1830	71.6	88.5	3.424	254.6	33.07	12.76

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	270	1845	71.3	89.3	4.107	238.7	32.14	12.76
111	2007	270	1900	70.8	90.1	3.459	231.5	36.31	12.76
111	2007	270	1915	70.4	90.6	3.735	244.3	29.87	12.76
111	2007	270	1930	70.1	90.4	3.999	240.8	29.02	12.75
111	2007	270	1945	70	90.2	4.162	226.1	30.47	12.75
111	2007	270	2000	69.93	90.6	4.069	235.7	25.61	12.75
111	2007	270	2015	69.94	90.4	3.537	249.6	33.55	12.75
111	2007	270	2030	70.1	89.8	3.956	236.5	32.91	12.74
111	2007	270	2045	70	90	4.512	235.2	26.48	12.74
111	2007	270	2100	69.91	90.3	4.224	230.7	31.07	12.73
111	2007	270	2115	70.1	90.7	4.405	233.6	32.26	12.73
111	2007	270	2130	70.1	91.2	4.641	239.2	32.08	12.72
111	2007	270	2145	70.1	91.6	4.742	233.2	28.81	12.72
111	2007	270	2200	70	91.8	4.017	244.8	35.17	12.72
111	2007	270	2215	70.2	91.9	4.222	242.9	26.83	12.72
111	2007	270	2230	70.2	92	3.434	255.8	41.36	12.71
111	2007	270	2245	70.2	91.8	3.072	264.6	35.16	12.71
111	2007	270	2300	70.2	91.5	2.915	241.9	31.97	12.69
111	2007	270	2315	70.2	91.4	3.175	254	51.48	12.7
111	2007	270	2330	70.2	91.6	2.886	339	61.81	12.7
111	2007	270	2345	69.78	91.7	3.874	242	27.15	12.7
111	2007	270	2400	69.59	92.1	2.105	242.8	30.26	12.69
111	2007	271	15	69.5	92.5	2.167	264.8	35.27	12.69
111	2007	271	30	69.5	92.6	1.881	253.1	38.62	12.68
111	2007	271	45	69.38	92.9	2.674	237.8	42.38	12.67
111	2007	271	100	69.23	93.2	2.187	267.2	37.26	12.67
111	2007	271	115	69.17	93.4	1.879	276.5	43.02	12.66
111	2007	271	130	68.79	93.4	2.078	305.8	28.89	12.66
111	2007	271	145	68.36	93.4	1.926	297.2	27.25	12.64
111	2007	271	200	68.22	93.7	2.127	303.2	24.34	12.64
111	2007	271	215	68.54	93.8	3.692	322.4	20.38	12.63
111	2007	271	230	68.91	93.6	4.315	321.6	25.68	12.62
111	2007	271	245	69.05	93.7	4.881	316.1	23.29	12.62
111	2007	271	300	69.12	93.4	5.534	323.2	23.2	12.59
111	2007	271	315	69.22	93.3	4.478	321.3	25.89	12.6
111	2007	271	330	69.32	93	5.02	319.6	26.45	12.58
111	2007	271	345	69.35	92.6	5.858	326.4	19.75	12.58
111	2007	271	400	69.3	92.5	4.941	321.5	22.38	12.57
111	2007	271	415	69.24	92	3.93	319.3	23.92	12.55
111	2007	271	430	69.02	92.4	4.401	308.2	26.98	12.56
111	2007	271	445	69	92.1	5.592	331	18.25	12.56
111	2007	271	500	69.16	91.7	5.723	332.8	21.57	12.6
111	2007	271	515	69.3	91.1	5.771	349.3	16.97	12.68
111	2007	271	530	69.13	91.4	3.849	334.2	19.55	13
111	2007	271	545	68.9	91.7	3.12	350	27.39	13.19
111	2007	271	600	68.82	92	2.298	339.5	19.75	13.17
111	2007	271	615	69.08	91.9	2.552	352.7	20.81	13.43
111	2007	271	630	69.25	91.9	3.114	350.8	25.52	13.41
111	2007	271	645	69.42	91.8	2.796	332.6	22.33	13.4
111	2007	271	700	69.34	92	2.073	318.3	19.56	13.4
111	2007	271	715	69.45	91.8	2.471	342.8	18.42	13.4
111	2007	271	730	69.59	91.6	2.689	337.6	21.4	13.41
111	2007	271	745	69.67	91.5	2.049	348.8	32.2	13.41
111	2007	271	800	69.81	90.3	1.775	357.8	27.88	13.41
111	2007	271	815	69.38	84.4	3.203	20.25	29.51	13.4
111	2007	271	830	69.21	83.4	2.471	3.275	24.33	13.4
111	2007	271	845	69.22	84.1	2.713	3.246	28.09	13.4
111	2007	271	900	69.2	79.9	3.859	7.85	31.23	13.4
111	2007	271	915	69.27	77.5	4.609	15.94	28.56	13.4
111	2007	271	930	69.32	76.8	4.486	6.685	28.89	13.39

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	271	945	69.43	76.1	5.55	24.71	25.18	13.4
111	2007	271	1000	69.9	75.6	3.723	24.66	31.61	13.38
111	2007	271	1015	70.6	71.3	5.04	48.47	30.02	13.38
111	2007	271	1030	71.3	70.5	5.137	37.84	32.12	13.38
111	2007	271	1045	72.4	68.21	5.33	64.67	35.64	13.38
111	2007	271	1100	72.1	66.03	5.07	62.71	27.83	13.37
111	2007	271	1115	72.4	62.62	5.034	43.52	31.81	13.37
111	2007	271	1130	72.3	63.99	4.645	39.23	33.08	13.37
111	2007	271	1145	72.6	63.12	5.179	27.42	31.77	13.37
111	2007	271	1200	73	62.86	6.358	28.54	30.67	13.38
111	2007	271	1215	72.5	62.69	4.704	25.5	38.48	13.38
111	2007	271	1230	73.7	60.48	5.596	8.98	32.98	13.38
111	2007	271	1245	72.8	61.38	4.861	27.61	35.34	13.39
111	2007	271	1300	73.3	53.66	3.723	52.75	26.11	13.4
111	2007	271	1315	75.3	49.31	4.351	40.25	37.85	13.4
111	2007	271	1330	75.8	49.51	5.838	27.42	30.94	13.41
111	2007	271	1345	75.8	47.7	7.45	17.63	24.6	13.41
111	2007	271	1400	75.9	48.1	6.892	11.99	31.53	13.43
111	2007	271	1415	75.6	46.93	7.31	3.93	25.93	13.43
111	2007	271	1430	75.2	49.2	6.589	21.98	31.79	13.44
111	2007	271	1445	75.4	47.77	7.91	17.65	31.11	13.12
111	2007	271	1500	75.4	48.16	7.2	20.43	35.18	12.94
111	2007	271	1515	74.7	49.87	7.62	25.64	31.32	12.87
111	2007	271	1530	75	46.32	7.18	20.41	33.65	12.83
111	2007	271	1545	74.7	45.89	8.17	19.24	33.61	12.81
111	2007	271	1600	74.1	46.93	8.48	15.34	24.5	12.8
111	2007	271	1615	74	45.16	8.25	28.33	25.74	12.79
111	2007	271	1630	73.6	43.39	8.57	21.13	29.65	12.79
111	2007	271	1645	73.1	42.19	7.28	28.71	23.25	12.78
111	2007	271	1700	73	42.63	7.41	35.67	27.2	12.77
111	2007	271	1715	72.4	43.1	8.72	30.5	26.03	12.77
111	2007	271	1730	72.3	44.93	8.02	31.67	22.78	12.77
111	2007	271	1745	72.1	46.54	6.712	36.71	27.07	12.76
111	2007	271	1800	71.9	47.48	5.381	44.52	21.27	12.76
111	2007	271	1815	71.5	48.18	4.127	36.42	22.65	12.76
111	2007	271	1830	70.6	50.42	3.63	32.47	23.63	12.76
111	2007	271	1845	69.45	53.9	2.246	22.76	20.17	12.76
111	2007	271	1900	68.5	55.91	1.777	16.51	19.1	12.75
111	2007	271	1915	68.05	53.88	3.994	31.73	22.8	12.75
111	2007	271	1930	68.34	50.03	6.265	44.5	26.64	12.74
111	2007	271	1945	67.85	50.23	4.663	37.99	28.12	12.74
111	2007	271	2000	67.18	51.57	3.422	32.91	22.2	12.74
111	2007	271	2015	66.46	53.88	2.633	22.61	25.42	12.73
111	2007	271	2030	65.73	55.89	2.848	31.51	24.62	12.73
111	2007	271	2045	65.25	57.29	4.696	23.87	24.43	12.73
111	2007	271	2100	64.94	59.17	3.924	23.5	25.23	12.72
111	2007	271	2115	64.39	59.48	5.856	19.49	22.91	12.71
111	2007	271	2130	64.16	60.48	5.828	19.32	27.01	12.71
111	2007	271	2145	63.84	61.09	6.607	26.41	26.59	12.7
111	2007	271	2200	63.91	59.55	7.34	29.69	21.61	12.68
111	2007	271	2215	64.25	55.94	8.02	35.14	29.4	12.69
111	2007	271	2230	64.29	57.21	6.672	34.75	26.12	12.68
111	2007	271	2245	63.71	58.58	5.642	29.04	23.23	12.68
111	2007	271	2300	63.3	59.08	5.044	16.25	25.78	12.67
111	2007	271	2315	62.9	59.12	5.348	11.64	27.49	12.67
111	2007	271	2330	62.37	60.82	4.492	14.7	28.57	12.67
111	2007	271	2345	62.05	60.76	5.618	13.16	20.44	12.66
111	2007	271	2400	61.7	60.29	4.804	15.47	27.48	12.66
111	2007	272	15	61.53	60.39	5.254	17.44	28.17	12.64
111	2007	272	30	61.33	60.89	6.035	6.955	30.75	12.64

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	272	45	61.12	61.59	5.804	8.95	23.87	12.64
111	2007	272	100	60.78	62.03	5.542	11.14	23.28	12.63
111	2007	272	115	60.47	61.99	5.638	10.71	21.86	12.63
111	2007	272	130	60.19	63.13	5.878	15.94	25.6	12.62
111	2007	272	145	59.85	64.57	6.112	13.89	23.09	12.62
111	2007	272	200	59.43	65.91	5.763	20.26	27.16	12.6
111	2007	272	215	59.1	66.85	5.497	29.12	24.16	12.59
111	2007	272	230	58.73	68.28	5.451	19.81	27.76	12.59
111	2007	272	245	58.42	69.22	4.818	20.28	21.32	12.58
111	2007	272	300	58.04	70	4.555	22.28	26.04	12.57
111	2007	272	315	57.91	70.5	5.501	13.8	26.21	12.56
111	2007	272	330	57.57	71.6	4.748	13.76	26.18	12.56
111	2007	272	345	57.29	72.9	3.922	15.63	25.91	12.55
111	2007	272	400	56.98	74.1	4.131	12.36	25.06	12.55
111	2007	272	415	56.68	75.5	3.92	15.59	23.11	12.54
111	2007	272	430	56.59	76.2	3.428	12.78	19.67	12.54
111	2007	272	445	56.29	77.6	2.788	5.424	22.19	12.55
111	2007	272	500	55.79	79.1	2.935	4.753	21.82	12.58
111	2007	272	515	55.47	80.6	3.622	9.84	21.64	12.63
111	2007	272	530	55.52	80.2	5.04	2.45	19.69	12.89
111	2007	272	545	55.79	79.1	3.254	40.51	23.17	13.15
111	2007	272	600	55.66	80.2	3.08	27.9	21.09	13.12
111	2007	272	615	55.47	80.3	2.88	32.16	18.92	13.25
111	2007	272	630	55.12	81.3	2.277	25.48	27.3	13.37
111	2007	272	645	54.94	80.7	2.999	18.86	27.58	13.39
111	2007	272	700	55.49	79.1	3.318	32.46	24.74	13.38
111	2007	272	715	56.06	76.3	4.405	38.22	21.83	13.37
111	2007	272	730	57.59	71.6	5.211	40.17	27.8	13.32
111	2007	272	745	58.8	69.28	5.828	45.28	25.25	13.25
111	2007	272	800	59.51	67.84	5.262	49.96	27.09	13.28
111	2007	272	815	60.08	67.29	6.37	47.27	23.82	13.36
111	2007	272	830	60.57	66.75	5.785	54.03	28.99	13.36
111	2007	272	845	61.23	64.67	5.788	60.01	26.58	13.36
111	2007	272	900	61.98	62.8	6.033	66.49	29.3	13.35
111	2007	272	915	62.65	60.69	6.605	70.3	35.38	13.36
111	2007	272	930	63.23	58.81	7.2	76.6	30.78	13.36
111	2007	272	945	64.36	56.99	6.944	81.3	31.27	13.36
111	2007	272	1000	64.89	54.75	7.61	69.14	39.29	13.36
111	2007	272	1015	65.63	52.21	6.992	75.6	33.45	13.35
111	2007	272	1030	66.28	52.54	6.996	73.5	31.79	13.34
111	2007	272	1045	66.7	49.23	8.33	66.07	30.14	13.34
111	2007	272	1100	67.03	46.82	8.88	73	32.34	13.33
111	2007	272	1115	67.78	43.44	8.44	79.4	33.73	13.33
111	2007	272	1130	68.23	44.08	8.25	86.6	29.66	13.32
111	2007	272	1145	68.89	41.84	8.15	75.9	33.95	13.32
111	2007	272	1200	69.17	40.57	7.89	82.3	36.59	13.32
111	2007	272	1215	69.87	38.46	7.63	83.8	34.61	13.32
111	2007	272	1230	70	36.78	8.48	62.68	33.56	13.33
111	2007	272	1245	70.4	37.18	8.18	62.88	30.05	13.34
111	2007	272	1300	71.3	35.47	7.02	75.4	34.15	13.34
111	2007	272	1315	71.8	33.23	7.39	71.6	32.76	13.36
111	2007	272	1330	72.1	31.93	7.08	61.46	30.84	13.36
111	2007	272	1345	72.4	31.8	7.45	77.7	34.95	13.33
111	2007	272	1400	72.6	31.7	6.732	82	45.25	13.17
111	2007	272	1415	73	32.23	6.017	83.1	39.85	13.16
111	2007	272	1430	72.8	32.4	6.404	78	34.39	13.12
111	2007	272	1445	72.8	31.8	6.573	85.3	32.47	12.95
111	2007	272	1500	73	31.76	6.587	89.8	43.83	12.87
111	2007	272	1515	73.6	31.33	5.612	84.8	30.22	12.85
111	2007	272	1530	73.6	29.85	6.116	80.4	39.03	12.84

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	272	1545	73.6	30.36	5.941	76	34.65	12.83
111	2007	272	1600	74.1	30.36	5.205	85.4	38.53	12.81
111	2007	272	1615	73.8	31.16	5.868	101.4	28.7	12.81
111	2007	272	1630	73.8	29.99	6.041	83.2	35.56	12.81
111	2007	272	1645	73.6	29.89	5.429	71.5	35.86	12.8
111	2007	272	1700	73.5	30.59	5.578	60	32.52	12.79
111	2007	272	1715	73.1	30.52	5.229	65.63	32.39	12.79
111	2007	272	1730	73.1	29.96	5.064	75.9	28.96	12.79
111	2007	272	1745	72.5	30.73	4.311	50.64	33.92	12.78
111	2007	272	1800	72.5	31.26	3.793	76.1	29.99	12.77
111	2007	272	1815	72	32.23	3.04	68.68	33.79	12.77
111	2007	272	1830	71.1	34.87	2.141	81.6	34.98	12.77
111	2007	272	1845	69.26	43.06	1.298	27.81	45.34	12.77
111	2007	272	1900	66.15	50.79	0.983	349.4	26.24	12.76
111	2007	272	1915	63.65	56.32	1.561	339	18.27	12.76
111	2007	272	1930	62.25	59.37	0.407	17.9	3.905	12.75
111	2007	272	1945	60.99	63.62	0.324	15.48	4.815	12.75
111	2007	272	2000	60.33	64.7	1	359.6	26.27	12.75
111	2007	272	2015	59.42	67.35	0.533	334.2	24.9	12.75
111	2007	272	2030	59.53	65.84	1.023	48.21	27.61	12.74
111	2007	272	2045	59.12	69.69	0.555	342.4	25.52	12.74
111	2007	272	2100	58.25	69.87	0.948	16.35	22.79	12.73
111	2007	272	2115	57.92	72.2	0.365	19.52	6.686	12.73
111	2007	272	2130	57.53	72.2	0.786	25.66	18.71	12.72
111	2007	272	2145	56.71	75.2	0.554	345.2	15.27	12.73
111	2007	272	2200	56.39	75.6	1.458	0.809	26.71	12.72
111	2007	272	2215	56.35	75.3	1.19	350.7	26.18	12.72
111	2007	272	2230	55.85	75.8	0.197	41.03	5.947	12.72
111	2007	272	2245	56.34	73.2	0.992	29.23	16.61	12.71
111	2007	272	2300	56.97	71.6	0.718	45.76	11.03	12.71
111	2007	272	2315	57.7	67.3	1.446	78.7	32.73	12.7
111	2007	272	2330	58.78	68.04	1.296	40.45	36.25	12.71
111	2007	272	2345	57.34	73.1	2.308	339.2	10.03	12.7
111	2007	272	2400	56	75.3	1.4	331.9	25.5	12.69
111	2007	273	15	55.24	77.6	0.809	10.09	39.27	12.69
111	2007	273	30	55.03	78.5	0.399	15.13	7.56	12.69
111	2007	273	45	54.7	79.3	1.048	47.03	7.24	12.68
111	2007	273	100	54.64	80.5	0.673	33.64	9.04	12.67
111	2007	273	115	54.44	81.1	0.448	12.77	9.17	12.67
111	2007	273	130	54.66	80.7	0.637	17.8	12.4	12.66
111	2007	273	145	55.27	78.8	0.855	26.54	15.92	12.65
111	2007	273	200	55.44	78.9	0.387	40.95	10.51	12.65
111	2007	273	215	54.92	80.2	0.571	45.18	8.17	12.64
111	2007	273	230	54.75	80.2	1.177	33.49	18.53	12.64
111	2007	273	245	55.28	78	1.811	66.78	26.08	12.63
111	2007	273	300	55.87	76.8	1.412	68.13	22.12	12.63
111	2007	273	315	55.9	76.6	1.139	97.9	35.1	12.62
111	2007	273	330	55.96	76.2	1.73	105.2	21.15	12.61
111	2007	273	345	56.49	75.8	1.629	91.1	24.62	12.61
111	2007	273	400	56.38	76.6	1.718	85.6	23.22	12.6
111	2007	273	415	55.95	78	1.968	75.4	21.41	12.59
111	2007	273	430	55.45	79.7	1.666	71.3	24.26	12.6
111	2007	273	445	55.18	80.4	0.893	88.5	25.03	12.6
111	2007	273	500	54.79	81.8	1.014	82.3	23.21	12.61
111	2007	273	515	54.56	82.8	1.393	91.2	22.15	12.6
111	2007	273	530	54.76	82.6	1.141	119.3	24.97	12.62
111	2007	273	545	54.84	83.1	1.091	99.9	22.68	12.64
111	2007	273	600	54.96	82.8	1.378	93	23.87	12.63
111	2007	273	615	55.09	82.4	1.797	99.6	26.41	12.63
111	2007	273	630	55.29	81.9	1.796	122.1	40.29	12.63

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	273	645	55.34	81.7	2.107	115.9	28.11	12.68
111	2007	273	700	55.38	81.3	2.689	117.2	20.23	12.75
111	2007	273	715	55.33	80.8	2.373	122.6	22.94	12.89
111	2007	273	730	55.5	77.8	2.907	127	25.53	13.24
111	2007	273	745	55.95	75.1	2.888	131.3	23.47	13.36
111	2007	273	800	56.07	75.3	2.129	122.2	25.84	13.17
111	2007	273	815	56.1	76.1	2.147	108.5	26.71	13.18
111	2007	273	830	57.69	70.5	2.093	129	36.52	13.35
111	2007	273	845	59.4	63.72	3.249	137.5	31.37	13.34
111	2007	273	900	60.88	57.39	4.516	149.6	26.36	13.32
111	2007	273	915	61.92	57.55	4.984	137.9	24	13.32
111	2007	273	930	62.49	59.82	4.935	136.2	29.78	13.31
111	2007	273	945	62.5	59.08	5.173	129.3	24.09	13.3
111	2007	273	1000	63.55	56.86	4.643	128.4	24.26	13.3
111	2007	273	1015	64.23	53.88	4.883	135.1	32.37	13.3
111	2007	273	1030	64.93	53.11	4.778	133.2	28.3	13.29
111	2007	273	1045	65.63	46.72	4.557	181.1	38.72	13.29
111	2007	273	1100	65.81	46.35	4.389	174.5	32.04	13.28
111	2007	273	1115	66.89	43.68	4.053	180.7	41.62	13.29
111	2007	273	1130	67.46	47.22	4.754	197.1	35.85	13.28
111	2007	273	1145	66.83	47.96	5.669	213.6	26.77	13.29
111	2007	273	1200	67.57	47.49	5.473	227.6	30.45	13.3
111	2007	273	1215	67.3	46.22	6.553	218.9	27.59	13.3
111	2007	273	1230	67.72	49.46	6.13	219	27.09	13.31
111	2007	273	1245	67.67	48.26	6.289	214.8	23.79	13.32
111	2007	273	1300	67.78	49.29	5.659	229.3	33.68	13.25
111	2007	273	1315	67.92	44.1	6.327	226.4	36.13	13.17
111	2007	273	1330	67.56	47.71	6.533	231.8	29.87	13.11
111	2007	273	1345	68.32	45.44	4.984	236.9	36.7	13.05
111	2007	273	1400	68.6	43.26	5.614	219.2	33.04	12.96
111	2007	273	1415	67.3	46.67	6.495	225.3	28.19	12.89
111	2007	273	1430	67.24	47.81	6.793	207.9	19.79	12.87
111	2007	273	1445	67.67	45.54	6.624	202.6	23.94	12.85
111	2007	273	1500	67.73	45.6	5.266	215.9	36.28	12.83
111	2007	273	1515	67.86	48.35	6.192	196.1	29.37	12.82
111	2007	273	1530	67.65	48.95	5.256	221.6	29.59	12.81
111	2007	273	1545	67.31	48.71	5.798	215.2	30.37	12.81
111	2007	273	1600	67.6	52.06	5.443	208.2	27.38	12.8
111	2007	273	1615	67.24	50.75	6.511	199.8	21.43	12.8
111	2007	273	1630	67.17	51.96	4.959	226	35.61	12.79
111	2007	273	1645	66.93	54.03	4.371	227.3	28.52	12.78
111	2007	273	1700	66.89	52.29	4.53	215.2	29.51	12.78
111	2007	273	1715	66.86	51.89	4.605	214	33	12.77
111	2007	273	1730	66.37	53.76	5.068	202.2	23.48	12.77
111	2007	273	1745	66.02	54.97	5.227	193.8	20.84	12.76
111	2007	273	1800	65.72	56.08	4.865	204.6	23.25	12.76
111	2007	273	1815	65.33	56.69	4.331	198.2	24.46	12.76
111	2007	273	1830	64.66	59.7	4.387	194.1	20.99	12.75
111	2007	273	1845	64.08	61.71	3.376	200	34.91	12.75
111	2007	273	1900	63.51	66.42	3.628	177.2	17.78	12.74
111	2007	273	1915	62.81	68.44	3.305	181.1	21.51	12.73
111	2007	273	1930	62.53	67.84	4.041	177.4	19.64	12.73
111	2007	273	1945	62.36	65.91	3.225	176.7	25.53	12.73
111	2007	273	2000	62.21	64.87	3.66	175.3	20.71	12.73
111	2007	273	2015	62.11	64.74	3.448	178.1	20.59	12.72
111	2007	273	2030	61.98	66.21	3.102	178.7	20.52	12.72
111	2007	273	2045	61.9	67.58	2.804	183.1	22.26	12.71
111	2007	273	2100	61.84	68.15	2.538	169.3	22.87	12.71
111	2007	273	2115	61.81	67.45	3.025	176.9	23.33	12.71
111	2007	273	2130	62.44	64.4	3.751	211	24.58	12.71

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	273	2145	63.01	64.74	4.353	209.7	22.85	12.7
111	2007	273	2200	63.03	66.51	3.727	211.5	21	12.69
111	2007	273	2215	62.87	70.2	3.63	219.5	29.32	12.69
111	2007	273	2230	62.81	69.62	3.565	211.9	28.98	12.68
111	2007	273	2245	62.75	69.05	3.483	210.4	26.08	12.68
111	2007	273	2300	62.51	69.92	2.86	215.3	28.58	12.67
111	2007	273	2315	62.13	70.3	2.5	221.7	22.76	12.67
111	2007	273	2330	62.14	70.2	2.212	214.6	27.49	12.66
111	2007	273	2345	62.12	69.66	3.15	220.5	26.6	12.65
111	2007	273	2400	62.05	70.2	2.814	221.1	22.32	12.65
111	2007	274	15	62	70.6	2.586	223.4	24.45	12.64
111	2007	274	30	61.86	71.1	2.59	224.1	34.61	12.63
111	2007	274	45	61.87	71.1	2.55	222.7	22.5	12.62
111	2007	274	100	61.73	71.4	2.316	221.6	28.16	12.62
111	2007	274	115	61.59	71.1	1.799	216	40.94	12.61
111	2007	274	130	58.39	79.4	1.591	71.5	20.86	12.61
111	2007	274	145	56.32	82.2	1.425	70.4	21.17	12.6
111	2007	274	200	57.96	78	2.157	259.8	50.97	12.6
111	2007	274	215	61.29	72.7	2.733	229.9	36.23	12.6
111	2007	274	230	61.79	72.5	2.663	222.5	26.1	12.6
111	2007	274	245	61.85	71.9	2.483	214.4	27.38	12.59
111	2007	274	300	61.67	72	2.365	213.4	29.87	12.59
111	2007	274	315	61.02	76.2	2.026	165	63.07	12.58
111	2007	274	330	59.42	75.2	1.88	180.4	47.64	12.58
111	2007	274	345	58.31	79.6	1.889	101.2	49.88	12.57
111	2007	274	400	56.43	83.4	1.703	69.16	30.05	12.58
111	2007	274	415	55.71	84.7	1.211	59.56	15.02	12.58
111	2007	274	430	55.38	85.8	0.86	59.49	16	12.58
111	2007	274	445	55.29	86	0.931	86.8	22.55	12.58
111	2007	274	500	55.07	86.5	0.821	86.5	17.35	12.6
111	2007	274	515	54.89	86.9	0.909	103.6	23.7	12.64
111	2007	274	530	54.73	87.1	1.546	116.3	16.58	12.71
111	2007	274	545	54.58	87.1	1.296	102.2	27.76	12.74
111	2007	274	600	54.28	87.4	1.19	89.6	26.53	12.91
111	2007	274	615	54.05	87.7	1.372	115.3	24.64	12.93
111	2007	274	630	53.92	87.7	1.483	109.4	21.27	13.11
111	2007	274	645	53.82	87.8	1.255	101.2	22.43	13.28
111	2007	274	700	54.02	87.3	1.682	78.4	27.8	13.33
111	2007	274	715	54.32	87.1	1.323	55.77	24.13	13.32
111	2007	274	730	55.05	86.3	1.415	86.2	21.36	13.31
111	2007	274	745	56.49	83.3	1.736	117.4	26.14	13.3
111	2007	274	800	58.11	79.7	2.33	136.3	28.53	13.3
111	2007	274	815	59.63	75.6	2.27	161.6	31.25	13.29
111	2007	274	830	61.27	71.6	2.474	162.2	29.94	13.29
111	2007	274	845	63.56	63.6	4.992	199.4	23.82	13.29
111	2007	274	900	63.76	65.54	6.126	205.4	25.6	13.29
111	2007	274	915	63.84	63.53	5.697	199.1	20.11	13.29
111	2007	274	930	64.86	62.69	5.969	201.2	25.77	13.29
111	2007	274	945	64.92	63.18	6.666	200.7	20.81	13.29
111	2007	274	1000	64.58	63.28	8.12	197.9	19.53	13.28
111	2007	274	1015	64.06	62.54	7.44	198.7	20.9	13.28
111	2007	274	1030	63.78	63.21	6.239	200.4	21.17	13.28
111	2007	274	1045	63.53	62.64	5.874	203.2	26.57	13.28
111	2007	274	1100	63.61	60.84	6.805	199	21.52	13.27
111	2007	274	1115	64.05	60.64	5.34	204.4	31.02	13.27
111	2007	274	1130	63.75	59.7	6.194	202.3	19.81	13.27
111	2007	274	1145	64.3	57.96	6.243	199.3	24.74	13.28
111	2007	274	1200	65.19	56.66	6.892	207.5	27.8	13.27
111	2007	274	1215	65.08	55.28	6.976	199.6	28.5	13.27
111	2007	274	1230	64.93	54.82	7.07	206.5	25.7	13.26

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	274	1245	65.13	53.24	6.442	209.3	25.13	13.28
111	2007	274	1300	65.51	52.07	6.91	190.9	23.11	13.28
111	2007	274	1315	65.46	52.11	6.807	197.5	28.66	13.28
111	2007	274	1330	65.53	55.65	6.773	207.7	35.92	13.29
111	2007	274	1345	65.26	54.84	5.739	208.9	27.1	13.13
111	2007	274	1400	65.28	53.04	5.83	208.9	28.9	12.99
111	2007	274	1415	65.05	55.77	6.267	208.1	23	12.92
111	2007	274	1430	65.09	55.67	5.854	197.8	24.47	12.88
111	2007	274	1445	65.04	55.94	5.725	198.3	26.34	12.85
111	2007	274	1500	64.43	58.24	5.91	200.6	26.4	12.84
111	2007	274	1515	64.71	57.68	4.778	207.6	43.53	12.83
111	2007	274	1530	64.2	59.59	5.586	202.8	27.24	12.81
111	2007	274	1545	64	60.53	5.705	206.9	22.5	12.8
111	2007	274	1600	64	59.09	5.804	196.6	28.82	12.8
111	2007	274	1615	64.08	58.59	5.618	192.4	23.07	12.79
111	2007	274	1630	63.57	60.9	6.086	199.5	23.4	12.79
111	2007	274	1645	63.36	60.57	5.731	198.6	20.83	12.78
111	2007	274	1700	63.5	60.4	4.706	200.9	26.61	12.77
111	2007	274	1715	62.96	62.01	6.094	200.4	21.51	12.77
111	2007	274	1730	62.62	63.04	5.638	203.7	27.3	12.77
111	2007	274	1745	62.5	62.81	5.955	192.2	23	12.76
111	2007	274	1800	62.25	65.09	4.855	192.6	27.91	12.76
111	2007	274	1815	61.61	66.12	5.014	197.7	21.93	12.75
111	2007	274	1830	61.27	66.8	4.692	196.5	26.99	12.75
111	2007	274	1845	61	67.14	4.011	192.8	26.68	12.74
111	2007	274	1900	60.91	64.97	4.272	200.6	21.63	12.74
111	2007	274	1915	60.96	65.64	3.92	203.7	25.39	12.73
111	2007	274	1930	60.69	67.78	3.007	200.5	33.92	12.72
111	2007	274	1945	60.58	69.02	2.72	215.4	29.74	12.73
111	2007	274	2000	60.56	69.29	3.4	222.1	27.14	12.73
111	2007	274	2015	60.71	69.59	3.16	220.9	27.85	12.72
111	2007	274	2030	60.86	69.66	3.318	216.5	24.06	12.72
111	2007	274	2045	60.96	70.4	3.535	218.2	31.16	12.71
111	2007	274	2100	61.03	69.62	3.342	208.5	22.51	12.71
111	2007	274	2115	61.09	70.2	4.24	215.2	24.91	12.7
111	2007	274	2130	61.11	70.9	3.072	213	26.52	12.71
111	2007	274	2145	61.21	71.1	3.694	222.9	24.45	12.71
111	2007	274	2200	61.21	71.9	2.81	225	24.65	12.7
111	2007	274	2215	61.13	72	2.958	216.2	25.18	12.69
111	2007	274	2230	61.31	71.8	3.036	212.2	23.37	12.69
111	2007	274	2245	61.2	71.6	2.745	216.7	30.63	12.69
111	2007	274	2300	61.39	71.3	3.461	206.9	22.6	12.69
111	2007	274	2315	61.05	74.1	2.915	156.4	48.7	12.67
111	2007	274	2330	58.13	79.3	1.426	80.6	37.32	12.67
111	2007	274	2345	56.99	80.9	1.445	85.8	22.96	12.67
111	2007	274	2400	56.57	81.6	0.973	93.5	27.27	12.67
111	2007	275	15	56.14	82.4	1.231	103.3	20.35	12.66
111	2007	275	30	55.53	83.4	0.986	107.3	27.61	12.65
111	2007	275	45	55.06	84.3	2.119	116.6	23.16	12.65
111	2007	275	100	54.67	85.1	1.684	115.5	21.93	12.65
111	2007	275	115	54.24	85.9	0.804	85.2	22.56	12.64
111	2007	275	130	53.92	86.5	0.872	90.6	22.16	12.63
111	2007	275	145	54.03	86.7	1.612	125	23.94	12.63
111	2007	275	200	54.21	86.5	2.036	110.3	31.26	12.62
111	2007	275	215	54.26	86.2	1.055	88.2	26.67	12.61
111	2007	275	230	54.13	86.7	1.198	94.7	24.99	12.61
111	2007	275	245	54.38	86.4	1.416	129	33.58	12.6
111	2007	275	300	54.57	86.1	1.398	118.6	19.25	12.6
111	2007	275	315	54.68	86.1	1.204	121.7	21.9	12.59
111	2007	275	330	54.99	85.6	1.571	112.4	24.02	12.59

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	275	345	55.01	85.5	1.221	98.7	24.98	12.56
111	2007	275	400	54.99	85.6	1.308	106.6	31.58	12.57
111	2007	275	415	54.91	86	2.373	140.8	22.32	12.57
111	2007	275	430	54.62	86.8	1.603	116.5	29.05	12.57
111	2007	275	445	54.56	87.5	2.062	115.2	24.58	12.57
111	2007	275	500	54.57	87.8	2.295	134	24.36	12.57
111	2007	275	515	54.4	88.3	1.392	114.7	27.65	12.57
111	2007	275	530	54.27	89.2	2.534	131.8	21.93	12.59
111	2007	275	545	54.33	89.8	2.58	113.4	29.81	12.63
111	2007	275	600	54.69	90.3	3.297	149.3	20.58	12.69
111	2007	275	615	55.3	90.1	2.979	134.6	32.75	12.81
111	2007	275	630	55.42	89.6	2.687	110.5	37.96	13.01
111	2007	275	645	54.97	90	2.273	98.2	26.51	13.08
111	2007	275	700	54.56	90.6	1.974	99	35.26	13.15
111	2007	275	715	54.69	91	1.77	79.3	24.42	13.15
111	2007	275	730	55.54	90.8	1.853	73	39.52	13.18
111	2007	275	745	56.8	88.9	2.473	110.8	34.9	13.21
111	2007	275	800	57.91	86.9	2.546	101.6	40.79	13.25
111	2007	275	815	59.3	84.8	2.796	108.1	37.26	13.27
111	2007	275	830	59.98	83.4	2.81	105.7	34.18	13.2
111	2007	275	845	60.99	83.3	2.921	109.2	26.14	13.29
111	2007	275	900	62.08	81.7	1.953	108	37.95	13.26
111	2007	275	915	63.05	81.8	2.689	151.9	30.7	13.33
111	2007	275	930	64.74	78.7	3.428	168.7	33.28	13.32
111	2007	275	945	65.85	76	3.549	182.9	33.71	13.32
111	2007	275	1000	66.75	73.2	4.633	181	27.47	13.31
111	2007	275	1015	67.87	74	5.687	189.7	26.45	13.3
111	2007	275	1030	67.68	72.9	6.19	201.7	19.79	13.31
111	2007	275	1045	67.48	73.1	5.743	197.8	21.4	13.32
111	2007	275	1100	66.74	75.7	5.749	200	23.49	13.3
111	2007	275	1115	66.77	72.9	6.664	191.7	19.91	13.3
111	2007	275	1130	68.31	69.9	7.31	192	22.56	13.26
111	2007	275	1145	68.55	70.5	6.412	205.6	19.72	13.19
111	2007	275	1200	69.03	71.4	6.207	205.9	25.9	13.34
111	2007	275	1215	69.47	70.1	6.225	192.2	25.61	13.33
111	2007	275	1230	69.47	70.7	6.215	210.9	31.85	13.33
111	2007	275	1245	68.82	71.3	7.84	198.8	21.7	13.32
111	2007	275	1300	68.95	69.74	6.666	210.3	22.19	13.33
111	2007	275	1315	69.43	70.6	6.658	208.6	23.84	13.22
111	2007	275	1330	69.63	73	6.342	208.3	29.65	13.12
111	2007	275	1345	69.52	72.7	6.847	190.9	25.15	12.97
111	2007	275	1400	68.88	73.3	7.47	200.1	20.25	12.91
111	2007	275	1415	69.04	73.2	7.25	200.8	22.02	12.88
111	2007	275	1430	69.07	71.3	7	199.3	24.93	12.86
111	2007	275	1445	69.47	74.2	6.879	205.9	23.49	12.84
111	2007	275	1500	68.97	75.3	7.51	195.5	20.54	12.83
111	2007	275	1515	69.06	73.7	6.34	195.2	26.07	12.82
111	2007	275	1530	69.15	74.2	6.751	202.1	26.44	12.81
111	2007	275	1545	68.28	76.8	7.37	200.4	18.02	12.81
111	2007	275	1600	67.55	78.2	7	200.3	19.06	12.79
111	2007	275	1615	67.86	78.2	6.452	199.9	20.61	12.79
111	2007	275	1630	68.03	78.3	6.912	194.8	21.44	12.78
111	2007	275	1645	67.97	79.3	6.049	201.3	22.38	12.78
111	2007	275	1700	68.02	78.9	4.587	208.8	28.43	12.77
111	2007	275	1715	67.83	79.7	5.421	211	26.83	12.77
111	2007	275	1730	67.51	81	6.531	207.5	20.78	12.77
111	2007	275	1745	67.15	81.5	5.366	197.6	23.08	12.76
111	2007	275	1800	66.77	83.7	6.505	197.6	16.95	12.76
111	2007	275	1815	66.72	84.5	4.45	188.9	25.36	12.76
111	2007	275	1830	66.56	84.8	4.206	193.9	20.44	12.75

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	275	1845	66.36	85	3.94	179.5	21.31	12.75
111	2007	275	1900	65.96	86	3.831	182.3	21.86	12.73
111	2007	275	1915	65.86	86.6	4.075	192.5	26.25	12.74
111	2007	275	1930	65.96	86.7	4.047	190.2	24.2	12.73
111	2007	275	1945	65.84	86.6	3.725	190.9	24.03	12.73
111	2007	275	2000	65.47	87.1	3.463	189.1	25.17	12.73
111	2007	275	2015	65.18	87.7	2.844	188.7	22.9	12.73
111	2007	275	2030	65.05	88.2	2.755	154	24.49	12.72
111	2007	275	2045	65.12	88.1	2.432	163.1	26.99	12.71
111	2007	275	2100	65.18	87.9	2.645	180.1	23.01	12.71
111	2007	275	2115	65.12	88.1	2.741	170.5	23.37	12.71
111	2007	275	2130	65.17	87.9	2.214	145.4	37.53	12.71
111	2007	275	2145	64.96	88.3	2.389	128.8	24.65	12.7
111	2007	275	2200	64.81	88.5	1.86	125.9	29.9	12.69
111	2007	275	2215	64.76	88.8	2.727	172.2	22.74	12.69
111	2007	275	2230	64.75	89.2	2.919	167.7	22.06	12.68
111	2007	275	2245	64.57	89.5	3.314	173.9	19.29	12.68
111	2007	275	2300	64.43	90	3.475	161.5	21.61	12.68
111	2007	275	2315	64.37	89.9	1.987	158.6	40.28	12.67
111	2007	275	2330	64.27	90.1	2.907	189.2	21.48	12.66
111	2007	275	2345	64.2	90.4	2.651	173	33.03	12.66
111	2007	275	2400	64.33	90.3	2.076	162.4	35.35	12.65
111	2007	276	15	64.4	90.6	3.761	185.2	17.26	12.65
111	2007	276	30	64.42	90.9	3.166	174.9	23.76	12.64
111	2007	276	45	64.51	91	2.989	172.4	22.78	12.63
111	2007	276	100	64.62	91	3.1	186.7	30.14	12.63
111	2007	276	115	64.55	91.5	4.407	187.5	18.43	12.62
111	2007	276	130	64.48	91.8	4.355	188.3	19.18	12.61
111	2007	276	145	64.55	92	4.766	186	19.51	12.6
111	2007	276	200	64.54	92.4	3.964	180.3	21.26	12.6
111	2007	276	215	64.48	92.9	4.575	163.5	20.97	12.59
111	2007	276	230	64.49	93.2	3.827	166.5	20.33	12.59
111	2007	276	245	64.61	93.5	3.442	172.2	23.48	12.59
111	2007	276	300	64.73	93.7	4.011	187.4	24.22	12.58
111	2007	276	315	64.85	93.7	3.279	183.2	26.17	12.57
111	2007	276	330	64.96	93.6	3.134	193.1	26.33	12.57
111	2007	276	345	65.05	93.4	3.668	189.5	22.34	12.57
111	2007	276	400	65.04	93.7	4.009	176.8	17.19	12.57
111	2007	276	415	64.99	93.8	3.749	171.9	19.22	12.57
111	2007	276	430	65.06	94	3.749	180	17.41	12.57
111	2007	276	445	65.15	94.3	2.884	186.6	20.8	12.57
111	2007	276	500	65.39	94.4	3.029	201.9	19.28	12.57
111	2007	276	515	65.54	94.3	2.494	213.7	25.23	12.58
111	2007	276	530	65.55	94.4	2.538	193.2	23.52	12.61
111	2007	276	545	65.67	94.4	2.812	197.1	16.94	12.68
111	2007	276	600	65.67	94.5	1.722	169.6	18.76	12.87
111	2007	276	615	65.62	94.6	2.119	163.8	22.55	13.12
111	2007	276	630	65.55	94.6	3.166	161.6	20.19	13.31
111	2007	276	645	65.48	94.8	3.259	154	19.9	13.35
111	2007	276	700	65.48	95	2.995	161.1	24.6	13.34
111	2007	276	715	65.57	95	1.92	145.5	29.22	13.33
111	2007	276	730	65.56	95	2.457	123.5	23.62	13.32
111	2007	276	745	65.58	95.1	1.941	132.4	33.98	13.32
111	2007	276	800	65.83	95.1	1.802	111.4	42.28	13.3
111	2007	276	815	65.97	95	1.952	112.1	38.63	13.3
111	2007	276	830	66.02	95.2	2.766	122.2	24.14	13.3
111	2007	276	845	66.1	95.1	3.027	116.6	27.82	13.31
111	2007	276	900	66.27	95.1	2.757	129.7	34.08	13.31
111	2007	276	915	66.34	95	2.413	172.4	31.17	13.32
111	2007	276	930	66.28	94.9	2.17	144.5	35.19	13.31

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	276	945	66.33	95.1	2.022	128.1	31.52	13.3
111	2007	276	1000	66.36	94.9	2.346	119.9	33.98	13.3
111	2007	276	1015	66.47	94.8	2.822	184.2	26.42	13.29
111	2007	276	1030	66.59	95	3.096	177.8	25.85	13.29
111	2007	276	1045	67.36	94.4	3.297	164.2	25.72	13.28
111	2007	276	1100	68.39	93.5	2.629	106.2	36.06	13.28
111	2007	276	1115	68.89	92.5	2.629	127.4	34.56	13.28
111	2007	276	1130	68.83	92.2	2.429	210.6	42.04	13.28
111	2007	276	1145	69.01	91.8	2.864	215.2	24.04	13.28
111	2007	276	1200	69.64	89.1	3.011	188.7	34.22	13.27
111	2007	276	1215	71.7	82.2	3.209	160.7	33.13	13.27
111	2007	276	1230	73.5	77.3	3.358	204.8	55.36	13.28
111	2007	276	1245	73.5	77.2	3.481	220.9	36.96	13.27
111	2007	276	1300	73.3	78.1	4.569	216.1	32.15	13.28
111	2007	276	1315	72.7	80	5.048	226.2	27.96	13.28
111	2007	276	1330	71.9	84.3	3.982	233.7	33.86	13.28
111	2007	276	1345	72.1	81.4	3.706	244.3	31.84	13.29
111	2007	276	1400	72	82	4.923	229.1	31.66	13.29
111	2007	276	1415	71.4	81.6	4.575	228.7	37.28	13.3
111	2007	276	1430	71.3	82.9	4.184	246.9	45.52	13.3
111	2007	276	1445	70.2	86.5	5.584	216.4	21.91	13.24
111	2007	276	1500	68.96	88.1	4.734	220.3	26.33	12.98
111	2007	276	1515	69.15	87.8	5.181	219.6	23.24	12.91
111	2007	276	1530	68.9	88.7	4.428	220.1	28.29	12.87
111	2007	276	1545	68.47	89.5	4.234	212	22.3	12.85
111	2007	276	1600	68.74	88.9	4.093	233.8	32.13	12.83
111	2007	276	1615	68.26	90	3.851	226.6	29.55	12.82
111	2007	276	1630	67.9	90.8	3.6	249.2	39.63	12.8
111	2007	276	1645	67.67	91.5	3.154	222.4	31.56	12.8
111	2007	276	1700	67.57	92.1	3.265	217.6	29.88	12.8
111	2007	276	1715	67.6	91.9	3.172	231.2	32.72	12.79
111	2007	276	1730	67.19	92.7	2.532	234.5	36.75	12.79
111	2007	276	1745	66.95	93.5	3.586	223.7	24.4	12.78
111	2007	276	1800	66.86	93.6	3.495	248.1	39.1	12.78
111	2007	276	1815	66.84	94.1	3.862	208.8	24.26	12.78
111	2007	276	1830	66.84	94	3.015	207.3	30.75	12.77
111	2007	276	1845	66.69	94.3	2.802	202	26.73	12.77
111	2007	276	1900	66.53	94.4	2.57	226.3	34.51	12.77
111	2007	276	1915	66.55	94.4	2.222	232.4	37.74	12.77
111	2007	276	1930	66.44	94.6	1.874	252.4	30.01	12.76
111	2007	276	1945	66.28	94.7	2.504	240.8	33.34	12.76
111	2007	276	2000	66.25	94.8	1.417	257.7	27.04	12.76
111	2007	276	2015	66.36	94.7	1.835	275.8	31.51	12.75
111	2007	276	2030	66.33	94.8	1.718	266.2	39.91	12.75
111	2007	276	2045	66.42	94.9	2.062	247.1	33.59	12.75
111	2007	276	2100	66.39	94.9	2.991	266.4	35.98	12.75
111	2007	276	2115	66.06	95.1	3.172	269.9	36.5	12.75
111	2007	276	2130	66.04	95.2	2.207	306	28.35	12.74
111	2007	276	2145	66.19	95.3	2.216	300.7	33.27	12.75
111	2007	276	2200	66.24	95.3	3.195	289.5	32.85	12.74
111	2007	276	2215	66.45	95.2	2.828	307.5	30.7	12.73
111	2007	276	2230	66.52	95.4	3.708	303.5	27.69	12.73
111	2007	276	2245	66.66	95.4	3.305	310.2	34.12	12.73
111	2007	276	2300	66.9	95.4	3.35	312.7	27.38	12.73
111	2007	276	2315	66.88	95.4	3.634	299.2	27.9	12.72
111	2007	276	2330	66.98	95.5	3.853	303.8	27.11	12.72
111	2007	276	2345	67.07	95.5	4.057	309.3	29.72	12.72
111	2007	276	2400	67.09	95.5	3.714	294.4	35.18	12.71
111	2007	277	15	67.18	95.5	3.674	317.1	24.56	12.71
111	2007	277	30	67.16	95.6	4.599	322.4	18	12.71

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	277	45	67.09	95.6	4.486	331.4	17.16	12.7
111	2007	277	100	67.09	95.5	4.393	324.5	23.08	12.7
111	2007	277	115	67.07	95.5	3.501	324.2	23.97	12.69
111	2007	277	130	67.19	95.5	2.848	329.9	23.42	12.69
111	2007	277	145	67.27	95.5	3.575	337.1	23.16	12.68
111	2007	277	200	67.26	95.5	3.72	328.4	18.82	12.68
111	2007	277	215	67.37	95.4	3.745	336.4	26.06	12.67
111	2007	277	230	67.26	95.4	3.87	326.8	24.3	12.67
111	2007	277	245	67.19	95.4	3.9	329.4	26.36	12.67
111	2007	277	300	67.2	95.2	3.91	324.6	17.18	12.65
111	2007	277	315	67.17	95.3	3.598	331.9	19.5	12.65
111	2007	277	330	67.19	95.2	3.1	331.2	26.55	12.65
111	2007	277	345	67.17	95.3	2.173	319.5	25.65	12.65
111	2007	277	400	67.11	95.1	3.195	319.3	26.16	12.64
111	2007	277	415	67.05	94.9	2.104	294.9	24.94	12.63
111	2007	277	430	66.97	95	1.968	297	26.07	12.64
111	2007	277	445	66.84	94.8	1.663	312.7	20.72	12.62
111	2007	277	500	66.62	94.7	1.846	299.7	25.75	12.62
111	2007	277	515	66.43	94.8	0.82	342.3	32.44	12.68
111	2007	277	530	66.45	94.7	0.63	337.8	41.01	12.87
111	2007	277	545	66.44	94.8	1.158	30.43	70.7	12.97
111	2007	277	600	66.36	94.5	1.809	351.7	39.12	13.09
111	2007	277	615	66.08	94.5	1.155	305.8	16.86	13.2
111	2007	277	630	66.04	94.3	2.282	331	19.46	13.2
111	2007	277	645	66.13	94.2	2.203	3.173	24.72	13.3
111	2007	277	700	66.16	93.9	2.616	345.3	26.09	13.31
111	2007	277	715	66.22	93.6	2.923	352.9	20.64	13.3
111	2007	277	730	66.31	93.5	2.896	352.8	16.89	13.3
111	2007	277	745	66.47	93.4	2.129	333.4	37.67	13.29
111	2007	277	800	66.5	93.4	1.994	294.1	24.91	13.28
111	2007	277	815	66.67	93.5	2.06	316.6	26.88	13.27
111	2007	277	830	66.87	93.3	2.993	336.3	21.3	13.27
111	2007	277	845	67.05	92.9	3.177	317.7	27.04	13.26
111	2007	277	900	67.38	92.9	2.786	317.4	26.66	13.26
111	2007	277	915	67.63	91.5	4.2	340.4	25.2	13.26
111	2007	277	930	67.8	91	3.172	355.5	30.18	13.26
111	2007	277	945	68.16	90.2	3.448	7.52	22.67	13.26
111	2007	277	1000	69.17	88.6	2.802	317.7	33.54	13.26
111	2007	277	1015	71.1	83.3	2.637	297.4	32.81	13.2
111	2007	277	1030	72	81.4	3.271	302.7	38.45	13.08
111	2007	277	1045	72.3	80.1	3.301	288.9	37.73	13.08
111	2007	277	1100	72.5	80.4	3.027	287.3	39.68	13.27
111	2007	277	1115	73.3	78	4.589	313.6	35.63	13.28
111	2007	277	1130	73.5	76.4	4.321	292.8	37.45	13.29
111	2007	277	1145	74.7	75.2	4.049	279	40.31	13.3
111	2007	277	1200	75.1	74.1	4.071	305.6	31.85	13.32
111	2007	277	1215	75.4	75	4.538	290	37.17	13.3
111	2007	277	1230	75.4	73.6	4.547	251.5	30.05	13.33
111	2007	277	1245	75.3	72.7	4.649	267.5	34.56	13.34
111	2007	277	1300	75.6	73.6	4.681	282.2	43.69	13.34
111	2007	277	1315	74.7	76.3	5.078	265.4	27.54	13.35
111	2007	277	1330	75	75.3	4.291	265.3	35.1	13.36
111	2007	277	1345	74.4	75.7	5.227	290.6	35.75	13.23
111	2007	277	1400	73.8	77.5	5.427	288.8	33.73	13.04
111	2007	277	1415	73.7	76.7	5.564	300.1	37.19	12.92
111	2007	277	1430	73.3	78.6	5.304	302.1	35.34	12.87
111	2007	277	1445	73.3	78.8	5.57	293.6	36.34	12.84
111	2007	277	1500	73.2	77.3	5.584	308.7	37.76	12.82
111	2007	277	1515	73.3	78.4	4.637	288.5	33.36	12.81
111	2007	277	1530	74	76.5	4.74	305.3	34.73	12.8

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	277	1545	73.8	77.3	4.399	292.3	43.32	12.79
111	2007	277	1600	73.2	78.7	4.129	291.1	40.53	12.78
111	2007	277	1615	72.4	81.7	4.82	281.6	35.55	12.77
111	2007	277	1630	72	80.8	4.027	291.4	37.61	12.77
111	2007	277	1645	70.8	83.9	4.073	311.7	36.81	12.76
111	2007	277	1700	70	86	3.531	283.6	40.79	12.76
111	2007	277	1715	68.94	88.6	3.992	289.2	36.15	12.75
111	2007	277	1730	68.3	89.7	3.86	308.5	28.19	12.75
111	2007	277	1745	67.65	91.3	3.555	293.7	39.99	12.75
111	2007	277	1800	67.36	91.9	2.842	284.2	40.35	12.75
111	2007	277	1815	67.16	92.4	3.322	308.7	32.61	12.74
111	2007	277	1830	66.83	93	2.399	299.5	28.57	12.73
111	2007	277	1845	66.71	93.3	2.838	288.8	30.77	12.73
111	2007	277	1900	66.58	93.7	2.407	295.8	35.45	12.73
111	2007	277	1915	66.42	93.9	3.364	282.6	45.71	12.73
111	2007	277	1930	66.18	94.1	3.567	308.7	27.26	12.72
111	2007	277	1945	66.06	94.2	2.693	304.7	25.04	12.71
111	2007	277	2000	66.03	94.3	2.804	290.5	38.68	12.71
111	2007	277	2015	65.97	94.6	3.255	299.7	35.55	12.71
111	2007	277	2030	66	94.6	2.911	297.3	34.67	12.71
111	2007	277	2045	65.91	94.6	3.029	291.6	37.92	12.71
111	2007	277	2100	65.93	94.8	2.044	315.9	26.33	12.7
111	2007	277	2115	65.8	94.8	3.571	308.4	31.45	12.7
111	2007	277	2130	65.75	94.8	2.483	289	32.66	12.69
111	2007	277	2145	65.67	94.9	2.242	288.6	34.18	12.69
111	2007	277	2200	65.69	94.9	2.896	290.3	29.29	12.69
111	2007	277	2215	65.69	94.9	3.094	300.1	30.63	12.68
111	2007	277	2230	65.75	94.9	2.87	304.9	38.13	12.68
111	2007	277	2245	65.8	94.8	2.635	296.9	25.29	12.68
111	2007	277	2300	65.84	94.8	2.822	310.1	25.63	12.68
111	2007	277	2315	65.81	94.9	3.033	301.4	27.75	12.67
111	2007	277	2330	65.86	94.8	2.89	310.7	28.29	12.66
111	2007	277	2345	65.92	94.8	3.122	314.4	29.45	12.66
111	2007	277	2400	65.85	94.9	2.71	307.7	28.83	12.65
111	2007	278	15	65.92	94.9	2.689	306.9	36.35	12.65
111	2007	278	30	65.92	94.8	2.103	302	25.7	12.64
111	2007	278	45	65.97	95	3.203	328.4	24.99	12.64
111	2007	278	100	66.06	94.9	2.882	315.9	31.9	12.64
111	2007	278	115	66	94.9	3.342	312.6	28.75	12.63
111	2007	278	130	65.88	94.9	3.571	321.5	26.34	12.63
111	2007	278	145	65.92	94.8	3.841	335.3	23.44	12.63
111	2007	278	200	65.88	94.9	3.062	325.5	26.2	12.61
111	2007	278	215	66.01	94.9	2.995	316.9	24.76	12.61
111	2007	278	230	65.98	94.9	3.676	330.7	20.96	12.61
111	2007	278	245	66	94.9	2.137	313.3	21.65	12.6
111	2007	278	300	66.03	94.9	2.105	328.7	26.69	12.6
111	2007	278	315	66.08	95.1	1.466	302.8	23.14	12.6
111	2007	278	330	66.06	95.1	2.596	304.3	36.84	12.6
111	2007	278	345	66.02	95	2.703	280.1	41.19	12.59
111	2007	278	400	65.72	95.1	2.532	297.8	30.42	12.59
111	2007	278	415	65.78	95.1	2.894	308	23.24	12.59
111	2007	278	430	65.85	95.2	2.385	324.2	20.31	12.59
111	2007	278	445	65.53	95.2	2.328	311.5	34.07	12.59
111	2007	278	500	65.52	95.3	1.602	283.1	28.53	12.59
111	2007	278	515	65.36	95.3	1.539	287.9	35.21	12.59
111	2007	278	530	65.22	95.3	1.542	289.8	24.42	12.6
111	2007	278	545	65.28	95.5	1.606	350.7	15.89	12.61
111	2007	278	600	65.43	95.3	1.79	317.9	28.1	12.69
111	2007	278	615	65.37	95.5	1.91	305.2	26.88	12.62
111	2007	278	630	65.26	95.4	2.383	292.4	33.15	12.6

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	278	645	65.08	95.5	2.705	291.4	30.72	12.98
111	2007	278	700	64.98	95.5	2.31	293.7	33.5	13.29
111	2007	278	715	65.17	95.6	1.708	317.1	24.91	13.33
111	2007	278	730	65.39	95.6	1.459	293.5	30.52	13.32
111	2007	278	745	65.5	95.6	1.821	282.5	40.99	13.31
111	2007	278	800	65.7	95.7	1.877	295	35.88	13.3
111	2007	278	815	65.92	95.7	2.012	316.2	39.51	13.31
111	2007	278	830	66.04	95.7	2.139	344.2	26.94	13.3
111	2007	278	845	66.29	95.6	2.723	325.7	24.22	13.3
111	2007	278	900	66.3	95.7	1.908	290.9	34.55	13.29
111	2007	278	915	66.31	95.6	2.536	310.7	29.4	13.29
111	2007	278	930	66.19	95.6	2.298	272.8	35.16	13.27
111	2007	278	945	66.32	95.5	2.401	302.6	40.03	13.26
111	2007	278	1000	66.45	95.4	2.172	307	43.51	13.26
111	2007	278	1015	66.61	95.2	2.6	310.8	44.32	13.25
111	2007	278	1030	66.92	95.2	2.177	301.2	50.73	13.24
111	2007	278	1045	67.38	95	2.574	295.2	44.39	13.23
111	2007	278	1100	67.61	94.5	3.072	310.2	39.93	13.22
111	2007	278	1115	67.89	93.9	2.421	328.4	45.39	13.22
111	2007	278	1130	68.21	92.6	3.309	325.7	25.04	13.21
111	2007	278	1145	68.29	92.3	2.901	277	39.61	13.21
111	2007	278	1200	68.63	90.9	2.792	308.5	49.96	13.2
111	2007	278	1215	68.99	90	3.064	292.2	30.95	13.21
111	2007	278	1230	69.14	89.4	2.806	273.6	40.62	13.21
111	2007	278	1245	69.95	86.5	2.457	273.3	53.74	13.22
111	2007	278	1300	69.8	85.5	3.583	295.3	36.55	13.22
111	2007	278	1315	70.4	82.8	2.903	306.2	41.2	13.22
111	2007	278	1330	71.6	79.7	3.64	297.6	49.15	13.22
111	2007	278	1345	70.7	82.6	3.944	279.3	35.29	13.21
111	2007	278	1400	69.18	86.5	4.762	280.3	42.45	13.21
111	2007	278	1415	69.33	82.9	4.075	294.5	32.91	13.22
111	2007	278	1430	69.24	83.6	3.71	292.4	36.79	13.22
111	2007	278	1445	68.95	84.7	3.624	270.3	34.79	13.09
111	2007	278	1500	68.23	86.8	3.708	297.4	34.77	12.95
111	2007	278	1515	68.12	86.7	4.758	317.8	30.46	12.9
111	2007	278	1530	68.35	85.3	5.53	306	33.19	12.88
111	2007	278	1545	68.92	82.7	4.5	299.5	38.83	12.86
111	2007	278	1600	69.29	83.7	5.983	316.7	30.03	12.84
111	2007	278	1615	69.26	82.8	4.941	303.8	31.44	12.83
111	2007	278	1630	68.26	85.8	4.194	271.7	39.66	12.82
111	2007	278	1645	67.16	87.4	3.765	282.8	47.18	12.82
111	2007	278	1700	66.88	88.2	3.545	286.2	39.98	12.82
111	2007	278	1715	66.56	88.4	2.989	294.3	40.73	12.81
111	2007	278	1730	66.06	89.7	3.028	292	36.45	12.81
111	2007	278	1745	65.87	90.6	2.945	297.1	33.01	12.8
111	2007	278	1800	65.83	90.8	3.255	307.4	34.72	12.8
111	2007	278	1815	65.6	91.5	3.42	298.4	37.84	12.8
111	2007	278	1830	65.49	91.6	2.623	286.1	38.43	12.8
111	2007	278	1845	65.33	92	3.142	263.5	28.62	12.79
111	2007	278	1900	65.34	92	3.378	284.2	31.63	12.78
111	2007	278	1915	65.37	91.7	2.911	268.2	37.39	12.78
111	2007	278	1930	65.37	91.8	2.643	292.4	35.39	12.78
111	2007	278	1945	65.58	91.7	2.683	297.9	30.53	12.77
111	2007	278	2000	65.72	91.8	2.836	291	34.03	12.77
111	2007	278	2015	66.11	91.5	3.112	296.4	37.22	12.76
111	2007	278	2030	66.41	91.5	2.504	294.4	34.53	12.75
111	2007	278	2045	66.6	91.4	3.358	297.4	34.5	12.75
111	2007	278	2100	66.75	91.4	3.835	307.5	32.23	12.74
111	2007	278	2115	66.77	91.5	3.598	306.2	27.05	12.73
111	2007	278	2130	66.79	91.6	2.679	305.6	27.86	12.73

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	278	2145	66.97	91.4	3.146	309.8	27.91	12.72
111	2007	278	2200	66.92	91.7	3.484	305.3	26.1	12.72
111	2007	278	2215	66.86	91.9	4.303	319.9	26.3	12.71
111	2007	278	2230	66.81	91.6	3.739	323	22.06	12.71
111	2007	278	2245	66.89	91	4.295	315.6	28.6	12.7
111	2007	278	2300	66.94	91	4.115	318.4	26.84	12.7
111	2007	278	2315	66.78	91.3	4.428	315.6	29.19	12.69
111	2007	278	2330	66.57	91.5	4.52	325.3	27.9	12.69
111	2007	278	2345	66.49	91.6	3.36	315.6	32.1	12.69
111	2007	278	2400	66.62	91.7	2.679	316.7	29.24	12.69
111	2007	279	15	66.83	91.9	2.264	306.5	31.31	12.68
111	2007	279	30	66.78	91.9	3.531	320.9	21.27	12.68
111	2007	279	45	66.69	92	3.457	323.4	28.22	12.67
111	2007	279	100	66.51	92.1	3.497	316	22.7	12.67
111	2007	279	115	66.58	92.4	3.336	320.9	23.27	12.67
111	2007	279	130	66.8	92.5	4.704	332.9	16.1	12.67
111	2007	279	145	66.86	92.7	3.585	322.4	26.71	12.66
111	2007	279	200	66.99	92.7	3.64	330.2	19.49	12.66
111	2007	279	215	67.05	92.6	2.794	334.8	28.65	12.65
111	2007	279	230	67.11	92.6	3.511	347.2	21.26	12.65
111	2007	279	245	67.11	92.6	2.759	334.1	20.77	12.65
111	2007	279	300	67.06	92.6	3.035	356	24.68	12.64
111	2007	279	315	66.85	92.8	2.84	344.6	22.97	12.63
111	2007	279	330	66.74	92.9	2.087	349.5	24.17	12.63
111	2007	279	345	66.59	93	1.636	11.66	36.82	12.63
111	2007	279	400	66.31	93.2	2.596	344.2	24.83	12.62
111	2007	279	415	65.96	93.4	2.475	324.3	13.21	12.61
111	2007	279	430	65.66	93.8	2.272	325	26.23	12.61
111	2007	279	445	65.49	94	1.919	317.1	16.59	12.61
111	2007	279	500	65.59	94.2	1.615	313.8	20.79	12.61
111	2007	279	515	65.59	94.2	1.925	316.4	18.68	12.6
111	2007	279	530	65.42	94.4	2.252	320.3	20.23	12.6
111	2007	279	545	65.4	94.5	2.18	324.7	24.27	12.59
111	2007	279	600	65.5	94.7	1.735	322.4	28.35	12.59
111	2007	279	615	65.43	94.7	3.068	328	26.99	12.59
111	2007	279	630	65.25	95	3.213	337.3	18.37	12.58
111	2007	279	645	65.29	95.2	3.374	326	23.01	12.58
111	2007	279	700	65.36	95.2	3.696	329.2	22.9	12.66
111	2007	279	715	65.4	95.3	2.957	342.5	19.95	12.69
111	2007	279	730	65.3	95.4	3.013	353.6	19.3	12.84
111	2007	279	745	65.17	95.4	2.574	347.8	24.98	12.9
111	2007	279	800	65.18	95.4	4.057	317.6	29.77	13.09
111	2007	279	815	65.32	95.6	3.654	340.3	20.09	13.17
111	2007	279	830	65.64	95.6	1.879	341.1	26.12	13.2
111	2007	279	845	65.71	95.6	2.762	324.3	26.83	13.17
111	2007	279	900	65.8	95.5	2.846	316.6	28.47	13.17
111	2007	279	915	65.89	95.4	3.888	330.5	26.08	13.19
111	2007	279	930	66.15	94.7	5.197	349.9	17.66	13.27
111	2007	279	945	67.03	93	5.314	335.2	23.33	13.37
111	2007	279	1000	68.56	90.7	3.422	311	39.03	13.32
111	2007	279	1015	69	89.9	3.743	308.3	29.94	13.33
111	2007	279	1030	70	85	4.841	322.2	26.82	13.27
111	2007	279	1045	71.1	82.7	4.015	317.3	35.18	13.27
111	2007	279	1100	71.9	80.4	3.747	293.9	38.56	13.28
111	2007	279	1115	72.7	80.2	4.329	293.7	36.58	13.25
111	2007	279	1130	71.7	82.1	5.02	289.5	36.27	13.27
111	2007	279	1145	71.1	83.1	5.423	283.4	34.66	13.28
111	2007	279	1200	70.9	81.7	5.703	305.3	31.83	13.32
111	2007	279	1215	71.3	79.5	5.82	297.7	29.66	13.23
111	2007	279	1230	72.5	77.5	5.008	316.7	30.3	13.11

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	279	1245	73.7	75	4.984	309.7	31.84	13
111	2007	279	1300	74.9	73.4	4.45	310.5	37.37	12.95
111	2007	279	1315	75.3	74.3	5.332	301	40.84	12.95
111	2007	279	1330	75.6	72.3	5.342	297	36.13	12.89
111	2007	279	1345	75.2	73.2	5.322	301.3	31.27	12.86
111	2007	279	1400	75.2	73.1	6.356	308.3	29.18	12.84
111	2007	279	1415	75.2	72.4	5.647	297.8	32.65	12.83
111	2007	279	1430	74.9	74.5	6.698	312.4	30.98	12.81
111	2007	279	1445	74.9	73.3	5.443	303.3	32.64	12.81
111	2007	279	1500	75.3	71.6	5.87	310.6	37.63	12.8
111	2007	279	1515	75.7	72.3	6.235	311.9	31.62	12.79
111	2007	279	1530	75.3	72.2	6.477	315.6	22.54	12.78
111	2007	279	1545	75.5	72.6	6.025	306.5	29.17	12.77
111	2007	279	1600	75.8	71.9	5.959	300.1	26.14	12.77
111	2007	279	1615	75.5	72.5	5.91	314.6	26.55	12.76
111	2007	279	1630	75.2	73.8	5.642	302	31.15	12.75
111	2007	279	1645	74.3	76.5	5.9	305	30.5	12.75
111	2007	279	1700	73.6	79.2	5.475	311.7	29.94	12.73
111	2007	279	1715	73.5	79.5	4.424	300	29.06	12.73
111	2007	279	1730	72.9	82.1	5.006	306.4	23.58	12.73
111	2007	279	1745	71.9	83.9	5.544	318.9	26.71	12.72
111	2007	279	1800	71.2	86	4.315	316.5	28.68	12.71
111	2007	279	1815	70.5	87.8	4.567	313.4	26.55	12.71
111	2007	279	1830	69.94	89	3.994	315.9	32.97	12.7
111	2007	279	1845	69.59	89.5	3.7	309.4	22.94	12.69
111	2007	279	1900	69.35	89.7	3.233	311	30.15	12.68
111	2007	279	1915	69.23	90.2	3.777	307.8	31.48	12.67
111	2007	279	1930	69.33	90.3	4.311	311.3	29.59	12.66
111	2007	279	1945	69.38	90.6	4.127	312.5	26.86	12.65
111	2007	279	2000	69.4	90.7	4.083	320	26.01	12.64
111	2007	279	2015	69.53	90.8	4.47	316.2	25.19	12.63
111	2007	279	2030	69.59	91.1	4.837	323.5	24.67	12.61
111	2007	279	2045	69.57	91.1	4.133	323.5	19.71	12.6
111	2007	279	2100	69.55	91.3	4.623	315.2	22.46	12.59
111	2007	279	2115	69.52	91.2	3.912	317.5	18.54	12.59
111	2007	279	2130	69.46	91.1	4.27	327.5	21.4	12.58
111	2007	279	2145	69.4	91.1	3.299	325.3	18.5	12.57
111	2007	279	2200	69.59	89.6	4.478	331.3	16.33	12.56
111	2007	279	2215	69.84	88.6	3.65	322.8	16.76	12.55
111	2007	279	2230	69.94	87.5	3.894	328.2	15.84	12.54
111	2007	279	2245	69.93	87	3.878	329.3	14.99	12.54
111	2007	279	2300	69.83	86.5	3.876	319.4	18.3	12.54
111	2007	279	2315	69.83	85.9	3.561	318.9	20.19	12.54
111	2007	279	2330	70.1	84.1	4.732	327.6	20.6	12.53
111	2007	279	2345	70.6	83.2	3.946	326.7	22.78	12.54
111	2007	279	2400	70.6	82.4	3.527	321.9	25.15	12.53
111	2007	280	15	70.8	81.4	3.882	327.6	19.4	12.53
111	2007	280	30	71.1	79.8	4.21	326.4	20.95	12.54
111	2007	280	45	71.2	79.4	4.057	327.9	23.65	12.53
111	2007	280	100	71	79.8	4.277	328.4	22.16	12.53
111	2007	280	115	70.8	80.8	4.115	320.6	25.57	12.53
111	2007	280	130	70.3	82.5	4.224	322.2	17.42	12.53
111	2007	280	145	69.9	83.6	3.999	327.7	16.99	12.53
111	2007	280	200	69.77	83.9	2.776	329.9	23.2	12.54
111	2007	280	215	69.78	84	3.475	330.9	19.77	12.53
111	2007	280	230	69.89	83.7	3.37	335.1	17.26	12.54
111	2007	280	245	69.89	83.8	3.642	330.2	14.76	12.52
111	2007	280	300	69.73	83.9	2.55	351.5	26.08	12.54
111	2007	280	315	69.59	84	3.203	337.9	16.98	12.53
111	2007	280	330	69.46	84.2	3.829	334.4	24.36	12.53

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	280	345	69.56	83.9	3.92	336.2	19.59	12.53
111	2007	280	400	69.4	84.5	2.471	326.8	22.91	12.53
111	2007	280	415	69.11	85.1	0.981	335.9	41.03	12.53
111	2007	280	430	68.82	85.9	1.027	77.4	40.21	12.53
111	2007	280	445	68.7	86.3	0.255	249.3	2.714	12.53
111	2007	280	500	68.05	87.3	na	na	na	12.53
111	2007	280	515	67.65	88.4	na	na	na	12.53
111	2007	280	530	67.29	89.4	1.079	319.8	10.75	12.52
111	2007	280	545	67.23	89.8	1.607	318.2	12.14	12.53
111	2007	280	600	67.33	89.7	1.541	347.3	16.47	12.53
111	2007	280	615	67.59	89.2	2.455	344.5	25.38	12.53
111	2007	280	630	68.17	87.4	2.888	352.1	30.28	12.55
111	2007	280	645	68.76	84.2	3.775	358.8	20.51	12.55
111	2007	280	700	69.5	81.2	3.636	0.597	20.24	12.58
111	2007	280	715	70.2	78.3	4.345	1.434	21.47	12.6
111	2007	280	730	70.5	78.3	4.192	6.492	18.15	12.6
111	2007	280	745	70.4	78.9	3.207	4.366	25.04	12.57
111	2007	280	800	70.3	79	3.706	353.3	19.7	12.55
111	2007	280	815	70.4	79.4	2.042	27.3	25.98	12.55
111	2007	280	830	70.7	78.6	2.747	27.58	26.47	12.56
111	2007	280	845	71.6	75.3	3.65	37.79	19.81	12.57
111	2007	280	900	72.5	72.3	3.301	33.12	34.59	12.57
111	2007	280	915	73.5	69.01	4.311	30.09	36.95	12.56
111	2007	280	930	74	69.91	5.489	40.55	25.46	12.63
111	2007	280	945	74.6	69.24	4.579	65.94	29.31	12.58
111	2007	280	1000	74.5	69.98	5.785	60.3	29.19	12.57
111	2007	280	1015	74.9	68.77	5.054	79.7	32.01	12.81
111	2007	280	1030	75.1	68.61	5.91	93	40.42	12.84
111	2007	280	1045	75.1	67.64	4.8	105.3	41.37	12.88
111	2007	280	1100	76.5	63.62	5.628	93.7	36.85	12.69
111	2007	280	1115	77.6	61.32	6.557	109.2	39.47	12.6
111	2007	280	1130	77.9	60.37	6.382	76.8	33.28	12.57
111	2007	280	1145	77.7	59.03	5.765	90.9	37.7	12.68
111	2007	280	1200	78.5	58.16	6.797	116.9	37.84	12.73
111	2007	280	1215	78.5	58.39	6.255	104.8	33.72	12.83
111	2007	280	1230	78.3	59.16	5.725	98.8	39.92	13.15
111	2007	280	1245	77.9	58.36	5.739	102.2	35.14	13.06
111	2007	280	1300	78.1	58.99	5.477	93.7	30.71	13.05
111	2007	280	1315	78.3	58.62	4.549	119.8	33.02	12.96
111	2007	280	1330	78.9	58.69	5.147	116.9	34.72	12.93
111	2007	280	1345	77.5	60.36	4.212	128.6	38.99	13.06
111	2007	280	1400	76.8	61.36	4.645	148.1	34.5	13.28
111	2007	280	1415	74	76	5.971	193.6	31.91	13.33
111	2007	280	1430	70.4	77.9	7.08	193.6	21.74	13.18
111	2007	280	1445	69.66	77.9	6.672	203.9	25.05	12.99
111	2007	280	1500	68.95	78.4	7.83	192	21.33	12.92
111	2007	280	1515	68.22	78.1	8.2	200.1	17.06	12.88
111	2007	280	1530	67.7	77.9	8.53	201.1	20.23	12.85
111	2007	280	1545	67.21	79.2	8.17	201.1	20.11	12.83
111	2007	280	1600	67.2	77.7	8.42	201.1	23.53	12.81
111	2007	280	1615	66.56	80.4	8.89	200.8	19.07	12.79
111	2007	280	1630	65.81	79	7.41	206.5	19.19	12.77
111	2007	280	1645	65.83	79.7	7.73	201.5	21.62	12.76
111	2007	280	1700	65.57	81.5	7.18	199.4	16.04	12.74
111	2007	280	1715	65.14	81.3	7.3	202.2	18.12	12.72
111	2007	280	1730	64.89	82.1	6.672	195	21.34	12.71
111	2007	280	1745	64.56	82.2	5.836	191.5	22.61	12.68
111	2007	280	1800	64.57	82.4	5.036	191.6	22.77	12.67
111	2007	280	1815	64.25	82.6	6.579	192.5	20.52	12.65
111	2007	280	1830	64.12	82.9	5.995	190.9	20.91	12.63

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	280	1845	63.8	82.7	5.989	195.9	23.2	12.61
111	2007	280	1900	63.67	82.8	6.124	192.7	20.43	12.59
111	2007	280	1915	63.64	82.4	5.838	199.7	19.1	12.57
111	2007	280	1930	63.47	82.7	6.648	195.2	22.76	12.56
111	2007	280	1945	63.48	82.6	5.538	189.5	26.68	12.55
111	2007	280	2000	63.59	81.8	5.37	187.4	23.13	12.54
111	2007	280	2015	63.47	81.7	5.123	177.3	25.23	12.54
111	2007	280	2030	63.41	81.7	3.934	177.9	26.67	12.53
111	2007	280	2045	63.42	81.8	3.648	182.4	25.89	12.53
111	2007	280	2100	63.34	82.1	4.601	190.3	21.04	12.53
111	2007	280	2115	63.44	82.1	4.397	204.4	20.12	12.53
111	2007	280	2130	63.59	82.4	4.389	198.1	19.15	12.52
111	2007	280	2145	63.65	82.1	3.91	190.2	20.92	12.53
111	2007	280	2200	63.81	82	3.207	186.1	25.82	12.52
111	2007	280	2215	63.72	81.7	3.972	166.7	19.74	12.52
111	2007	280	2230	63.69	82.1	3.743	176.8	24.71	12.52
111	2007	280	2245	63.7	82.3	3.173	182.5	26.55	12.51
111	2007	280	2300	63.78	83.1	2.553	177.1	27.8	12.51
111	2007	280	2315	63.59	84.3	1.857	231.7	27.49	12.51
111	2007	280	2330	63.6	83.2	2.903	212.5	24.23	12.52
111	2007	280	2345	63.75	82.4	2.713	207.8	20.55	12.52
111	2007	280	2400	63.75	82.3	2.552	210.4	25.31	12.52
111	2007	281	15	63.67	82.9	1.91	246.7	33.85	12.51
111	2007	281	30	63.53	83.6	1.774	248.4	33.87	12.51
111	2007	281	45	63.52	84.1	2.061	254.8	41.7	12.5
111	2007	281	100	63.34	85.8	3.09	240.4	35.03	12.51
111	2007	281	115	62.65	87	3.318	234.9	28.44	12.51
111	2007	281	130	62.52	86.7	2.615	242.4	29.76	12.51
111	2007	281	145	62.69	86.2	3.102	249.6	34.46	12.51
111	2007	281	200	62.86	86	3.253	275.3	37.17	12.51
111	2007	281	215	63.09	85.9	2.898	267.3	40.63	12.51
111	2007	281	230	63.34	86	3.91	257.3	40.18	12.51
111	2007	281	245	63.37	87.2	3.93	266.3	39.15	12.51
111	2007	281	300	63.31	88.1	2.459	297.5	35.7	12.51
111	2007	281	315	63.28	89.4	2.29	305.9	26.07	12.51
111	2007	281	330	63.03	90.7	3.094	297.1	28.04	12.51
111	2007	281	345	62.98	91.8	2.381	292.7	38.38	12.51
111	2007	281	400	63.08	92.5	2.856	278	29.47	12.51
111	2007	281	415	63.25	92.7	2.761	285.2	37.29	12.51
111	2007	281	430	63.5	92.8	2.975	299.9	36.18	12.51
111	2007	281	445	63.84	92.8	3.189	309.3	25.44	12.51
111	2007	281	500	64.18	92.7	3.849	322.1	17.84	12.51
111	2007	281	515	64.43	92.6	3.432	321.8	28.03	12.51
111	2007	281	530	64.65	92.4	3.918	337	23.17	12.52
111	2007	281	545	64.79	92.5	3.237	328.9	23.33	12.53
111	2007	281	600	64.76	92.6	2.888	305.3	20.67	12.55
111	2007	281	615	64.87	92.4	3.624	313.9	25.79	12.53
111	2007	281	630	65.2	91.6	4.651	322.3	22.27	12.54
111	2007	281	645	65.76	90.4	5.586	327.3	20.21	12.55
111	2007	281	700	66.03	90	5.131	323.9	23.1	12.55
111	2007	281	715	66.17	89.8	5.975	320.7	22.23	12.55
111	2007	281	730	66.32	89.3	6.225	328.8	26.32	12.55
111	2007	281	745	66.48	89	5.804	322.9	21.45	12.56
111	2007	281	800	66.66	88.8	5.437	324.4	20.51	12.85
111	2007	281	815	66.79	88.5	5.85	326.1	24.81	12.86
111	2007	281	830	67.08	88	6.646	331.3	25.02	12.95
111	2007	281	845	67.36	87.6	6.795	325	27.51	13
111	2007	281	900	67.59	87.1	5.794	321.6	29.76	13.21
111	2007	281	915	67.99	85.7	6.074	334.5	21.73	13.1
111	2007	281	930	68.34	84.9	6.597	334.4	24.47	13.13

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	281	945	68.46	84.4	7.18	336.9	21.03	13
111	2007	281	1000	69.39	81.1	7.97	335.2	24.87	12.99
111	2007	281	1015	70.5	77.7	7.75	330.2	20.78	12.93
111	2007	281	1030	71.4	77.8	9.18	332.1	18.74	12.85
111	2007	281	1045	72.4	75.6	8.06	331.7	26.86	12.81
111	2007	281	1100	72.8	74.4	8.57	331.7	19.05	12.83
111	2007	281	1115	73.3	75	8.07	330.9	27.1	12.77
111	2007	281	1130	73.5	72.9	7.01	328.8	23.18	12.75
111	2007	281	1145	75.5	68.64	6.63	320.4	23.96	12.73
111	2007	281	1200	75.6	69.81	7.53	329.8	24.93	12.7
111	2007	281	1215	76.4	66.43	7.48	319.4	27.72	12.68
111	2007	281	1230	78.5	60.81	5.526	316.1	36.82	12.65
111	2007	281	1245	80	57.16	8.34	347.7	22.56	12.62
111	2007	281	1300	80.8	55.52	8.16	342.3	28.08	12.6
111	2007	281	1315	81.7	55.28	7.99	339.5	25.4	12.58
111	2007	281	1330	81.9	57.72	6.021	321.8	35.95	12.56
111	2007	281	1345	81.7	54.24	5.062	321.7	42.32	12.55
111	2007	281	1400	83.2	54.48	6.918	333.3	24.05	12.53
111	2007	281	1415	83.1	54.41	6.799	332.6	22.91	12.53
111	2007	281	1430	83.6	53.44	6.914	331.1	32.03	12.52
111	2007	281	1445	84.1	51.76	7.64	350.8	32.32	12.52
111	2007	281	1500	84.8	52.79	7.31	349.8	28.22	12.52
111	2007	281	1515	84.5	53.43	7.02	334.6	19.08	12.51
111	2007	281	1530	83.9	56.27	5.312	322.3	31.26	12.52
111	2007	281	1545	82.9	57.51	4.911	326.8	30.89	12.51
111	2007	281	1600	81.9	58.38	4.752	320.9	31.4	12.52
111	2007	281	1615	82.9	56.28	3.61	319.3	43.89	12.51
111	2007	281	1630	83.7	55.41	3.831	306.7	31.87	12.51
111	2007	281	1645	84.8	50.97	4.53	321.5	45.59	12.51
111	2007	281	1700	85.6	49.13	5.777	353.2	26.44	12.51
111	2007	281	1715	85.7	49.13	6.098	349.1	30.86	12.52
111	2007	281	1730	85.5	53.21	4.272	328.1	31.83	12.51
111	2007	281	1745	82.9	60.33	2.703	295.9	29.05	12.51
111	2007	281	1800	81.6	62.17	2.309	299.1	34.34	12.51
111	2007	281	1815	80.8	59.89	2.105	312.7	26.28	12.51
111	2007	281	1830	81.3	62.57	2.592	310.3	30.71	12.51
111	2007	281	1845	79.2	68.01	1.688	282.7	21.77	12.52
111	2007	281	1900	77.7	69.05	1.763	313.4	22.93	12.51
111	2007	281	1915	79.4	60.3	3.253	338.5	19.46	12.52
111	2007	281	1930	81.1	58.54	4.283	348	20.15	12.51
111	2007	281	1945	81.4	58.37	4.069	349	24.32	12.51
111	2007	281	2000	81.4	58.74	3.811	337.3	21.63	12.51
111	2007	281	2015	81	60.51	2.554	327	19.79	12.5
111	2007	281	2030	79.8	65.15	1.883	303.8	34.29	12.51
111	2007	281	2045	78.5	66.69	2.439	329.4	17.8	12.51
111	2007	281	2100	78.6	63.65	2.856	333.4	25.72	12.49
111	2007	281	2115	79.7	61.25	3.64	354.3	25.58	12.49
111	2007	281	2130	80	60.45	3.543	354.3	26.85	12.5
111	2007	281	2145	80.2	59.71	4.103	347.8	22.16	12.5
111	2007	281	2200	80.2	60.28	3.614	352.3	24.9	12.48
111	2007	281	2215	80.1	60.48	3.138	356.5	22.6	12.5
111	2007	281	2230	79.8	61.75	2.711	358.8	23.48	12.48
111	2007	281	2245	79	63.59	1.593	354.4	31.03	12.48
111	2007	281	2300	78.1	66.77	0.303	289.1	40.27	12.48
111	2007	281	2315	76.1	72.1	0.333	245.7	7.85	12.48
111	2007	281	2330	74.3	76.1	0.541	333.1	25.64	12.48
111	2007	281	2345	73.3	78.3	0.225	0.274	19.45	12.48
111	2007	281	2400	73	79.6	0.27	1.314	25.54	12.48
111	2007	282	15	72.1	81.7	0.79	316.4	11.84	12.47
111	2007	282	30	71.7	82.2	0.57	31.33	18.56	12.47

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	282	45	71.5	83.7	1.642	329.2	15.22	12.47
111	2007	282	100	71.3	82.9	2.034	325.5	11.38	12.47
111	2007	282	115	71.6	81.9	1.51	332.3	18.37	12.46
111	2007	282	130	71.5	82.1	2.131	331	5.05	12.47
111	2007	282	145	71.3	82.5	2.081	331.7	15.05	12.47
111	2007	282	200	71.2	82.8	2.02	331.5	8.21	12.46
111	2007	282	215	71.3	81.5	3.019	336.2	11.97	12.46
111	2007	282	230	72	80.3	3.32	342.3	21.81	12.46
111	2007	282	245	72.2	80.2	3.156	342.4	12.93	12.46
111	2007	282	300	72.2	80.1	3.553	338.4	17.62	12.46
111	2007	282	315	72.4	79.4	4.075	336	18.09	12.46
111	2007	282	330	72.5	79.2	3.092	338.2	23.94	12.46
111	2007	282	345	72.6	77.7	3.588	341.7	22.79	12.47
111	2007	282	400	72.8	76.7	3.551	340.8	23.4	12.46
111	2007	282	415	73.2	75.7	3.305	342	18.82	12.46
111	2007	282	430	73.1	75.6	2.604	344.1	24.59	12.46
111	2007	282	445	73	76	2.544	324.8	24.28	12.46
111	2007	282	500	72.5	77.2	0.68	280.3	18.51	12.46
111	2007	282	515	72.2	78.5	na	na	na	12.46
111	2007	282	530	71.2	82.1	1.77	326	11.73	12.66
111	2007	282	545	70.8	82.4	1.142	3.669	31.1	12.68
111	2007	282	600	71	81.9	0.096	11.38	11.41	12.7
111	2007	282	615	71.2	80.9	1.48	344.3	14.04	12.99
111	2007	282	630	72.2	78	1.433	359.5	27.03	13.03
111	2007	282	645	72.7	75.2	0.859	96.4	57.57	12.9
111	2007	282	700	73.3	74.2	1.442	152	45.71	12.91
111	2007	282	715	73.1	75.2	1.991	91.6	36.4	13.22
111	2007	282	730	73	77.2	2.544	88.8	38.73	13.25
111	2007	282	745	73.1	77.6	2.542	93.2	49.31	13.31
111	2007	282	800	73.1	77.7	2.671	117.1	47.46	13.35
111	2007	282	815	70.7	82.2	6.734	190.4	39.3	13.33
111	2007	282	830	65.72	83.5	7.65	190.8	25.73	13.39
111	2007	282	845	65.13	84.3	6.926	188.3	25.02	13.39
111	2007	282	900	65.13	83.9	5.866	188.4	26.34	13.32
111	2007	282	915	65.44	82.9	5.54	165.2	28.23	13.33
111	2007	282	930	65.49	80.1	6.827	162.5	28.5	13.35
111	2007	282	945	65.25	78.9	6.777	166.7	22.92	13.41
111	2007	282	1000	64.83	78.7	7.01	162.2	27.94	13.41
111	2007	282	1015	64.37	68.83	7.22	163	42.32	13.41
111	2007	282	1030	63.18	63.91	8.1	164.8	22.57	13.4
111	2007	282	1045	63.04	62.21	6.571	162.6	41.67	13.4
111	2007	282	1100	63	60.7	7.51	162.6	23.13	13.4
111	2007	282	1115	63.23	60.2	6.396	176.8	30.19	13.4
111	2007	282	1130	63.52	58.9	5.626	177.5	27.83	13.4
111	2007	282	1145	63.35	62.01	7.03	159.8	24.8	13.4
111	2007	282	1200	63.36	63.71	6.402	183.8	29.46	13.4
111	2007	282	1215	63.27	66.96	6.053	185.2	27.6	13.4
111	2007	282	1230	62.71	67.42	7.37	188.8	23.22	13.41
111	2007	282	1245	62.63	68.8	6.855	179.5	31.82	13.41
111	2007	282	1300	62.36	65.85	8.4	181	23.92	13.43
111	2007	282	1315	62.34	64.82	7.16	190.7	33.27	13.43
111	2007	282	1330	62.18	63.58	7.28	188.6	30.72	13.45
111	2007	282	1345	61.73	63.55	7.43	188.8	22.41	13.45
111	2007	282	1400	61.62	64.45	7.58	192.6	25.15	13.45
111	2007	282	1415	62.08	62.84	6.219	194.4	28.74	13.46
111	2007	282	1430	61.72	66.06	6.569	189.7	27.98	13.47
111	2007	282	1445	61.74	68.06	6.936	183.1	27.91	13.49
111	2007	282	1500	61.64	66.39	6.94	175.8	29.38	13.03
111	2007	282	1515	61.85	63.68	7.39	190.9	23.5	12.93
111	2007	282	1530	61.95	65.69	7.08	188.9	28.12	12.9

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	282	1545	62.09	67.14	5.554	185	31.6	12.87
111	2007	282	1600	61.82	69.48	6.108	180.2	31.18	12.84
111	2007	282	1615	61.76	69.04	5.937	186	26.22	12.83
111	2007	282	1630	61.82	67.21	6.626	194.5	23.78	12.82
111	2007	282	1645	61.72	67.95	7.01	192.5	25.27	12.8
111	2007	282	1700	61.46	68.05	7.38	196	21.56	12.8
111	2007	282	1715	61.48	67.71	5.763	203.6	29.11	12.79
111	2007	282	1730	61.38	68.15	7.26	201.7	23.84	12.77
111	2007	282	1745	61.38	69.02	6.811	200.4	21.9	12.77
111	2007	282	1800	61.45	69.59	7.45	207.2	25.6	12.76
111	2007	282	1815	61.48	70.1	8.08	205.9	21.08	12.76
111	2007	282	1830	61.47	69.05	7.15	205.1	21.79	12.75
111	2007	282	1845	61.54	71	5.709	209.6	22.49	12.74
111	2007	282	1900	61.54	70.6	6.404	206.6	21.41	12.73
111	2007	282	1915	61.64	71.4	6.509	204.5	24.54	12.74
111	2007	282	1930	61.57	71.1	6.861	200.5	23.74	12.72
111	2007	282	1945	61.6	70.9	6.325	205.7	24.03	12.71
111	2007	282	2000	61.55	72.2	6.682	210.5	20.94	12.72
111	2007	282	2015	61.49	72.3	5.866	215	29.32	12.71
111	2007	282	2030	61.47	72.3	5.884	213.9	29.53	12.7
111	2007	282	2045	61.42	72.9	6.36	213.4	26.66	12.69
111	2007	282	2100	61.34	72.8	4.277	221.5	36.15	12.69
111	2007	282	2115	61.35	72.4	2.06	2.29	74.7	12.69
111	2007	282	2130	61.33	72	2.274	192.9	34.98	12.67
111	2007	282	2145	60.57	78.1	3.392	210.9	40.19	12.68
111	2007	282	2200	59.69	81.3	3.31	210.1	25.53	12.67
111	2007	282	2215	58.84	83.6	4.351	250.5	55.63	12.67
111	2007	282	2230	58.95	84.4	4.901	219.6	28.88	12.66
111	2007	282	2245	58.21	88.3	5.191	226.5	27.39	12.66
111	2007	282	2300	57.72	90.5	5.103	221.8	26.37	12.65
111	2007	282	2315	57.85	90.4	6.335	205.8	19.51	12.65
111	2007	282	2330	58.1	90.5	6.414	207.3	18.22	12.64
111	2007	282	2345	58.41	90.9	4.887	210.5	22.75	12.64
111	2007	282	2400	58.7	90.7	3.906	216.1	27.4	12.63
111	2007	283	15	59.03	90.3	5.775	208.5	18.72	12.63
111	2007	283	30	59.22	89.9	4.788	220	26.02	12.62
111	2007	283	45	59.34	90	5.788	218.2	26.4	12.62
111	2007	283	100	59.71	90.2	6.078	220.4	25.09	12.61
111	2007	283	115	59.98	90.6	5.56	218.4	30.16	12.61
111	2007	283	130	60.22	90.4	5.906	216.9	22.72	12.61
111	2007	283	145	60.51	89.9	7.15	208.8	18.46	12.61
111	2007	283	200	60.75	90	5.929	202.9	20.31	12.61
111	2007	283	215	61.01	89.9	5.999	204.2	19.01	12.61
111	2007	283	230	61.15	90.1	5.044	204.9	23.01	12.61
111	2007	283	245	61.29	89.8	5.483	198.7	21.08	12.61
111	2007	283	300	61.35	90.1	4.583	197.7	24.68	12.6
111	2007	283	315	61.37	90.4	4.353	195.4	24.22	12.6
111	2007	283	330	61.41	91.1	5.509	204	20.59	12.6
111	2007	283	345	61.45	91.3	4.774	193.7	24.1	12.6
111	2007	283	400	61.46	91.6	3.97	184	27.07	12.59
111	2007	283	415	61.28	92.1	3.444	168.2	28.57	12.6
111	2007	283	430	61.33	92.2	4.109	156.8	20.09	12.6
111	2007	283	445	61.4	92.3	3.418	165.2	26.47	12.6
111	2007	283	500	61.47	92.4	3.561	157.5	21.72	12.61
111	2007	283	515	61.69	92.6	3.312	182.8	23.65	12.69
111	2007	283	530	62	92.1	3.493	189.1	30.99	12.85
111	2007	283	545	62.23	91.4	4.536	201.2	28.83	13.05
111	2007	283	600	62.44	91	4.833	202.7	23.01	13.47
111	2007	283	615	62.55	91.2	4.762	200.2	23.47	13.62
111	2007	283	630	62.39	91.6	5.181	200.4	18.81	13.6

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	283	645	62.38	91.9	3.499	193.5	24.37	13.58
111	2007	283	700	62.28	92.3	3.104	179.9	26.2	13.56
111	2007	283	715	61.98	92.7	3.362	164.8	26.05	13.33
111	2007	283	730	62.02	93.1	3.684	175.2	27.66	13.22
111	2007	283	745	62.22	93.3	3.001	187.4	29.68	13.54
111	2007	283	800	62.8	92.7	4.825	201.7	28.59	13.53
111	2007	283	815	63.4	91.8	5.038	207.6	26.72	13.52
111	2007	283	830	63.55	91.7	5.415	208.7	23.34	13.51
111	2007	283	845	63.66	91.5	5.183	205.3	24.42	13.51
111	2007	283	900	63.8	90.4	5.834	205.8	18.75	13.51
111	2007	283	915	64.09	89.6	4.873	209	25.4	13.51
111	2007	283	930	64.11	89.8	5.213	193	26.79	13.51
111	2007	283	945	64.16	90.3	3.725	180.2	31.35	13.51
111	2007	283	1000	63.97	91	4.367	188.1	27.24	13.49
111	2007	283	1015	63.97	91.3	5.219	191.2	30.05	13.48
111	2007	283	1030	63.94	91.7	6.023	198.1	18.57	13.48
111	2007	283	1045	63.78	91.9	5.721	201.9	21.84	13.47
111	2007	283	1100	63.91	91.6	5.896	202.6	23.15	13.47
111	2007	283	1115	64.22	90.9	5.659	205.6	19.96	13.48
111	2007	283	1130	64.36	90.6	5.751	208	22.76	13.48
111	2007	283	1145	64.52	91.2	4.444	216.9	26.72	13.49
111	2007	283	1200	64.54	91.7	5.032	213.7	26.31	13.49
111	2007	283	1215	64.45	92.2	5.01	221.9	26.67	13.48
111	2007	283	1230	64.55	92.7	4.47	215	24.49	13.45
111	2007	283	1245	64.67	93.2	4.631	218.4	30.4	13.39
111	2007	283	1300	64.78	93.3	4.033	225.9	26.8	13.36
111	2007	283	1315	65.01	93.2	3.851	219.2	27.47	13.24
111	2007	283	1330	65.54	92.9	4.536	216.5	20.88	13.13
111	2007	283	1345	65.75	92.8	3.769	230.9	30.08	13.19
111	2007	283	1400	65.83	93	3.821	214.3	23.08	13.19
111	2007	283	1415	65.77	93.1	4.643	204	18.1	13.09
111	2007	283	1430	65.63	93.2	3.277	230.2	41.33	12.98
111	2007	283	1445	65.48	93.2	2.383	231.4	26.68	12.9
111	2007	283	1500	66	92.6	1.199	283.2	38.17	12.87
111	2007	283	1515	65.69	92.6	1.01	258.2	21.75	12.84
111	2007	283	1530	65.93	92.1	1.392	176.4	36.3	12.82
111	2007	283	1545	66.53	90.7	1.646	144	45.16	12.81
111	2007	283	1600	66.64	89.4	3.015	181.6	28.57	12.79
111	2007	283	1615	66.63	89.9	2.548	171.9	37.6	12.78
111	2007	283	1630	66.56	89.8	3.152	191.4	42.6	12.77
111	2007	283	1645	66.05	90.5	3.501	168.9	31.08	12.76
111	2007	283	1700	66.03	90.6	3.914	172.8	29.7	12.75
111	2007	283	1715	66.22	89.4	4.865	175.9	34.2	12.73
111	2007	283	1730	66.18	89.3	5.09	170.9	30.81	12.73
111	2007	283	1745	65.77	89.5	4.683	176.6	29.7	12.71
111	2007	283	1800	65.19	90.1	4.337	167.2	31.14	12.71
111	2007	283	1815	64.63	90.5	5.264	169	28.37	12.7
111	2007	283	1830	64.17	91.2	4.561	174	33.55	12.69
111	2007	283	1845	63.84	91.4	5.389	161.4	26.36	12.69
111	2007	283	1900	63.47	91.8	4.929	169.4	33.24	12.68
111	2007	283	1915	63.25	91.7	5.127	166.1	29.07	12.67
111	2007	283	1930	62.97	91.9	4.941	170.4	30.62	12.67
111	2007	283	1945	62.72	92.2	5.209	160	39.14	12.67
111	2007	283	2000	62.57	92.3	4.341	168.1	38.25	12.65
111	2007	283	2015	62.39	92.4	4.577	153.9	52.85	12.65
111	2007	283	2030	62.21	92.4	4.692	173.3	41.4	12.65
111	2007	283	2045	62.01	92.1	5.242	160.9	32.29	12.65
111	2007	283	2100	61.76	92.5	4.905	163.6	26.58	12.64
111	2007	283	2115	61.74	92.6	4.401	167.9	29.21	12.64
111	2007	283	2130	61.72	92.7	2.606	164.7	63.56	12.63

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	283	2145	61.57	92.8	3.608	170.7	37.88	12.63
111	2007	283	2200	61.48	92.8	3.523	153.4	47.07	12.63
111	2007	283	2215	61.47	92.8	2.351	152.7	77.1	12.63
111	2007	283	2230	61.3	93.1	3.586	167.6	50.74	12.63
111	2007	283	2245	61.2	93.1	3.048	167	52.62	12.63
111	2007	283	2300	61.17	93.1	2.024	152.9	71.7	12.63
111	2007	283	2315	61.06	93.3	1.726	148.5	66.72	12.62
111	2007	283	2330	61.03	93.3	1.962	131.1	55.81	12.61
111	2007	283	2345	60.97	93.2	2.657	134.3	63.86	12.61
111	2007	283	2400	60.93	93.4	1.802	135.9	77	12.61
111	2007	284	15	60.87	93.3	2.864	157.8	63.42	12.61
111	2007	284	30	60.84	93.3	1.964	161.5	77.2	12.61
111	2007	284	45	60.76	93.2	1.907	149.5	78.3	12.6
111	2007	284	100	60.72	93.3	2.274	140.9	67.75	12.6
111	2007	284	115	60.71	93.3	2.27	152.6	67.82	12.59
111	2007	284	130	60.66	93.2	3.648	171.1	41.18	12.59
111	2007	284	145	60.72	93.1	3.527	169.9	34.33	12.59
111	2007	284	200	60.77	92.9	3.374	176.3	32.75	12.59
111	2007	284	215	60.78	92.3	4.615	161.2	24.21	12.59
111	2007	284	230	60.84	92.2	2.272	137.6	79.1	12.59
111	2007	284	245	60.62	92.3	2.764	168.4	62.26	12.59
111	2007	284	300	60.47	92.2	4.492	165.8	30.49	12.59
111	2007	284	315	60.35	92.6	5.634	163.4	24.56	12.59
111	2007	284	330	60.15	92.5	3.723	176.4	49.36	12.58
111	2007	284	345	59.99	92.6	4.403	168.9	43.33	12.59
111	2007	284	400	60.06	92.5	3.046	158.1	61.89	12.59
111	2007	284	415	60.18	92.3	3.598	176.3	42.64	12.59
111	2007	284	430	60.35	91.8	3.071	157.6	39.24	12.58
111	2007	284	445	60.51	91.5	1.91	145.8	52.55	12.59
111	2007	284	500	60.53	91.3	1.217	143.8	47.27	12.61
111	2007	284	515	60.47	91.2	1.978	104.4	49.47	12.67
111	2007	284	530	60.35	91.3	2.092	139.8	63.06	12.83
111	2007	284	545	60.34	91.3	1.484	129.3	58.37	13.04
111	2007	284	600	60.34	91.4	1.604	130.2	52.44	13.42
111	2007	284	615	60.35	91.4	2.504	113	58.22	13.56
111	2007	284	630	60.33	91.2	2.681	131.3	66.96	13.54
111	2007	284	645	60.41	91	2.521	156.1	63.97	13.53
111	2007	284	700	60.32	90.7	2.961	141.9	81.2	13.52
111	2007	284	715	60.28	90.8	3.708	160.2	51.51	13.26
111	2007	284	730	60.34	90.5	3.309	142.9	77.1	13.2
111	2007	284	745	60.39	90.3	3.412	141.7	63.88	13.49
111	2007	284	800	60.38	90.2	3.596	142.7	58.95	13.5
111	2007	284	815	60.47	89.7	3.579	154.2	45.25	13.48
111	2007	284	830	60.49	89.7	5.306	167.1	27.22	13.48
111	2007	284	845	60.75	89.2	3.757	166.1	43.79	13.48
111	2007	284	900	60.95	88.5	4.285	165.7	40.02	13.48
111	2007	284	915	61.1	88	4.806	169.9	38.57	13.47
111	2007	284	930	61.31	87.5	4.683	157.3	39.73	13.47
111	2007	284	945	61.38	87.8	2.983	124	84.6	13.46
111	2007	284	1000	61.39	88.1	4.788	170.9	54.23	13.47
111	2007	284	1015	61.4	88.3	4.542	171.7	52.84	13.46
111	2007	284	1030	61.49	88	5.808	159.7	32.24	13.45
111	2007	284	1045	61.89	86.6	5.779	162	36.43	13.34
111	2007	284	1100	62.38	85.5	7.38	159.9	28.78	13.32
111	2007	284	1115	62.95	85.5	6.416	165	41.64	13.45
111	2007	284	1130	63.15	85.5	6.176	159.4	32.78	13.43
111	2007	284	1145	63.36	85.1	7.64	170.1	30.65	13.45
111	2007	284	1200	63.85	84.5	7.19	168.3	32.47	13.44
111	2007	284	1215	64.34	84.1	7.83	174.8	34.5	13.39
111	2007	284	1230	64.31	85.6	8.16	182.4	26.54	13.37

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	284	1245	64	85.4	6.66	169.8	32.18	13.44
111	2007	284	1300	63.82	86.6	7.4	171.5	34.13	13.43
111	2007	284	1315	63.93	85.8	5.328	165.1	33.75	13.42
111	2007	284	1330	63.8	86.9	7.56	164.6	31.53	13.32
111	2007	284	1345	63.1	89.8	7.04	166.4	26.39	13.43
111	2007	284	1400	62.65	91.5	7.91	161.4	25.64	13.13
111	2007	284	1415	62.63	92	7.06	161.4	30.83	13.17
111	2007	284	1430	62.76	91.8	4.202	161.6	48.49	13.07
111	2007	284	1445	62.93	91.1	4.925	164.8	40.26	13
111	2007	284	1500	63.08	90.9	4.174	144.2	53.64	12.9
111	2007	284	1515	63.06	90.6	3.731	149.9	55.39	12.87
111	2007	284	1530	63.07	90.2	4.182	148	51.31	12.84
111	2007	284	1545	62.64	91.3	4.677	148.1	55.68	12.83
111	2007	284	1600	62.41	91.8	3.757	140.7	65.37	12.81
111	2007	284	1615	62.19	92.7	7.35	157.7	40.11	12.8
111	2007	284	1630	62.12	93	9.91	159.6	26.01	12.79
111	2007	284	1645	62.09	93.1	10.74	159.1	29.6	12.78
111	2007	284	1700	61.95	93.5	11.52	167.3	32.82	12.77
111	2007	284	1715	61.91	93.9	10.77	174.5	29.45	12.76
111	2007	284	1730	61.81	94.2	11.55	168.7	28.29	12.76
111	2007	284	1745	61.79	94.3	12.57	168.3	28.7	12.75
111	2007	284	1800	61.89	94.6	8.51	172.7	29.27	12.74
111	2007	284	1815	62.13	94.8	11.47	195.3	27.14	12.72
111	2007	284	1830	62.5	94.8	10.4	188.8	28.17	12.72
111	2007	284	1845	62.74	94.9	9.83	182	28.53	12.71
111	2007	284	1900	63.03	94.9	7.84	179	27.18	12.7
111	2007	284	1915	63.13	94.8	7.64	190.6	30.87	12.7
111	2007	284	1930	63.46	94.2	7.82	175.1	28.15	12.68
111	2007	284	1945	63.45	93.8	7.41	167.2	28.21	12.67
111	2007	284	2000	63.51	93.5	3.686	153.2	62.87	12.68
111	2007	284	2015	63.43	93.4	2.22	157	65.77	12.67
111	2007	284	2030	63.59	93.4	2.302	150.7	49.28	12.67
111	2007	284	2045	63.52	93.4	1.44	110.2	52.79	12.66
111	2007	284	2100	63.57	93.7	1.75	140.1	51.78	12.67
111	2007	284	2115	64.08	93.7	2.146	157.7	58.95	12.65
111	2007	284	2130	64.3	94	2.272	179.8	50.6	12.65
111	2007	284	2145	64.55	93.5	2.093	237.6	23.54	12.64
111	2007	284	2200	64.35	93.1	3.616	253.7	32.52	12.64
111	2007	284	2215	63.64	92.7	5.173	257.3	43.07	12.63
111	2007	284	2230	62.41	92.6	6.051	297.9	35.15	12.63
111	2007	284	2245	61.5	92.8	4.69	308	29.3	12.63
111	2007	284	2300	60.96	92.8	5.143	299.5	30.44	12.63
111	2007	284	2315	60.44	93	4.931	305.9	34	12.62
111	2007	284	2330	60.03	92.3	5.574	305	34.14	12.61
111	2007	284	2345	58.85	91.6	6.197	317.8	24.94	12.61
111	2007	284	2400	58.16	90.9	6.809	317.9	27.14	12.61
111	2007	285	15	58.02	90.7	5.266	312.2	34.07	12.61
111	2007	285	30	57.97	90.2	5.199	312.7	27.66	12.6
111	2007	285	45	57.77	89.4	5.364	304	33.05	12.59
111	2007	285	100	57.49	89.2	4.615	318.4	31.18	12.59
111	2007	285	115	57.45	88.5	4.466	297.8	36.07	12.58
111	2007	285	130	57.4	86.8	6.549	313.5	28.48	12.58
111	2007	285	145	57.11	85.8	6.378	305.5	32.49	12.58
111	2007	285	200	56.8	85.4	6.422	310.1	33.66	12.57
111	2007	285	215	56.5	86.1	7.41	313.7	28.43	12.57
111	2007	285	230	56.03	85.6	6.861	318.3	31.69	12.57
111	2007	285	245	55.69	86	6.438	312.2	27.97	12.57
111	2007	285	300	55.65	85.4	5.348	313.3	30.88	12.57
111	2007	285	315	55.93	83.8	5.524	306.6	34.13	12.56
111	2007	285	330	56.16	81.8	5.715	310.3	29.1	12.56

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	285	345	56.19	81.9	4.889	295.6	37.25	12.56
111	2007	285	400	56.04	81.8	4.403	303.4	37.46	12.55
111	2007	285	415	55.99	81.6	5.109	301.6	32.53	12.56
111	2007	285	430	55.8	81.5	4.998	299.9	37.38	12.56
111	2007	285	445	55.56	82.1	3.797	297.7	37.31	12.57
111	2007	285	500	55.38	82.8	4.488	307.4	28.28	12.58
111	2007	285	515	55.33	82.9	3.773	296	36.86	12.68
111	2007	285	530	55.33	83.5	3.213	287.3	35.68	12.73
111	2007	285	545	55.4	82.3	3.259	317.5	37.52	12.96
111	2007	285	600	55.72	81.9	2.574	309	39.01	13.24
111	2007	285	615	55.92	82.5	2.951	299	31.2	13.28
111	2007	285	630	55.88	84.2	3.684	312.4	31.51	13.31
111	2007	285	645	55.8	86	3.896	324.1	25.28	13.34
111	2007	285	700	55.65	87.4	3.32	335	28.83	13.31
111	2007	285	715	55.37	88.8	2.419	0.512	30.84	13.32
111	2007	285	730	55.22	89.1	2.663	49.19	16.17	13.37
111	2007	285	745	55.34	88.5	3.372	41.8	15.87	13.53
111	2007	285	800	55.37	88.2	3.418	47.23	18.09	13.51
111	2007	285	815	55.47	88	3.878	29.34	19.64	13.49
111	2007	285	830	55.65	87.4	4.228	5.71	26.63	13.49
111	2007	285	845	56.18	86.6	5.493	26.27	20.68	13.4
111	2007	285	900	56.47	87	4.587	34.47	27.5	13.48
111	2007	285	915	56.66	85.4	6.833	31.83	24.43	13.47
111	2007	285	930	57.85	82.2	8.34	30.84	25.4	13.47
111	2007	285	945	58.07	80.8	10.62	39.06	22.62	13.47
111	2007	285	1000	56.95	85.8	9.68	25.2	21.28	13.45
111	2007	285	1015	55.74	84.7	9.23	20.67	23.69	13.43
111	2007	285	1030	56.73	78.4	9.49	23.53	27.74	13.43
111	2007	285	1045	57.87	72.2	10.34	36.88	24.59	13.43
111	2007	285	1100	58.58	69.05	9.65	27.78	26.88	13.43
111	2007	285	1115	58.75	67.88	10.74	40.85	29.9	13.43
111	2007	285	1130	58.9	63.83	12.73	26.88	27.75	13.42
111	2007	285	1145	59.38	61.16	12.62	21.77	24.83	13.42
111	2007	285	1200	59.77	59.55	11.15	24.03	26.56	13.41
111	2007	285	1215	59.79	58.45	11.22	30.64	24.81	13.41
111	2007	285	1230	60.08	57.61	10.57	23.22	25.84	13.4
111	2007	285	1245	59.59	55	11.49	31.69	27.16	13.4
111	2007	285	1300	60.04	55.8	11.92	15.25	30.58	13.4
111	2007	285	1315	59.97	53.16	11.88	20.36	22.38	13.4
111	2007	285	1330	60.52	51.92	9.03	27.37	29.35	13.41
111	2007	285	1345	60.48	51.62	9.97	30.7	28.72	13.41
111	2007	285	1400	60.67	50.54	11.75	18.18	26.36	13.42
111	2007	285	1415	60.73	50.34	11.52	22.12	26.49	13.32
111	2007	285	1430	60.97	49.93	9.9	19.59	30.02	13.02
111	2007	285	1445	60.87	48.26	9.62	15.43	30.12	12.92
111	2007	285	1500	60.54	49.06	11.39	15.41	27.57	12.87
111	2007	285	1515	60.53	48.33	10.02	30.21	28.78	12.84
111	2007	285	1530	60.39	48.56	11.05	18.91	24.6	12.83
111	2007	285	1545	60.84	46.69	8.47	27.94	24.93	12.81
111	2007	285	1600	60.05	47.33	10.06	26.72	23.64	12.8
111	2007	285	1615	59.59	46.47	10.01	24.69	30.4	12.8
111	2007	285	1630	58.85	47.07	10.44	14.63	25.59	12.79
111	2007	285	1645	58.23	48.61	11.23	12.86	25.97	12.78
111	2007	285	1700	58.11	46.6	8.39	23.52	22.72	12.76
111	2007	285	1715	57.56	47.44	9.29	26.84	26.7	12.76
111	2007	285	1730	56.98	47.91	8.58	16.46	26.88	12.75
111	2007	285	1745	56.28	48.91	8.35	16.43	26.68	12.73
111	2007	285	1800	55.72	49.01	7.71	11.44	28.7	12.73
111	2007	285	1815	55.07	49.45	8.81	20.89	25.31	12.72
111	2007	285	1830	54.39	50.76	7.85	14.9	31.38	12.72

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	285	1845	53.84	51.9	6.7	19.28	27.16	12.71
111	2007	285	1900	53.42	52.07	6.196	13.19	25.9	12.7
111	2007	285	1915	53.07	51.94	6.251	21.54	27.59	12.7
111	2007	285	1930	52.73	52.01	5.657	23.01	23.34	12.69
111	2007	285	1945	52.38	50.64	7.3	23.98	28.99	12.69
111	2007	285	2000	51.88	51.51	6.434	22.49	21.34	12.68
111	2007	285	2015	51.53	52.54	6.321	32.46	20.09	12.68
111	2007	285	2030	51.18	52.88	5.983	28.57	21.66	12.68
111	2007	285	2045	50.9	53.29	5.993	24.52	23.74	12.66
111	2007	285	2100	50.61	54.67	5.695	29.35	21.65	12.66
111	2007	285	2115	50.49	54.2	6.636	22.71	21.32	12.66
111	2007	285	2130	50.17	55.34	6.057	15.03	23.05	12.66
111	2007	285	2145	49.93	56.21	5.715	19.32	23.39	12.66
111	2007	285	2200	49.59	57.28	5.252	26.14	26.43	12.66
111	2007	285	2215	49.32	58.05	5.483	25.07	26.39	12.67
111	2007	285	2230	49.12	58.72	5.419	25.14	24.74	12.66
111	2007	285	2245	48.73	60.56	4.087	17.52	23.34	12.66
111	2007	285	2300	48.47	60.56	4.766	28.83	24.15	12.66
111	2007	285	2315	48.23	61.67	3.696	27.86	26.66	12.66
111	2007	285	2330	47.69	64.01	2.055	16.94	21.61	12.66
111	2007	285	2345	46.81	67.02	2.598	0.652	24.25	12.65
111	2007	285	2400	46.18	67.53	2.649	10.94	20.1	12.65
111	2007	286	15	45.96	67.6	1.307	3.294	39.86	12.64
111	2007	286	30	45.06	70.4	1.925	347.4	16.4	12.64
111	2007	286	45	45.16	71	2.195	358.9	23.09	12.63
111	2007	286	100	44.47	74	0.648	352.8	19.08	12.62
111	2007	286	115	43.72	75.3	1.11	349.1	17.6	12.63
111	2007	286	130	43.07	76.6	2.203	332.8	10.18	12.62
111	2007	286	145	42.96	77.1	1.619	331.5	22.39	12.62
111	2007	286	200	42.6	79.2	1.786	339.2	15.78	12.61
111	2007	286	215	42.15	79.7	1.136	329.7	16.98	12.61
111	2007	286	230	41.25	82.7	1.376	329.5	38.8	12.62
111	2007	286	245	42.22	78.4	2.455	357.1	24.79	12.6
111	2007	286	300	41.72	81.4	1.919	348.7	15.67	12.62
111	2007	286	315	41.41	81.9	0.987	297.3	23.83	12.61
111	2007	286	330	40.53	83.6	0.152	343.6	2.783	12.6
111	2007	286	345	39.69	85.2	0.604	324.1	7.54	12.6
111	2007	286	400	39.37	86.5	0.765	351.7	16.89	12.6
111	2007	286	415	39.83	85.7	1.887	352.4	21.62	12.6
111	2007	286	430	40.55	83.5	2.375	347.5	16.58	12.6
111	2007	286	445	40.9	81.9	2.663	352.6	23.26	12.61
111	2007	286	500	40.54	83	1.948	334	22.37	12.64
111	2007	286	515	40.32	83.4	1.585	339.1	41.66	12.7
111	2007	286	530	40.18	83.5	0.269	334.2	9.97	12.86
111	2007	286	545	39.62	84.7	0.385	277	43.36	13.14
111	2007	286	600	39.09	86.4	0.446	26.07	4.938	13.43
111	2007	286	615	39.65	85.5	2.57	359.8	22.47	13.48
111	2007	286	630	40.68	82.7	3.16	2.401	17.26	13.46
111	2007	286	645	40.89	82	2.919	352	19.88	13.46
111	2007	286	700	41.29	80.3	3.583	355.5	17.09	13.45
111	2007	286	715	41.69	79.7	3.215	350.6	24.28	13.18
111	2007	286	730	41.93	80	2.56	351.2	21.07	13.19
111	2007	286	745	42.85	77.1	2.451	2.987	21.76	13.44
111	2007	286	800	43.82	75.3	2.677	0.991	25.15	13.43
111	2007	286	815	44.85	72.1	3.207	357.9	21.27	13.42
111	2007	286	830	46	69.59	4.426	358.5	20.25	13.42
111	2007	286	845	47.12	67.57	4.492	10.88	25.48	13.41
111	2007	286	900	48.25	65.92	5.385	6.197	23.58	13.43
111	2007	286	915	48.79	64.48	5.802	5.879	29.77	13.43
111	2007	286	930	49.47	64.35	6.031	350.5	22.64	13.42

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	286	945	50.79	58.41	5.084	11.81	30.17	13.42
111	2007	286	1000	51.56	55.63	6.196	19.76	26.48	13.41
111	2007	286	1015	52.39	53.55	6.483	2.731	25.69	13.4
111	2007	286	1030	52.78	51.77	5.777	8.74	27.96	13.4
111	2007	286	1045	53.53	50.44	5.923	0.109	28.26	13.38
111	2007	286	1100	54.44	46.45	6.255	12.72	34.97	13.38
111	2007	286	1115	54.81	46.42	6.692	6.046	31.44	13.37
111	2007	286	1130	55.64	44.57	6.335	29.61	30.91	13.36
111	2007	286	1145	56.23	42.09	5.558	14.78	28.84	13.37
111	2007	286	1200	56.51	41.75	5.786	17.38	30.88	13.37
111	2007	286	1215	56.68	39.31	6.797	16.22	24.34	13.37
111	2007	286	1230	56.99	37.47	6.299	16.74	31.48	13.37
111	2007	286	1245	57.28	38.78	6.765	351.4	28.83	13.38
111	2007	286	1300	57.47	37.91	6.698	358.2	27.91	13.39
111	2007	286	1315	58.09	40.18	6.39	1.923	29.74	13.4
111	2007	286	1330	58.43	41.92	7.24	4.789	38.22	13.42
111	2007	286	1345	58.15	45.5	5.995	309.9	34.7	13.1
111	2007	286	1400	58.25	48.38	7.22	316	33.39	13.05
111	2007	286	1415	57.29	49.58	4.901	280.9	43.7	12.92
111	2007	286	1430	57.47	51.09	6.583	322.1	37.42	12.87
111	2007	286	1445	57.11	53.56	6.182	311.1	33.44	12.84
111	2007	286	1500	57.7	49.18	7.09	329.9	35.99	12.81
111	2007	286	1515	57.83	52.83	6.779	328.5	20.41	12.81
111	2007	286	1530	58.17	51.32	6.14	325.6	39.52	12.8
111	2007	286	1545	58.46	50.85	6.037	323.6	22.62	12.78
111	2007	286	1600	58.06	50.05	5.816	339.8	30.44	12.77
111	2007	286	1615	58.36	48.64	5.781	323.6	25.07	12.77
111	2007	286	1630	58.14	49.51	6.311	330.3	24.67	12.76
111	2007	286	1645	58.22	45.8	6.491	341.3	22.1	12.76
111	2007	286	1700	58.46	45.6	4.756	356.2	27.2	12.74
111	2007	286	1715	59.32	44.36	4.873	344.9	27.64	12.74
111	2007	286	1730	58.7	46.97	3.714	8.24	25.39	12.74
111	2007	286	1745	58	46.84	3.249	356.2	23.92	12.73
111	2007	286	1800	57.51	49.92	2.342	351.1	27.41	12.74
111	2007	286	1815	56.66	53.53	2.042	334.2	26.1	12.73
111	2007	286	1830	55.08	58.96	0.275	338.2	15.61	12.72
111	2007	286	1845	53.35	64.92	0.239	333.4	4.17	12.72
111	2007	286	1900	51.76	69.17	0.569	343.2	9.04	12.71
111	2007	286	1915	50.79	71.7	0.152	319	3.455	12.71
111	2007	286	1930	49.83	74.8	0.206	319.6	4.392	12.7
111	2007	286	1945	49.08	77.1	0.779	346.6	16.52	12.69
111	2007	286	2000	48.43	77.8	0.436	340.4	26.19	12.69
111	2007	286	2015	48.12	78.9	0.43	341.7	6.912	12.69
111	2007	286	2030	47.66	79.7	0.018	342.2	0.044	12.67
111	2007	286	2045	47.12	80.1	0.296	337.2	6.095	12.68
111	2007	286	2100	46.48	81.2	0.327	341.4	2.362	12.67
111	2007	286	2115	46.2	81.2	0	0	0	12.66
111	2007	286	2130	45.91	82	0	0	0	12.66
111	2007	286	2145	45.49	82.4	0.045	332.3	0.267	12.66
111	2007	286	2200	45.31	83.8	0	0	0	12.66
111	2007	286	2215	45.19	83.8	0	0	0	12.65
111	2007	286	2230	45.46	84.2	0	0	0	12.64
111	2007	286	2245	45.39	83.7	0	0	0	12.63
111	2007	286	2300	45.34	83.7	0	0	0	12.63
111	2007	286	2315	45.47	84.4	0.055	54.33	1.671	12.63
111	2007	286	2330	45.49	84.4	0.085	43.18	6.178	12.61
111	2007	286	2345	45.37	84.5	0	0	0	12.62
111	2007	286	2400	44.96	84.3	0.176	341.2	2.843	12.6
111	2007	287	15	44.57	85.2	0.589	352.2	16.5	12.61
111	2007	287	30	45.44	81.4	1.899	354.5	13.87	12.6

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	287	45	47.42	74.8	2.143	351	23.15	12.6
111	2007	287	100	47.1	77	1.903	342.5	15.11	12.6
111	2007	287	115	48.04	71.1	3.267	1.962	17.7	12.6
111	2007	287	130	48.94	71.4	3.394	349.9	16.82	12.59
111	2007	287	145	48.23	71.9	2.272	355.2	18.63	12.58
111	2007	287	200	47.37	75.1	0.238	354.6	12.44	12.58
111	2007	287	215	45.52	80.3	0.134	344.9	3.953	12.58
111	2007	287	230	44.24	82.5	0.127	333.1	0.388	12.58
111	2007	287	245	43.23	84.9	1.2	324.1	9.32	12.58
111	2007	287	300	42.75	86.9	1.623	343.8	16.43	12.58
111	2007	287	315	43.09	86.7	1.549	343.1	17.19	12.58
111	2007	287	330	43.46	85.6	0.911	338.6	13.93	12.58
111	2007	287	345	43.43	85.4	1.331	344.5	18.71	12.58
111	2007	287	400	43.05	85.4	1.164	339.1	18.66	12.58
111	2007	287	415	42.84	86	1.319	345.6	31.01	12.57
111	2007	287	430	42.74	85.8	2.348	333.9	9.08	12.58
111	2007	287	445	42.83	85.4	1.415	323.1	17.45	12.58
111	2007	287	500	43.99	80.4	2.034	341.5	23.72	12.58
111	2007	287	515	45.37	75.2	3.009	353.4	18.05	12.58
111	2007	287	530	45.83	74.1	3.32	357.8	17.82	12.58
111	2007	287	545	45.81	74.6	3.348	352.7	12.98	12.71
111	2007	287	600	45.81	75.2	3.672	356.2	20.44	12.92
111	2007	287	615	45.53	75.5	3.841	347.8	16.97	12.84
111	2007	287	630	45.68	74.3	3.876	355.3	21.35	13.08
111	2007	287	645	45.7	75.5	3.33	352.2	20.99	13.12
111	2007	287	700	45.21	76.9	2.78	354.6	19.42	13.09
111	2007	287	715	44.92	77.5	2.727	4.903	21.87	13.37
111	2007	287	730	44.71	79	2.913	345.6	17.82	13.41
111	2007	287	745	44.8	78.5	3.011	343.2	19.03	13.24
111	2007	287	800	45.77	75.8	3.654	356	15.53	13.17
111	2007	287	815	47.02	71.9	3.511	3.857	24.85	13.22
111	2007	287	830	48.78	68.07	4.111	0.205	23.89	13.4
111	2007	287	845	50.17	65.79	4.647	356.2	20.99	13.39
111	2007	287	900	51.42	62.84	5.062	3.221	25.94	13.33
111	2007	287	915	52.81	59.05	5.61	0.1	22.67	13.23
111	2007	287	930	53.4	57.33	7.05	358.2	31.22	13.39
111	2007	287	945	54.2	56.46	6.12	7.07	29.7	13.38
111	2007	287	1000	54.51	57.3	6.638	10.2	25.92	13.37
111	2007	287	1015	55.12	54.08	6.658	358.1	23.95	13.37
111	2007	287	1030	56.06	54.14	5.866	358.2	30.61	13.32
111	2007	287	1045	56.99	51.93	6.527	3.672	32.65	13.24
111	2007	287	1100	57.8	50.19	6.712	26.85	29.36	13.26
111	2007	287	1115	58.12	49.35	7.93	14.51	31.03	13.38
111	2007	287	1130	58.45	48.28	7.32	14.93	29.59	13.37
111	2007	287	1145	59.02	47.91	7.69	10.39	26.78	13.37
111	2007	287	1200	58.92	50.35	8.69	9.84	27.89	13.36
111	2007	287	1215	59.09	48.71	8.93	13.7	28.06	13.34
111	2007	287	1230	59.6	47.31	7.04	18.04	27.11	13.32
111	2007	287	1245	60.11	47.24	7.95	36.36	35.5	13.36
111	2007	287	1300	59.88	48.88	7.7	20.91	31.67	13.28
111	2007	287	1315	60.22	47.67	6.569	34.85	34.26	13.13
111	2007	287	1330	60.37	47.7	6.41	34.92	26.96	13.3
111	2007	287	1345	61.53	42.92	7.36	20.06	34.5	13.16
111	2007	287	1400	61.36	47.06	6.259	23.83	27.18	13.28
111	2007	287	1415	60.27	47.19	8.31	20.98	25.89	13.18
111	2007	287	1430	60.22	46.99	6.18	15.19	29.04	12.97
111	2007	287	1445	60.45	47.2	6.706	13.2	24.41	12.88
111	2007	287	1500	61.08	44.36	7.35	13.43	27.2	12.85
111	2007	287	1515	62.34	43.05	6.861	20.73	34.97	12.83
111	2007	287	1530	62.67	45.55	6.916	49.24	33.3	12.81

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	287	1545	61.03	43.65	7.33	37.28	21.28	12.81
111	2007	287	1600	61.86	43.31	8.46	35.79	23.68	12.8
111	2007	287	1615	63.47	40.37	7.05	35.34	28.14	12.79
111	2007	287	1630	63.11	40.4	8.75	48.6	24.66	12.78
111	2007	287	1645	61.97	42.01	8.36	41.04	31.98	12.78
111	2007	287	1700	61.77	42.21	8.45	36.56	23.87	12.77
111	2007	287	1715	60.9	44.18	6.597	24.88	26.34	12.77
111	2007	287	1730	60.93	45.75	6.104	34.83	21.39	12.76
111	2007	287	1745	60.11	45.89	6.241	34.23	24.78	12.76
111	2007	287	1800	59.42	47.2	6.436	23.18	23.66	12.76
111	2007	287	1815	58.74	48.14	6.793	23.84	24.93	12.75
111	2007	287	1830	58.15	48.18	6.426	31.05	22.32	12.75
111	2007	287	1845	57.73	48.85	7.18	32.53	20.79	12.75
111	2007	287	1900	57.04	51.89	4.643	21.03	22.09	12.73
111	2007	287	1915	56.19	53.5	3.199	11.09	28.22	12.73
111	2007	287	1930	55.72	53.88	3.477	4.678	20.13	12.74
111	2007	287	1945	55.22	55.09	3.757	7.83	22.16	12.73
111	2007	287	2000	54.76	56.26	3.156	10.38	20.93	12.72
111	2007	287	2015	54.17	57.43	2.836	7.9	29.67	12.73
111	2007	287	2030	54.13	56.59	3.598	24.45	22.68	12.72
111	2007	287	2045	53.74	58.7	2.568	7.56	21.16	12.72
111	2007	287	2100	53	61.18	2.095	6.092	14.12	12.71
111	2007	287	2115	51.78	66.4	2.032	359.4	27.98	12.71
111	2007	287	2130	50.61	67.34	0.683	337.7	12.3	12.71
111	2007	287	2145	49.58	72.7	0.413	343.6	4.237	12.71
111	2007	287	2200	48.3	75.7	1.228	340.5	10.96	12.7
111	2007	287	2215	47.73	77.3	1.599	338.7	7.41	12.69
111	2007	287	2230	47	79.5	1.839	336.6	5.842	12.69
111	2007	287	2245	46.89	79.6	2.095	351.5	17.19	12.68
111	2007	287	2300	48.11	75.7	2.203	357.2	24.03	12.67
111	2007	287	2315	48.49	74.9	2.792	353.5	22.71	12.67
111	2007	287	2330	48.73	73.5	2.56	10.24	17.23	12.66
111	2007	287	2345	48.89	73.7	2.048	29.32	27.07	12.66
111	2007	287	2400	48.19	75.9	1.284	14.27	29.43	12.64
111	2007	288	15	47	79.1	0.888	7.78	32.73	12.66
111	2007	288	30	46.33	80.9	0.529	320.6	18.29	12.64
111	2007	288	45	45.58	83.7	0.632	2.523	5.693	12.64
111	2007	288	100	45.05	84.4	0.389	3.442	13.22	12.63
111	2007	288	115	44.65	85.9	1.374	36.28	8.83	12.63
111	2007	288	130	45.04	84.9	0.172	42.35	5.446	12.63
111	2007	288	145	44.84	85.7	1.143	40.02	34.01	12.62
111	2007	288	200	44.85	86	1.312	11.47	20.12	12.62
111	2007	288	215	44.85	85.6	1.935	25.24	21.16	12.61
111	2007	288	230	45.24	84.4	2.28	42.08	30.5	12.61
111	2007	288	245	45.36	82.9	1.123	45.34	33.16	12.61
111	2007	288	300	45	83.9	0.543	17.08	16.12	12.6
111	2007	288	315	44.09	85.1	0.473	297.1	33.52	12.6
111	2007	288	330	43.37	86.9	0.502	322.6	28.76	12.6
111	2007	288	345	43.31	87.1	0.326	70.3	14.76	12.6
111	2007	288	400	42.79	88	0.252	337	3.775	12.6
111	2007	288	415	42.23	89.2	0.532	340.2	8.16	12.6
111	2007	288	430	42.28	89.7	0.451	340.5	6.316	12.6
111	2007	288	445	42.68	90.5	1.5	340.2	12.79	12.6
111	2007	288	500	43.24	90.6	0.561	19.62	17.83	12.66
111	2007	288	515	43.27	90	0.051	351.5	4.23	12.71
111	2007	288	530	42.63	90.2	na	na	na	12.87
111	2007	288	545	42.19	90.8	na	na	na	12.99
111	2007	288	600	42.18	91.2	0.222	347.8	6.24	13.13
111	2007	288	615	42.42	91.5	0.151	20.83	8.3	13.25
111	2007	288	630	42.96	91.3	0.534	353.2	13.37	13.33

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	288	645	43.27	91.6	1.753	352.4	14.97	13.33
111	2007	288	700	43.83	90.7	2.391	350.2	10.73	13.41
111	2007	288	715	44.39	89.1	2.103	346.9	19.94	13.4
111	2007	288	730	44.16	89.5	0.84	343.1	7.6	13.39
111	2007	288	745	45.07	88.9	1.229	348.5	20.55	13.38
111	2007	288	800	46.56	86.2	2.108	353.4	20.66	13.37
111	2007	288	815	47.4	84.9	2.395	355.7	17.15	13.37
111	2007	288	830	48.69	81.4	3.076	4.847	23.57	13.35
111	2007	288	845	49.76	80.1	2.921	9.87	28.6	13.34
111	2007	288	900	51.33	75.6	3.146	12.29	23.94	13.36
111	2007	288	915	52.77	73.6	3.281	5.275	22.91	13.37
111	2007	288	930	53.68	71.9	2.901	356.3	31.45	13.29
111	2007	288	945	54.55	69.35	3.751	349.2	28.9	13.27
111	2007	288	1000	55.43	64.96	3.862	352.8	26.25	13.29
111	2007	288	1015	55.51	66.77	4.962	351.5	20.89	13.37
111	2007	288	1030	55.64	66.03	4.734	10.19	26.29	13.37
111	2007	288	1045	55.98	64.45	4.996	352.7	21.02	13.36
111	2007	288	1100	56.46	63.74	3.922	4.466	28.25	13.35
111	2007	288	1115	57.41	61.19	4.685	353.5	31.97	13.34
111	2007	288	1130	58.02	60.05	4.887	347	21.78	13.35
111	2007	288	1145	58.83	59.48	5.217	342.6	24.16	13.35
111	2007	288	1200	59.9	54.73	5.636	339.6	28.95	13.36
111	2007	288	1215	60.12	55.2	5.35	19.23	32.38	13.34
111	2007	288	1230	60.41	55.47	5.276	25.47	31.55	13.24
111	2007	288	1245	60.31	52.56	5.096	17.07	32.89	13.12
111	2007	288	1300	61.15	52.12	6.009	358.6	28.07	13.11
111	2007	288	1315	62.27	49.74	5.389	344.8	31.03	13.12
111	2007	288	1330	63.13	48.16	6.813	0.226	29.74	13.05
111	2007	288	1345	62.82	49.9	7.12	24.36	30.15	12.97
111	2007	288	1400	62.09	50.97	6.39	21.68	30.24	12.92
111	2007	288	1415	62.32	51.27	5.761	19.19	27.1	12.88
111	2007	288	1430	62.52	48.86	5.655	13.98	32.87	12.85
111	2007	288	1445	63.2	48.49	7.44	33.55	24.33	12.84
111	2007	288	1500	63.28	48.8	6.487	22.5	29.36	12.83
111	2007	288	1515	64.5	48.29	6.823	22.21	29.86	12.81
111	2007	288	1530	64.47	48.73	5.838	22.59	23.16	12.81
111	2007	288	1545	64.69	48.26	5.723	27.04	27.13	12.8
111	2007	288	1600	64.97	46.49	7.88	5.106	31.85	12.8
111	2007	288	1615	64.72	47.36	7.37	11.5	24.11	12.79
111	2007	288	1630	64.42	48.7	6.303	355.6	24.56	12.79
111	2007	288	1645	64.37	49.93	4.681	19.29	31.79	12.78
111	2007	288	1700	64.33	49.16	5.225	36.36	20.78	12.78
111	2007	288	1715	64.24	49.57	4.051	42.32	29.48	12.78
111	2007	288	1730	63.73	52.58	3.743	41.4	27.29	12.77
111	2007	288	1745	62.81	54.58	3.217	37.28	19.91	12.77
111	2007	288	1800	61.94	57.69	2.369	32.21	25.98	12.77
111	2007	288	1815	60.88	61.12	1.487	22.22	16.32	12.76
111	2007	288	1830	59.78	63.66	1.258	12.75	15.77	12.76
111	2007	288	1845	59.28	64.23	1.198	11.76	22.8	12.75
111	2007	288	1900	58.32	70.1	0.291	355.3	13.19	12.75
111	2007	288	1915	57.2	71.6	0.316	21.69	8.35	12.75
111	2007	288	1930	57	70.5	1.197	20.03	19.63	12.73
111	2007	288	1945	57.21	70.4	1.639	22.64	19.96	12.73
111	2007	288	2000	56.69	72.6	0.719	11.87	26	12.73
111	2007	288	2015	55.41	76.3	0.518	346.6	6.963	12.73
111	2007	288	2030	54.41	78.3	0.784	336	6.997	12.72
111	2007	288	2045	53.47	81	0.436	344.5	10.33	12.72
111	2007	288	2100	52.95	81.7	0.525	319.7	10.54	12.72
111	2007	288	2115	52.51	83.2	0.552	344.2	4.889	12.71
111	2007	288	2130	52.24	83.7	0.629	330.4	9.45	12.71

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	288	2145	51.84	84.9	0.104	302.8	1.541	12.71
111	2007	288	2200	51.71	85.2	na	na	na	12.7
111	2007	288	2215	51.4	85.4	0.829	337	3.5	12.7
111	2007	288	2230	51.38	84.8	1.305	331.4	4.74	12.69
111	2007	288	2245	50.98	85.5	0.215	344.4	3.184	12.69
111	2007	288	2300	50.63	86.1	na	na	na	12.69
111	2007	288	2315	50.56	86.3	0.789	356.5	12.19	12.68
111	2007	288	2330	50.43	86.7	1.143	18.82	31.39	12.68
111	2007	288	2345	51.1	85.4	0.678	20.6	19.72	12.68
111	2007	288	2400	51.86	81.9	1.165	25.23	24.62	12.67
111	2007	289	15	53.13	76.4	2.351	32.48	20.82	12.66
111	2007	289	30	53.9	74.2	2.641	27.08	25.83	12.66
111	2007	289	45	54.08	74.4	2.054	3.346	19.51	12.66
111	2007	289	100	53.95	74.9	2.324	5.362	16.63	12.66
111	2007	289	115	53.78	76.1	1.968	1.983	22.22	12.66
111	2007	289	130	53.75	75	1.706	32.26	19.22	12.65
111	2007	289	145	54.18	74.3	1.476	13.11	19.01	12.65
111	2007	289	200	54.38	73.6	1.453	3.334	21.1	12.65
111	2007	289	215	54.43	73.9	1.07	22.6	22.21	12.65
111	2007	289	230	54.24	74.7	0.418	43.32	11.63	12.65
111	2007	289	245	53.88	77.1	0.108	338.9	2.934	12.65
111	2007	289	300	53.31	79.1	1.303	344.5	23.91	12.65
111	2007	289	315	53.31	78.7	0.415	27.04	8.06	12.65
111	2007	289	330	52.84	80.3	0.442	19	15	12.65
111	2007	289	345	52.2	81.8	0.716	36.35	14.54	12.65
111	2007	289	400	52.27	81.1	1.076	85.5	25.1	12.65
111	2007	289	415	52.85	78.2	1.316	59.46	22	12.65
111	2007	289	430	53.17	77.5	0.564	359.3	38.6	12.65
111	2007	289	445	52.9	76.1	0.569	29.28	18.17	12.65
111	2007	289	500	53.11	76.6	0.371	329	13.09	12.65
111	2007	289	515	52.52	78.8	0.977	310.3	22.19	12.65
111	2007	289	530	52.24	78.5	1.043	349.3	21.41	12.65
111	2007	289	545	52.49	77.3	1.508	339.7	24.5	12.65
111	2007	289	600	52.8	74.4	1.263	16.36	29.98	12.65
111	2007	289	615	53.52	71.3	1.522	5.056	23.95	12.65
111	2007	289	630	53.59	72.9	0.725	24.81	18.63	12.65
111	2007	289	645	52.7	75.4	0.872	323.7	23	12.66
111	2007	289	700	51.2	79	0.828	337.2	17.2	12.67
111	2007	289	715	50.76	80.2	0.77	11.23	26.6	12.67
111	2007	289	730	50.51	81.9	0.337	351.7	9.6	12.72
111	2007	289	745	50.77	82.3	0.722	353.4	15.17	12.98
111	2007	289	800	51.86	78.6	1.171	6.095	24.93	13.07
111	2007	289	815	53.89	70.1	1.556	35.77	22.59	13
111	2007	289	830	55.14	67.84	2.49	69.74	30.66	13.29
111	2007	289	845	56.28	66.57	2.493	92.3	41.44	13.3
111	2007	289	900	57.11	65.43	2.719	95.7	49.09	13.28
111	2007	289	915	57.87	62.91	3.114	86.2	44.35	13.28
111	2007	289	930	58.08	60.66	4.081	66.29	42.64	13.22
111	2007	289	945	58.24	61.06	3.579	72	34.29	13.03
111	2007	289	1000	58.93	58.98	3.551	64.24	44.42	12.98
111	2007	289	1015	59.38	57.31	3.799	53.2	46.57	12.99
111	2007	289	1030	59.89	56.21	3.71	43.41	39.21	13.01
111	2007	289	1045	60.31	53.06	4.307	44.91	45.1	12.99
111	2007	289	1100	61.16	47.2	4.301	43.19	40.64	12.92
111	2007	289	1115	62.01	47.2	3.809	72.4	44.37	12.87
111	2007	289	1130	62.35	48.06	3.785	49.85	46.05	12.85
111	2007	289	1145	62.7	45.99	3.594	29.62	43.23	12.83
111	2007	289	1200	63.19	44.18	3.59	54.48	53.43	12.82
111	2007	289	1215	63.71	41.64	4.164	25.21	48.26	12.81
111	2007	289	1230	63.64	40	4.335	13.56	43.09	12.79

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	289	1245	64.65	36.09	3.322	13.93	57.08	12.78
111	2007	289	1300	64.93	34.82	4.117	27.63	46.97	12.77
111	2007	289	1315	65.39	32.07	3.309	28.55	55.24	12.76
111	2007	289	1330	65.65	44.68	3.978	21.98	48.63	12.74
111	2007	289	1345	65.25	33.58	4.333	19.5	48.85	12.73
111	2007	289	1400	65.68	32.57	5.129	22.26	39.61	12.72
111	2007	289	1415	65.68	29.72	5.302	1.796	29.57	12.7
111	2007	289	1430	66.03	30.43	4.736	9.3	36.92	12.7
111	2007	289	1445	65.13	54.2	4.295	300.4	38.29	12.69
111	2007	289	1500	63.97	54.93	4.889	309.3	35.28	12.67
111	2007	289	1515	64.66	53.19	5.028	295.8	38.34	12.67
111	2007	289	1530	65.09	52.63	4.637	274.1	36.54	12.67
111	2007	289	1545	64.31	55.4	4.244	296.9	34.76	12.65
111	2007	289	1600	63.83	57.41	3.988	302.5	39.66	12.65
111	2007	289	1615	62.91	59.8	4.254	315.2	35.06	12.65
111	2007	289	1630	62.6	61.74	3.692	284.9	27.08	12.64
111	2007	289	1645	62.35	61.47	2.197	283.2	36.33	12.63
111	2007	289	1700	62.24	62.51	2.247	302.5	29.72	12.63
111	2007	289	1715	61.5	64.45	2.55	305.8	21.42	12.64
111	2007	289	1730	61.37	63.92	2.403	309.5	22.27	12.63
111	2007	289	1745	60.96	66.67	2.282	291.2	26.76	12.63
111	2007	289	1800	60.49	68.45	2.209	298.9	25.96	12.63
111	2007	289	1815	59.79	71.7	2.324	308.6	24.36	12.63
111	2007	289	1830	59.27	72.9	1.878	315.3	19.13	12.63
111	2007	289	1845	58.59	75.7	1.876	347.1	34.88	12.63
111	2007	289	1900	57.98	77.4	1.537	342.8	23.93	12.63
111	2007	289	1915	57.69	77.7	1.359	308.5	24.45	12.63
111	2007	289	1930	57.21	77.8	1.158	310.3	14.97	12.63
111	2007	289	1945	57.54	76.9	2.125	350.4	25.61	12.62
111	2007	289	2000	57.7	76.7	1.273	2.02	23.62	12.62
111	2007	289	2015	57.66	77.2	1.339	0.152	20.87	12.63
111	2007	289	2030	57.2	79.5	0.714	340.3	7.07	12.63
111	2007	289	2045	56.82	80.7	1.074	353.8	11.19	12.63
111	2007	289	2100	57.1	80.7	0.944	9.14	20.34	12.62
111	2007	289	2115	56.47	81.9	0.273	79.4	26.14	12.62
111	2007	289	2130	56.25	82.7	1.224	19.42	26.06	12.63
111	2007	289	2145	55.97	83.8	0.64	309	28.65	12.63
111	2007	289	2200	55.59	84.8	0.394	12.14	20.5	12.63
111	2007	289	2215	55.36	85.7	0.313	329.9	13.83	12.63
111	2007	289	2230	55.17	86.2	0.514	12.36	52.11	12.62
111	2007	289	2245	54.89	87	0.297	24.84	8.13	12.61
111	2007	289	2300	54.7	86.7	0.388	44.65	11.3	12.61
111	2007	289	2315	53.94	87.9	0.572	354	11.46	12.61
111	2007	289	2330	53.12	89.1	0.143	358.9	1.841	12.6
111	2007	289	2345	52.6	89.7	0.036	73.5	3.954	12.6
111	2007	289	2400	52.66	89.9	0.401	12.37	19.49	12.6
111	2007	290	15	52.28	90.2	na	na	na	12.59
111	2007	290	30	52.18	90.8	0.285	15.93	47.95	12.59
111	2007	290	45	52.21	90.8	0.393	351.6	9.15	12.59
111	2007	290	100	51.89	91.4	na	na	na	12.59
111	2007	290	115	51.78	91.5	0.456	344.1	4.467	12.57
111	2007	290	130	51.62	91.7	0.076	44.83	4.327	12.59
111	2007	290	145	51.47	91.7	0.345	35.5	15.93	12.58
111	2007	290	200	51.05	92	na	na	na	12.57
111	2007	290	215	50.76	92.3	na	na	na	12.57
111	2007	290	230	50.7	92.5	na	na	na	12.57
111	2007	290	245	50.86	92.2	0.28	69.92	6.279	12.57
111	2007	290	300	50.65	92.4	0.114	36.13	2.101	12.57
111	2007	290	315	50.33	92.5	1.031	340.8	9.77	12.57
111	2007	290	330	49.98	92.7	0.438	330.3	6.658	12.57

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	290	345	49.83	92.9	0.033	341.7	0.104	12.56
111	2007	290	400	49.92	93	na	na	na	12.56
111	2007	290	415	49.97	93.2	na	na	na	12.56
111	2007	290	430	50.15	93.2	na	na	na	12.55
111	2007	290	445	50.21	93.4	na	na	na	12.55
111	2007	290	500	50.27	93.3	0.048	79.8	4.794	12.58
111	2007	290	515	50.08	93.2	na	na	na	12.64
111	2007	290	530	49.92	93.3	na	na	na	12.88
111	2007	290	545	50.17	93.4	0.135	34.37	16.6	13.19
111	2007	290	600	50.42	93	0.09	58.87	2.5	13.2
111	2007	290	615	50.42	93.1	0.462	3.737	21.24	13.24
111	2007	290	630	50.45	92.8	0.358	339.8	6.744	13.15
111	2007	290	645	50.07	93	0.018	295.2	0.115	13.12
111	2007	290	700	50.33	92.8	0.298	17.65	12.39	13.1
111	2007	290	715	50.67	92.5	1.109	46.05	19.3	13.12
111	2007	290	730	51.41	91.1	0.962	58.72	24.17	13.13
111	2007	290	745	52.38	88.6	0.532	79.1	20.32	13.17
111	2007	290	800	53.87	83.7	1.362	67.46	29.68	13.4
111	2007	290	815	55.21	80	1.017	79.7	41.55	13.4
111	2007	290	830	55.97	77.7	1.006	134.1	48.98	13.4
111	2007	290	845	56.52	77.4	0.84	97.4	35.78	13.38
111	2007	290	900	57.51	75.4	1.368	99.9	49.31	13.38
111	2007	290	915	59.24	73.2	1.191	151.1	43.66	13.37
111	2007	290	930	59.83	73.7	0.512	195.1	25.21	13.36
111	2007	290	945	61.21	74.8	1.705	191.1	51.28	13.34
111	2007	290	1000	62.57	76	1.997	184.2	40.78	13.34
111	2007	290	1015	62.9	78	1.889	218.4	41.07	13.33
111	2007	290	1030	63.88	77.6	2.011	244.6	35.15	13.33
111	2007	290	1045	65.36	77.4	2.796	235.1	31.57	13.32
111	2007	290	1100	65.63	80	3.227	253.5	44.69	13.32
111	2007	290	1115	65.49	82.7	2.903	271.3	37.27	13.32
111	2007	290	1130	65.35	83.5	3.185	275.7	41.38	13.29
111	2007	290	1145	65.89	83.4	4.081	284.4	39.12	13.31
111	2007	290	1200	66.22	82.5	3.586	278.7	49.13	13.32
111	2007	290	1215	66.46	81.9	3.432	278.8	42.9	13.32
111	2007	290	1230	66.19	83	3.839	279.4	38.71	13.33
111	2007	290	1245	66.22	83.4	4.254	291.9	45.95	13.33
111	2007	290	1300	66.49	81.5	4.694	299.2	34.02	13.34
111	2007	290	1315	66.99	82	4.827	256.6	33.14	13.33
111	2007	290	1330	66.79	82.5	3.833	277.7	43.34	13.27
111	2007	290	1345	66.51	82.7	4.667	283.6	40.24	13.15
111	2007	290	1400	66.24	84.2	3.968	285.9	29.79	12.99
111	2007	290	1415	65.86	85.1	4.111	306.5	36.24	13.01
111	2007	290	1430	66.59	82.9	4.214	288.2	37.46	13.01
111	2007	290	1445	67.04	82.7	5.661	295	30.62	12.91
111	2007	290	1500	67.51	82.3	6.152	286.9	34.19	12.87
111	2007	290	1515	67.64	82.2	5.296	290.2	38.55	12.85
111	2007	290	1530	66.65	85.4	5.604	286	37.04	12.83
111	2007	290	1545	66.53	84.7	4.166	279.6	41.62	12.81
111	2007	290	1600	66.61	84.5	4.279	286.9	38.74	12.81
111	2007	290	1615	66.25	85.8	3.924	286.9	39.8	12.79
111	2007	290	1630	66.06	85.7	4.401	313.6	31.9	12.79
111	2007	290	1645	66.01	86	4.377	310.1	24.42	12.78
111	2007	290	1700	65.8	86.6	4.103	302	35.38	12.77
111	2007	290	1715	65.82	86.2	4.085	304	38.61	12.76
111	2007	290	1730	65.7	86.8	3.569	297.1	38.75	12.76
111	2007	290	1745	65.31	87.7	2.985	291.8	28.35	12.75
111	2007	290	1800	64.68	88.9	2.522	292.4	38.02	12.74
111	2007	290	1815	64.17	89.5	1.412	272.8	34.83	12.73
111	2007	290	1830	63.69	90.3	0.93	289.5	33.83	12.72

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	290	1845	63.32	90.9	0.584	303.1	12.12	12.71
111	2007	290	1900	63.02	91.5	1.069	292.6	18.88	12.71
111	2007	290	1915	62.89	91.8	1.034	296.1	26.64	12.7
111	2007	290	1930	62.74	92.1	0.496	279.1	21.12	12.69
111	2007	290	1945	62.65	92.4	0.576	267.5	21.61	12.68
111	2007	290	2000	62.6	92.7	0.788	253	30.19	12.67
111	2007	290	2015	62.41	92.7	0.557	233.9	17.07	12.67
111	2007	290	2030	62.25	93	0.523	296.5	9.42	12.66
111	2007	290	2045	62.32	93.3	0.89	289.4	23.37	12.67
111	2007	290	2100	62.47	93.3	1.226	292.6	30.15	12.66
111	2007	290	2115	62.57	93.5	1.715	306.1	27.33	12.67
111	2007	290	2130	62.87	93.7	2.639	309	23.97	12.67
111	2007	290	2145	63.02	93.6	3.013	319	16.72	12.66
111	2007	290	2200	63.3	93.7	4.158	323	25.63	12.67
111	2007	290	2215	63.5	93.3	4.311	323.1	22.04	12.66
111	2007	290	2230	63.54	92.8	4.214	326.7	17.84	12.66
111	2007	290	2245	63.53	92.5	4.125	321.8	24.86	12.66
111	2007	290	2300	63.65	91.9	5.097	327.7	18.46	12.66
111	2007	290	2315	63.76	91.5	4.818	323.4	17.02	12.66
111	2007	290	2330	63.67	91.2	4.186	331.7	16.9	12.66
111	2007	290	2345	63.61	91	4.696	331.8	16.6	12.64
111	2007	290	2400	63.54	90.9	3.646	331.6	25.79	12.64
111	2007	291	15	63.32	90.8	2.729	325.2	16.62	12.64
111	2007	291	30	62.94	91.1	2.198	324.6	19.89	12.64
111	2007	291	45	62.55	91.4	2.089	329.1	17.3	12.63
111	2007	291	100	62.33	91.6	2.238	324.9	16.49	12.63
111	2007	291	115	62.16	91.8	2.109	322	16.98	12.63
111	2007	291	130	61.97	92.3	2.361	332.7	17.53	12.63
111	2007	291	145	62.01	92.4	2.045	333.9	16.21	12.63
111	2007	291	200	61.72	92.4	0.76	337.9	13.24	12.62
111	2007	291	215	61.11	92.9	0.473	347.5	18.44	12.62
111	2007	291	230	60.82	92.8	0.062	353	2.977	12.61
111	2007	291	245	60.12	92.8	0.153	41.36	3.053	12.6
111	2007	291	300	59.11	93	na	na	na	12.6
111	2007	291	315	58.65	93.5	0.022	342.1	5.352	12.6
111	2007	291	330	58.51	93.4	0.054	36.92	1.747	12.6
111	2007	291	345	57.96	93.5	0.049	71.5	2.937	12.59
111	2007	291	400	57.69	93.7	na	na	na	12.59
111	2007	291	415	57.5	93.9	na	na	na	12.58
111	2007	291	430	58.03	93.7	0.162	53.02	7.38	12.59
111	2007	291	445	57.22	94	na	na	na	12.65
111	2007	291	500	57.14	94	0.027	38.1	2.355	12.86
111	2007	291	515	56.92	94.2	0.009	130.9	0	13.24
111	2007	291	530	56.86	94.4	na	na	na	13.56
111	2007	291	545	56.78	94.2	na	na	na	13.52
111	2007	291	600	56.37	94.5	0.104	56.92	3.26	13.51
111	2007	291	615	56.22	94.5	0.073	69.23	2.673	13.48
111	2007	291	630	56.52	94.4	0.42	50.76	12.19	13.48
111	2007	291	645	56.33	94.6	0.203	102	37.64	13.46
111	2007	291	700	56.55	94.3	0.367	356.5	40.97	13.44
111	2007	291	715	55.68	94.6	0.009	318.1	0	13.15
111	2007	291	730	55.83	95.3	0.555	52.38	10.25	13.43
111	2007	291	745	56.57	94.7	0.151	332.4	4.743	13.41
111	2007	291	800	57.16	94.9	0.221	21.11	10.25	13.41
111	2007	291	815	58.75	94.9	0.366	37.75	9.21	13.4
111	2007	291	830	60.68	95.3	0.114	241.5	10.24	13.4
111	2007	291	845	62.28	94.6	0.548	253.8	19.84	13.4
111	2007	291	900	62.87	94.2	1.827	270.9	31.47	13.39
111	2007	291	915	63.85	93.3	2.138	269	30.79	13.38
111	2007	291	930	64.62	92.6	2.776	279.3	35.22	13.37

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	291	945	65.14	91.1	3.251	299.7	34.09	13.35
111	2007	291	1000	65.96	87.7	4.101	297.3	34.38	13.34
111	2007	291	1015	66.24	85.6	4.468	308.8	31.08	13.34
111	2007	291	1030	66.86	82.7	4.661	316.8	28.18	13.34
111	2007	291	1045	67.36	81.9	4.327	308.5	35.48	13.33
111	2007	291	1100	68.29	81	4.962	320.7	22.06	13.32
111	2007	291	1115	68.18	81	3.807	308.8	34.57	13.32
111	2007	291	1130	68.64	79.9	4.544	312	34.66	13.32
111	2007	291	1145	68.72	83	4.899	291.4	40.3	13.32
111	2007	291	1200	67.74	85.2	5.503	305.7	36.02	13.32
111	2007	291	1215	67.57	85.9	4.921	299	34.49	13.32
111	2007	291	1230	67.82	85.8	5.733	316.3	28.25	13.32
111	2007	291	1245	67.87	85.8	5.675	315	34.6	13.32
111	2007	291	1300	67.02	87.9	6.229	313	25.42	13.32
111	2007	291	1315	66.72	88.6	5.372	312.8	34.07	13.33
111	2007	291	1330	66.92	87.8	5.596	308.4	29.59	13.33
111	2007	291	1345	67.75	85.9	4.778	303.6	34.44	13.33
111	2007	291	1400	67.9	86.3	4.8	310	38.85	13.34
111	2007	291	1415	68.45	85.1	5.842	323.3	29.75	13.35
111	2007	291	1430	69.25	83.3	5.326	317.3	37.18	13.17
111	2007	291	1445	69.2	84	5.721	313.2	43.1	12.95
111	2007	291	1500	68.97	83.9	5.056	308.8	41.41	12.88
111	2007	291	1515	69.05	84.6	3.6	296.1	39.32	12.85
111	2007	291	1530	68.28	86.5	3.509	311.5	34.13	12.83
111	2007	291	1545	68.09	87.1	3.942	315.4	39	12.81
111	2007	291	1600	67.54	88.3	4.575	316.8	30.09	12.8
111	2007	291	1615	67.56	88.4	4.355	316.5	38.98	12.79
111	2007	291	1630	67.67	87.9	3.494	291.2	47.57	12.78
111	2007	291	1645	67.59	88	3.432	298.4	42.12	12.77
111	2007	291	1700	67.48	88.3	3.271	310.1	34.17	12.77
111	2007	291	1715	67.25	88.6	3.843	311.8	48.82	12.76
111	2007	291	1730	67.06	89	4.101	319.4	36.52	12.75
111	2007	291	1745	66.88	89.3	4.688	314.8	30.05	12.75
111	2007	291	1800	66.7	89.6	5.314	314.6	33.35	12.75
111	2007	291	1815	66.54	89.7	4.994	313.6	33.99	12.75
111	2007	291	1830	66.56	89.4	4.448	315.7	40.91	12.75
111	2007	291	1845	66.75	88.9	5.006	305.6	39.49	12.75
111	2007	291	1900	66.88	88.8	5.131	312.2	39.16	12.73
111	2007	291	1915	66.85	89.2	4.978	307.9	43.16	12.74
111	2007	291	1930	66.69	89.7	3.902	300.4	41.78	12.73
111	2007	291	1945	66.52	90	3.493	291.7	38.04	12.73
111	2007	291	2000	66.21	90.6	2.975	284.1	40.73	12.72
111	2007	291	2015	66.2	90.8	3.67	275.4	38.93	12.73
111	2007	291	2030	66.47	90.2	4.079	287.9	38.61	12.73
111	2007	291	2045	66.57	90.1	3.493	280.7	36.93	12.72
111	2007	291	2100	66.61	89.6	3.573	277.5	37.84	12.72
111	2007	291	2115	66.43	89.6	3.473	262.5	27.2	12.72
111	2007	291	2130	65.97	90.3	3.009	263.9	35.43	12.71
111	2007	291	2145	65.82	90.5	2.921	261.6	27.13	12.71
111	2007	291	2200	65.85	90.7	2.566	265.5	42.08	12.71
111	2007	291	2215	65.97	90.6	2.32	258.2	35.71	12.7
111	2007	291	2230	66.07	90.6	2.475	279.3	37.36	12.69
111	2007	291	2245	66.06	90.8	3.104	273.4	35.49	12.69
111	2007	291	2300	66.02	91.1	2.467	260.6	31.28	12.68
111	2007	291	2315	66.25	90.8	2.566	258.9	30.65	12.68
111	2007	291	2330	66.26	90.9	2.26	257.2	32.12	12.68
111	2007	291	2345	66.2	90.9	2.483	251.9	29.46	12.67
111	2007	291	2400	66.16	91.1	2.042	245.3	17.6	12.66
111	2007	292	15	66.13	90.9	1.815	250.7	26.8	12.66
111	2007	292	30	66.08	90.9	1.433	266.6	30.35	12.66

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	292	45	66.03	91.1	2.06	263.8	36.61	12.64
111	2007	292	100	66.2	90.9	2.337	290.8	32.97	12.63
111	2007	292	115	66.37	90.6	2.715	278.6	34.34	12.62
111	2007	292	130	66.47	90.4	3.249	280.6	37.51	12.62
111	2007	292	145	66.58	90.3	2.918	279.2	38.3	12.62
111	2007	292	200	66.59	90.3	3.126	271.2	37.81	12.62
111	2007	292	215	66.47	90.4	2.684	269	32.47	12.62
111	2007	292	230	66.38	90.7	2.564	276.4	42.17	12.61
111	2007	292	245	66.33	90.9	3.148	271.3	31.97	12.61
111	2007	292	300	66.32	91.2	2.008	269.4	41.37	12.61
111	2007	292	315	66.36	91.4	2.554	289.6	38.13	12.62
111	2007	292	330	66.43	91.5	2.951	282.4	32.99	12.62
111	2007	292	345	66.49	91.7	2.283	299.4	35.31	12.6
111	2007	292	400	66.6	91.5	2.421	289.3	46.29	12.6
111	2007	292	415	66.62	91.5	2.378	300.1	47.71	12.58
111	2007	292	430	66.57	91.6	2.792	300.6	34.93	12.58
111	2007	292	445	66.57	91.6	2.901	308	34.39	12.67
111	2007	292	500	66.85	91.6	3.549	309	36.45	12.87
111	2007	292	515	67.08	91.4	3.938	323.3	31.29	13.21
111	2007	292	530	67.17	91.5	3.312	307.3	41.75	13.48
111	2007	292	545	67.11	91.5	3.243	292.8	33.63	13.45
111	2007	292	600	67.05	91.6	3.148	303.8	32.32	13.45
111	2007	292	615	66.98	91.8	2.599	288.6	34.32	13.43
111	2007	292	630	66.98	92.1	2.006	274.5	49.3	13.42
111	2007	292	645	67.12	92.3	2.844	301.4	44.63	13.41
111	2007	292	700	67.19	92.5	2.933	285.3	50.07	13.4
111	2007	292	715	67.23	92.8	3.297	292.8	38.5	13.3
111	2007	292	730	67.6	93	3.753	287.5	40.03	13.38
111	2007	292	745	67.83	92.9	4.339	292.5	41.06	13.37
111	2007	292	800	67.74	93.1	4.361	287.1	40.08	13.37
111	2007	292	815	67.61	93.6	4.142	278.5	40.29	13.37
111	2007	292	830	67.68	93.9	4.518	282.1	38.81	13.37
111	2007	292	845	67.84	94	4.988	290.9	38.04	13.37
111	2007	292	900	67.82	94	4.053	291.7	43.37	13.37
111	2007	292	915	67.85	93.9	4.746	282.5	36.8	13.36
111	2007	292	930	67.78	93.8	4.822	265.3	36.99	13.36
111	2007	292	945	67.6	94	4.671	280.2	34.14	13.35
111	2007	292	1000	67.7	93.6	4.794	262	32.15	13.35
111	2007	292	1015	67.82	92.9	4.679	263.2	30.62	13.34
111	2007	292	1030	67.6	93.3	4.011	265.3	44.6	13.35
111	2007	292	1045	67.88	92.9	6.064	281.7	37.33	13.34
111	2007	292	1100	68.78	91.6	5.318	278.6	40.72	13.34
111	2007	292	1115	69.28	90.2	5.173	277.8	44.5	13.33
111	2007	292	1130	69.08	89.9	5.886	279	40.84	13.33
111	2007	292	1145	69.6	87.7	6.525	298.2	39.59	13.33
111	2007	292	1200	69.89	86	6.577	282.3	47.65	13.33
111	2007	292	1215	69.96	85.7	5.663	274.4	38.6	13.34
111	2007	292	1230	69.87	86	5.622	285.7	41.44	13.34
111	2007	292	1245	69.98	86.8	5.741	279.8	40.8	13.33
111	2007	292	1300	69.73	87.7	6.108	265.7	36.59	13.33
111	2007	292	1315	69.07	89.3	7.05	267.2	34.65	13.33
111	2007	292	1330	68.89	90.4	6.144	256.8	35.73	13.34
111	2007	292	1345	68.53	91.8	5.91	259.4	37.16	13.36
111	2007	292	1400	68.7	92	6.235	265.4	35.72	13.36
111	2007	292	1415	68.34	92.7	5.344	263.6	35.67	13.28
111	2007	292	1430	67.87	93	5.181	257.3	33.92	13.13
111	2007	292	1445	67.54	93.6	4.587	261	32.43	12.94
111	2007	292	1500	67.73	93.7	4.063	278.3	45.46	12.87
111	2007	292	1515	67.7	93.9	5.012	264.7	36.24	12.85
111	2007	292	1530	67.69	94.1	6.231	249.7	33.21	12.83

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	292	1545	67.67	94.3	6.414	245.2	31.2	12.81
111	2007	292	1600	67.62	94.4	6.795	244	28.54	12.8
111	2007	292	1615	67.91	94.3	7.36	252.1	33.46	12.79
111	2007	292	1630	67.78	94.4	6.964	246	31.67	12.79
111	2007	292	1645	67.87	94.4	7.36	253.5	33.82	12.79
111	2007	292	1700	67.79	94.4	7.83	250.7	29.99	12.77
111	2007	292	1715	67.64	94.6	7.79	260.6	31.12	12.77
111	2007	292	1730	67.55	94.7	7.28	249.9	27.67	12.76
111	2007	292	1745	67.45	94.8	8.31	247.7	27.96	12.76
111	2007	292	1800	67.52	95	8.14	264.4	32.15	12.76
111	2007	292	1815	67.65	94.9	8.12	272.3	33.17	12.76
111	2007	292	1830	67.47	94.8	6.996	268.6	40.47	12.76
111	2007	292	1845	67.39	95	6.803	265.9	40.13	12.75
111	2007	292	1900	67.5	95	6.076	271.9	34.43	12.75
111	2007	292	1915	67.53	95.1	6.303	271.1	38.32	12.74
111	2007	292	1930	67.47	95	5.997	277.9	39.21	12.75
111	2007	292	1945	67.4	95.2	6.591	268.7	29.72	12.75
111	2007	292	2000	67.5	95.2	6.533	269.9	35.52	12.73
111	2007	292	2015	67.44	95.2	6.086	275.2	47.88	12.73
111	2007	292	2030	67.36	95.3	5.221	269.2	37.29	12.73
111	2007	292	2045	67.45	95.4	5.354	285.9	43.71	12.73
111	2007	292	2100	67.46	95.4	5.975	281.2	42.24	12.72
111	2007	292	2115	67.54	95.5	5.902	296.2	43.03	12.73
111	2007	292	2130	67.62	95.6	5.822	292.8	38.89	12.72
111	2007	292	2145	67.55	95.5	6.519	290.6	42.37	12.72
111	2007	292	2200	67.44	95.6	5.82	289.2	34.7	12.71
111	2007	292	2215	67.47	95.6	6.122	287.9	45.52	12.71
111	2007	292	2230	67.68	95.7	6.201	292.8	33.86	12.71
111	2007	292	2245	67.83	95.8	6.587	292.6	44.86	12.69
111	2007	292	2300	68.12	95.7	6.392	288.4	45.85	12.69
111	2007	292	2315	68.31	95.8	5.735	298.6	40.14	12.69
111	2007	292	2330	68.33	95.7	7.24	299.9	37.74	12.69
111	2007	292	2345	68.22	95.6	6.992	297.9	36.87	12.68
111	2007	292	2400	68.24	95.7	6.63	295.7	36.61	12.68
111	2007	293	15	68.38	95.8	7.16	306.4	37.05	12.68
111	2007	293	30	68.45	95.8	7.06	307.4	38.58	12.67
111	2007	293	45	68.48	95.8	6.845	314.7	38.76	12.66
111	2007	293	100	68.33	95.6	9.17	336.9	27.29	12.67
111	2007	293	115	68.1	93.2	9.55	3.023	21.48	12.66
111	2007	293	130	66.9	89	9.35	36.81	19.95	12.66
111	2007	293	145	65.61	90	5.505	53.48	25.29	12.65
111	2007	293	200	64.49	88.3	4.694	47.52	25.48	12.65
111	2007	293	215	63.96	87	3.538	64.42	29.51	12.65
111	2007	293	230	63.58	87.7	2.983	38.9	21.54	12.64
111	2007	293	245	63.19	88.6	1.013	23.44	14.09	12.64
111	2007	293	300	62.92	89.6	0.268	299.2	4.766	12.63
111	2007	293	315	62.57	90.4	0.047	324.9	4.942	12.63
111	2007	293	330	62.28	90.9	0.459	301	10.82	12.63
111	2007	293	345	62.05	91.7	1.746	338.4	21.06	12.63
111	2007	293	400	62.03	91.7	2.228	346.9	25.76	12.63
111	2007	293	415	61.92	91.6	2.28	336.6	26.08	12.63
111	2007	293	430	61.91	90.8	2.868	334.4	22.43	12.63
111	2007	293	445	61.83	90	2.662	339.7	27.09	12.64
111	2007	293	500	61.64	88.6	2.929	331.3	27.49	12.77
111	2007	293	515	61.45	88.2	2.28	337.1	19.68	13.11
111	2007	293	530	61.32	88.5	2.26	341.9	29.74	13.05
111	2007	293	545	61.09	89.2	1.753	334.7	15.98	13.37
111	2007	293	600	60.95	89.7	1.696	333.4	24.01	13.38
111	2007	293	615	60.96	90	2.498	328	18.99	13.36
111	2007	293	630	61.35	89	3.676	340.9	27.65	13.34

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	293	645	61.53	89.2	3.733	341.1	25.18	13.36
111	2007	293	700	61.4	89.2	4.373	344.2	23.31	13.36
111	2007	293	715	61.2	88.8	4.236	343.6	26.49	13.35
111	2007	293	730	60.91	88.9	4.071	348.9	22.1	13.35
111	2007	293	745	60.79	88.5	3.998	353.2	24.35	13.34
111	2007	293	800	60.62	88	4.057	359.5	19.85	13.33
111	2007	293	815	60.56	87.7	3.543	355.2	19.81	13.33
111	2007	293	830	60.71	86.9	4.073	351.6	19.2	13.33
111	2007	293	845	61.47	83.5	4.704	348.8	17.78	13.33
111	2007	293	900	62.21	81.2	5.197	355.3	24.13	13.33
111	2007	293	915	62.56	79.2	5.342	1.27	18.66	13.33
111	2007	293	930	62.94	77.6	5.622	354.3	29.58	13.32
111	2007	293	945	63.06	76.3	6.09	2.222	30.84	13.32
111	2007	293	1000	63.11	74	5.673	6.27	25.03	13.32
111	2007	293	1015	63.24	73.7	5.701	8.11	15.88	13.32
111	2007	293	1030	63.28	72.4	6.184	7.3	28.88	13.3
111	2007	293	1045	63.3	71	6.622	2.059	26.47	13.32
111	2007	293	1100	63.23	70.6	5.107	7.27	34.21	13.3
111	2007	293	1115	63.81	67.73	6.98	7.4	23.39	13.32
111	2007	293	1130	64.64	64.38	6.618	0.142	23.93	13.32
111	2007	293	1145	64.95	65.32	7.01	1.648	27.09	13.32
111	2007	293	1200	65.84	60.8	7.62	356.5	27.39	13.33
111	2007	293	1215	67.52	51.51	7.24	349	30.03	13.34
111	2007	293	1230	68.45	47.86	8.71	7.58	23.64	13.33
111	2007	293	1245	69.15	46.82	6.585	16.01	23.74	13.34
111	2007	293	1300	69.46	41.4	8.44	351.1	23.81	13.34
111	2007	293	1315	69.33	42.27	8.71	5.867	24.64	13.34
111	2007	293	1330	69.66	43.37	7.78	0.827	31.14	13.22
111	2007	293	1345	69.96	41.99	8.68	9.28	28.97	12.98
111	2007	293	1400	69.93	43.83	9.1	356	27.95	12.89
111	2007	293	1415	69.99	42.59	9.21	355.9	20.13	12.85
111	2007	293	1430	70.4	40.25	8.32	7.78	25.62	12.86
111	2007	293	1445	70.2	41.22	10.53	349.4	24.04	12.83
111	2007	293	1500	70.1	41.59	9.82	10.2	23.51	12.81
111	2007	293	1515	70.4	38.98	10.35	357.1	25.54	12.81
111	2007	293	1530	70.1	40.15	10.67	351.4	21.92	12.8
111	2007	293	1545	69.71	40.89	9.8	351.8	23.73	12.8
111	2007	293	1600	69.66	43.33	9.22	349.9	27.1	12.78
111	2007	293	1615	69.23	43	9.74	352.3	33.78	12.79
111	2007	293	1630	69.03	42.49	9.15	342.9	28.09	12.78
111	2007	293	1645	68.85	43.83	8.66	356.8	21.72	12.77
111	2007	293	1700	68.22	45.24	7.2	5.671	25.89	12.77
111	2007	293	1715	67.74	41.6	8.49	5.4	22.02	12.77
111	2007	293	1730	67.83	41.4	8.59	4.864	21.16	12.77
111	2007	293	1745	67.53	42.84	8.84	10.24	25.39	12.77
111	2007	293	1800	67.04	41.94	9.08	14.28	18.99	12.76
111	2007	293	1815	66.48	43.85	8.77	6.504	20.51	12.76
111	2007	293	1830	65.89	45.38	6.515	13.35	14.66	12.76
111	2007	293	1845	65.25	47.33	5.143	12.96	25.05	12.75
111	2007	293	1900	64.29	49.63	3.658	14.38	23.98	12.75
111	2007	293	1915	64.09	48.84	5	12.59	19.32	12.75
111	2007	293	1930	64.35	44.56	6.567	9.83	22.42	12.75
111	2007	293	1945	64.61	45.87	5.961	7.18	19.65	12.74
111	2007	293	2000	63.94	47.97	4.321	9.06	15.92	12.73
111	2007	293	2015	63.02	49.28	3.481	8.73	26	12.72
111	2007	293	2030	62.57	50.55	3.054	4.927	24.64	12.72
111	2007	293	2045	60.99	56.54	1.279	14.07	36.05	12.72
111	2007	293	2100	59.26	61.09	1.494	3.273	21.78	12.71
111	2007	293	2115	58.52	64.9	1.168	2.452	20.51	12.71
111	2007	293	2130	56.85	69.46	0.649	0.283	26.01	12.71

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	293	2145	55.66	73.2	0.045	6.639	2.292	12.71
111	2007	293	2200	54.9	71.4	0.04	11.86	0.929	12.7
111	2007	293	2215	55.07	74.2	0.018	20.53	0.216	12.7
111	2007	293	2230	54.29	78.4	0.045	61.7	7.08	12.69
111	2007	293	2245	53.55	78.2	0.009	346.8	0.003	12.69
111	2007	293	2300	52.86	80.1	0.467	357.4	12.34	12.68
111	2007	293	2315	52.96	77.1	1.881	357.7	16.23	12.67
111	2007	293	2330	55.41	66.4	2.951	354	19.2	12.67
111	2007	293	2345	56.9	62.09	3.731	354.5	20.61	12.66
111	2007	293	2400	57.82	62.12	4.405	350.5	18.08	12.65
111	2007	294	15	57.47	61.85	3.845	340.8	14.05	12.65
111	2007	294	30	57.36	62.85	3.426	355.4	23.91	12.65
111	2007	294	45	57.67	61.68	3.868	355.4	14.65	12.64
111	2007	294	100	57.62	62.32	4.083	344.6	17.65	12.64
111	2007	294	115	57.46	63.02	3.585	345	23.57	12.64
111	2007	294	130	57.15	62.32	3.9	353.4	24.2	12.63
111	2007	294	145	57.01	63.32	3.436	341.9	17.84	12.63
111	2007	294	200	56.4	64.63	2.608	339.6	20.86	12.63
111	2007	294	215	55.5	68.01	2.302	348.5	20.27	12.63
111	2007	294	230	54.89	67.27	2.036	3.503	29.25	12.62
111	2007	294	245	54.95	67.54	2.272	345.9	23.86	12.61
111	2007	294	300	55.62	63.19	3.553	2.424	24	12.61
111	2007	294	315	56.04	64.29	3.203	347.8	23.01	12.61
111	2007	294	330	55.35	66.33	2.314	338.4	24.04	12.62
111	2007	294	345	54.42	68.67	2.238	355.4	21.53	12.62
111	2007	294	400	54.52	67.9	2.89	0.451	24.22	12.61
111	2007	294	415	54.63	66.73	3.227	3.142	13.61	12.61
111	2007	294	430	54.69	66.27	3.533	4.375	23.89	12.61
111	2007	294	445	54.44	68.11	2.645	4.531	17.37	12.61
111	2007	294	500	53.18	71.5	1.174	9.72	16.19	12.61
111	2007	294	515	52.54	72.4	1.159	8.44	22.15	12.61
111	2007	294	530	52.47	72	1.459	336.4	23.78	12.61
111	2007	294	545	52.36	71.9	1.581	354.8	26.63	12.62
111	2007	294	600	52.48	71.6	1.422	350.9	20.21	12.61
111	2007	294	615	52.27	73.1	1.744	359.2	16.23	12.61
111	2007	294	630	51.63	74.4	1.366	356	11.46	12.61
111	2007	294	645	51.2	75.4	0.513	7.65	17.43	12.73
111	2007	294	700	50.21	80.5	0.808	358	21.82	12.81
111	2007	294	715	49.47	81.9	2.121	9.34	24.14	12.73
111	2007	294	730	50.48	77.8	1.523	356.7	17.77	12.67
111	2007	294	745	51.19	75.4	0.916	16.47	23.24	12.63
111	2007	294	800	52.92	71.5	1.766	6.187	16.76	12.71
111	2007	294	815	54.28	68.26	2.236	9.54	23.35	12.72
111	2007	294	830	55.45	65.34	4.321	5.492	19.03	12.72
111	2007	294	845	56.59	62.96	5.127	6.173	24.85	12.74
111	2007	294	900	58.04	59.84	4.361	3.534	22.93	12.83
111	2007	294	915	59.48	55.38	5.445	3.344	20.06	12.75
111	2007	294	930	60.6	53.27	5.731	14.14	23.06	12.64
111	2007	294	945	61.76	49.52	5.852	5.299	26.7	12.62
111	2007	294	1000	62.8	47.14	5.463	15.39	27.71	12.63
111	2007	294	1015	63.67	46	5.505	23.45	20.65	12.78
111	2007	294	1030	64.74	44.29	4.706	29.78	26.16	12.79
111	2007	294	1045	65.31	41.74	5.141	37.7	28.48	12.77
111	2007	294	1100	65.7	41.61	5.205	35.18	34.24	12.81
111	2007	294	1115	66.23	41.14	4.72	23.64	28.92	13.11
111	2007	294	1130	66.75	40.1	5.189	23.11	29.86	13.02
111	2007	294	1145	67.35	40.3	4.565	14.15	32.39	13.01
111	2007	294	1200	68.25	38.02	3.737	29.91	38.5	13.03
111	2007	294	1215	68.76	36.69	3.944	14.76	49.67	12.95
111	2007	294	1230	69.27	34.74	3.632	0.66	58.61	12.9

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	294	1245	70	35.81	5.189	359	32.1	12.9
111	2007	294	1300	70.4	37.11	3.966	317.9	59.17	12.83
111	2007	294	1315	70.7	43.4	5.165	323.2	39.55	12.75
111	2007	294	1330	69.76	44.63	5.427	315.4	31.95	12.73
111	2007	294	1345	70.4	41.59	4.732	282.6	38.8	12.68
111	2007	294	1400	70.5	41.59	5.246	314.1	40.83	12.65
111	2007	294	1415	70.6	44.8	5.657	337.1	26.62	12.63
111	2007	294	1430	70.8	39.85	5.747	330	30.77	12.61
111	2007	294	1445	71.7	39.15	4.407	328.4	37.22	12.6
111	2007	294	1500	72.2	37.11	5.576	316.1	31.27	12.59
111	2007	294	1515	71.4	36.71	5.594	332.1	33.98	12.59
111	2007	294	1530	71.8	36.81	4.597	315.9	30.87	12.58
111	2007	294	1545	71.4	39.85	5.405	326.6	28.79	12.57
111	2007	294	1600	70.7	44.53	5.491	328.9	34.88	12.58
111	2007	294	1615	71	44.27	4.434	312.7	35.32	12.57
111	2007	294	1630	70.5	43.9	5.046	325.6	36.99	12.57
111	2007	294	1645	70.1	47.07	4.613	330	24.54	12.57
111	2007	294	1700	69.73	48.08	4.307	302.2	31.2	12.57
111	2007	294	1715	68.85	50.79	3.32	322.8	32.87	12.57
111	2007	294	1730	68.08	54.5	3.132	317.7	30.51	12.57
111	2007	294	1745	67.06	59.14	2.477	316.2	36.54	12.56
111	2007	294	1800	65.4	65.68	2.766	308.1	27.05	12.56
111	2007	294	1815	63.87	71.1	2.272	301.4	24.35	12.56
111	2007	294	1830	62.91	74.8	2.298	316.3	24.25	12.56
111	2007	294	1845	62.51	77.1	2.393	321.1	25.61	12.55
111	2007	294	1900	62.36	78.5	2.665	326.4	33.37	12.56
111	2007	294	1915	62.57	79.8	3.275	320.2	29.03	12.56
111	2007	294	1930	62.67	80.3	2.373	318	36.58	12.56
111	2007	294	1945	62.91	77.6	3.338	323.4	25.36	12.55
111	2007	294	2000	63.19	77.5	3.402	319.3	34.89	12.54
111	2007	294	2015	63.17	78.3	3.36	316.3	34.7	12.55
111	2007	294	2030	63.2	77.9	3.07	328.8	24.31	12.55
111	2007	294	2045	63.09	77.4	2.693	324.1	38.96	12.55
111	2007	294	2100	63.44	75.5	3.96	331	26.09	12.55
111	2007	294	2115	63.89	74.5	4.631	332.1	24.61	12.54
111	2007	294	2130	64.15	74	4.625	334.8	24.22	12.54
111	2007	294	2145	64.12	74.7	4.442	331.5	28.93	12.54
111	2007	294	2200	63.93	75.4	3.767	331	29.56	12.54
111	2007	294	2215	63.88	75.3	4.867	338	29.23	12.54
111	2007	294	2230	63.71	75.4	4.714	339.4	28.3	12.54
111	2007	294	2245	63.52	72.7	5.111	337.6	18.75	12.53
111	2007	294	2300	63.52	70.6	4.845	334.5	21.8	12.52
111	2007	294	2315	63.22	69.62	4.216	330.7	26.7	12.53
111	2007	294	2330	62.91	66.78	4.619	334.8	20.33	12.53
111	2007	294	2345	62.84	63	4.706	342.6	24.51	12.52
111	2007	294	2400	62.73	60.05	4.857	340.4	28.82	12.52
111	2007	295	15	62.63	61.02	5.524	336.3	22.86	12.53
111	2007	295	30	62.42	63.3	5.481	338.2	18.84	12.52
111	2007	295	45	61.97	67.48	4.258	338.6	17.55	12.52
111	2007	295	100	61.67	70.1	4.363	346	25.25	12.52
111	2007	295	115	61.23	72.8	2.288	358.2	26.55	12.52
111	2007	295	130	60.26	74.8	1.407	1.024	28.02	12.52
111	2007	295	145	59.56	76.2	2.438	7.5	28.89	12.51
111	2007	295	200	59.43	76	2.888	336	20.06	12.51
111	2007	295	215	59.38	74.8	3.362	345.5	20.38	12.51
111	2007	295	230	59.42	75.3	2.671	339.5	17.2	12.51
111	2007	295	245	58.84	76.6	1.611	339.9	18.04	12.5
111	2007	295	300	57.84	78.5	0.539	34.34	12.88	12.5
111	2007	295	315	56.44	81.8	0.116	301.5	12.1	12.5
111	2007	295	330	54.81	84.6	0.082	229.4	5.089	12.49

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	295	345	53.72	86.8	na	na	na	12.5
111	2007	295	400	53.21	88.1	na	na	na	12.5
111	2007	295	415	52.88	90.2	0.652	304.6	16.49	12.49
111	2007	295	430	55.11	87.7	1.893	336.8	21.83	12.5
111	2007	295	445	56.07	86.9	1.175	333.3	27.21	12.5
111	2007	295	500	56.88	85.3	1.388	343.5	29.34	12.49
111	2007	295	515	57.15	85	0.85	10.85	35.6	12.5
111	2007	295	530	57.22	84.6	1.596	355	22.62	12.5
111	2007	295	545	57.3	84.8	1.184	326.8	40	12.5
111	2007	295	600	57.92	83.7	2.422	338.1	23.45	12.5
111	2007	295	615	58.28	83.1	2.614	348	21.92	12.5
111	2007	295	630	58.7	82.6	3.048	332.5	27.32	12.56
111	2007	295	645	59.15	83	3.287	335.6	32.06	12.7
111	2007	295	700	58.99	83.7	2.144	342.8	35.12	12.59
111	2007	295	715	58.59	84.8	2.131	349.3	22.99	12.58
111	2007	295	730	58.26	85.7	1.208	353.7	24.47	12.59
111	2007	295	745	58.21	86.3	1.089	349.2	37.4	12.59
111	2007	295	800	58.85	85.9	2.05	37.24	23.43	12.71
111	2007	295	815	59.65	84.4	1.511	349.7	22.25	12.8
111	2007	295	830	60.4	83	2.834	350.5	23.19	12.72
111	2007	295	845	61.32	80.8	2.947	20.5	29.56	12.7
111	2007	295	900	61.88	78.8	3.555	28.96	28.58	12.58
111	2007	295	915	62.45	76.8	3.531	5.46	25.86	12.52
111	2007	295	930	63.44	74.9	3.39	6.28	32.31	12.55
111	2007	295	945	64.35	71.5	3.978	24.33	33.83	12.62
111	2007	295	1000	65.34	69.61	3.015	355.7	23.24	12.67
111	2007	295	1015	66.17	66.39	4.142	354.6	23.99	12.8
111	2007	295	1030	67.04	65.28	3.847	359.1	28.99	13.04
111	2007	295	1045	67.76	61.64	4.168	345.1	31.18	12.97
111	2007	295	1100	68.22	65.08	4.025	286.3	38.9	12.9
111	2007	295	1115	68	68.89	3.789	308.7	42.59	12.8
111	2007	295	1130	67.51	67.82	4.047	309	40.23	12.8
111	2007	295	1145	68.19	69.73	4.414	302.8	40.59	12.75
111	2007	295	1200	66.86	72.7	4.945	322.6	35.03	12.76
111	2007	295	1215	68.23	67.35	4.095	306.3	39.65	12.79
111	2007	295	1230	69.31	66.04	4.559	306	31.81	12.93
111	2007	295	1245	69.04	65.2	4.772	301.9	32.39	12.74
111	2007	295	1300	68.91	67.07	4.623	302.4	42.92	12.66
111	2007	295	1315	68.69	65.4	4.825	303.7	38.48	12.6
111	2007	295	1330	68.53	64.19	5.959	305.2	35.29	12.58
111	2007	295	1345	67.06	69.11	5.37	317.4	32.29	12.58
111	2007	295	1400	68.47	64.86	4.945	308.9	29.56	12.55
111	2007	295	1415	68.23	67.84	5.439	315.1	33.77	12.52
111	2007	295	1430	67.79	70.3	5.9	321.6	28.62	12.51
111	2007	295	1445	68.44	70.8	5.407	310.6	36.85	12.5
111	2007	295	1500	68.88	70.1	5.238	288	35.89	12.5
111	2007	295	1515	68.52	68.77	5.697	302	32.76	12.5
111	2007	295	1530	68.96	70.9	5.562	294.7	32.76	12.5
111	2007	295	1545	69.28	70.6	5.64	285.1	43.25	12.49
111	2007	295	1600	69.44	76.3	6.16	298.6	34.7	12.49
111	2007	295	1615	68.92	76.1	5.606	292.3	37.4	12.49
111	2007	295	1630	68.7	80	6.192	286.4	33.06	12.49
111	2007	295	1645	67.82	80.9	4.591	291	35.09	12.48
111	2007	295	1700	67.93	81.1	5.084	306.3	39.36	12.48
111	2007	295	1715	67.71	83.8	6.078	297.2	34.33	12.48
111	2007	295	1730	66.75	85.8	5.497	304.9	40.17	12.48
111	2007	295	1745	66.31	86.3	4.814	302	42.38	12.47
111	2007	295	1800	65.53	87.5	4.115	309	39.6	12.48
111	2007	295	1815	65.06	87.6	4.75	311	36.85	12.47
111	2007	295	1830	64.69	87.4	4.428	302	35.27	12.46

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	295	1845	64.69	86.7	4.273	310.2	35.63	12.46
111	2007	295	1900	64.74	86.3	4.823	310.8	38.28	12.46
111	2007	295	1915	64.9	86	5.258	312.8	32.94	12.46
111	2007	295	1930	64.81	86.1	4.843	309.3	41.17	12.46
111	2007	295	1945	64.9	85.8	5.868	306.9	33.28	12.47
111	2007	295	2000	64.94	85.9	5.957	303.2	36.18	12.46
111	2007	295	2015	64.97	85.5	5.185	317.5	40.49	12.46
111	2007	295	2030	64.94	85.2	5.862	315.7	39.04	12.46
111	2007	295	2045	64.83	85.3	5.225	310.2	35.78	12.47
111	2007	295	2100	64.81	85.7	5.268	310.3	32.57	12.46
111	2007	295	2115	64.77	86.1	5.344	317.7	34.69	12.46
111	2007	295	2130	64.77	86.2	5.804	319.9	29.76	12.46
111	2007	295	2145	64.87	86.5	5.211	316	31.67	12.46
111	2007	295	2200	64.83	87.3	5.421	311.7	35.87	12.46
111	2007	295	2215	64.79	87.9	5.415	306.7	32.01	12.46
111	2007	295	2230	64.82	88.5	5.354	313.2	36.09	12.46
111	2007	295	2245	64.73	88.7	4.575	307.3	36.19	12.46
111	2007	295	2300	64.53	89.4	5.064	311	38.33	12.46
111	2007	295	2315	64.55	89.7	5.129	306.7	36.47	12.46
111	2007	295	2330	64.57	89.8	4.387	317.8	31.89	12.46
111	2007	295	2345	64.63	89.9	4.806	315.3	29.71	12.46
111	2007	295	2400	64.57	89.9	5.115	318.7	32.33	12.46
111	2007	296	15	64.59	90	4.978	321.3	28.92	12.46
111	2007	296	30	64.54	90	5.26	315.4	29.94	12.46
111	2007	296	45	64.72	89.8	4.947	320.5	29.11	12.46
111	2007	296	100	64.77	89.6	5.725	325.6	36.65	12.46
111	2007	296	115	64.64	89.6	5.215	320.9	30.04	12.46
111	2007	296	130	64.58	89.7	4.629	321.1	34.89	12.46
111	2007	296	145	64.46	90.1	4.823	323.4	30.85	12.46
111	2007	296	200	64.38	90.1	3.714	305.4	41.53	12.46
111	2007	296	215	64.49	90.2	4.156	322.6	31.13	12.44
111	2007	296	230	64.63	90.1	5.082	318.1	37.1	12.46
111	2007	296	245	64.7	90.2	4.549	324.9	29.94	12.45
111	2007	296	300	64.67	90.4	4.297	312.4	39.15	12.45
111	2007	296	315	64.69	90.8	5.244	308	37.03	12.45
111	2007	296	330	64.62	91	3.837	319.1	37.47	12.44
111	2007	296	345	64.72	90.9	4.486	312.4	39.01	12.45
111	2007	296	400	64.92	90.5	4.123	320.9	34.8	12.45
111	2007	296	415	64.99	90.3	4.577	314.9	40.41	12.45
111	2007	296	430	64.99	90.2	5.072	312.8	33.19	12.45
111	2007	296	445	64.97	90.4	5.302	311.6	35.81	12.45
111	2007	296	500	64.9	90.7	5.785	314.4	33.73	12.5
111	2007	296	515	64.85	91	4.825	320	38.5	12.49
111	2007	296	530	64.67	91.4	4.305	309.3	39.76	12.52
111	2007	296	545	64.59	91.7	4.311	312.6	29.6	12.52
111	2007	296	600	64.56	91.8	4.218	306.9	37.45	12.51
111	2007	296	615	64.56	92.2	4.474	308.7	40.45	12.55
111	2007	296	630	64.65	92.1	4.988	305.5	41.44	12.58
111	2007	296	645	64.72	91.9	4.641	306.4	38.3	12.51
111	2007	296	700	64.63	92	3.984	298.1	39.29	12.49
111	2007	296	715	64.63	92	4.472	314.2	37.86	12.48
111	2007	296	730	65.01	91.4	6.422	311.7	32.35	12.48
111	2007	296	745	65.29	90.7	5.316	312.1	35.65	12.49
111	2007	296	800	65.57	89.9	5.139	311.4	32.55	12.54
111	2007	296	815	66.12	88.4	4.768	297.4	42.35	12.7
111	2007	296	830	66.7	86.4	5.989	302.6	32.53	12.87
111	2007	296	845	66.7	87.1	5.298	298.9	40.29	12.88
111	2007	296	900	67.37	85.3	5.274	296.9	41.24	12.94
111	2007	296	915	67.99	84.2	5.657	296.8	38.69	12.93
111	2007	296	930	68.54	82.9	5.505	295.6	43.68	12.98

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	296	945	68.75	82.5	6.573	294.2	36.13	12.87
111	2007	296	1000	68.75	81.8	6.331	295.3	40.88	12.78
111	2007	296	1015	69.51	80	6.575	297.1	31.95	12.75
111	2007	296	1030	69.86	79	7.71	314.3	31.82	12.71
111	2007	296	1045	70.2	77.7	7.98	308.9	34.43	12.74
111	2007	296	1100	69.95	77.9	6.746	310.8	32.28	12.85
111	2007	296	1115	70.6	78.1	7.98	307.2	32.45	12.87
111	2007	296	1130	70.9	76.8	7.28	306	36.6	12.82
111	2007	296	1145	70.7	78.5	7.12	295.7	32.74	12.71
111	2007	296	1200	70.8	77.6	6.749	299.6	40.43	12.64
111	2007	296	1215	71.2	76.7	7.08	292.8	38.59	12.6
111	2007	296	1230	72	74.4	6.843	286.6	43.68	12.56
111	2007	296	1245	71.2	77	8.75	284.1	39.56	12.54
111	2007	296	1300	71.1	76.9	8.28	294.6	41.02	12.51
111	2007	296	1315	71.5	76	8.53	291.2	32.81	12.5
111	2007	296	1330	71.6	76.7	6.356	288.2	46.02	12.49
111	2007	296	1345	71.1	76.8	8.48	292.6	34.43	12.48
111	2007	296	1400	71.1	76	7.24	292.3	46.98	12.46
111	2007	296	1415	71	77.2	8.2	294.6	35.74	12.47
111	2007	296	1430	71	76.1	8.31	300	33.42	12.46
111	2007	296	1445	70.7	77.1	8.3	297.4	35.9	12.46
111	2007	296	1500	70.5	79.2	8.28	289.1	38.71	12.46
111	2007	296	1515	69.62	79.4	7.61	288.3	38.94	12.46
111	2007	296	1530	70.1	77.4	8.25	297.8	40.45	12.46
111	2007	296	1545	70.7	78.8	8.15	297.7	37.57	12.46
111	2007	296	1600	70.2	79.6	7.97	306.6	39.58	12.45
111	2007	296	1615	69.28	80.6	8.55	302.7	33.72	12.45
111	2007	296	1630	69.39	80.6	8.63	307.2	38.46	12.45
111	2007	296	1645	69.29	81.5	7.88	302.7	37.76	12.46
111	2007	296	1700	68.8	83	7.97	305	34.95	12.46
111	2007	296	1715	68.57	83.2	8.46	312.2	37.29	12.45
111	2007	296	1730	68.5	84.1	8.09	306	38.25	12.45
111	2007	296	1745	68.38	84.9	7.94	303.2	31.74	12.44
111	2007	296	1800	68.37	85.2	7.91	306.2	36.88	12.46
111	2007	296	1815	68.28	86	9.05	308.2	33.64	12.46
111	2007	296	1830	68.13	86.8	7.73	308.6	41.78	12.45
111	2007	296	1845	67.93	87.4	7.66	308.6	30.83	12.46
111	2007	296	1900	67.73	88.4	6.634	307.7	31.5	12.46
111	2007	296	1915	67.64	88.8	6.811	313.5	34.02	12.45
111	2007	296	1930	67.63	89.2	6.587	311.2	42.61	12.45
111	2007	296	1945	67.8	89.6	7.34	319.1	43.32	12.45
111	2007	296	2000	67.99	89.4	7.46	315.6	31.76	12.45
111	2007	296	2015	68.09	89	7.61	324.4	33.75	12.45
111	2007	296	2030	68.04	88.5	7.77	318.7	28.24	12.44
111	2007	296	2045	68	88.1	7.73	324.4	31.14	12.42
111	2007	296	2100	67.91	88.1	6.744	322.3	36.92	12.45
111	2007	296	2115	67.81	87.9	7.29	320	36.11	12.45
111	2007	296	2130	67.86	87.3	7.78	321	31.47	12.45
111	2007	296	2145	68.07	86.8	7.34	317.7	33.15	12.45
111	2007	296	2200	68.18	86.6	7.92	325.6	32.55	12.44
111	2007	296	2215	68.24	87	7.97	332.8	27.91	12.45
111	2007	296	2230	68.18	87.5	7.58	321.8	35.23	12.45
111	2007	296	2245	68.22	87.9	8.95	326.6	31.35	12.45
111	2007	296	2300	68.11	88.3	8.44	326.9	33.09	12.45
111	2007	296	2315	67.99	88.6	7.42	324.8	33.9	12.45
111	2007	296	2330	67.99	89	7.58	323.9	30.78	12.44
111	2007	296	2345	67.97	89.2	7.62	317.6	32.57	12.44
111	2007	296	2400	67.85	89.4	7.51	323.5	29.54	12.44
111	2007	297	15	67.79	89.6	7.62	331.2	31.98	12.45
111	2007	297	30	67.75	89.9	7.3	330.6	26.72	12.45

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	297	45	67.72	90.1	7.37	339.6	22.24	12.45
111	2007	297	100	67.82	89.7	7.27	344.2	22.65	12.45
111	2007	297	115	68.14	88.8	6.46	9.27	28.08	12.45
111	2007	297	130	66.26	89.1	6.416	51.75	28.07	12.45
111	2007	297	145	64.82	90.5	4.911	44.09	27.49	12.45
111	2007	297	200	64.48	91.1	3.042	53.5	21.52	12.45
111	2007	297	215	64.49	91.4	2.014	22.22	28.43	12.45
111	2007	297	230	64.68	91.3	2.443	357.9	28.96	12.45
111	2007	297	245	64.7	91.3	2.735	6.091	22.98	12.45
111	2007	297	300	64.63	91.6	2.8	337.7	15.24	12.45
111	2007	297	315	64.56	91.7	1.414	314	28.76	12.45
111	2007	297	330	64.59	91.9	1.808	276.6	37.3	12.46
111	2007	297	345	64.62	91.9	0.97	332.7	29.13	12.46
111	2007	297	400	64.64	91.9	0.757	301.4	24.22	12.46
111	2007	297	415	64.71	92.1	2.292	329.8	36.08	12.45
111	2007	297	430	64.93	91.9	2.64	323.7	35.26	12.46
111	2007	297	445	64.78	91.9	2.512	344.6	24.81	12.45
111	2007	297	500	64.61	92	2.321	322.3	27.54	12.45
111	2007	297	515	64.48	92.2	1.92	330.7	26.94	12.45
111	2007	297	530	64.5	92.2	2.584	5.56	22.38	12.46
111	2007	297	545	64.58	92.3	3.245	16.09	19.12	12.5
111	2007	297	600	64.73	91.9	3.029	351.7	20.43	12.5
111	2007	297	615	64.55	91.7	0.798	323	15.15	12.51
111	2007	297	630	64.34	92	1.401	331.7	35.95	12.48
111	2007	297	645	64.23	92.2	1.419	265.4	52.49	12.47
111	2007	297	700	64.21	92.3	2.02	334.1	32.15	12.46
111	2007	297	715	64.09	92.3	1.91	328.9	50.87	12.46
111	2007	297	730	64.07	92.6	3.16	251.1	28.88	12.57
111	2007	297	745	64.22	92.5	3.253	25.84	49.96	12.6
111	2007	297	800	64.29	92.4	3.042	30.63	33.52	12.69
111	2007	297	815	64.43	92.5	2.29	357.8	32.36	12.73
111	2007	297	830	64.55	92.5	1.311	347	31.67	12.65
111	2007	297	845	64.71	92.3	0.742	270	29.3	12.65
111	2007	297	900	64.93	92.1	2.048	352.1	25.19	12.66
111	2007	297	915	63.53	90.4	5.634	84.3	28.47	12.65
111	2007	297	930	61.58	89.6	5.37	88.5	37.57	12.72
111	2007	297	945	60.7	89.8	5.064	90.6	38.75	12.79
111	2007	297	1000	60.62	89.6	4.017	99.6	33.53	12.84
111	2007	297	1015	60.41	89.3	4.389	99.9	34.55	12.71
111	2007	297	1030	60.27	88.7	3.048	106.1	48.03	12.69
111	2007	297	1045	59.96	88.5	3.648	107.1	42.67	12.63
111	2007	297	1100	59.75	88.5	2.573	125.4	48.53	12.6
111	2007	297	1115	59.51	88.8	2.816	124.3	47.37	12.57
111	2007	297	1130	59.26	89.9	2.242	103.9	42.87	12.55
111	2007	297	1145	59.23	89.7	2.433	139.8	63.64	12.54
111	2007	297	1200	59.49	90.3	2.691	108.5	42.53	12.51
111	2007	297	1215	59.76	90.6	2.307	117.4	54.14	12.52
111	2007	297	1230	59.68	90.1	2.475	112.4	56.72	12.49
111	2007	297	1245	59.76	90.1	2.599	87.4	40.6	12.48
111	2007	297	1300	59.76	90	3.698	73.6	25.71	12.47
111	2007	297	1315	59.88	89.7	2.761	91	32.54	12.47
111	2007	297	1330	60.23	88.2	3.404	84.2	30.36	12.47
111	2007	297	1345	60.25	87	3.72	92.1	34.31	12.47
111	2007	297	1400	60.11	86.9	4.142	90.6	41.93	12.47
111	2007	297	1415	60.4	86.4	2.761	86.5	52.32	12.55
111	2007	297	1430	60.6	84.6	3.722	100.4	48.41	12.78
111	2007	297	1445	60.44	83.5	4.206	90.2	36.55	12.64
111	2007	297	1500	60.37	82.8	4.454	93.9	37.48	12.57
111	2007	297	1515	60.42	82.6	4.333	99.1	46.48	12.52
111	2007	297	1530	60.37	82.4	3.588	125.3	40.96	12.48

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	297	1545	60.37	82.1	4.029	99.2	40.04	12.47
111	2007	297	1600	60.59	82.2	3.255	119.8	41.23	12.45
111	2007	297	1615	60.84	81.2	4.103	100.7	43.87	12.45
111	2007	297	1630	60.78	80.5	3.958	97.1	31.67	12.43
111	2007	297	1645	60.92	80	3.316	102.7	41.6	12.43
111	2007	297	1700	61.04	79.5	3.025	120.3	50.84	12.43
111	2007	297	1715	60.96	79.8	2.308	104.7	38.11	12.43
111	2007	297	1730	60.8	80.2	2.876	110.5	47.08	12.43
111	2007	297	1745	60.44	83.1	1.739	125.4	54.92	12.42
111	2007	297	1800	60	85.3	1.532	114	31.52	12.42
111	2007	297	1815	59.85	86.2	1.885	106.9	44.06	12.42
111	2007	297	1830	59.68	87.2	1.469	90.7	54.12	12.42
111	2007	297	1845	59.56	86.6	2.139	103.3	48.8	12.42
111	2007	297	1900	59.33	85.3	2.274	115.2	47	12.41
111	2007	297	1915	59.17	84.8	2.161	124.7	41.66	12.42
111	2007	297	1930	58.96	85.6	2.204	109.5	40.98	12.41
111	2007	297	1945	58.61	86.7	1.933	102.5	41.54	12.42
111	2007	297	2000	58.11	87.9	2.457	104.9	36.77	12.4
111	2007	297	2015	57.79	88.8	2.766	95.1	49.33	12.4
111	2007	297	2030	57.68	89.2	3.074	108.6	59.93	12.4
111	2007	297	2045	57.53	89.9	2.644	107.7	51.81	12.4
111	2007	297	2100	57.45	90.6	2.923	98.5	31.58	12.4
111	2007	297	2115	57.35	90.9	2.691	114.7	58.38	12.39
111	2007	297	2130	57.12	90.6	3.255	122.4	45.97	12.39
111	2007	297	2145	56.87	90.2	2.947	129.2	51.28	12.39
111	2007	297	2200	56.68	90.1	3.172	86.2	30.72	12.39
111	2007	297	2215	56.55	90	2.836	104.2	42.92	12.39
111	2007	297	2230	56.41	90.1	2.997	100.2	37.12	12.39
111	2007	297	2245	56.27	90.4	2.977	118.6	46.8	12.38
111	2007	297	2300	56.21	90.6	2.836	115.5	48.29	12.39
111	2007	297	2315	56.29	90.6	2.474	112.5	47.64	12.38
111	2007	297	2330	56.31	90.2	2.728	135.3	57.39	12.38
111	2007	297	2345	56.47	89.7	2.544	120.5	49.57	12.38
111	2007	297	2400	56.49	89.2	3.221	112.1	39.85	12.38
111	2007	298	15	56.41	89.5	3.193	98.7	38.99	12.36
111	2007	298	30	56.11	90.7	3.461	96.1	37.77	12.36
111	2007	298	45	55.82	91.4	2.623	96.2	54.51	12.37
111	2007	298	100	55.35	92.2	4.484	119.6	48.26	12.36
111	2007	298	115	54.92	92.6	4.504	140.1	54.24	12.36
111	2007	298	130	54.59	92.2	4.436	139.4	57.17	12.36
111	2007	298	145	54.23	92.2	4.579	135.8	61.33	12.35
111	2007	298	200	54.19	92.1	3.884	123.2	59.55	12.36
111	2007	298	215	54.14	92.1	3.62	121.7	55.01	12.36
111	2007	298	230	54.24	92	3.66	98.9	44.04	12.36
111	2007	298	245	54.31	91.7	3.416	104.7	41.99	12.36
111	2007	298	300	54.24	90.6	3.886	124.4	52.96	12.35
111	2007	298	315	54.05	90.4	2.965	136.5	56.64	12.35
111	2007	298	330	53.8	90.4	3.064	132.1	50.56	12.35
111	2007	298	345	53.68	90.2	2.949	122.6	50.75	12.35
111	2007	298	400	53.73	89.8	3.036	93	48.41	12.34
111	2007	298	415	53.68	90.3	2.349	114.1	47.75	12.35
111	2007	298	430	53.41	90.9	2.798	137.7	54.69	12.35
111	2007	298	445	53.23	90.8	3.291	105.6	49.86	12.35
111	2007	298	500	52.62	87.3	4.246	102.3	47.55	12.44
111	2007	298	515	51.06	85.6	3.565	134.3	62.08	12.94
111	2007	298	530	50.7	84.3	3.787	134.7	48.34	13.25
111	2007	298	545	50.62	83.9	3.179	134.2	53.14	13.32
111	2007	298	600	50.43	83.5	3.563	150.3	54.38	13.38
111	2007	298	615	50.49	83.3	3.664	154.2	53.38	13.48
111	2007	298	630	50.58	83.6	2.832	139.3	52.43	13.45

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	298	645	50.72	83.9	2.629	145.1	69.14	13.44
111	2007	298	700	50.85	84.3	2.22	123.6	51.85	13.18
111	2007	298	715	50.94	84.2	2.338	129.4	61.42	13.02
111	2007	298	730	51.28	82.4	3.384	149.1	59.4	13.44
111	2007	298	745	51.81	80.6	3.588	138	54.46	13.42
111	2007	298	800	52.14	81.4	2.951	134.7	51.82	13.43
111	2007	298	815	52.33	81.8	3.193	134.1	50.89	13.44
111	2007	298	830	52.6	81.2	3.285	141.3	52.51	13.44
111	2007	298	845	52.91	81.4	2.309	158.5	58.03	13.44
111	2007	298	900	53	81.6	2.651	162.2	53.53	13.44
111	2007	298	915	53.25	81	3.021	136.7	51.84	13.44
111	2007	298	930	53.58	79.7	3.172	123.7	52.24	13.44
111	2007	298	945	53.81	76.8	4.436	142.2	52.87	13.43
111	2007	298	1000	53.88	74.9	5.606	144.7	53.42	13.44
111	2007	298	1015	53.8	75.4	5.105	152.1	66.23	13.43
111	2007	298	1030	53.83	74.8	4.724	166.6	59.2	13.43
111	2007	298	1045	54.08	73.8	4.109	158.4	67.44	13.43
111	2007	298	1100	54.23	74.2	3.962	145.2	70.8	13.43
111	2007	298	1115	54.39	77.3	3.467	150.2	56.77	13.44
111	2007	298	1130	54.3	77.7	2.796	125.9	68.72	13.43
111	2007	298	1145	54.2	78.5	4.778	178.4	38.84	13.44
111	2007	298	1200	54.12	78.1	4.953	175.9	50.62	13.43
111	2007	298	1215	53.73	79.6	4.619	178.7	47.68	13.45
111	2007	298	1230	53.34	82	4.329	160	60.01	13.45
111	2007	298	1245	52.78	84.4	4.442	159.8	49.13	13.45
111	2007	298	1300	52.66	86.8	2.949	143.1	67.01	13.44
111	2007	298	1315	51.98	87.5	5.3	172.1	53.16	13.46
111	2007	298	1330	51.71	88.9	4.915	173.6	37.54	13.47
111	2007	298	1345	51.79	87.4	5.173	167.7	50.87	13.47
111	2007	298	1400	51.86	86.7	4.851	175.5	44.02	13.48
111	2007	298	1415	52.03	87.1	3.527	138.8	64.2	13.14
111	2007	298	1430	51.82	87.6	3.442	147.7	61.86	13.07
111	2007	298	1445	51.74	87.3	3.295	131.3	57.8	12.95
111	2007	298	1500	51.93	87.5	2.8	144.7	61.45	12.9
111	2007	298	1515	52.41	85.7	3.104	141.8	57.92	12.88
111	2007	298	1530	52.74	85.5	3.384	127.4	52.1	12.86
111	2007	298	1545	53.13	84.5	3.356	155.6	55.36	12.84
111	2007	298	1600	53.21	83.1	4.313	153.4	55.61	12.83
111	2007	298	1615	53.15	82.1	4.329	154.1	54.09	12.82
111	2007	298	1630	53	80.9	4.053	144.3	52.45	12.81
111	2007	298	1645	53.05	80.6	3.513	144.8	51.9	12.8
111	2007	298	1700	53.22	79.1	3.678	158.5	55.73	12.79
111	2007	298	1715	53.38	78.5	3.09	134.6	55.43	12.78
111	2007	298	1730	53.4	77.7	3.739	154.8	53.96	12.77
111	2007	298	1745	53.4	77.6	2.749	130.6	54.25	12.77
111	2007	298	1800	53.39	76.8	3.265	143	59.45	12.76
111	2007	298	1815	53.27	77.1	3.382	133	47.82	12.75
111	2007	298	1830	53.06	76.7	3.201	145.9	54.17	12.75
111	2007	298	1845	52.77	77.1	2.774	128.2	53.78	12.74
111	2007	298	1900	52.57	76.6	2.846	160.6	58.26	12.73
111	2007	298	1915	52.65	75.8	3.405	149.5	62.46	12.73
111	2007	298	1930	52.46	75.9	3.195	144.5	57.33	12.72
111	2007	298	1945	52.3	75.1	2.983	126.9	53.82	12.71
111	2007	298	2000	52.35	72.3	2.967	141.1	58.3	12.72
111	2007	298	2015	52.4	70.3	2.743	145.8	67.91	12.71
111	2007	298	2030	52.31	69.58	2.951	146.3	58.22	12.7
111	2007	298	2045	52.07	69.91	2.475	146.1	54.52	12.69
111	2007	298	2100	51.75	67.94	3.009	145.6	52.65	12.69
111	2007	298	2115	51.76	64.39	3.511	164.9	60.47	12.68
111	2007	298	2130	51.82	62.12	3.122	148.5	69.23	12.67

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	298	2145	51.68	60.31	3.025	156.8	68.4	12.68
111	2007	298	2200	51.66	58.4	3.418	155.2	58.49	12.66
111	2007	298	2215	51.89	57.73	3.849	162.9	63.14	12.66
111	2007	298	2230	52.12	58.67	4.244	164.3	51.84	12.66
111	2007	298	2245	52.06	60.48	3.303	185.8	67.79	12.65
111	2007	298	2300	51.92	62.15	2.749	167.9	60.65	12.64
111	2007	298	2315	51.72	64.02	2.774	126.9	55.12	12.64
111	2007	298	2330	51.62	65.5	2.651	141.8	48.95	12.63
111	2007	298	2345	51.41	66.83	2.59	140.8	56.42	12.63
111	2007	298	2400	51.28	67.64	2.898	129.2	51.21	12.63
111	2007	299	15	51.15	68.94	3.36	142.5	50.96	12.62
111	2007	299	30	51.06	70.1	3.13	139.4	52.77	12.62
111	2007	299	45	51.01	71.6	3.275	141.4	48.81	12.62
111	2007	299	100	50.97	72.8	3.602	136.5	44.83	12.61
111	2007	299	115	51.01	73.6	3.579	141.9	53.11	12.61
111	2007	299	130	51.18	72.8	3.555	136	51.75	12.6
111	2007	299	145	51.51	72	3.499	140.7	55.26	12.6
111	2007	299	200	51.79	69.38	3.436	153.6	67.52	12.6
111	2007	299	215	52.05	67.5	3.384	149.7	72.2	12.59
111	2007	299	230	52.24	68.17	3.785	157	59.47	12.59
111	2007	299	245	52.28	67.34	3.233	157.3	63.43	12.59
111	2007	299	300	52.44	66.77	3.39	168.6	56.79	12.59
111	2007	299	315	52.54	67.27	2.944	165.4	77.8	12.58
111	2007	299	330	52.56	68.78	2.705	137.6	53.29	12.58
111	2007	299	345	52.55	69.75	3.293	140.9	57.11	12.58
111	2007	299	400	52.5	70.9	2.741	139.4	54.03	12.57
111	2007	299	415	52.5	71.3	2.727	151	61.49	12.57
111	2007	299	430	52.65	71.3	3.557	143.7	59	12.57
111	2007	299	445	52.67	71.5	2.888	158	62.92	12.57
111	2007	299	500	52.69	71.6	3.513	149.4	59.01	12.73
111	2007	299	515	52.62	72.2	3.616	141.3	56.45	13.26
111	2007	299	530	52.62	72.1	3.221	153.9	60.3	13.8
111	2007	299	545	52.79	72	3.35	152.3	53.44	13.77
111	2007	299	600	52.9	72.1	3.785	135.3	46.26	13.76
111	2007	299	615	52.89	72.4	3.521	138.6	58.57	13.72
111	2007	299	630	52.94	72.4	3.023	147.3	66.23	13.7
111	2007	299	645	53.18	71.8	2.987	150.8	68.23	13.67
111	2007	299	700	53.45	71.3	3.444	157.7	60.06	13.33
111	2007	299	715	53.5	71.7	3.009	144	56.65	13.23
111	2007	299	730	53.42	72.2	2.923	138.5	64.05	13.67
111	2007	299	745	53.65	71.8	3.293	140.4	55.74	13.64
111	2007	299	800	53.87	71.7	2.872	144.4	65.81	13.64
111	2007	299	815	54.39	71.1	3.11	138.1	76.5	13.63
111	2007	299	830	54.62	71.5	3.336	150.9	62.36	13.63
111	2007	299	845	54.78	71.5	3.91	136.5	55.65	13.62
111	2007	299	900	54.91	71.7	4.031	144.5	61.12	13.6
111	2007	299	915	55.11	71.8	3.583	131.2	52.75	13.6
111	2007	299	930	55.28	72.2	3.896	145.7	58.12	13.59
111	2007	299	945	55.46	72.7	3.438	144	55.31	13.58
111	2007	299	1000	55.56	73.4	3.42	134.2	55.47	13.56
111	2007	299	1015	55.59	74.2	3.1	128.3	65.04	13.55
111	2007	299	1030	55.59	75.2	3.531	136.5	58.92	13.55
111	2007	299	1045	55.63	76.4	3.571	178	70.7	13.54
111	2007	299	1100	55.63	78.1	4.218	166.1	52.22	13.52
111	2007	299	1115	55.65	80.1	4.492	177.4	43.35	13.52
111	2007	299	1130	55.8	80.1	3.656	165.1	56.68	13.52
111	2007	299	1145	56.13	80.9	4.192	170.7	53.64	13.52
111	2007	299	1200	56.34	80.6	6.299	173.6	28.17	13.54
111	2007	299	1215	56.81	80.6	7.09	174	26.26	13.54
111	2007	299	1230	56.76	81.8	6.279	166.4	38.16	13.52

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	299	1245	56.68	83.3	7.57	182	39.24	13.52
111	2007	299	1300	56.63	82.6	7.64	178.4	32.87	13.54
111	2007	299	1315	56.8	82	6.587	174.4	31.71	13.55
111	2007	299	1330	56.65	82.8	7.08	175.3	28.08	13.55
111	2007	299	1345	56.81	83.3	5.568	171.1	36.79	13.55
111	2007	299	1400	56.78	83.4	7.1	170.9	22.01	13.55
111	2007	299	1415	56.9	83.5	7.1	174.8	28.5	13.55
111	2007	299	1430	56.9	85.1	7.01	173.6	31.22	13.09
111	2007	299	1445	56.91	84.8	7.85	172.4	33.52	12.94
111	2007	299	1500	56.96	84.9	6.952	166.6	30.32	12.88
111	2007	299	1515	56.61	85.7	7.72	172.2	28.72	12.83
111	2007	299	1530	56.39	87.1	6.92	173.5	27.85	12.81
111	2007	299	1545	56.13	87.8	6.263	179.7	32.79	12.79
111	2007	299	1600	55.97	88	6.672	177.6	37.08	12.77
111	2007	299	1615	56.02	87.7	5.475	169.9	39.75	12.75
111	2007	299	1630	56	88.6	6.787	171.5	34.12	12.73
111	2007	299	1645	55.73	89.8	6.1	166.5	40.27	12.73
111	2007	299	1700	55.55	91	4.262	155	47.66	12.71
111	2007	299	1715	55.43	91.8	4.049	155.9	52.87	12.71
111	2007	299	1730	55.39	92.4	5.207	175	37.93	12.69
111	2007	299	1745	55.41	92.8	4.361	168.5	46.06	12.69
111	2007	299	1800	55.43	93	5.209	163.4	39.98	12.68
111	2007	299	1815	55.49	93.2	4.931	177.5	43.58	12.67
111	2007	299	1830	55.57	93.4	5.082	174.7	31.75	12.67
111	2007	299	1845	55.69	93.2	6.94	172.1	33.72	12.65
111	2007	299	1900	55.82	93.4	6.537	176.5	26.77	12.65
111	2007	299	1915	56.07	93.3	5.499	176.2	30.58	12.65
111	2007	299	1930	56.31	93.3	6.231	178.2	28.76	12.65
111	2007	299	1945	56.64	93.1	6.098	175.2	32.41	12.64
111	2007	299	2000	56.88	93.1	7.37	173.8	28.28	12.64
111	2007	299	2015	57.1	93.1	6.811	175.7	33.53	12.63
111	2007	299	2030	57.24	93.1	7.4	181.4	31.94	12.63
111	2007	299	2045	57.35	93.2	6.491	185.4	34.99	12.63
111	2007	299	2100	57.4	93.4	6.97	182.1	31.06	12.62
111	2007	299	2115	57.46	93.6	6.93	189	38.33	12.61
111	2007	299	2130	57.5	93.8	7.06	184.3	30.95	12.61
111	2007	299	2145	57.58	93.7	6.168	186.6	37.31	12.61
111	2007	299	2200	57.68	93.9	6.815	176	30.03	12.61
111	2007	299	2215	57.85	93.9	6.94	183.2	34.94	12.61
111	2007	299	2230	58.01	94.1	6.938	186.3	31.43	12.61
111	2007	299	2245	58.11	94	6.763	191.2	31.1	12.6
111	2007	299	2300	58.2	94.1	6.239	183.4	35.38	12.6
111	2007	299	2315	58.33	94.1	5.673	191.9	31.49	12.59
111	2007	299	2330	58.41	94.3	4.573	189.8	32.94	12.59
111	2007	299	2345	58.56	94.4	5.477	180.9	32.08	12.59
111	2007	299	2400	58.73	94.5	5.163	185.7	33.34	12.59
111	2007	300	15	58.87	94.6	4.871	180	25.6	12.59
111	2007	300	30	59.03	94.8	4.994	182.3	31.26	12.58
111	2007	300	45	59.25	94.7	4.891	189.1	37.8	12.58
111	2007	300	100	59.43	94.8	5.094	179.3	33.9	12.58
111	2007	300	115	59.56	94.9	4.448	184.2	29.95	12.58
111	2007	300	130	59.74	94.9	4.681	184.5	26.57	12.58
111	2007	300	145	59.89	95	4.24	180.2	28.8	12.58
111	2007	300	200	60.17	95	4.978	181	25.81	12.59
111	2007	300	215	60.46	95.1	3.473	187.3	33.07	12.58
111	2007	300	230	60.88	95.2	3.853	194.9	27.83	12.58
111	2007	300	245	61.18	95.1	4.2	184.4	26.33	12.58
111	2007	300	300	61.42	95.3	3.07	180.7	35.29	12.58
111	2007	300	315	61.77	95.3	3.696	197.7	28.39	12.59
111	2007	300	330	62.08	95.4	3.777	203.7	29.89	12.58

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	300	345	62.36	95.6	4.033	205.2	22.21	12.58
111	2007	300	400	62.47	95.6	3.868	211.3	20.73	12.59
111	2007	300	415	62.55	95.7	3.72	216.4	23.48	12.59
111	2007	300	430	62.59	95.7	2.486	227.8	25.21	12.58
111	2007	300	445	62.55	95.8	2.262	223.8	26.54	12.59
111	2007	300	500	62.64	95.8	2.346	228.9	24.14	12.69
111	2007	300	515	62.86	95.9	4.194	241.6	26.89	12.99
111	2007	300	530	63.04	95.9	4.359	233.3	23.73	13.45
111	2007	300	545	63.17	95.9	4.752	243.8	26.75	13.7
111	2007	300	600	63.26	95.9	4.829	252.7	31	13.67
111	2007	300	615	63.45	96	3.922	247.5	26.55	13.64
111	2007	300	630	63.55	95.9	3.882	251.7	24.79	13.63
111	2007	300	645	63.56	95.9	4.637	247.6	27.41	13.6
111	2007	300	700	63.58	95.9	4.405	250.4	29.82	13.3
111	2007	300	715	63.56	96	3.888	242.7	25.5	13.26
111	2007	300	730	63.8	95.9	4.472	247.3	25.98	13.55
111	2007	300	745	63.95	95.9	3.702	249.5	31.19	13.54
111	2007	300	800	64.06	95.9	3.227	253.6	42.2	13.52
111	2007	300	815	64.27	95.9	4.206	258.7	30.07	13.52
111	2007	300	830	64.35	95.8	4.101	257	31.38	13.5
111	2007	300	845	64.53	95.8	4.142	261.4	33.37	13.5
111	2007	300	900	64.74	95.6	3.688	251.7	38.3	13.48
111	2007	300	915	64.87	95.5	4.899	257.9	33.03	13.48
111	2007	300	930	64.88	95.3	4.182	252.5	38.01	13.47
111	2007	300	945	65.08	95.3	4.899	269	33.32	13.47
111	2007	300	1000	65.27	95	5.455	271.6	40.33	13.44
111	2007	300	1015	65.21	94.8	4.504	265.8	38.54	13.43
111	2007	300	1030	65.23	94.6	4.951	269.5	36.56	13.42
111	2007	300	1045	65.21	94.5	5.084	257.2	38.94	13.41
111	2007	300	1100	65.32	94.2	5.479	256.5	33.12	13.41
111	2007	300	1115	65.56	93.8	4.494	257.4	37.9	13.4
111	2007	300	1130	65.77	93.2	5.385	269.6	38.97	13.41
111	2007	300	1145	65.8	92.2	6.833	266.5	38.67	13.39
111	2007	300	1200	66.11	91.1	6.283	276	37.47	13.41
111	2007	300	1215	66.24	90.8	6.086	271.9	44.97	13.41
111	2007	300	1230	66.03	91.2	5.62	278.5	41.69	13.41
111	2007	300	1245	66.04	91	6.358	263.9	33.79	13.43
111	2007	300	1300	66.13	90.7	5.509	265.7	42.42	13.43
111	2007	300	1315	66.24	90.6	6.17	277.8	34.72	13.42
111	2007	300	1330	66.21	90.4	6.217	279	36.85	13.44
111	2007	300	1345	66.14	90	5.572	286.2	44.54	13.47
111	2007	300	1400	66.62	88.3	6.227	287.6	40.57	13.47
111	2007	300	1415	67.07	87.5	6.692	287.7	44.12	13.25
111	2007	300	1430	67.18	88	7.14	289.8	35.44	12.97
111	2007	300	1445	66.4	90.2	5.755	277.5	43.07	12.89
111	2007	300	1500	66.22	90.4	6.539	285.9	39.46	12.85
111	2007	300	1515	66.38	90.2	7.12	298.1	36.34	12.82
111	2007	300	1530	66.49	90.2	6.144	308.9	37.27	12.8
111	2007	300	1545	66.66	90.1	7.61	322.4	29.3	12.78
111	2007	300	1600	66.32	90.3	7.71	323.8	32.98	12.77
111	2007	300	1615	65.57	90.4	7.99	330.3	28.73	12.76
111	2007	300	1630	65.22	89.8	7.92	351.8	30.25	12.74
111	2007	300	1645	65.03	89.1	6.797	347.3	28.42	12.73
111	2007	300	1700	64.95	88.6	6.462	348.7	20.57	12.73
111	2007	300	1715	64.93	88.2	5.765	350.7	23.55	12.71
111	2007	300	1730	65.42	85.8	5.792	356.2	24.75	12.7
111	2007	300	1745	65.55	85.1	5.248	0.506	20.98	12.7
111	2007	300	1800	64.92	85.4	4.659	355.4	25.35	12.69
111	2007	300	1815	64.34	84.4	4.78	355.8	17.77	12.69
111	2007	300	1830	63.76	84.3	3.767	353.2	22.18	12.68

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	300	1845	63.09	84.9	2.346	324.4	34.49	12.68
111	2007	300	1900	62.39	86.4	3.414	336.5	20.38	12.68
111	2007	300	1915	62.03	86	4.383	343.8	20.33	12.67
111	2007	300	1930	61.75	86	3.855	345.8	19.33	12.67
111	2007	300	1945	61.51	85.2	4.025	347.8	27.93	12.66
111	2007	300	2000	61.38	83.8	4.399	348.3	23.32	12.65
111	2007	300	2015	61.28	82.8	4.285	4.123	20.8	12.65
111	2007	300	2030	61.19	82.3	4.389	11.47	23.27	12.65
111	2007	300	2045	60.84	79.1	4.325	16.24	20.43	12.65
111	2007	300	2100	61.12	67.01	6.704	7.37	22.95	12.63
111	2007	300	2115	61.39	61.93	6.968	13.47	20.1	12.64
111	2007	300	2130	60.53	65.27	4.299	2.657	20.61	12.63
111	2007	300	2145	60.04	62.06	5.701	13.11	26.58	12.63
111	2007	300	2200	59.6	62.09	5.076	11.55	17.57	12.63
111	2007	300	2215	58.91	62.16	3.962	10.1	22.01	12.63
111	2007	300	2230	58.25	61.49	4.071	0.029	25.51	12.61
111	2007	300	2245	57.83	61.66	3.91	358.5	18.52	12.61
111	2007	300	2300	57.16	62.61	3.394	343.2	19.12	12.61
111	2007	300	2315	56.32	64.49	3.094	335	15.14	12.61
111	2007	300	2330	55.69	65.26	3.72	350	18.44	12.61
111	2007	300	2345	56	64.06	4.69	348.8	23.51	12.6
111	2007	300	2400	56.07	63.49	5.644	350.8	21.08	12.6
111	2007	301	15	55.56	66.37	4.524	358.6	23.84	12.59
111	2007	301	30	55.25	64.89	5.536	354.8	21.79	12.59
111	2007	301	45	55.77	63.99	6.906	4.611	19.15	12.59
111	2007	301	100	55.61	65.16	6.279	4.636	23.63	12.58
111	2007	301	115	55.19	66.33	4.903	351.2	23.41	12.59
111	2007	301	130	55.19	66.16	6.219	6.735	18.26	12.57
111	2007	301	145	55.24	65.59	6.158	12.7	16.07	12.57
111	2007	301	200	55.3	66.67	6.305	4.133	23.51	12.58
111	2007	301	215	54.97	67.94	5.455	1.748	25	12.58
111	2007	301	230	54.39	69.71	3.604	356.8	26.26	12.57
111	2007	301	245	53.7	71.8	3.235	355.8	20.81	12.57
111	2007	301	300	52.85	74.5	2.012	354.8	15.63	12.57
111	2007	301	315	52.33	75	1.962	342.5	22.67	12.57
111	2007	301	330	51.66	77.5	1.591	345.1	23.05	12.57
111	2007	301	345	51.25	78.2	2.481	343.2	20.12	12.57
111	2007	301	400	51.41	77.2	3.336	354.3	17.09	12.56
111	2007	301	415	51.63	77.8	3.231	353.6	19.35	12.56
111	2007	301	430	51.67	76.9	3.527	0.718	16.62	12.56
111	2007	301	445	51.75	77.6	3.14	5.304	20.66	12.56
111	2007	301	500	51.58	77.7	3.146	11.04	17.57	12.66
111	2007	301	515	51.18	79.6	2.695	5.435	14.81	12.92
111	2007	301	530	51.05	79.1	3.672	6.701	17.26	13.39
111	2007	301	545	51.06	80.5	3.928	5.001	16.37	13.69
111	2007	301	600	50.92	78.5	4.625	11.1	23.52	13.58
111	2007	301	615	51.46	74.4	5.312	15.28	21.54	13.63
111	2007	301	630	52.06	67.69	6.088	30.62	23.56	13.59
111	2007	301	645	52.53	61.73	6.755	36.53	21.63	13.56
111	2007	301	700	52.21	61.86	5.62	34.03	23.98	13.32
111	2007	301	715	51.64	61.26	4.943	33.47	22.4	13.32
111	2007	301	730	51.18	58.45	6.221	41.35	26.32	13.51
111	2007	301	745	50.94	58.48	5.28	35.45	20.07	13.51
111	2007	301	800	50.82	59.05	5.227	49.17	19.25	13.49
111	2007	301	815	51.37	54.07	6.521	57.86	26.46	13.48
111	2007	301	830	51.71	51.82	7.48	55.41	22.91	13.48
111	2007	301	845	51.89	47.16	6.485	57.47	25.51	13.47
111	2007	301	900	51.94	47.59	6.877	54.95	25.52	13.47
111	2007	301	915	52.09	45.25	8.73	58.1	26.41	13.47
111	2007	301	930	52.22	46.82	8.54	65.99	24.94	13.45

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	301	945	52.23	45.78	9	62.96	22.03	13.45
111	2007	301	1000	52.21	44.41	8.81	62.58	24.34	13.44
111	2007	301	1015	52.2	43.57	8.58	73.1	24.53	13.44
111	2007	301	1030	52.6	40.73	7.6	53.02	26.38	13.44
111	2007	301	1045	52.63	38.72	9.49	51.77	25.28	13.43
111	2007	301	1100	52.81	35.51	8.49	65.35	26.55	13.43
111	2007	301	1115	53.36	33.57	8.68	73.7	28.42	13.43
111	2007	301	1130	53.15	34.4	9.61	78	28.91	13.43
111	2007	301	1145	53.41	32.7	8.9	68.11	30.07	13.42
111	2007	301	1200	53.87	34.27	8.51	78.3	28.12	13.43
111	2007	301	1215	53.98	33.43	9.24	58.65	31.52	13.44
111	2007	301	1230	53.75	34.46	9.48	54.17	24.55	13.43
111	2007	301	1245	54.64	32.55	8.85	67.32	31.7	13.43
111	2007	301	1300	54.27	32.05	10.84	70.2	24.36	13.43
111	2007	301	1315	54.67	32.32	9	63.77	34.06	13.43
111	2007	301	1330	54.42	34.76	9.34	62.86	33.16	13.44
111	2007	301	1345	54.66	34.26	9.15	51.55	23.96	13.44
111	2007	301	1400	54.83	33.49	8.78	59.35	36.04	13.21
111	2007	301	1415	55.06	33.22	9.09	63.97	25.66	12.97
111	2007	301	1430	55.12	34.73	7.82	47.58	26.98	12.94
111	2007	301	1445	55.58	32.99	8.71	64.03	25.53	12.87
111	2007	301	1500	55.3	33.79	9.28	59.86	22.83	12.84
111	2007	301	1515	55.74	32.42	8.42	65.51	29.59	12.82
111	2007	301	1530	55.79	33.02	8.24	68.48	26.69	12.81
111	2007	301	1545	55.72	34.13	9.05	60.32	25.81	12.79
111	2007	301	1600	55.71	34.39	8.52	54.37	24.98	12.78
111	2007	301	1615	55.25	34.83	8.19	47.23	23.97	12.78
111	2007	301	1630	55.19	32.59	8.54	53.15	25.06	12.78
111	2007	301	1645	55.03	31.92	8.23	48.71	26.55	12.76
111	2007	301	1700	54.3	33.89	7.81	54.77	24.15	12.76
111	2007	301	1715	53.93	34.09	8.49	56.6	24.23	12.76
111	2007	301	1730	53.4	37.04	6.787	45.61	20.6	12.75
111	2007	301	1745	52.63	37.88	6.172	47.96	19.29	12.74
111	2007	301	1800	51.92	39.96	4.907	55.08	21.52	12.75
111	2007	301	1815	51.54	40.23	5.322	54.07	21.51	12.73
111	2007	301	1830	51.35	36.11	6.507	55.46	19.33	12.74
111	2007	301	1845	51.38	37.65	6.583	55.17	19.5	12.74
111	2007	301	1900	50.74	40.4	4.893	50.47	21.29	12.74
111	2007	301	1915	50.28	42.91	5.242	54.88	19.4	12.73
111	2007	301	1930	50.02	42.85	6.37	54.71	24.73	12.73
111	2007	301	1945	49.96	44.89	8.96	45.92	23.37	12.72
111	2007	301	2000	49.37	45.16	7.03	50.35	24.6	12.72
111	2007	301	2015	48.94	45.16	7.63	47.81	28.05	12.72
111	2007	301	2030	48.62	46.87	7.83	49.54	17.93	12.72
111	2007	301	2045	48.19	48.38	7.02	47.17	21.65	12.71
111	2007	301	2100	47.87	49.25	6.978	50.35	22.8	12.71
111	2007	301	2115	47.46	50.49	5.427	43.81	25.69	12.71
111	2007	301	2130	47.09	51.49	5.671	48.2	21.36	12.7
111	2007	301	2145	46.7	52.8	5.002	43.74	21.89	12.69
111	2007	301	2200	46.23	52.29	4.774	45.04	20.64	12.7
111	2007	301	2215	46	50.59	5.608	47.87	19.3	12.69
111	2007	301	2230	45.79	51.03	5.02	51.56	19.24	12.68
111	2007	301	2245	45.47	50.79	4.889	50.1	19.82	12.68
111	2007	301	2300	45.04	52.54	3.986	48.64	20.83	12.68
111	2007	301	2315	44.38	54.75	3.529	40.36	22.79	12.67
111	2007	301	2330	43.83	56.32	3.712	47.7	19.45	12.68
111	2007	301	2345	43.33	58.3	3.027	46.27	18.35	12.67
111	2007	301	2400	42.78	60.65	2.363	31.74	16.59	12.66
111	2007	302	15	42.22	61.92	2.214	37.72	19.51	12.66
111	2007	302	30	41.79	62.83	1.935	39.64	20.03	12.67

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	302	45	41.41	63.4	2.54	37.35	21.21	12.66
111	2007	302	100	40.95	66.54	1.439	20.17	20.2	12.66
111	2007	302	115	40.07	68.32	1.203	5.8	19.59	12.66
111	2007	302	130	39.33	71.7	0.634	20.52	13.37	12.66
111	2007	302	145	38.62	72.3	0.986	48.52	10.24	12.66
111	2007	302	200	37.97	74.6	0.362	333.5	8.07	12.66
111	2007	302	215	37.19	78	0.524	350.4	1.81	12.66
111	2007	302	230	36.5	81.1	1.679	5.632	17.71	12.65
111	2007	302	245	37.11	78.6	2.228	15.67	16.38	12.65
111	2007	302	300	37.88	76.5	2.296	19.58	17.15	12.66
111	2007	302	315	37.75	77.6	2.203	5.803	12.05	12.65
111	2007	302	330	37.3	78.3	1.092	15.09	11.98	12.64
111	2007	302	345	36.76	79.6	1.065	31.83	11.59	12.65
111	2007	302	400	36.5	80.7	1.106	10.99	16.87	12.65
111	2007	302	415	36.41	81.3	1.76	25.88	18.19	12.65
111	2007	302	430	36.05	81.7	0.946	18.19	22.08	12.65
111	2007	302	445	35.44	83.6	0.64	21.2	15.97	12.65
111	2007	302	500	35.65	83	1.737	28.09	25.07	12.66
111	2007	302	515	35.24	84.3	0.95	18.91	22.65	12.65
111	2007	302	530	35.11	84.6	0.322	29.02	7.61	12.69
111	2007	302	545	35.03	85.9	1.292	24.63	21.01	12.75
111	2007	302	600	35.69	84.9	1.566	11.53	17.65	12.77
111	2007	302	615	35.5	84.3	1.415	17.3	22.71	12.84
111	2007	302	630	35.47	84	1.558	11.22	20.05	13.07
111	2007	302	645	35.1	83.8	1.898	7.72	21.19	13.22
111	2007	302	700	34.87	83.8	1.285	21.81	17.37	13.24
111	2007	302	715	34.63	84.5	0.951	36.82	19.67	13.35
111	2007	302	730	34.84	84.6	1.654	6.218	11.73	13.33
111	2007	302	745	34.87	84.5	1.45	357.8	19.53	13.4
111	2007	302	800	35.22	84.2	0.952	355.4	14.35	13.44
111	2007	302	815	36.53	82.5	1.285	347.2	19.75	13.43
111	2007	302	830	38.77	76	1.139	349.4	28.98	13.43
111	2007	302	845	40.92	64.82	1.661	30.12	33.37	13.43
111	2007	302	900	42.27	58.05	3.114	53.48	24.66	13.43
111	2007	302	915	43.25	52.68	3.727	50.2	20.76	13.42
111	2007	302	930	44.06	48.13	5.002	68.61	36.21	13.42
111	2007	302	945	44.84	43.13	5.943	70.6	27.05	13.43
111	2007	302	1000	45.16	44.5	5.715	83.8	29.66	13.4
111	2007	302	1015	46.09	42.82	4.119	94.5	46.59	13.39
111	2007	302	1030	46.17	42.05	4.766	53.7	29.93	13.4
111	2007	302	1045	45.85	44.26	6.418	59.97	27.38	13.39
111	2007	302	1100	46.2	42.58	6.309	50.5	34.81	13.38
111	2007	302	1115	46.56	41.38	5.769	70.7	34.05	13.39
111	2007	302	1130	47.11	39.43	5.941	31.45	30.27	13.39
111	2007	302	1145	47.17	40.5	5.608	54.46	31.75	13.39
111	2007	302	1200	47.74	39.79	5.203	28.33	32.88	13.38
111	2007	302	1215	47.57	38.15	5.647	32.84	22.93	13.41
111	2007	302	1230	48.14	37.92	5.53	56.41	33.03	13.41
111	2007	302	1245	48.39	37.85	5.671	49.64	40.97	13.4
111	2007	302	1300	48.51	36.01	5.044	42.91	47.93	13.39
111	2007	302	1315	49	38.59	4.551	18.88	39.56	13.16
111	2007	302	1330	49.09	40.16	4.488	18.18	64.63	12.95
111	2007	302	1345	49.13	39.86	5.026	5.628	30.8	12.88
111	2007	302	1400	49.54	38.12	5.844	28.1	34.03	12.84
111	2007	302	1415	49.66	39.42	5.505	32.95	25.9	12.83
111	2007	302	1430	50.44	39.46	5.514	45.61	31.61	12.81
111	2007	302	1445	50.37	35.84	5.788	52.61	31.78	12.81
111	2007	302	1500	50.43	35.91	6.094	24.02	33.16	12.79
111	2007	302	1515	50.49	35.94	5.485	28.43	26.49	12.79
111	2007	302	1530	50.79	37.48	4.416	36.15	33.29	12.78

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	302	1545	51.06	37.18	5.888	32.02	31.93	12.77
111	2007	302	1600	51.01	34.8	5.947	11.31	33.49	12.76
111	2007	302	1615	51.18	34.84	5.707	40.21	26.13	12.75
111	2007	302	1630	50.99	37.65	5.189	8.51	24.82	12.74
111	2007	302	1645	51.27	34.97	4.043	7.01	35.97	12.74
111	2007	302	1700	51.05	35.41	5.113	26.32	25.68	12.74
111	2007	302	1715	50.64	36.98	4.516	37.26	20.67	12.72
111	2007	302	1730	50.32	37.62	3.233	30.91	21.26	12.72
111	2007	302	1745	49.67	41	2.496	33.65	17.59	12.71
111	2007	302	1800	48.3	46.39	1.444	28.04	17.09	12.7
111	2007	302	1815	46.43	55.09	0.2	346.4	4.69	12.69
111	2007	302	1830	44.23	60.59	0.855	343.4	13.82	12.68
111	2007	302	1845	42.76	65.09	1.21	338.9	7.62	12.66
111	2007	302	1900	41.98	69.51	1.344	349.4	21.09	12.66
111	2007	302	1915	41.52	71.6	0.811	352.2	15.67	12.65
111	2007	302	1930	41.23	73.4	0.388	338.1	19.45	12.64
111	2007	302	1945	40.82	75	0.295	330.2	5.217	12.63
111	2007	302	2000	40.72	76.7	0.167	342.6	6.927	12.63
111	2007	302	2015	40.42	77.4	0.173	5.527	8.42	12.63
111	2007	302	2030	40.12	78.2	0.065	37.05	4.572	12.61
111	2007	302	2045	39.82	79.1	0.127	18.16	2.335	12.61
111	2007	302	2100	39.43	80.6	0.225	3.64	5.861	12.61
111	2007	302	2115	39.28	80.9	0.794	30.88	14.6	12.6
111	2007	302	2130	38.96	81.2	0.231	5.901	8.8	12.59
111	2007	302	2145	38.66	82.2	0.527	13.86	11.06	12.59
111	2007	302	2200	38.54	81.8	0.367	342.3	7.41	12.58
111	2007	302	2215	38.29	83.2	0.91	10.73	19.34	12.57
111	2007	302	2230	38.23	83.7	0.866	8.69	11	12.57
111	2007	302	2245	37.83	84.3	0.262	350.3	2.34	12.57
111	2007	302	2300	37.71	85.2	0.919	9.66	15.09	12.57
111	2007	302	2315	37.47	85.7	1.271	359.4	13.12	12.56
111	2007	302	2330	37.47	86.3	0.798	7	12.21	12.56
111	2007	302	2345	37.5	86.7	1.487	4.946	16.05	12.56
111	2007	302	2400	37.6	86.4	0.06	8.74	2.617	12.55
111	2007	303	15	37.36	86.8	1.158	9.71	18	12.55
111	2007	303	30	37.37	86.8	0.68	7.56	7.08	12.56
111	2007	303	45	37.16	86.7	0.737	0.741	6.464	12.55
111	2007	303	100	36.97	86.9	1.185	356.8	25.13	12.55
111	2007	303	115	36.87	87.3	1.337	11.66	19.01	12.55
111	2007	303	130	37.27	86.8	1.815	3.086	15.76	12.56
111	2007	303	145	37.57	86.3	0.215	23.9	4.318	12.55
111	2007	303	200	37.34	86.9	0.268	19.69	4.499	12.56
111	2007	303	215	37.11	87.4	1.264	6.31	13.27	12.56
111	2007	303	230	37.04	87.7	0.17	8.67	7.72	12.56
111	2007	303	245	36.95	87.7	0.425	8.42	14.03	12.56
111	2007	303	300	36.5	88.2	0.226	358.6	6.497	12.56
111	2007	303	315	36.21	88.8	1.142	1.091	16.36	12.55
111	2007	303	330	36.4	89.9	0.45	21.17	8.62	12.56
111	2007	303	345	37.78	89	1.434	17.91	14	12.56
111	2007	303	400	38.93	86.6	1.726	15.32	13.02	12.55
111	2007	303	415	40.05	83.1	2.012	11.55	17.84	12.56
111	2007	303	430	39.97	82.6	1.823	9.08	12.2	12.55
111	2007	303	445	40.49	80.3	2.401	3.995	17.31	12.55
111	2007	303	500	40.26	80.8	2.022	15.7	12.46	12.67
111	2007	303	515	39.71	81.9	1.506	21.77	10.91	13.07
111	2007	303	530	39.34	83.3	1.942	16.51	14.62	13.66
111	2007	303	545	39.47	83.8	2.151	14.7	9.51	13.65
111	2007	303	600	40.64	79.1	3.082	11.52	13.54	13.63
111	2007	303	615	41.56	77	3.507	7.7	14.36	13.62
111	2007	303	630	41.3	77.6	3.114	18.87	15.7	13.6

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	303	645	40.64	79	1.76	25.2	22.29	13.59
111	2007	303	700	40.21	80	2.032	5.957	20.91	13.2
111	2007	303	715	40.06	80.6	2.159	10.45	17.42	13.22
111	2007	303	730	39.68	81.5	2.306	15.35	17.18	13.58
111	2007	303	745	40.06	80.5	2.57	6.071	14.87	13.58
111	2007	303	800	40.93	77.8	3.221	11.43	19.72	13.56
111	2007	303	815	41.96	75.2	3.249	6.85	20.88	13.57
111	2007	303	830	43.16	73.1	2.488	25.81	16.96	13.56
111	2007	303	845	44.63	69.66	3.195	41.62	19.98	13.56
111	2007	303	900	45.87	66.64	3.307	23.97	25.95	13.56
111	2007	303	915	47.48	61.61	3.598	26.96	20.08	13.55
111	2007	303	930	49.05	58.69	3.93	35.62	23.09	13.56
111	2007	303	945	50.45	55.47	4.109	39.07	24.06	13.54
111	2007	303	1000	51.54	52.49	4.873	47.28	22.03	13.54
111	2007	303	1015	52.58	50.14	4.621	26.55	23.9	13.55
111	2007	303	1030	53.24	49.7	4.16	20.51	24.09	13.54
111	2007	303	1045	54.24	48.43	3.771	19.74	30.39	13.55
111	2007	303	1100	55	47.09	3.874	15.42	31.18	13.55
111	2007	303	1115	56.11	45.61	3.253	9.12	47.26	13.55
111	2007	303	1130	56.81	44.97	3.193	30.86	42.17	13.55
111	2007	303	1145	57.69	43.46	3.483	26.89	52.19	13.56
111	2007	303	1200	58.2	40.38	4.389	3.74	38.21	13.55
111	2007	303	1215	58.46	39.48	3.944	345.5	43	13.56
111	2007	303	1230	58.85	40.48	4.254	357.3	39.36	13.58
111	2007	303	1245	59.66	39.31	3.89	328	39.45	13.47
111	2007	303	1300	60.22	41.18	3.872	324.8	39.71	13.21
111	2007	303	1315	60.31	39.84	4.621	320.6	39.69	13.13
111	2007	303	1330	60.68	39.03	3.934	297.4	41.24	13.03
111	2007	303	1345	60.77	39.23	3.886	292.8	42.4	12.91
111	2007	303	1400	60.74	36.15	4.125	313.2	34.89	12.84
111	2007	303	1415	60.93	36.05	4.053	308.9	33.07	12.82
111	2007	303	1430	60.74	38.26	4.702	328.6	31.35	12.8
111	2007	303	1445	60.56	43.11	5.107	315.3	38.28	12.78
111	2007	303	1500	60.44	41.87	4.851	286.7	35.34	12.77
111	2007	303	1515	60.45	40.27	4.917	292.2	40.24	12.76
111	2007	303	1530	60.04	41.87	5.042	323.4	35.41	12.74
111	2007	303	1545	59.9	45.25	5.562	332.7	28.81	12.75
111	2007	303	1600	59.24	49.97	5.094	318.8	38.98	12.74
111	2007	303	1615	58.57	53.62	6.352	329.9	29.25	12.73
111	2007	303	1630	58.26	54.03	4.825	337.9	30.38	12.72
111	2007	303	1645	58.24	53.36	4.52	324.2	27.65	12.71
111	2007	303	1700	57.93	55.27	4.244	320.2	26.5	12.71
111	2007	303	1715	57.07	57.48	4.015	329	30.56	12.71
111	2007	303	1730	56.39	59.79	3.803	328.7	24.69	12.7
111	2007	303	1745	55.5	63.03	2.927	336.7	16.72	12.69
111	2007	303	1800	54.44	65.87	1.563	333.8	22.64	12.69
111	2007	303	1815	53.43	69.24	1.209	346.7	18.38	12.69
111	2007	303	1830	52.07	73.1	0.134	335.9	11.36	12.68
111	2007	303	1845	50.85	77.6	na	na	na	12.68
111	2007	303	1900	49.7	80.2	na	na	na	12.67
111	2007	303	1915	49.08	81.9	na	na	na	12.67
111	2007	303	1930	48.3	83.4	0.687	6.367	15.6	12.67
111	2007	303	1945	47.88	84.3	0.761	16.75	18.01	12.65
111	2007	303	2000	47.52	85.6	0.541	359.4	16.57	12.65
111	2007	303	2015	47.05	86.5	0.018	354.9	0.042	12.65
111	2007	303	2030	46.75	87.2	0.147	46.02	4.697	12.64
111	2007	303	2045	46.58	87.7	0.216	35.6	5.074	12.63
111	2007	303	2100	46.35	88.3	na	na	na	12.63
111	2007	303	2115	46.07	89	0.498	13.68	10.21	12.62
111	2007	303	2130	45.98	89.5	0.389	31.15	8.51	12.61

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	303	2145	45.82	89.6	0.101	45.39	1.483	12.61
111	2007	303	2200	45.57	90	0.141	26.65	4.122	12.61
111	2007	303	2215	45.44	90.4	0.492	50.53	7.87	12.61
111	2007	303	2230	45.32	90.6	0.159	55.98	6.817	12.6
111	2007	303	2245	45.2	90.7	0.886	49.94	10.34	12.59
111	2007	303	2300	44.86	90.8	0.085	57.31	3.103	12.59
111	2007	303	2315	44.68	91.1	0.925	49.02	9.72	12.59
111	2007	303	2330	44.46	91.1	0.415	54.51	10.61	12.58
111	2007	303	2345	44.05	91.2	0.539	38.78	7.2	12.58
111	2007	303	2400	43.71	91.5	0.11	29.9	0.983	12.58
111	2007	304	15	43.51	91.5	0.462	66.95	7.85	12.58
111	2007	304	30	43.12	91.6	0.292	50.78	1.366	12.57
111	2007	304	45	42.62	92	na	na	na	12.57
111	2007	304	100	42.45	92.1	na	na	na	12.57
111	2007	304	115	42.3	92.1	0.411	63.46	5.96	12.57
111	2007	304	130	42.14	92	0.268	74.3	8.08	12.57
111	2007	304	145	41.83	92.4	0.423	58.8	6.499	12.57
111	2007	304	200	41.67	92.3	0.018	56.13	3.543	12.57
111	2007	304	215	41.23	92.6	na	na	na	12.57
111	2007	304	230	41.15	92.5	na	na	na	12.57
111	2007	304	245	40.9	92.7	na	na	na	12.57
111	2007	304	300	40.74	92.8	0.054	54.13	1.509	12.57
111	2007	304	315	40.59	92.7	0.108	58.81	3.95	12.57
111	2007	304	330	40.32	92.9	na	na	na	12.56
111	2007	304	345	40.24	92.8	na	na	na	12.57
111	2007	304	400	39.95	93	na	na	na	12.57
111	2007	304	415	39.86	93	0.426	48.56	4.93	12.57
111	2007	304	430	39.6	93	na	na	na	12.57
111	2007	304	445	39.33	92.9	na	na	na	12.56
111	2007	304	500	39.05	93.5	na	na	na	12.57
111	2007	304	515	39.09	93.2	na	na	na	12.57
111	2007	304	530	38.84	93.7	0.188	55.59	5.358	12.57
111	2007	304	545	39.04	93	0.182	57.75	5.485	12.57
111	2007	304	600	38.43	93.1	na	na	na	12.57
111	2007	304	615	38.35	93.9	0.532	61.68	11.84	12.57
111	2007	304	630	39.01	93.6	0.719	48.48	14.18	12.58
111	2007	304	645	39.15	93.3	0.737	33.32	12.52	12.57
111	2007	304	700	38.69	93.3	0.145	20.37	4.66	12.59
111	2007	304	715	38.66	93.5	0.356	13.07	2.675	12.69
111	2007	304	730	38.96	93.6	0.442	27.41	9.9	12.63
111	2007	304	745	39.32	93.6	0.447	29.43	12.59	12.58
111	2007	304	800	39.68	93.9	0.081	55.62	5.295	12.58
111	2007	304	815	40.83	94.2	0.291	29.96	7	12.57
111	2007	304	830	43.2	94.3	0.078	39.02	6.567	12.57
111	2007	304	845	46.05	92.9	0.326	41.75	14.19	12.58
111	2007	304	900	48.51	92.9	0.084	30.55	4.317	12.59
111	2007	304	915	51.58	86.6	0.455	25.51	8.45	12.63
111	2007	304	930	52.46	82.2	1.346	356.1	19.34	12.68
111	2007	304	945	54.37	77.3	1.352	0.857	29.58	12.61
111	2007	304	1000	56.37	71.7	2.161	328.4	46.12	12.59
111	2007	304	1015	57.88	67.1	2.938	324.3	36.67	12.56
111	2007	304	1030	58.44	66.06	4.563	331.3	44.16	12.56
111	2007	304	1045	58.59	63.91	5.546	326.9	31.21	12.55
111	2007	304	1100	59.08	59.45	4.281	317.2	42.8	12.56
111	2007	304	1115	59.73	57.95	5.453	333.9	30.99	12.57
111	2007	304	1130	59.2	49.82	7.4	353.9	24.91	12.57
111	2007	304	1145	59.83	50.62	5.961	334.3	33.67	12.57
111	2007	304	1200	59.97	53.36	6.066	326.8	34.33	12.55
111	2007	304	1215	59.5	56.1	7.11	336.1	26.2	12.59
111	2007	304	1230	59.51	54.16	7.16	347.7	23.13	12.61

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	304	1245	60.15	56.5	7.51	344.7	21.28	12.59
111	2007	304	1300	60.11	55.99	5.933	321	35.85	12.56
111	2007	304	1315	60.25	55.55	5.798	322.6	32.73	12.56
111	2007	304	1330	60.21	54.21	6.126	310.4	30.8	12.56
111	2007	304	1345	60.2	51.14	5.987	309.2	37.85	12.56
111	2007	304	1400	60.69	51.3	6.849	312.5	36.13	12.56
111	2007	304	1415	60.69	52.31	6.005	307.2	33.85	12.56
111	2007	304	1430	60.98	52.78	6.746	295.7	33.86	12.56
111	2007	304	1445	61.12	54.08	5.888	294.5	42.28	12.55
111	2007	304	1500	61.08	55.19	7.62	304	32.56	12.55
111	2007	304	1515	60.31	60.67	5.411	311.7	39.27	12.55
111	2007	304	1530	60.62	59.6	6.009	299	32.64	12.55
111	2007	304	1545	61.09	59.97	6.499	290.8	35.33	12.55
111	2007	304	1600	61.06	62.44	6.545	295.9	38.55	12.55
111	2007	304	1615	60.95	64.48	6.237	287.4	34.2	12.55
111	2007	304	1630	60.78	65.85	5.947	290.7	40.88	12.55
111	2007	304	1645	60.75	66.36	5.828	296.5	40.28	12.55
111	2007	304	1700	60.44	66.8	5.54	291.2	32.8	12.55
111	2007	304	1715	59.79	68.87	4.96	290.9	44.94	12.55
111	2007	304	1730	58.59	71.3	5	293.9	37.26	12.55
111	2007	304	1745	58.2	72.7	5.074	290.7	37.84	12.55
111	2007	304	1800	57.71	72.5	4.863	295.3	44.56	12.55
111	2007	304	1815	57.52	74.1	4.607	282.5	39.05	12.55
111	2007	304	1830	57.36	74.7	4.331	290.4	38.66	12.55
111	2007	304	1845	57.31	74.9	4.536	288.5	36.35	12.54
111	2007	304	1900	57.21	77.3	3.894	300.9	40.52	12.53
111	2007	304	1915	57.26	77.7	4.591	299.1	37.12	12.53
111	2007	304	1930	57.42	78.1	5.354	296.3	35.53	12.53
111	2007	304	1945	57.42	76.8	4.794	286.7	45.1	12.52
111	2007	304	2000	57.48	78.2	4.573	296.4	41.74	12.53
111	2007	304	2015	57.51	75.3	5.729	291.4	38.65	12.52
111	2007	304	2030	57.75	75.6	5.082	294.4	42.66	12.51
111	2007	304	2045	58.11	77.7	5.501	302	32.93	12.51
111	2007	304	2100	58.43	77.5	6.166	300.1	40.02	12.51
111	2007	304	2115	58.4	77.1	5.933	319.4	30.12	12.51
111	2007	304	2130	58.33	77.6	5.852	309	31.45	12.5
111	2007	304	2145	58.27	77.6	5.111	323.4	38	12.49
111	2007	304	2200	58.21	79	5.699	316.9	31.67	12.49
111	2007	304	2215	58.26	80	5.238	311.2	29.69	12.48
111	2007	304	2230	58.05	80	5.651	309.6	40.09	12.48
111	2007	304	2245	58.05	79.9	5.689	313.9	34.44	12.47
111	2007	304	2300	57.99	79.9	5.836	311.8	38.64	12.48
111	2007	304	2315	58.06	80.1	5.316	306.4	33.47	12.48
111	2007	304	2330	58.22	79.7	5.846	322.6	38.3	12.48
111	2007	304	2345	58.67	80.5	6.374	320.7	28.04	12.47
111	2007	304	2400	58.81	80.3	6.148	324.1	34.72	12.47
111	2007	305	15	58.74	80.3	6.452	324.4	26.5	12.47
111	2007	305	30	58.75	81.8	5.763	325.7	35.14	12.47
111	2007	305	45	58.71	82.1	6.053	333.9	37.47	12.47
111	2007	305	100	58.55	79.1	5.971	330.3	25.54	12.46
111	2007	305	115	58.57	80.6	5.935	328.9	29.18	12.47
111	2007	305	130	58.33	82.4	4.839	323.9	35.32	12.47
111	2007	305	145	58.42	82.3	6.098	328.3	31.84	12.46
111	2007	305	200	58.34	83.1	5.211	328.5	26.43	12.47
111	2007	305	215	58.3	84.4	4.458	329.8	34.23	12.46
111	2007	305	230	58.24	84.7	4.698	324.7	26.37	12.47
111	2007	305	245	58.12	84.9	4.258	322.5	32.94	12.47
111	2007	305	300	58.03	85.9	3.817	313.1	27.96	12.46
111	2007	305	315	57.86	86.5	3.336	323.5	36.28	12.47
111	2007	305	330	57.76	85.5	3.658	324.5	32.82	12.47

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	305	345	57.9	83.1	4.544	320.9	28.37	12.47
111	2007	305	400	58.14	81.2	4.966	324.5	29.48	12.47
111	2007	305	415	58.7	80.2	6.211	331	22.92	12.46
111	2007	305	430	58.76	80.5	5.09	326.6	31.38	12.47
111	2007	305	445	58.9	80.4	5.097	328.6	29.53	12.46
111	2007	305	500	58.91	80.1	5.352	337.6	29.02	12.57
111	2007	305	515	59.01	80.4	5.008	327.4	32.6	12.77
111	2007	305	530	59.1	80.5	4.897	323.1	31.27	13.11
111	2007	305	545	59.38	79.9	5.123	321.4	29.76	13.35
111	2007	305	600	59.56	80.7	4.746	321.8	36.59	13.63
111	2007	305	615	59.55	79.6	5.391	335	28.9	13.6
111	2007	305	630	59.6	79.2	5.159	330.3	29.71	13.59
111	2007	305	645	59.51	80	4.937	315.7	29.56	13.58
111	2007	305	700	59.45	80.1	5.576	322.4	26.17	13.14
111	2007	305	715	59.58	80	5.387	326.7	32.48	13.3
111	2007	305	730	59.6	80.6	6.029	324.3	24.53	13.54
111	2007	305	745	59.5	81.1	5.663	331.2	26.64	13.54
111	2007	305	800	59.47	79.9	6.69	334.4	33.09	13.52
111	2007	305	815	59.69	79.1	6.916	332.8	25.69	13.52
111	2007	305	830	59.74	79.4	6.624	335.9	26.77	13.52
111	2007	305	845	59.92	79.6	6.587	329.3	23.75	13.5
111	2007	305	900	60.07	78.9	6.217	330.8	32.7	13.51
111	2007	305	915	60.25	79.2	6.785	332.6	28.38	13.5
111	2007	305	930	60.35	78.9	6.722	334.4	24.66	13.49
111	2007	305	945	60.64	78.1	7.24	333.7	25.21	13.48
111	2007	305	1000	60.93	78.3	5.828	330.7	27.05	13.48
111	2007	305	1015	60.91	78.8	6.785	333.3	30.45	13.48
111	2007	305	1030	61.03	78.4	7.15	336	26.43	13.49
111	2007	305	1045	61.09	77.8	7.76	339.9	35.27	13.51
111	2007	305	1100	60.95	77.2	7.88	339	25.91	13.51
111	2007	305	1115	61.01	77.8	7.87	342.3	24.05	13.51
111	2007	305	1130	61.29	76.4	6.483	331.4	31.18	13.51
111	2007	305	1145	61	77.7	7.06	327.4	29.64	13.51
111	2007	305	1200	61.05	76.7	7.69	344.8	25.91	13.49
111	2007	305	1215	61.24	75.3	7.08	343.2	24.9	13.27
111	2007	305	1230	61.14	73.5	8.27	357.8	23.73	13.17
111	2007	305	1245	61.62	72.2	8.03	352.5	30.66	13.17
111	2007	305	1300	62.52	69.61	6.42	5.831	27.27	13.07
111	2007	305	1315	63.11	67.46	7.03	348.1	27.19	13.07
111	2007	305	1330	63.33	63.75	6.626	6.972	25.73	12.97
111	2007	305	1345	63.48	62.17	6.261	359.8	26.15	12.92
111	2007	305	1400	63.94	61.64	6.42	357.7	22.31	12.87
111	2007	305	1415	64.05	61.77	5.358	357	23.8	12.84
111	2007	305	1430	64.39	61.47	5.314	357.6	24.37	12.82
111	2007	305	1445	64.84	55.28	5.084	355.4	21.74	12.82
111	2007	305	1500	65.1	56.35	5.36	15.97	28.44	12.8
111	2007	305	1515	64.68	55.52	5.235	22.34	22.78	12.79
111	2007	305	1530	64.04	56.25	6.386	17.62	21.59	12.78
111	2007	305	1545	64.25	56.29	5.348	28.99	25.37	12.76
111	2007	305	1600	64.75	55.59	4.216	28.61	26.54	12.77
111	2007	305	1615	65.12	56.32	4.051	30.97	25.88	12.76
111	2007	305	1630	64.51	57.46	4.135	37.96	19.61	12.74
111	2007	305	1645	63.8	57.86	3.813	39.14	22.16	12.74
111	2007	305	1700	63.28	55.18	6.174	52.89	26.57	12.73
111	2007	305	1715	61.91	55.89	7.57	50.32	23.08	12.73
111	2007	305	1730	60.97	54.79	6.63	58.43	23.28	12.73
111	2007	305	1745	60.04	53.52	7.08	61.2	22.29	12.72
111	2007	305	1800	59.33	52.19	7.17	49.55	22.4	12.71
111	2007	305	1815	58.92	52.49	6.666	46.44	25.98	12.72
111	2007	305	1830	58.49	51.89	6.601	46.31	21.13	12.72

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	305	1845	57.86	49.28	7.77	46.11	23.81	12.71
111	2007	305	1900	56.99	46.57	7.93	46.61	21.75	12.71
111	2007	305	1915	56.36	45.87	7.48	51.18	23.6	12.7
111	2007	305	1930	55.95	46.5	6.541	46.97	19.15	12.69
111	2007	305	1945	55.65	47.44	5.596	51.39	22.56	12.69
111	2007	305	2000	55.38	49.02	5.354	51.92	25.95	12.68
111	2007	305	2015	55.09	50.4	6.182	49	25.77	12.67
111	2007	305	2030	54.46	52.74	5.647	45.22	20.18	12.67
111	2007	305	2045	53.51	54.92	4.152	48.55	22.59	12.66
111	2007	305	2100	52.8	56.83	3.712	50.09	20.65	12.65
111	2007	305	2115	52.13	59.07	3.187	45.43	18.72	12.65
111	2007	305	2130	51.46	61.14	2.604	33.16	21.91	12.64
111	2007	305	2145	50.38	65	2.163	22.98	15.35	12.64
111	2007	305	2200	49.54	67.22	1.45	24.95	21.72	12.63
111	2007	305	2215	49.04	67.49	2.242	22.99	20.43	12.63
111	2007	305	2230	48.8	69.94	1.687	27.52	19.11	12.63
111	2007	305	2245	47.98	72.4	1.426	19.14	16.71	12.62
111	2007	305	2300	47.67	72.3	1.927	27.86	18.07	12.61
111	2007	305	2315	48.33	69.33	2.812	48.65	24.88	12.61
111	2007	305	2330	48.52	69.27	1.986	75.1	37.57	12.61
111	2007	305	2345	48.69	68.5	1.998	102.9	33.72	12.61
111	2007	305	2400	48.36	68.03	1.541	86.5	38.22	12.6
111	2007	306	15	48	65.85	1.753	78.2	48.17	12.59
111	2007	306	30	48.2	65.32	1.742	86.2	39.24	12.6
111	2007	306	45	47.12	64.66	1.642	65.84	42.54	12.59
111	2007	306	100	47.76	58.46	2.878	98	49.51	12.59
111	2007	306	115	47.78	58.76	1.52	92.2	44.47	12.59
111	2007	306	130	46.79	61.04	1.246	90.9	37.18	12.59
111	2007	306	145	46.95	59.67	2.082	110.8	28.02	12.59
111	2007	306	200	45.88	67.48	0.594	69.71	49.87	12.59
111	2007	306	215	43.68	70.7	1.009	54.06	24.25	12.58
111	2007	306	230	44.14	64.13	1.977	108.3	35.26	12.58
111	2007	306	245	45.71	61.99	2.43	112	46.85	12.58
111	2007	306	300	45.82	60.65	3.006	129.4	43.92	12.58
111	2007	306	315	46.51	58.3	4.23	105.5	37.55	12.58
111	2007	306	330	46.89	55.99	5.419	108.7	37.42	12.57
111	2007	306	345	47.04	56.12	5.262	108.4	44.07	12.57
111	2007	306	400	46.57	57.29	3.773	104.1	45.34	12.56
111	2007	306	415	46.13	58.7	2.793	108.7	41.99	12.56
111	2007	306	430	45.71	58.53	3.249	106.5	36.71	12.56
111	2007	306	445	45.61	57.77	3.634	107.4	43.45	12.55
111	2007	306	500	45.65	56.09	4.035	115.8	38.48	12.61
111	2007	306	515	46.02	53.51	5.659	107.9	39.06	12.9
111	2007	306	530	46	54.08	5.302	111.6	39.79	13.37
111	2007	306	545	45.82	54.32	5.433	116.2	34.81	13.77
111	2007	306	600	45.63	54.79	5.258	114	25.82	13.73
111	2007	306	615	45.37	55.22	4.454	106.2	43.81	13.71
111	2007	306	630	45.26	54.62	4.416	105.4	38.12	13.67
111	2007	306	645	45.2	55.49	3.787	107.3	31.43	13.65
111	2007	306	700	44.94	55.76	3.995	101.6	34.32	13.24
111	2007	306	715	44.83	57.87	3.513	96.9	40.13	13.6
111	2007	306	730	44.69	60.01	3.37	100	33.38	13.6
111	2007	306	745	44.78	61.92	3.636	110.3	28.66	13.58
111	2007	306	800	44.87	62.29	3.67	106.7	32.01	13.57
111	2007	306	815	45.52	60.35	4.361	106.7	30.65	13.56
111	2007	306	830	46.5	57.83	4.768	105.4	39.81	13.56
111	2007	306	845	47.15	55.31	5.989	111	37.91	13.55
111	2007	306	900	47.78	54.54	4.323	106.4	65.88	13.54
111	2007	306	915	48.11	54.14	5.235	120.5	54.33	13.53
111	2007	306	930	48.49	53.5	5.63	117.3	39.63	13.52

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	306	945	49.19	52.16	4.919	135.7	55.98	13.51
111	2007	306	1000	49.94	50.51	5.135	150.1	58.36	13.51
111	2007	306	1015	50.4	50.61	5.308	148.2	61.36	13.5
111	2007	306	1030	50.63	48.83	6.184	162.9	62.46	13.49
111	2007	306	1045	50.9	48.39	5.489	131.6	62.43	13.49
111	2007	306	1100	51.69	46.96	5.955	156.6	44.95	13.49
111	2007	306	1115	51.95	46.45	5.759	143	60.8	13.49
111	2007	306	1130	52.33	45.85	5.358	127.2	67.03	13.49
111	2007	306	1145	53.13	43.77	5.743	151.5	61.33	13.48
111	2007	306	1200	52.54	42.53	6.442	134.1	50.52	13.51
111	2007	306	1215	52.65	43.63	4.907	123.8	66.67	13.5
111	2007	306	1230	52.9	42.89	5.455	136.2	58.25	13.51
111	2007	306	1245	52.62	43.63	5.348	146.4	68.25	13.52
111	2007	306	1300	52.78	41.69	6.039	133.8	61	13.52
111	2007	306	1315	52.41	43.79	5.421	166.3	52.14	13.53
111	2007	306	1330	52.24	43.12	4.903	144.2	63.03	13.53
111	2007	306	1345	52.58	43.17	4.409	143	66.16	13.54
111	2007	306	1400	52.78	43.34	4.381	139.8	64.3	13.55
111	2007	306	1415	52.92	43.87	5.117	153.7	54.11	13.1
111	2007	306	1430	52.61	44.81	4.065	160.3	63.27	12.92
111	2007	306	1445	52.79	45.78	4.73	168.6	55.05	12.86
111	2007	306	1500	52.66	46.92	4.073	146.3	52.57	12.83
111	2007	306	1515	52.52	48.56	3.632	150.9	64.3	12.8
111	2007	306	1530	52.25	50.1	4.103	155.9	59.13	12.78
111	2007	306	1545	51.99	53.01	4.033	152.8	51.88	12.77
111	2007	306	1600	52.01	55.55	3.618	150.6	61.01	12.76
111	2007	306	1615	51.54	57.6	4.49	154	55.04	12.75
111	2007	306	1630	51.26	59.2	4.268	152.2	57.91	12.75
111	2007	306	1645	50.99	60.78	4.988	148.6	54.31	12.73
111	2007	306	1700	50.57	62.18	4.345	148.2	61.16	12.73
111	2007	306	1715	50.31	62.32	4.468	143.4	55.21	12.73
111	2007	306	1730	50.06	62.25	4.194	155.8	53.87	12.73
111	2007	306	1745	49.81	62.52	3.853	145.9	65.66	12.72
111	2007	306	1800	49.51	60.68	3.275	155.8	62.32	12.72
111	2007	306	1815	49.22	59.72	2.753	143.1	57.1	12.71
111	2007	306	1830	48.96	59.05	3.559	143.8	57.59	12.72
111	2007	306	1845	48.82	60.02	2.88	141.3	63.88	12.72
111	2007	306	1900	48.78	60.29	3.567	162.4	48.64	12.72
111	2007	306	1915	48.78	60.7	2.981	146	66.64	12.72
111	2007	306	1930	48.58	61.66	2.901	143.9	59.45	12.71
111	2007	306	1945	48.44	62.44	3.207	148.8	54.44	12.7
111	2007	306	2000	48.24	63.07	3.076	147.3	43.7	12.7
111	2007	306	2015	48.1	62.77	3.035	145.9	65.67	12.7
111	2007	306	2030	47.91	63.27	2.804	149.8	45.93	12.7
111	2007	306	2045	47.73	62.17	3.209	149.8	50.61	12.7
111	2007	306	2100	47.73	60.03	3.102	142.4	61.33	12.7
111	2007	306	2115	47.61	58.69	3.316	161.6	51.65	12.7
111	2007	306	2130	47.54	58.35	3.801	161.1	54.95	12.7
111	2007	306	2145	47.33	58.76	3.668	149.1	61.71	12.69
111	2007	306	2200	47.05	60.7	3.366	145.6	53.91	12.68
111	2007	306	2215	46.88	60.56	4.7	166.9	47.36	12.69
111	2007	306	2230	46.81	59.06	5.379	160.7	51.17	12.69
111	2007	306	2245	46.54	59.59	4.401	164.3	58.43	12.68
111	2007	306	2300	46.33	59.83	4.105	150.8	51.57	12.68
111	2007	306	2315	46.14	60.33	4.677	157	47.71	12.68
111	2007	306	2330	45.91	61.33	4.206	163.8	48.18	12.68
111	2007	306	2345	45.73	62.84	4.524	146.4	55.88	12.68
111	2007	306	2400	45.74	63.37	4.587	155.6	49.53	12.67
111	2007	307	15	45.81	65.25	4.585	155.7	55.52	12.66
111	2007	307	30	45.81	67.23	5.109	152	54.19	12.66

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	307	45	45.84	68.83	5.534	149.9	59.47	12.66
111	2007	307	100	45.86	70.8	5.501	149.7	53.9	12.66
111	2007	307	115	45.85	72	5.469	152.1	53.82	12.65
111	2007	307	130	45.97	72.6	5.368	149.3	57.22	12.65
111	2007	307	145	46.14	72.9	6.176	144.7	51.1	12.64
111	2007	307	200	46.29	73.5	5.445	152.7	51.21	12.64
111	2007	307	215	46.4	74	5.421	143.2	55.19	12.63
111	2007	307	230	46.53	73.9	6.201	154.6	58.41	12.64
111	2007	307	245	46.42	74.7	5.33	149.9	64.43	12.64
111	2007	307	300	46.22	74.6	5.181	133	57.27	12.64
111	2007	307	315	46.18	74.6	5.894	141	63.44	12.63
111	2007	307	330	46.29	74.6	6.102	147.5	47.21	12.62
111	2007	307	345	46.48	74.8	5.385	140.6	53.71	12.62
111	2007	307	400	46.54	74.5	6.005	132.1	63.02	12.62
111	2007	307	415	46.59	74.4	7.74	127.9	55.99	12.62
111	2007	307	430	46.58	74.3	6.207	135.4	58.57	12.61
111	2007	307	445	46.47	73.8	7.15	130.7	43.87	12.61
111	2007	307	500	46.39	73.4	6.41	135.3	54.97	12.6
111	2007	307	515	46.38	73	6.664	131.6	52.23	12.6
111	2007	307	530	46.38	72.5	7.48	122.7	52.14	12.6
111	2007	307	545	46.37	72	7.81	122.3	46.88	12.6
111	2007	307	600	46.34	72	7.81	112.9	46.52	12.59
111	2007	307	615	46.3	71.8	8.23	116.3	48.59	12.59
111	2007	307	630	46.3	71.3	9.26	115.5	44.25	12.59
111	2007	307	645	46.07	73.4	8.89	118.2	36.51	12.59
111	2007	307	700	45.71	72.4	9.88	107.5	34.89	12.59
111	2007	307	715	45.69	72.6	9.29	118.7	37.07	12.59
111	2007	307	730	45.74	73	9.94	114.2	41.25	12.58
111	2007	307	745	45.84	73.5	9.79	115.8	35.14	12.59
111	2007	307	800	45.79	73.9	10.53	115.6	31.69	12.59
111	2007	307	815	45.88	73.9	11.65	114	31.28	12.61
111	2007	307	830	46.09	74.2	11.8	117.7	35.86	12.6
111	2007	307	845	46.27	74.1	9.92	110.8	37.06	12.61
111	2007	307	900	46.38	74.6	11.8	110.9	36.44	12.59
111	2007	307	915	46.17	75.8	11.79	113.6	29.57	12.59
111	2007	307	930	46.13	76.2	11.97	109.7	27.82	12.75
111	2007	307	945	46.29	75.1	11.54	109.8	31.91	12.67
111	2007	307	1000	46.23	76.9	13.91	113.2	31.65	12.62
111	2007	307	1015	45.94	79.2	11	118.5	31.3	12.68
111	2007	307	1030	45.67	81.3	11.08	114	35.93	12.63
111	2007	307	1045	45.49	80.6	11.16	111.2	33.47	12.62
111	2007	307	1100	45.66	78.9	12.24	106.8	36.69	12.79
111	2007	307	1115	45.72	79.7	11.24	108.2	33.32	13.32
111	2007	307	1130	45.55	82.1	10.11	106.2	36.5	13.33
111	2007	307	1145	45.28	83.6	10.22	111.8	30.12	13.32
111	2007	307	1200	45	85.5	10.73	110	32.62	13.37
111	2007	307	1215	44.88	86.9	10.22	112.5	28.47	13.56
111	2007	307	1230	44.87	86.9	9.5	111.5	33.91	13.46
111	2007	307	1245	45.01	87.1	10.14	113	33.11	13.15
111	2007	307	1300	44.97	86.9	10.96	110.5	33.2	13.06
111	2007	307	1315	44.74	86.5	11.11	109.3	36.07	13.08
111	2007	307	1330	44.65	86	9.37	102.2	46.2	13.28
111	2007	307	1345	44.6	86.1	8.59	103.5	38	13.26
111	2007	307	1400	44.72	86.1	9.06	107.5	38.33	13.6
111	2007	307	1415	44.94	85.8	8.58	100.1	33.98	13.2
111	2007	307	1430	45.14	84.6	8.76	90.9	39.7	12.95
111	2007	307	1445	45.2	83.5	8.27	95.1	41.6	12.87
111	2007	307	1500	45.36	81.5	7.37	92.2	40.8	12.84
111	2007	307	1515	45.63	78.1	6.789	76.8	41.75	12.82
111	2007	307	1530	46.04	74.4	7.63	75.4	40.56	12.79

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	307	1545	46.63	70.8	7.29	74.5	37.21	12.77
111	2007	307	1600	47.26	67.93	7.37	72.9	35.33	12.76
111	2007	307	1615	47.89	65.82	6.527	76.6	36.89	12.73
111	2007	307	1630	48.23	62.4	8.27	57.95	29.77	12.72
111	2007	307	1645	48.39	61.16	7.77	60.38	28.36	12.71
111	2007	307	1700	48.55	59.79	8.84	57.91	24.23	12.69
111	2007	307	1715	48.1	60.36	8.94	52.36	24.13	12.69
111	2007	307	1730	47.4	59.89	9.5	54.06	25.05	12.68
111	2007	307	1745	47.22	58.02	9.2	55.55	29.58	12.67
111	2007	307	1800	47.24	58.19	8.88	53.18	23.4	12.67
111	2007	307	1815	47.32	57.11	9.58	51.24	21.73	12.65
111	2007	307	1830	47.32	57.42	8.7	48.52	19.37	12.65
111	2007	307	1845	47.24	56.38	8.18	50.68	23.81	12.63
111	2007	307	1900	47.28	54.13	9.83	48.65	22.87	12.63
111	2007	307	1915	47.45	51.12	9.11	43.34	20.64	12.62
111	2007	307	1930	47.7	47.81	9.26	46.09	20.95	12.61
111	2007	307	1945	47.86	45.4	9.27	51.28	23.14	12.61
111	2007	307	2000	47.97	43.96	7.96	48.27	22.7	12.6
111	2007	307	2015	48.02	41.78	8.19	48.98	26.36	12.59
111	2007	307	2030	48.08	38.1	8.31	45.85	20.87	12.58
111	2007	307	2045	48.28	33.41	7.98	48	21.04	12.57
111	2007	307	2100	48.42	34.28	7.5	44.87	20.41	12.57
111	2007	307	2115	48.33	34.98	6.513	46.37	23.06	12.56
111	2007	307	2130	47.95	38.03	6.184	45.79	25.1	12.55
111	2007	307	2145	47.13	41.08	4.641	30.03	22.09	12.55
111	2007	307	2200	46.23	44.29	4.875	15.09	21.04	12.55
111	2007	307	2215	45.61	47.1	5.012	19.02	19.66	12.53
111	2007	307	2230	45.21	45.07	5.528	24.94	19.66	12.53
111	2007	307	2245	45.36	41.52	5.354	29.19	24.19	12.53
111	2007	307	2300	45.56	39.28	5.906	24.84	17.09	12.52
111	2007	307	2315	45.25	40.15	4.442	36.48	19.72	12.52
111	2007	307	2330	44.83	39.75	4.013	26.3	21.68	12.51
111	2007	307	2345	44.81	39.15	3.819	19.11	19.5	12.52
111	2007	307	2400	43.85	45.61	3.094	356.4	20.57	12.51
111	2007	308	15	41.28	55.12	2.155	7.3	15.22	12.51
111	2007	308	30	39.93	56.97	2.296	1.58	10.44	12.51
111	2007	308	45	38.97	60.35	2.127	7.81	13.86	12.51
111	2007	308	100	38.75	54.96	1.04	8.26	14.39	12.51
111	2007	308	115	39.72	53.89	2.298	3.137	12.41	12.5
111	2007	308	130	40.08	51.42	2.439	3.559	15	12.49
111	2007	308	145	39.63	58.52	2.502	1.617	19.72	12.5
111	2007	308	200	39.46	54.84	2.673	3.453	12.1	12.5
111	2007	308	215	38.84	57.49	3.132	349.8	13.82	12.5
111	2007	308	230	39.48	52.7	3.318	1.437	18.01	12.5
111	2007	308	245	40.05	52.6	2.691	0.647	21.42	12.49
111	2007	308	300	39.08	59.13	1.774	344	12.39	12.49
111	2007	308	315	37.57	63.01	2.008	357.5	17.82	12.49
111	2007	308	330	37.93	59.8	2.302	349.9	15.57	12.49
111	2007	308	345	39.27	56.25	3.384	348.6	16.23	12.48
111	2007	308	400	40.06	57.59	3.237	356.2	14.65	12.48
111	2007	308	415	40.32	56.38	2.52	358.8	15.97	12.47
111	2007	308	430	40.24	56.95	2.221	353.5	15.19	12.48
111	2007	308	445	39.8	61.57	1.237	354.4	15.08	12.48
111	2007	308	500	39.51	60.6	1.62	13.89	14.14	12.56
111	2007	308	515	40.19	61.53	2.177	353.5	19.26	12.83
111	2007	308	530	40.84	61.46	1.7	6.502	17.95	13.32
111	2007	308	545	41	63.67	1.5	7.92	20.02	13.74
111	2007	308	600	40.72	66.92	1.573	15.69	11.22	13.71
111	2007	308	615	41.73	61.99	2.602	12.64	13.8	13.69
111	2007	308	630	43	62.56	2.244	25.7	17.31	13.69

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	308	645	43.23	65.57	2.834	25.55	15.61	13.66
111	2007	308	700	43.12	68.25	3.259	25.42	16.14	13.15
111	2007	308	715	42.75	70.1	3.08	25.55	14.56	13.66
111	2007	308	730	42.1	73.9	2.872	7.11	11.21	13.64
111	2007	308	745	41.68	74.7	3.189	9.9	13.24	13.64
111	2007	308	800	42.07	75.3	3.193	357.8	15.31	13.62
111	2007	308	815	42.75	73.1	2.806	4.449	16.27	13.64
111	2007	308	830	43.68	71.5	3.813	3.879	14.28	13.63
111	2007	308	845	44.97	69.19	5.056	10.91	17.89	13.62
111	2007	308	900	45.91	68.18	4.138	13.85	19.86	13.62
111	2007	308	915	46.62	67.03	4.673	21.68	19.2	13.6
111	2007	308	930	47.3	65.96	5.358	17.36	24.92	13.62
111	2007	308	945	47.99	64.41	6.499	25.37	22.41	13.62
111	2007	308	1000	49.25	61.23	5.614	32.9	22.76	13.6
111	2007	308	1015	50.05	59.82	6.89	28.52	23.95	13.6
111	2007	308	1030	50.89	56.4	5.477	26.71	27.79	13.59
111	2007	308	1045	51.73	53.65	5.195	41.11	27.86	13.6
111	2007	308	1100	52.6	50.8	5.199	39.88	25.62	13.59
111	2007	308	1115	53.29	49.4	4.835	48.22	45.3	13.59
111	2007	308	1130	53.81	45.85	5.016	53.02	34.44	13.59
111	2007	308	1145	54.26	46.98	5.842	33.5	29.53	13.59
111	2007	308	1200	54.55	45.1	6.66	36.78	23.57	13.6
111	2007	308	1215	54.45	46.44	6.569	36.98	28.14	13.6
111	2007	308	1230	54.53	45.33	6.551	34	28.24	13.61
111	2007	308	1245	54.68	46.54	5.477	35.85	27.48	13.6
111	2007	308	1300	54.87	44.7	6.001	31.21	28.43	13.62
111	2007	308	1315	55.01	46.94	6.36	24.48	36.69	13.62
111	2007	308	1330	54.42	45.4	5.943	37.52	23.81	13.62
111	2007	308	1345	54.23	46.64	4.774	30.96	35.46	13.54
111	2007	308	1400	54.28	41.79	4.127	42.37	26.08	13.65
111	2007	308	1415	54.51	42.56	4.708	39.8	20.07	13.33
111	2007	308	1430	54.41	42.49	5.135	16.83	22.04	12.95
111	2007	308	1445	54.41	46.51	4.091	37.12	33.3	12.87
111	2007	308	1500	53.94	44.2	6.724	7.13	26.06	12.83
111	2007	308	1515	54.02	44.37	4.69	22.48	24.39	12.8
111	2007	308	1530	53.75	45.67	4.432	17.33	24.5	12.78
111	2007	308	1545	53.4	46.35	4.329	359.4	22.44	12.77
111	2007	308	1600	53.39	45.18	4.621	12.88	19.71	12.75
111	2007	308	1615	53.5	46.08	4.027	20.82	22.12	12.74
111	2007	308	1630	53.27	47.72	3.537	32.38	16.74	12.73
111	2007	308	1645	53.1	46.42	3.005	24.9	24.83	12.72
111	2007	308	1700	52.89	47.66	2.594	31.94	16.54	12.71
111	2007	308	1715	52.54	50.94	1.965	9.27	17.56	12.71
111	2007	308	1730	51.75	53.95	0.133	350.9	6.416	12.69
111	2007	308	1745	51.17	56.76	0.416	5.585	14.46	12.68
111	2007	308	1800	50.55	61.18	0.23	349.3	2.407	12.68
111	2007	308	1815	49.62	64.66	0.091	310.2	0.376	12.66
111	2007	308	1830	49.17	67.04	0.626	349.1	15.53	12.66
111	2007	308	1845	48.86	67.58	0.83	349.2	13.73	12.65
111	2007	308	1900	48.42	70.7	0.141	348.5	2.294	12.66
111	2007	308	1915	47.81	71.5	0.063	4.01	0.688	12.64
111	2007	308	1930	47.26	74.3	0.396	8.74	3.328	12.64
111	2007	308	1945	47.05	74.7	0.258	344.9	5.143	12.63
111	2007	308	2000	47.06	74.8	0.278	349.8	11.07	12.63
111	2007	308	2015	47.6	67.99	1.608	358.5	21.39	12.63
111	2007	308	2030	48.68	65.18	2.014	351.8	18.25	12.62
111	2007	308	2045	49.06	60.53	2.616	6.11	18.04	12.61
111	2007	308	2100	49.2	63.51	1.942	8.56	18.77	12.61
111	2007	308	2115	48.52	65.52	1.329	2.591	16.97	12.6
111	2007	308	2130	47.85	69.74	1.217	4.878	19.85	12.6

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	308	2145	47.33	71.1	0.744	3.167	11.17	12.59
111	2007	308	2200	46.99	71.2	1.202	43.71	21.82	12.58
111	2007	308	2215	46.32	75.6	1.113	6.023	10.07	12.58
111	2007	308	2230	45.13	78	1.119	9.26	18.48	12.57
111	2007	308	2245	44.09	80.3	0.424	4.439	9.13	12.57
111	2007	308	2300	43.1	82.3	0.182	5.408	1.818	12.56
111	2007	308	2315	42.27	83.8	1.063	355.5	12.61	12.56
111	2007	308	2330	41.39	85.1	0.274	337.9	3.482	12.56
111	2007	308	2345	41.03	86.2	0.045	0.772	0.009	12.55
111	2007	308	2400	40.91	86.9	0.105	17.19	6.55	12.55
111	2007	309	15	40.54	87.1	0.275	2.046	10.04	12.55
111	2007	309	30	40.14	87.7	0.517	355.8	7.14	12.54
111	2007	309	45	39.67	88.3	1.131	348.7	17.98	12.53
111	2007	309	100	39.37	88.8	0.334	353.9	8.12	12.52
111	2007	309	115	39.04	89.1	0.38	355.8	9.04	12.52
111	2007	309	130	38.92	89.7	0.194	7.98	2.565	12.51
111	2007	309	145	39.16	89.9	0.038	346.4	0.573	12.5
111	2007	309	200	39.25	89.8	0.718	353.1	8.68	12.51
111	2007	309	215	38.98	89.8	0.164	345.9	2.235	12.5
111	2007	309	230	38.49	89.9	0.126	350.7	0.855	12.49
111	2007	309	245	37.91	90.3	0.108	82.1	4.108	12.49
111	2007	309	300	37.55	90.3	0.702	348.7	9.1	12.48
111	2007	309	315	37.11	90.5	0.306	358.2	4.004	12.48
111	2007	309	330	36.88	91.1	0.387	25.56	17.45	12.47
111	2007	309	345	37.83	90.3	1.821	35.69	21.09	12.47
111	2007	309	400	39.47	84.7	2.77	9.24	13.12	12.47
111	2007	309	415	39.68	84	1.126	29.25	20.79	12.46
111	2007	309	430	39.13	84.1	0.91	51.84	17.02	12.45
111	2007	309	445	38.57	84.8	0.111	55.07	4.049	12.46
111	2007	309	500	38.09	85.5	1.458	53.62	8.23	12.6
111	2007	309	515	38.5	85	1.601	41.78	14.64	12.82
111	2007	309	530	39.64	80.7	2.05	44.51	15.04	13.73
111	2007	309	545	39.52	81	1.289	39.88	14.52	13.88
111	2007	309	600	39.04	81.6	1.081	33.32	19.48	13.86
111	2007	309	615	38.24	84	1.057	10	16.08	13.84
111	2007	309	630	37.32	85.3	1.054	2.352	14.11	13.81
111	2007	309	645	36.86	86.7	0.307	11.26	8.31	13.78
111	2007	309	700	36.6	87.3	0.378	16.59	10.39	13.35
111	2007	309	715	36.09	87.8	0.103	357.8	9.14	13.76
111	2007	309	730	35.66	88.3	0.368	357.8	10.82	13.74
111	2007	309	745	35.54	88.9	0.107	20.27	9.1	13.73
111	2007	309	800	35.63	89.8	0.399	353.2	3.75	13.71
111	2007	309	815	36.72	90.2	0.904	2.126	12.31	13.71
111	2007	309	830	38.17	90.1	0.277	355.4	6.691	13.61
111	2007	309	845	40.51	87.4	2.222	3.595	22.99	13.72
111	2007	309	900	43.6	79.3	2.086	19.57	24.03	13.72
111	2007	309	915	46.07	71.5	2.397	47.07	23.65	13.71
111	2007	309	930	47.78	68.22	2.85	19.93	21.58	13.69
111	2007	309	945	49.02	66.13	3.036	18.88	23.44	13.67
111	2007	309	1000	50.31	61.87	2.782	34.32	30.43	13.67
111	2007	309	1015	51.37	57.35	2.355	37.43	42.07	13.67
111	2007	309	1030	51.97	56.63	2.399	0.424	37.07	13.67
111	2007	309	1045	52.92	56.76	2.875	329.4	39.12	13.67
111	2007	309	1100	53.12	54.45	2.71	354.8	38.16	13.66
111	2007	309	1115	53.4	50.5	3.771	345.5	27.93	13.67
111	2007	309	1130	53.76	48.42	4.206	337.4	34.15	13.68
111	2007	309	1145	54.82	45.41	3.642	286.1	36.42	13.65
111	2007	309	1200	54.71	43.13	4.041	286.9	35.6	13.66
111	2007	309	1215	54.69	43.06	4.131	299.9	49.67	13.65
111	2007	309	1230	54.99	45.13	4.232	275.5	41.4	13.67

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	309	1245	55.16	42.82	4.635	291.7	37.82	13.66
111	2007	309	1300	55.33	45.83	4.589	301.8	48.58	13.63
111	2007	309	1315	55.02	48.31	5.812	345.2	26.23	13.64
111	2007	309	1330	55.07	42.96	4.853	314.4	38.01	13.66
111	2007	309	1345	54.55	47.41	5.894	316.8	36.13	13.28
111	2007	309	1400	54.17	47.77	5.989	311.9	34.84	13.02
111	2007	309	1415	54.49	47.91	5.302	309.9	32.27	12.89
111	2007	309	1430	54.17	49.58	5.993	316.2	34.44	12.84
111	2007	309	1445	54.21	49.55	5.417	322.7	31.53	12.81
111	2007	309	1500	54.12	51.19	5.949	326.2	31.81	12.79
111	2007	309	1515	54.14	51.59	4.968	289.4	42.06	12.77
111	2007	309	1530	53.81	50.85	5.272	304.8	38.17	12.76
111	2007	309	1545	54.27	50.29	4.581	323.2	38.02	12.74
111	2007	309	1600	53.71	50.59	5.683	326.6	28.11	12.73
111	2007	309	1615	53.76	50.02	4.508	313.7	37.19	12.72
111	2007	309	1630	53.88	52.06	3.573	303.9	37.68	12.71
111	2007	309	1645	53.75	52.79	3.465	281.1	38.29	12.7
111	2007	309	1700	53.25	53.13	3.056	297.1	32.86	12.69
111	2007	309	1715	52.84	55.34	2.496	273.4	30.66	12.68
111	2007	309	1730	52.16	57.46	1.843	265.8	35	12.67
111	2007	309	1745	50.88	61.31	1.886	250.4	25.67	12.66
111	2007	309	1800	49.76	64.73	1.22	251.9	28.67	12.67
111	2007	309	1815	49.28	66.33	1.688	243.8	20.52	12.66
111	2007	309	1830	49.19	66.82	1.858	250.6	31.95	12.65
111	2007	309	1845	49.2	67.86	2.184	269.5	40.06	12.65
111	2007	309	1900	49.48	65.05	2.212	266.1	44.7	12.64
111	2007	309	1915	50.13	62.6	3.305	256.1	33.07	12.64
111	2007	309	1930	50.72	63.17	3.4	271.8	34.09	12.64
111	2007	309	1945	50.91	62.1	4.009	263.6	36.18	12.63
111	2007	309	2000	51.34	60.73	4.27	255.9	38.79	12.63
111	2007	309	2015	51.75	60.29	5.387	258.4	28.3	12.63
111	2007	309	2030	52.04	61.94	4.903	265.3	32.99	12.63
111	2007	309	2045	52.1	63.71	4.875	263.5	35.36	12.62
111	2007	309	2100	52.16	62.7	5.391	263.9	34.79	12.61
111	2007	309	2115	52.39	61.23	5.054	268.7	39.75	12.61
111	2007	309	2130	52.6	62.03	5.048	268.4	40.17	12.61
111	2007	309	2145	52.57	60.82	5.088	267.4	33.53	12.61
111	2007	309	2200	52.81	61.79	5.046	275.2	36.8	12.61
111	2007	309	2215	52.75	62.55	4.41	286.5	38.72	12.61
111	2007	309	2230	52.85	60.11	4.222	282.9	41.36	12.6
111	2007	309	2245	53.27	58.3	5.401	276.2	33.23	12.6
111	2007	309	2300	53.57	61.31	5.185	270.8	37.45	12.59
111	2007	309	2315	53.57	60.61	5.57	259.1	38.75	12.59
111	2007	309	2330	53.69	60.14	6.39	253	33.25	12.58
111	2007	309	2345	53.75	60.01	6.138	260.7	37.83	12.57
111	2007	309	2400	53.96	60.88	6.122	265	25.24	12.57
111	2007	310	15	54.08	61.31	6.557	269.4	29.86	12.56
111	2007	310	30	54.15	63.45	6.025	271.3	38.26	12.56
111	2007	310	45	54.37	62.68	6.728	271.7	41.02	12.55
111	2007	310	100	54.49	64.02	7.14	269.7	32.22	12.55
111	2007	310	115	54.51	64.46	7.38	269.6	37.65	12.55
111	2007	310	130	54.51	65.8	6.102	271.7	35.24	12.55
111	2007	310	145	54.64	67.03	6.565	259.7	34.59	12.53
111	2007	310	200	54.72	68.88	7.16	263.9	33.07	12.53
111	2007	310	215	54.92	69.88	7.33	268.1	35.37	12.52
111	2007	310	230	55.02	69.98	7.62	265.7	38.18	12.52
111	2007	310	245	55.22	73.5	7.07	268.1	38.89	12.52
111	2007	310	300	54.77	78.6	7.06	263.5	42.68	12.52
111	2007	310	315	54.09	81.8	5.715	269.9	42.57	12.52
111	2007	310	330	54.35	81.3	7.07	264.5	36.46	12.51

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	310	345	54.94	81.2	6.398	256.5	34.04	12.51
111	2007	310	400	54.93	84.6	6.072	262.4	38.58	12.51
111	2007	310	415	54.72	85.8	5.937	268.7	37.36	12.51
111	2007	310	430	54.91	85.6	5.125	263.4	33.67	12.5
111	2007	310	445	55.1	82.7	4.244	280.1	42.35	12.5
111	2007	310	500	55.05	70.2	4.163	281.3	36.46	12.51
111	2007	310	515	55.51	69.14	4.504	285	37.23	12.51
111	2007	310	530	55.81	72.8	4.111	294.8	48.15	12.5
111	2007	310	545	55.72	78.2	4.24	316.4	35.6	12.51
111	2007	310	600	55.21	79.7	4.837	314.2	33.72	12.5
111	2007	310	615	55.59	71.7	6.72	316.5	34.32	12.5
111	2007	310	630	54.9	75.9	6.247	326	36.41	12.5
111	2007	310	645	53.2	82.2	3.674	329.8	31.6	12.51
111	2007	310	700	52.64	84.2	4.14	349.5	18.72	12.59
111	2007	310	715	52.89	74.7	5.902	341.5	21.16	12.63
111	2007	310	730	52.89	77	11.07	354.9	22.1	12.57
111	2007	310	745	51.13	84.3	9.27	355.2	22.97	12.56
111	2007	310	800	50.21	86.6	8.58	346.7	19.3	12.61
111	2007	310	815	50.07	87.8	7.61	352.2	30.96	12.63
111	2007	310	830	49.99	88.7	6.199	346.7	21.61	13.13
111	2007	310	845	50.09	89.6	7.24	353	26.61	13.19
111	2007	310	900	50.5	89.6	6.835	346.2	19.77	13.35
111	2007	310	915	50.56	88.9	8.82	349.2	27.97	13.37
111	2007	310	930	50.31	89.7	7.21	354.3	20.35	13.13
111	2007	310	945	50.06	90.5	6.203	346.7	35.41	13.04
111	2007	310	1000	49.82	90.9	6.71	353.1	24.5	12.98
111	2007	310	1015	49.56	91.5	5.612	358.5	21.93	12.97
111	2007	310	1030	49.24	91.6	6.706	355.6	24.66	12.91
111	2007	310	1045	49.07	91.9	5.421	3.064	24.37	12.87
111	2007	310	1100	49.05	91.6	5.546	9.61	26.87	12.87
111	2007	310	1115	48.86	90.9	5.848	9.38	17.85	12.83
111	2007	310	1130	48.66	90	5.534	12.44	22.73	12.78
111	2007	310	1145	48.46	88.5	5.405	10.94	20.93	12.77
111	2007	310	1200	48.16	88.6	5.312	8.99	20.36	12.73
111	2007	310	1215	48.05	88.1	5.507	10.77	24.58	12.73
111	2007	310	1230	47.69	84	6.521	5.846	24.36	12.8
111	2007	310	1245	47.28	83.4	6.501	8.95	19.51	12.72
111	2007	310	1300	46.93	82.2	6.184	5.642	18.46	12.71
111	2007	310	1315	46.84	84.5	4.131	351	22.24	12.68
111	2007	310	1330	46.7	83.3	4.373	341.9	31.32	12.65
111	2007	310	1345	46.5	83.3	4.349	349.9	26.27	12.63
111	2007	310	1400	46.56	80.6	5.342	358.2	24.7	12.62
111	2007	310	1415	46.9	79.3	5.606	353.1	17.07	12.6
111	2007	310	1430	47.84	73.8	5.647	357.6	22.19	12.58
111	2007	310	1445	48.54	71.3	6.376	355.3	27.18	12.57
111	2007	310	1500	48.82	63.33	6.092	15.91	24.5	12.56
111	2007	310	1515	49.55	60.28	6.501	7.68	26.2	12.55
111	2007	310	1530	49.39	58.74	6.199	358	21.13	12.55
111	2007	310	1545	49.51	56.99	6.233	351	20.78	12.53
111	2007	310	1600	49.74	59.2	5.892	340.3	32.52	12.52
111	2007	310	1615	48.82	61.98	3.938	337.8	26.38	12.52
111	2007	310	1630	49.34	55.79	4.573	357.4	23.91	12.51
111	2007	310	1645	50.3	42.27	6.112	15.27	16.92	12.51
111	2007	310	1700	49.98	39.76	7.61	18.79	21.18	12.5
111	2007	310	1715	49.41	37.62	7.02	13.89	22.59	12.5
111	2007	310	1730	48.86	36.51	7.31	11.16	25.92	12.51
111	2007	310	1745	48.17	39.8	6.738	6.152	19.69	12.5
111	2007	310	1800	47.39	41.91	5.042	3.209	15.51	12.5
111	2007	310	1815	46.83	41.91	5.036	6.109	20.74	12.5
111	2007	310	1830	46.33	45.33	3.499	13.54	19.86	12.49

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	310	1845	45.23	49.68	1.965	17.47	13.03	12.49
111	2007	310	1900	43.71	57.25	0.849	355.1	12.63	12.49
111	2007	310	1915	41.8	64.56	0.159	45.51	2.549	12.49
111	2007	310	1930	40.52	67.14	0.44	323.7	38.33	12.49
111	2007	310	1945	40.14	67.21	0.466	358	13.96	12.49
111	2007	310	2000	41.32	55.22	3.051	357.5	18.81	12.49
111	2007	310	2015	43.97	48.29	5.33	10.9	17.93	12.49
111	2007	310	2030	44.38	48.76	4.565	1.146	18.23	12.49
111	2007	310	2045	43.92	49.26	3.247	2.472	17.06	12.49
111	2007	310	2100	43.62	47.66	3.499	2.251	19.76	12.49
111	2007	310	2115	43.25	48.43	3.227	353.3	17.11	12.49
111	2007	310	2130	43.1	47.25	3.9	351	13.05	12.49
111	2007	310	2145	42.89	47.62	3.299	339.4	17.99	12.49
111	2007	310	2200	42.61	48.56	3.692	340.4	13.4	12.49
111	2007	310	2215	42.68	48.02	4.498	347.7	21.76	12.48
111	2007	310	2230	42.91	45.95	4.861	346.2	21.88	12.48
111	2007	310	2245	43.38	45.51	6.998	352.2	21.24	12.47
111	2007	310	2300	43.32	44.81	6.551	356.1	15.66	12.47
111	2007	310	2315	43.29	44.74	6.869	359.9	19.92	12.48
111	2007	310	2330	43.34	45.04	6.936	8.72	18.19	12.48
111	2007	310	2345	43.12	44.37	6.587	1.067	21.93	12.47
111	2007	310	2400	43.11	44.67	7.66	359.4	22.44	12.47
111	2007	311	15	43.14	45.58	7.61	1.996	25.02	12.48
111	2007	311	30	42.95	45.78	7.54	357.2	24.31	12.47
111	2007	311	45	42.87	46.99	6.821	4.395	17.81	12.47
111	2007	311	100	42.74	48.19	6.624	2.672	23.17	12.47
111	2007	311	115	42.55	48.93	6.275	4.088	23.01	12.47
111	2007	311	130	42.36	49.43	5.916	1.328	25.32	12.47
111	2007	311	145	42.21	50.67	6.607	2.46	19.25	12.47
111	2007	311	200	42.22	50.67	7.39	2.638	22.82	12.47
111	2007	311	215	42.01	51.04	6.473	357.4	16.2	12.46
111	2007	311	230	41.93	50.8	6.918	358.5	19.14	12.47
111	2007	311	245	41.82	52.58	6.716	357.8	22.15	12.46
111	2007	311	300	41.64	52.34	7.04	359.4	19.06	12.46
111	2007	311	315	41.53	52.71	8.33	1.931	18.61	12.47
111	2007	311	330	41.44	53.99	7.87	0.922	17.26	12.47
111	2007	311	345	41.25	54.29	8.61	2.404	18.59	12.47
111	2007	311	400	41.13	55.29	7.68	3.35	22.97	12.47
111	2007	311	415	40.78	56.8	6.352	6.463	15.73	12.46
111	2007	311	430	40.43	58.34	5.983	358.9	20.28	12.46
111	2007	311	445	40.4	58.61	6.013	3.369	19.42	12.46
111	2007	311	500	40.11	59.51	5.83	2.17	17.49	12.46
111	2007	311	515	39.97	60.05	6.209	8.53	18.04	12.46
111	2007	311	530	39.73	61.39	5.884	5.813	20.6	12.47
111	2007	311	545	39.4	62.87	5.205	358.5	23	12.48
111	2007	311	600	39.03	64.04	3.746	6.39	25.07	12.47
111	2007	311	615	38.68	65.15	3.241	18.57	22.78	12.47
111	2007	311	630	38.71	65.72	3.765	13.93	18.58	12.48
111	2007	311	645	38.57	67.6	3.767	8.85	17.22	12.56
111	2007	311	700	38.62	67.5	3.857	14.3	19.4	12.67
111	2007	311	715	38.81	68.07	4.774	12.7	17.26	12.83
111	2007	311	730	38.79	68.23	5.008	12.91	17.91	12.93
111	2007	311	745	38.69	69.11	4.383	13.29	15.24	12.96
111	2007	311	800	38.67	69.41	4.053	3.068	18.5	13.03
111	2007	311	815	39.17	67.9	4.97	4.938	18.59	13.12
111	2007	311	830	39.96	66.49	4.996	15.06	21.33	13.15
111	2007	311	845	40.84	65.58	3.799	18.46	23.23	13.1
111	2007	311	900	41.66	63.77	5.024	28.53	27.57	13.14
111	2007	311	915	42.69	58.98	5.588	32.58	21.43	13.21
111	2007	311	930	43.83	53.04	7.54	33.93	24.19	13.62

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	311	945	44.75	51.37	7.34	28.7	21.55	13.61
111	2007	311	1000	44.96	49.45	8.71	35.57	21.99	13.51
111	2007	311	1015	45.22	49.68	7.85	30.35	24.12	13.61
111	2007	311	1030	45.6	48.04	8.34	26.47	25.79	13.58
111	2007	311	1045	46.21	46.84	8.14	32.46	26.97	13.43
111	2007	311	1100	46.31	44.73	9.41	39.29	20.06	13.58
111	2007	311	1115	46.38	44.99	9.95	49.16	21.03	13.58
111	2007	311	1130	47	42.11	8.76	42.06	27.87	13.58
111	2007	311	1145	47.28	41.54	8.36	41.88	33.05	13.57
111	2007	311	1200	47.82	40.3	7.85	60.15	28.72	13.58
111	2007	311	1215	47.2	43.74	9.06	30.4	28.87	13.58
111	2007	311	1230	47.26	42	8.82	40.28	31.81	13.59
111	2007	311	1245	46.3	42.8	8.43	42.65	25.2	13.58
111	2007	311	1300	47.18	42.47	8.27	44.5	25.44	13.59
111	2007	311	1315	47.28	40.96	9.19	40.99	23.53	13.6
111	2007	311	1330	47.36	41.4	8.79	40.01	25.97	13.6
111	2007	311	1345	47.71	41.03	8.21	37.3	27.26	13.62
111	2007	311	1400	47.89	40.13	8.04	52.59	28.88	13.48
111	2007	311	1415	47.82	42.57	8.68	48.26	32.83	13.03
111	2007	311	1430	47.38	41	8.06	31.52	25.65	12.92
111	2007	311	1445	47.99	40.73	7.1	64.54	37.19	12.87
111	2007	311	1500	47.08	41.93	7.81	51.94	28.81	12.84
111	2007	311	1515	47.47	40.93	8.58	47.09	27.36	12.82
111	2007	311	1530	47.58	41.97	9.15	37.59	23.4	12.8
111	2007	311	1545	47.82	42.07	8.06	47.87	23.94	12.79
111	2007	311	1600	47.16	42.14	8.48	40.33	26.45	12.77
111	2007	311	1615	46.95	42.7	8.28	31.35	20.85	12.76
111	2007	311	1630	46.69	43.01	7.78	44.64	25.52	12.75
111	2007	311	1645	46.61	43.04	6.783	53.66	27.02	12.73
111	2007	311	1700	45.89	43.68	7.55	50.32	23.47	12.73
111	2007	311	1715	45.6	45.46	5.368	56.01	29.84	12.71
111	2007	311	1730	45.18	46.83	4.199	50.37	35.14	12.71
111	2007	311	1745	44.28	49.11	5.385	49.09	20.87	12.7
111	2007	311	1800	43.61	49.85	5.894	42.89	24.5	12.69
111	2007	311	1815	43.27	48.34	6.674	43.19	23.13	12.69
111	2007	311	1830	42.73	48.52	4.685	52.04	28.07	12.68
111	2007	311	1845	42.46	45.84	5.536	48.74	26.5	12.67
111	2007	311	1900	42.34	45.64	6.07	46.27	22.89	12.67
111	2007	311	1915	42.11	47.15	5.507	48.09	23.04	12.67
111	2007	311	1930	41.69	48.26	4.804	38.08	25.56	12.66
111	2007	311	1945	41.32	49.1	4.037	39.45	19	12.65
111	2007	311	2000	40.8	50.77	3.033	42.24	19.83	12.64
111	2007	311	2015	40.28	52.34	2.329	39.75	27.31	12.64
111	2007	311	2030	39.74	54.29	1.554	30.21	20.5	12.63
111	2007	311	2045	39.07	57.07	1.244	20.31	19.83	12.62
111	2007	311	2100	38.51	57.25	1.323	17.79	14.85	12.61
111	2007	311	2115	38.49	57.25	1.938	17.08	19.6	12.61
111	2007	311	2130	38.4	56.75	2.133	15.69	16.87	12.61
111	2007	311	2145	38.21	58.96	2.432	12.1	14.16	12.59
111	2007	311	2200	37.75	59.26	1.866	17.4	15.92	12.6
111	2007	311	2215	37.48	61.34	2.03	8.84	19.64	12.6
111	2007	311	2230	36.23	65.86	1.637	0.289	12.44	12.59
111	2007	311	2245	35.69	65.59	2.733	1.406	10.25	12.58
111	2007	311	2300	36.39	62.98	2.009	33.23	22.4	12.58
111	2007	311	2315	37.23	60.33	1.947	38.79	23.92	12.58
111	2007	311	2330	37.14	62.28	1.595	26.67	19.46	12.57
111	2007	311	2345	35.92	68.11	1.527	13.56	14.46	12.57
111	2007	311	2400	34.64	69.41	0.167	13.93	7.2	12.56
111	2007	312	15	34.03	71.5	0.029	7.27	0.84	12.56
111	2007	312	30	32.95	76.4	0.548	354.8	11.57	12.56

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	312	45	32.87	77	1.875	3.579	16.43	12.56
111	2007	312	100	32.62	77.8	1.26	2.038	10.47	12.55
111	2007	312	115	32.22	79.3	0.963	6.674	13.28	12.54
111	2007	312	130	32.16	79.7	1.428	2.734	13.42	12.54
111	2007	312	145	32.26	79.2	1.628	7.27	13.05	12.54
111	2007	312	200	32.47	78.4	1.522	9.34	16.22	12.54
111	2007	312	215	32.65	77.5	1.766	3.956	15.22	12.54
111	2007	312	230	32.23	78.6	1.911	11.42	14.06	12.53
111	2007	312	245	32.34	78.9	1.435	12.52	10.78	12.53
111	2007	312	300	31.83	80.3	0.902	12.51	12.97	12.52
111	2007	312	315	31.25	81.8	0.833	15.34	8.84	12.52
111	2007	312	330	30.62	82.9	na	na	na	12.51
111	2007	312	345	29.9	84.4	na	na	na	12.51
111	2007	312	400	29.71	85.1	0.036	46.95	0.317	12.51
111	2007	312	415	29.21	85.7	na	na	na	12.5
111	2007	312	430	28.88	86.9	0.049	13.63	0.827	12.5
111	2007	312	445	28.76	87.4	0.009	29.92	0.004	12.5
111	2007	312	500	28.18	88.1	na	na	na	12.61
111	2007	312	515	28.19	88.8	0.009	38.61	0	12.66
111	2007	312	530	28.57	88.9	0.116	52.41	2.622	13.55
111	2007	312	545	28.39	89.1	0.054	62.22	1.985	13.85
111	2007	312	600	28.65	89.2	0.306	94.8	10.69	13.83
111	2007	312	615	28.67	89.1	0.027	35.31	2.553	13.82
111	2007	312	630	28.47	89.2	0.233	5.634	11.79	13.8
111	2007	312	645	28.29	89.9	0.166	22.09	10.34	13.8
111	2007	312	700	28.71	89.6	0.288	24.54	12.06	13.21
111	2007	312	715	28.72	89.1	0.326	11.14	12.18	13.79
111	2007	312	730	28.64	89.5	0.225	22.59	8.67	13.79
111	2007	312	745	28.56	89.7	0.249	18.62	6.389	13.77
111	2007	312	800	29.1	89.9	0.446	38.18	10.38	13.77
111	2007	312	815	30.48	88.2	0.949	35.06	14.43	13.75
111	2007	312	830	32.1	85.1	0.915	40.21	16.61	13.75
111	2007	312	845	34.12	79.1	1.891	59.41	25.66	13.75
111	2007	312	900	36.15	73.7	2.088	66.83	32.52	13.73
111	2007	312	915	37.79	69.26	2.361	68.35	35.21	13.73
111	2007	312	930	38.98	64.73	3.382	85.3	42.51	13.71
111	2007	312	945	39.83	61.71	4.609	92.9	33.03	13.7
111	2007	312	1000	40.38	60.86	3.938	80.6	35.06	13.69
111	2007	312	1015	41.39	57.87	3.503	126.9	54.27	13.67
111	2007	312	1030	41.43	57.2	3.819	85.3	41.06	13.66
111	2007	312	1045	41.73	56.76	4.557	149.1	35.86	13.66
111	2007	312	1100	42.65	54.01	3.543	131.1	44.08	13.64
111	2007	312	1115	42.6	49.69	3.259	126.7	61.45	13.64
111	2007	312	1130	42.04	53.43	3.376	136.2	47.24	13.65
111	2007	312	1145	41.78	56.65	2.542	89.5	51.38	13.65
111	2007	312	1200	41.72	54.9	3.382	102	38.77	13.64
111	2007	312	1215	41.77	54.1	2.54	123.8	54.02	13.65
111	2007	312	1230	42.13	51.62	2.464	221.3	39.2	13.64
111	2007	312	1245	43.49	51.42	2.613	215	59.24	13.64
111	2007	312	1300	43.72	47.67	3.505	195.5	39.55	13.65
111	2007	312	1315	43.64	48.34	3.471	118.5	91	13.64
111	2007	312	1330	43.11	47.3	3.04	352.8	50.75	13.66
111	2007	312	1345	43.28	48.07	3.543	67.96	38.08	13.67
111	2007	312	1400	43.25	46.2	3.013	13.84	47.33	13.66
111	2007	312	1415	43.48	46.33	4.426	4.425	26.41	13.06
111	2007	312	1430	43.45	46.2	2.39	337.6	35.67	12.92
111	2007	312	1445	43.55	44.16	3.457	357.7	27.32	12.85
111	2007	312	1500	44.01	43.35	2.17	0.827	34.21	12.83
111	2007	312	1515	44.49	45.4	3.166	19.41	34.32	12.79
111	2007	312	1530	44.49	44.96	3.368	16.96	38.46	12.78

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	312	1545	44.19	44.56	2.866	66.81	50.34	12.76
111	2007	312	1600	45.37	42.18	2.015	47.65	63.75	12.75
111	2007	312	1615	45.47	43.25	3.026	54.23	63.81	12.73
111	2007	312	1630	44.83	44.21	2.954	36.81	38.14	12.72
111	2007	312	1645	44.46	43.92	3.018	62.84	34.98	12.71
111	2007	312	1700	43.84	46.16	2.174	141.9	65.81	12.69
111	2007	312	1715	43.34	46.7	0.973	239.1	51.96	12.69
111	2007	312	1730	42.68	50.62	0.604	323.4	39.07	12.68
111	2007	312	1745	42.06	52.17	0.581	80.2	30.07	12.67
111	2007	312	1800	41.67	53.85	1.446	69.84	17.92	12.67
111	2007	312	1815	41.08	55.66	1.029	75.8	28.14	12.66
111	2007	312	1830	40.17	58.37	1.54	67.05	18.98	12.65
111	2007	312	1845	39.09	61.96	1.352	64.37	13.22	12.64
111	2007	312	1900	38.2	65.98	0.959	46.05	18.87	12.64
111	2007	312	1915	37.06	70.1	0.67	2.505	11.71	12.63
111	2007	312	1930	36.51	72	0.16	2.118	4.288	12.62
111	2007	312	1945	36.5	74	0.047	63.44	2.068	12.62
111	2007	312	2000	36.4	73.6	0.501	2.695	10.47	12.62
111	2007	312	2015	36.07	74.3	0.444	358.2	7.83	12.61
111	2007	312	2030	35.77	76.3	na	na	na	12.6
111	2007	312	2045	36.06	76.8	0.307	66.01	14.78	12.59
111	2007	312	2100	36.31	76.8	0.058	15.33	1.616	12.58
111	2007	312	2115	36.3	76.9	0.852	50.69	10.85	12.58
111	2007	312	2130	36.61	76.1	0.775	38.64	15.12	12.58
111	2007	312	2145	35.98	76.7	0.054	26.85	1.472	12.58
111	2007	312	2200	35.63	78.3	0.477	49.05	10.9	12.57
111	2007	312	2215	35.64	78.4	na	na	na	12.56
111	2007	312	2230	35.52	79.2	0.337	64.66	8.69	12.56
111	2007	312	2245	36.42	75.2	1.282	74	16.39	12.56
111	2007	312	2300	36.45	75.8	0.22	133.1	19.17	12.56
111	2007	312	2315	37	73.2	0.898	129.3	19.27	12.55
111	2007	312	2330	37.5	72	0.468	130.7	15.38	12.55
111	2007	312	2345	37.65	70.8	0.559	117.2	17.15	12.54
111	2007	312	2400	38.02	71.1	0.556	87.6	16.05	12.53
111	2007	313	15	38.18	71.8	0.836	87.4	20.25	12.54
111	2007	313	30	38.1	72.7	0.678	80.6	15.18	12.53
111	2007	313	45	37.86	72.4	0.847	94.2	28.71	12.53
111	2007	313	100	37.89	71.6	1.078	92.8	20.65	12.52
111	2007	313	115	38.18	70.2	1.85	89.9	22.1	12.52
111	2007	313	130	38.37	68.63	0.861	90.7	21.51	12.52
111	2007	313	145	38.61	68	0.831	72.4	24.85	12.52
111	2007	313	200	38.79	66.92	1.182	92.3	19.57	12.52
111	2007	313	215	38.95	66.79	1.227	98.5	26.17	12.51
111	2007	313	230	38.99	66.88	1.033	113.3	33.4	12.51
111	2007	313	245	38.93	67.39	1.7	146.4	21.64	12.51
111	2007	313	300	38.96	67.48	1.638	139.3	29.1	12.5
111	2007	313	315	38.89	68.15	1.284	136.3	29.13	12.51
111	2007	313	330	38.94	69.32	0.622	73.8	20.92	12.51
111	2007	313	345	38.89	69.62	1.853	96.1	27.96	12.5
111	2007	313	400	38.88	70.6	0.637	147.9	37.29	12.5
111	2007	313	415	38.88	70.8	1.113	137	18.52	12.5
111	2007	313	430	39.01	71	0.98	74.7	24.41	12.5
111	2007	313	445	39.14	71.7	0.909	155.5	65.53	12.51
111	2007	313	500	39.24	70.4	1.227	141.5	26.21	12.5
111	2007	313	515	39.27	70.8	0.801	164.1	17.58	12.51
111	2007	313	530	39.32	69.86	2.258	136.6	27.83	12.5
111	2007	313	545	39.31	70.3	1.912	134.4	32.51	12.51
111	2007	313	600	39.27	71.4	1.853	123.1	31.48	12.53
111	2007	313	615	39.08	73.6	2.808	142.7	24.35	12.56
111	2007	313	630	38.81	76.9	3.382	148.4	24.71	12.57

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	313	645	39.06	76.9	3.041	137.3	26.32	12.55
111	2007	313	700	39.32	76.9	2.536	137.3	38.98	12.56
111	2007	313	715	39.66	76.9	2.653	136.8	41.78	12.6
111	2007	313	730	39.95	76.7	2.969	149.2	37.12	12.65
111	2007	313	745	40.11	76.6	3.392	146.5	34.28	12.61
111	2007	313	800	40.19	77	2.748	144.1	46.13	12.61
111	2007	313	815	40.24	77.4	3.048	136.6	47.42	12.61
111	2007	313	830	40.31	77.4	2.806	148.1	53.57	12.62
111	2007	313	845	40.48	77	2.578	133	49.59	12.65
111	2007	313	900	40.73	76.9	3.461	135.2	46.05	12.64
111	2007	313	915	40.67	78.5	3.994	140.7	35.82	12.64
111	2007	313	930	40.7	80.8	3.823	136.8	48.97	12.68
111	2007	313	945	40.56	82	4.039	134.3	41.47	12.72
111	2007	313	1000	40.82	80.9	3.212	124.3	38.05	12.79
111	2007	313	1015	41.43	78.2	4.873	144.8	34.11	12.78
111	2007	313	1030	41.73	79.8	4.947	140.6	37.33	12.81
111	2007	313	1045	41.65	80.3	4.115	145.3	43.03	12.77
111	2007	313	1100	41.79	79.2	5.628	144.6	33.94	12.79
111	2007	313	1115	42.25	78.7	5.465	146.6	32.72	12.83
111	2007	313	1130	42.44	78.5	5.133	146.9	28.8	12.83
111	2007	313	1145	43.49	77.4	5.463	156.5	34.31	12.79
111	2007	313	1200	43.83	77.6	5.314	146.1	36.17	12.79
111	2007	313	1215	44.06	75.9	5.657	155.7	35.52	12.74
111	2007	313	1230	44.68	75.5	5.701	159	26.86	12.72
111	2007	313	1245	44.94	74.8	6.277	155.1	27.39	12.67
111	2007	313	1300	44.81	75.4	6.084	162.7	27.81	12.64
111	2007	313	1315	44.66	76.3	6.321	160.8	23.93	12.61
111	2007	313	1330	44.41	79.5	5.624	165.9	22.55	12.59
111	2007	313	1345	43.89	82.4	5.28	153.2	23.71	12.58
111	2007	313	1400	43.51	84.3	4.17	146	31.96	12.57
111	2007	313	1415	43.42	85.2	4.869	156.9	22.99	12.57
111	2007	313	1430	43.4	85.3	4.563	150.6	25.07	12.56
111	2007	313	1445	43.26	86.1	4.5	208	49.96	12.56
111	2007	313	1500	42.61	87.7	3.499	168.9	55.08	12.56
111	2007	313	1515	42.87	88.4	3.954	145.8	34.26	12.55
111	2007	313	1530	42.75	89.5	4.246	144.7	26.59	12.55
111	2007	313	1545	43.04	89.6	4.857	147	26.66	12.55
111	2007	313	1600	43.01	90	4.047	143.9	27.95	12.55
111	2007	313	1615	43.29	88.9	4.144	144.8	23.47	12.54
111	2007	313	1630	43.31	88.5	3.42	151.7	33.54	12.54
111	2007	313	1645	43.36	88.8	2.662	145.9	29.12	12.54
111	2007	313	1700	43.3	88.9	3.196	147.9	24.53	12.53
111	2007	313	1715	43.09	88.9	2.205	138.6	33.52	12.54
111	2007	313	1730	42.86	88.9	1.707	156.2	28.23	12.53
111	2007	313	1745	42.78	89.3	2.71	146.7	37.42	12.52
111	2007	313	1800	42.54	89.3	3.166	147.2	25.84	12.53
111	2007	313	1815	42.24	89.3	3.536	138	31.19	12.52
111	2007	313	1830	41.85	89.4	3.797	148.2	29.97	12.53
111	2007	313	1845	41.79	89.2	3.482	149.8	28.21	12.52
111	2007	313	1900	41.8	89.7	3.92	148.5	26.82	12.52
111	2007	313	1915	41.78	90.1	3.781	150.5	27.32	12.52
111	2007	313	1930	41.65	90.5	4.458	151.6	27.04	12.52
111	2007	313	1945	41.56	90.8	4.593	150.4	28.82	12.52
111	2007	313	2000	41.5	90.9	4.845	153.5	31.19	12.52
111	2007	313	2015	41.34	90.7	5.213	153.4	23.83	12.52
111	2007	313	2030	41.15	91	3.839	150.4	26.97	12.52
111	2007	313	2045	41.08	91.1	2.555	134.7	25.74	12.51
111	2007	313	2100	41.12	91	2.28	141.7	37.55	12.51
111	2007	313	2115	41.16	91	1.735	102	29.19	12.51
111	2007	313	2130	41.14	91.2	2.058	92.2	22.43	12.5

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	313	2145	41.06	91.3	2.096	84.7	28.87	12.5
111	2007	313	2200	40.99	91.5	2.317	96.5	30.29	12.5
111	2007	313	2215	40.95	91.8	2.433	124.8	34.68	12.5
111	2007	313	2230	40.91	91.9	1.548	93	55.05	12.5
111	2007	313	2245	40.96	91.8	0.93	77.4	36.64	12.5
111	2007	313	2300	40.93	91.8	1.32	114	36.81	12.5
111	2007	313	2315	40.96	91.8	1.38	113.5	42.32	12.5
111	2007	313	2330	40.83	91.9	3.366	150.9	33.06	12.5
111	2007	313	2345	40.73	92.1	3.499	152.2	25.24	12.5
111	2007	313	2400	40.64	92.2	3.013	142.9	26.09	12.5
111	2007	314	15	40.58	92.4	3.294	143.4	30.22	12.5
111	2007	314	30	40.49	92.5	3.519	138.4	35.21	12.49
111	2007	314	45	40.54	92.7	4.254	142.2	30.24	12.49
111	2007	314	100	40.6	92.6	4.613	161.7	27.65	12.49
111	2007	314	115	40.64	92.5	3.201	154.5	30.3	12.49
111	2007	314	130	40.54	92.6	3.598	150.5	29.15	12.49
111	2007	314	145	40.45	92.6	3.299	152.5	32.55	12.49
111	2007	314	200	40.4	92.5	3.215	154.4	33.31	12.49
111	2007	314	215	40.39	92.5	3.35	155.3	28.57	12.49
111	2007	314	230	40.39	92.4	3.712	146	28.66	12.49
111	2007	314	245	40.43	91.9	3.978	150.3	29.63	12.49
111	2007	314	300	40.31	91.6	3.374	147.5	24.93	12.49
111	2007	314	315	40.27	91.6	3.022	144.4	27.51	12.49
111	2007	314	330	40.25	90.2	3.299	133.8	40.93	12.49
111	2007	314	345	40.34	85.9	4.962	148.5	33.17	12.48
111	2007	314	400	40.35	86.9	3.321	143.4	27.88	12.48
111	2007	314	415	40.31	87.3	2.461	135.2	37.97	12.48
111	2007	314	430	40.36	87.2	3.638	136.8	36.93	12.48
111	2007	314	445	40.46	87.5	3.301	136.2	32.94	12.48
111	2007	314	500	40.4	88.2	2.691	123.6	40.46	12.48
111	2007	314	515	40.26	88.3	3.285	136	48.14	12.48
111	2007	314	530	40.14	88.3	3.636	143	39.39	12.47
111	2007	314	545	40.05	88	4.901	139.1	29.06	12.48
111	2007	314	600	39.93	87.8	5.016	149.7	29.86	12.48
111	2007	314	615	39.88	87.4	4.074	135.1	35.94	12.48
111	2007	314	630	39.84	87.2	3.448	129.7	36.24	12.46
111	2007	314	645	39.88	87.4	3.299	134.6	40.74	12.47
111	2007	314	700	40.07	86.8	4.315	139.9	28.87	12.48
111	2007	314	715	40.22	85.7	5.25	145.8	31.44	12.48
111	2007	314	730	40.27	84.9	5.135	147.2	27.24	12.56
111	2007	314	745	40.3	84.3	4.675	149	32.15	12.65
111	2007	314	800	40.32	83.8	4.563	141	42.03	12.61
111	2007	314	815	40.4	82.9	4.533	138.5	26.56	12.63
111	2007	314	830	40.64	81.7	4.34	143.1	43.73	12.74
111	2007	314	845	40.88	80.7	4.494	141.7	37.77	13.01
111	2007	314	900	41.06	80.4	4.035	139.1	47.11	13.04
111	2007	314	915	41.06	81.3	3.567	129.6	43.62	13.1
111	2007	314	930	40.78	80.2	5.399	121.8	39.62	13.23
111	2007	314	945	40.72	79.7	4.581	126.7	51.19	13.23
111	2007	314	1000	40.83	78.5	5.161	130.2	41.26	13.14
111	2007	314	1015	41.21	78	4.778	139.8	48.17	13.21
111	2007	314	1030	41.5	77.3	4.202	128.9	39.92	13.26
111	2007	314	1045	41.56	75.9	5.358	134.6	42.29	13.13
111	2007	314	1100	41.44	75.8	5.137	134.8	36.73	13.17
111	2007	314	1115	41.58	73.9	6.186	145	30.36	13.33
111	2007	314	1130	41.92	73.2	5.018	133.4	37.37	13.29
111	2007	314	1145	42	71.8	5.711	134.1	44.83	13.16
111	2007	314	1200	42.07	71.9	6.404	147.4	32.69	13.18
111	2007	314	1215	41.93	70.5	6.269	127.3	41.89	13.25
111	2007	314	1230	42.05	69.17	5.916	132	46.95	13.43

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	314	1245	42.64	68.53	5.89	134.3	42.77	13.43
111	2007	314	1300	42.76	67.83	5.943	124.6	38.04	13.43
111	2007	314	1315	42.71	65.92	6.801	135.7	34.83	13.43
111	2007	314	1330	43.52	63.48	6.706	145.5	36.24	13.44
111	2007	314	1345	43.83	61.5	7.26	110.4	42.85	13.45
111	2007	314	1400	44.09	57.08	6.7	135.3	50.75	13.25
111	2007	314	1415	44.33	54.13	6.696	97.1	41.53	12.97
111	2007	314	1430	44.62	54.2	6.025	123.9	49.91	12.91
111	2007	314	1445	44.87	53.39	6.088	130	42.84	12.87
111	2007	314	1500	45.25	51.84	6.132	103.9	39.79	12.85
111	2007	314	1515	45.07	52.04	5.943	115.9	41.23	12.82
111	2007	314	1530	45.35	48.8	5.526	127.7	44.4	12.8
111	2007	314	1545	45.14	48.9	6.174	99.9	42.06	12.79
111	2007	314	1600	45.05	48.2	5.576	102.1	42.51	12.77
111	2007	314	1615	45.13	49.67	4.557	116.9	41.37	12.77
111	2007	314	1630	45.04	50.41	4.756	99.6	32.72	12.75
111	2007	314	1645	45	50.65	4.988	85.9	38	12.74
111	2007	314	1700	45	50.75	5.088	85.1	30.13	12.73
111	2007	314	1715	44.83	52.66	4.553	80	35.72	12.71
111	2007	314	1730	44.3	55.57	4.736	52.35	29.69	12.71
111	2007	314	1745	43.29	57.62	4.623	41.66	23.01	12.71
111	2007	314	1800	42.58	58.69	4.732	41.75	19.64	12.69
111	2007	314	1815	42.07	59.5	4.331	42.27	23.32	12.69
111	2007	314	1830	41.57	59.34	4.371	48.54	25.47	12.68
111	2007	314	1845	41.27	58.84	3.857	56.92	28.38	12.68
111	2007	314	1900	40.97	58.74	3.884	53.69	28.8	12.67
111	2007	314	1915	40.71	58.61	3.714	50.81	27.05	12.67
111	2007	314	1930	40.43	58.57	3.817	51.46	26.48	12.67
111	2007	314	1945	40.23	58.2	3.646	60.45	27.77	12.65
111	2007	314	2000	39.85	59.38	2.917	48.16	22.95	12.65
111	2007	314	2015	39.42	60.38	2.376	39.29	21.69	12.65
111	2007	314	2030	39.19	60.79	2.612	41.96	22.97	12.64
111	2007	314	2045	38.7	62.17	1.384	36.43	22.3	12.64
111	2007	314	2100	38.55	60.66	2.396	49	23.89	12.63
111	2007	314	2115	38.68	57.88	2.608	50.7	30.6	12.63
111	2007	314	2130	39.36	54.54	3.586	74.5	34.66	12.62
111	2007	314	2145	39.64	54.27	3.362	75.9	28.79	12.62
111	2007	314	2200	39.08	56.81	1.594	40.36	29.44	12.62
111	2007	314	2215	38.07	61.97	1.448	11.04	18.6	12.61
111	2007	314	2230	36.89	64.59	1.426	10.2	13.88	12.61
111	2007	314	2245	36.08	67.74	0.66	5.007	12.09	12.61
111	2007	314	2300	34.66	73.7	0.653	3.489	8.88	12.6
111	2007	314	2315	33.57	77.1	0.038	15.75	4.318	12.59
111	2007	314	2330	32.7	79.2	na	na	na	12.59
111	2007	314	2345	32.11	81.1	na	na	na	12.59
111	2007	314	2400	31.48	82.8	na	na	na	12.58
111	2007	315	15	31.42	84.4	0.311	18.21	13.24	12.58
111	2007	315	30	33.36	78.5	1.936	34.14	19.57	12.57
111	2007	315	45	34.64	75.5	2.021	36.07	20.11	12.58
111	2007	315	100	34.26	76.3	1.037	44.74	15.58	12.57
111	2007	315	115	33.9	76.3	1.556	42.16	21.82	12.56
111	2007	315	130	33.95	76.4	0.747	21.24	15.1	12.56
111	2007	315	145	33.31	78.2	0.443	27.55	13.38	12.56
111	2007	315	200	32.36	80.7	1.05	10.72	10.03	12.56
111	2007	315	215	31.27	83.4	1.431	3.015	20.89	12.56
111	2007	315	230	30.96	84	0.3	24.25	7.46	12.55
111	2007	315	245	30.3	85.6	na	na	na	12.55
111	2007	315	300	30.64	84.4	0.46	36.35	11.14	12.55
111	2007	315	315	30.65	83.9	0.886	8.04	11.61	12.54
111	2007	315	330	30.45	83.2	0.172	23.28	10.86	12.54

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	315	345	29.6	84.4	0.691	344.5	10.12	12.54
111	2007	315	400	29.59	83.9	0.774	24.8	13.66	12.54
111	2007	315	415	30.78	77.3	1.767	32.87	17.9	12.54
111	2007	315	430	31.64	71.4	2.435	37.22	19.99	12.55
111	2007	315	445	32.22	66.89	4.281	46.91	20.82	12.54
111	2007	315	500	32.51	67.16	3.775	47.11	18.78	12.54
111	2007	315	515	31.77	68.83	3.04	45.64	18.55	12.55
111	2007	315	530	31.22	70.3	2.633	43.49	20.05	12.55
111	2007	315	545	31.11	70.8	2.28	49.65	21.73	12.69
111	2007	315	600	30.68	73.2	1.7	26.77	20.8	12.78
111	2007	315	615	30.03	75.5	1.7	12.07	15.07	12.85
111	2007	315	630	29.7	75.4	1.865	26.73	19.76	13.12
111	2007	315	645	30.1	72	3.035	36.41	23.8	13.67
111	2007	315	700	30.6	70	3.277	44.96	23.88	13.25
111	2007	315	715	30.87	68.36	3.207	47.81	28.24	13.61
111	2007	315	730	31.01	67.23	3.787	55.14	26.73	13.6
111	2007	315	745	30.87	68.26	3.622	40.18	19.6	13.57
111	2007	315	800	30.56	68.8	3.156	43.82	25.36	13.56
111	2007	315	815	30.94	67.56	3.807	38.69	19.55	13.54
111	2007	315	830	31.31	67.19	3.749	40.83	21.97	13.35
111	2007	315	845	32.27	63.2	4.605	50.28	25.92	13.2
111	2007	315	900	33.44	59.45	5.231	60.22	33.54	13.42
111	2007	315	915	34.05	58.53	6.205	75.4	36.07	13.46
111	2007	315	930	34.58	56.28	6.493	73.7	35.66	13.5
111	2007	315	945	34.72	55.04	7.27	86.3	32.41	13.48
111	2007	315	1000	35.11	53.37	7.79	86.8	35.38	13.48
111	2007	315	1015	35	54.6	6.984	87	31.97	13.47
111	2007	315	1030	35.6	52.29	7.03	86.5	38.09	13.47
111	2007	315	1045	36.08	51.55	6.468	81.3	36.51	13.47
111	2007	315	1100	36.77	49.53	6.1	84.8	44.82	13.4
111	2007	315	1115	37.13	49.53	6.525	82.8	37.99	13.05
111	2007	315	1130	37.71	47.96	6.209	69.93	34.65	13.01
111	2007	315	1145	38.17	45.45	5.862	66.55	36.28	12.97
111	2007	315	1200	38.5	43.9	6.519	61.23	31.04	12.89
111	2007	315	1215	38.94	42.43	6.329	50.38	30.96	12.87
111	2007	315	1230	39.91	41.59	5.653	95.1	37.81	12.84
111	2007	315	1245	40.45	40.45	6.442	89.3	26	12.83
111	2007	315	1300	40.83	39.24	4.968	78.7	37.76	12.82
111	2007	315	1315	41.24	39.74	4.823	78.2	39.39	12.81
111	2007	315	1330	41.81	39.37	5.719	43.89	31.94	12.8
111	2007	315	1345	42.29	39.14	5.109	60.55	42.92	12.79
111	2007	315	1400	42.59	38.57	6.251	41.83	28.7	12.78
111	2007	315	1415	42.8	37.7	5.937	37.68	31.12	12.78
111	2007	315	1430	43.55	37.7	5.894	45.35	32.14	12.78
111	2007	315	1445	42.98	36.49	8.12	36.39	21.79	12.76
111	2007	315	1500	43.38	37.7	7.93	32.59	21.24	12.76
111	2007	315	1515	43.99	35.25	6.682	39.49	29.69	12.75
111	2007	315	1530	44.11	34.78	7.57	54.56	25.98	12.75
111	2007	315	1545	44.44	34.28	5.969	62.1	39.15	12.74
111	2007	315	1600	44.56	35.19	6.336	44.84	33.11	12.73
111	2007	315	1615	44.54	34.62	5.947	42.17	25.46	12.74
111	2007	315	1630	44.61	35.52	6.587	49.59	27.23	12.73
111	2007	315	1645	44.75	34.45	5.739	68.69	37.96	12.72
111	2007	315	1700	44.32	34.28	7.17	55.6	27.03	12.72
111	2007	315	1715	43.86	35.79	5.872	65.38	28.88	12.72
111	2007	315	1730	43.34	37.16	4.5	76.8	36.85	12.71
111	2007	315	1745	42.27	39.91	3.674	55.27	26.06	12.7
111	2007	315	1800	41.5	41.86	3.113	58.33	37.29	12.7
111	2007	315	1815	40.96	44.54	2.311	56.68	23.18	12.69
111	2007	315	1830	40.04	46.99	1.987	19.93	16.96	12.69

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	315	1845	39.11	49.97	2.655	15.17	16.53	12.68
111	2007	315	1900	38.56	50.57	1.893	27.27	21.16	12.68
111	2007	315	1915	38.22	51.65	1.443	36.58	21.95	12.68
111	2007	315	1930	37.95	53.63	1.388	38.81	35.17	12.67
111	2007	315	1945	36.87	60.13	1.031	2.85	11.39	12.66
111	2007	315	2000	35.36	63.48	1.092	1.779	12.52	12.66
111	2007	315	2015	34.44	65.13	1.185	348.4	5.855	12.66
111	2007	315	2030	34.23	62.68	2.751	7.78	14.37	12.65
111	2007	315	2045	35.37	61.51	1.827	17.01	20.12	12.64
111	2007	315	2100	35.39	59.97	1.804	16.82	16.91	12.64
111	2007	315	2115	35.42	64.06	0.802	3.032	11.69	12.64
111	2007	315	2130	33.73	68.31	0.136	344	1.298	12.63
111	2007	315	2145	32.64	70.4	0.105	86.7	7.78	12.63
111	2007	315	2200	32.31	73.1	0.278	58.31	1.986	12.62
111	2007	315	2215	31.63	74.7	0.165	45.88	3.179	12.62
111	2007	315	2230	30.8	77.1	0.107	347.8	1.423	12.62
111	2007	315	2245	30.35	79.6	0.212	6.085	5.848	12.62
111	2007	315	2300	30.48	79.6	0.261	53.45	3.703	12.62
111	2007	315	2315	30.08	80	na	na	na	12.61
111	2007	315	2330	29.47	81.6	na	na	na	12.61
111	2007	315	2345	29.13	83	na	na	na	12.61
111	2007	315	2400	28.81	83.9	na	na	na	12.61
111	2007	316	15	28.69	85.1	na	na	na	12.61
111	2007	316	30	29.1	84.8	na	na	na	12.6
111	2007	316	45	28.96	85.1	na	na	na	12.61
111	2007	316	100	28.53	85.9	na	na	na	12.6
111	2007	316	115	28.48	86.1	na	na	na	12.61
111	2007	316	130	28.69	86.4	na	na	na	12.6
111	2007	316	145	28.84	86.3	na	na	na	12.6
111	2007	316	200	28.62	86.5	na	na	na	12.6
111	2007	316	215	28.27	87.2	na	na	na	12.6
111	2007	316	230	27.92	87.9	na	na	na	12.59
111	2007	316	245	27.61	88.6	na	na	na	12.59
111	2007	316	300	27.72	89.2	na	na	na	12.59
111	2007	316	315	28.26	89.5	0.714	353.7	8.82	12.59
111	2007	316	330	28.73	89.1	0.427	348.8	10.96	12.59
111	2007	316	345	28.88	89.1	0.018	359.1	0.847	12.59
111	2007	316	400	28.87	89.2	0.126	99.7	17.75	12.59
111	2007	316	415	29.11	88.7	0.051	99.5	12.34	12.59
111	2007	316	430	28.68	89.2	0.027	5.534	0.433	12.58
111	2007	316	445	28.46	89.5	0.009	37.06	0	12.58
111	2007	316	500	28.75	89.1	0.195	15.7	9.18	12.58
111	2007	316	515	28.87	89.4	0.047	150.3	1.772	12.58
111	2007	316	530	29.26	89.3	0.009	19.88	0.007	12.57
111	2007	316	545	29.56	89.4	0.009	79.7	0	12.58
111	2007	316	600	30.09	89.1	0	0	0	12.58
111	2007	316	615	30.67	88.8	0.138	150.4	5.879	12.57
111	2007	316	630	31.55	87.7	0.193	103.1	12.25	12.57
111	2007	316	645	32.28	86.7	0.018	117.1	0.619	12.58
111	2007	316	700	32.82	85.5	0.067	81.1	2.996	12.59
111	2007	316	715	33.45	83.4	0.136	127.6	20.41	12.65
111	2007	316	730	34.14	79.7	0.458	142.7	31.95	12.67
111	2007	316	745	35.02	72.6	1.298	157.6	17.82	12.67
111	2007	316	800	35.77	67.61	1.327	148.9	24.65	12.81
111	2007	316	815	36.44	63.69	2.309	142.2	20.71	12.83
111	2007	316	830	36.87	62.68	2.36	172.3	22.43	12.77
111	2007	316	845	37.57	59.83	2.414	143.9	32.83	12.67
111	2007	316	900	38.14	57.79	2.711	146.5	31.57	12.63
111	2007	316	915	38.9	56.28	2.637	138.7	29.71	12.6
111	2007	316	930	39.78	56.98	2.202	152.8	34.15	12.59

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	316	945	40.48	57.14	2.166	136.6	37.44	12.58
111	2007	316	1000	40.84	56.67	2.848	144.7	25.72	12.57
111	2007	316	1015	41.31	56.77	2.383	147.8	25.01	12.55
111	2007	316	1030	41.8	56.36	2.655	148.6	26.28	12.55
111	2007	316	1045	42.3	56.33	2.725	150.5	28.12	12.56
111	2007	316	1100	42.7	55.63	1.798	141.5	40.51	12.54
111	2007	316	1115	43.17	56.09	0.957	133.8	43.74	12.53
111	2007	316	1130	43.67	56.73	1.124	182.3	34.46	12.52
111	2007	316	1145	44.05	56.76	1.892	180.9	32.46	12.52
111	2007	316	1200	44.5	56.69	0.632	195.7	45.77	12.51
111	2007	316	1215	44.87	56.95	1.436	175.7	33.05	12.52
111	2007	316	1230	45.1	56.85	0.412	286.3	36.7	12.5
111	2007	316	1245	45.21	57.32	1.003	249.2	23.78	12.51
111	2007	316	1300	45.54	56.65	0.85	260.7	38.09	12.5
111	2007	316	1315	45.89	53.9	1.092	244.6	61.17	12.49
111	2007	316	1330	46.01	53.3	2.375	335.9	39.54	12.48
111	2007	316	1345	46.17	54.13	1.32	315.1	26.25	12.48
111	2007	316	1400	46.26	57.75	1.921	255.7	25.26	12.47
111	2007	316	1415	45.92	59.83	2.222	233.6	21.87	12.47
111	2007	316	1430	46.1	59.06	1.663	264.3	32.54	12.47
111	2007	316	1445	46.43	57.45	1.93	250.2	41.74	12.47
111	2007	316	1500	46.04	55.51	2.919	231.2	17.67	12.47
111	2007	316	1515	46	56.08	2.21	245.9	36.16	12.46
111	2007	316	1530	46.03	58.05	2.187	237.5	21.14	12.46
111	2007	316	1545	46.27	58.99	2.027	228.6	30.99	12.45
111	2007	316	1600	46.48	60.19	1.479	233.6	27.97	12.45
111	2007	316	1615	46.58	61.5	1.873	226.1	31.14	12.45
111	2007	316	1630	46.81	62.3	2.006	203.5	29.31	12.44
111	2007	316	1645	46.93	64.28	1.808	248.2	26.02	12.45
111	2007	316	1700	46.77	67.33	1.126	261.6	28.93	12.45
111	2007	316	1715	46.71	68.9	0.405	279.6	19.63	12.45
111	2007	316	1730	46.84	70.1	0.697	324.6	22.87	12.45
111	2007	316	1745	47.43	71.2	1.826	345.2	23.92	12.45
111	2007	316	1800	47.92	72.1	1.316	335.2	26.11	12.44
111	2007	316	1815	48.06	73.3	1.392	311	22.7	12.44
111	2007	316	1830	48.19	74.6	1.622	326.1	26.62	12.44
111	2007	316	1845	48.34	75.7	2.679	305.2	33.48	12.44
111	2007	316	1900	48.6	76.5	2.462	329.3	24.52	12.44
111	2007	316	1915	48.87	77.1	2.757	320.6	37.07	12.44
111	2007	316	1930	49.28	75.5	3.938	323.2	30.31	12.43
111	2007	316	1945	49.36	75.4	3.377	322.9	27.29	12.44
111	2007	316	2000	49.35	76.1	3.511	335.2	23.39	12.43
111	2007	316	2015	49.55	75.8	4.329	323.8	25.66	12.43
111	2007	316	2030	49.49	76.2	3.94	310.1	42.2	12.43
111	2007	316	2045	49.37	75.3	4.984	328.7	26.47	12.43
111	2007	316	2100	49.43	75.3	4.142	326.2	32.74	12.43
111	2007	316	2115	49.63	77	4.597	325.2	24.22	12.43
111	2007	316	2130	50.08	78.5	4.538	325.6	24.65	12.43
111	2007	316	2145	50.47	79	5.288	323.1	29.72	12.43
111	2007	316	2200	50.78	79	5.598	336.1	24.73	12.42
111	2007	316	2215	50.85	79.1	5.235	341	26.46	12.43
111	2007	316	2230	50.65	78.7	4.816	339.2	23.14	12.42
111	2007	316	2245	50.64	77.6	5.221	331.4	26.47	12.42
111	2007	316	2300	50.32	81.7	5.808	338.8	27.64	12.42
111	2007	316	2315	49.33	82.6	4.99	329.4	26.81	12.42
111	2007	316	2330	49.06	81.9	4.941	338	24.11	12.42
111	2007	316	2345	49.05	81.2	4.931	349.5	20.3	12.42
111	2007	316	2400	49.04	81.1	4.895	333.5	40.81	12.41
111	2007	317	15	48.54	85.1	5.145	335.4	23.46	12.42
111	2007	317	30	47.71	88.3	6.053	337.9	18.81	12.42

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	317	45	47.43	89.5	5.137	342.1	19.14	12.42
111	2007	317	100	47.38	90.2	4.941	335	24.09	12.41
111	2007	317	115	47.3	90.4	4.732	339.9	21.16	12.41
111	2007	317	130	47.45	89.3	5.024	335.9	26.09	12.41
111	2007	317	145	47.69	89.2	5.294	332.5	23.81	12.41
111	2007	317	200	47.97	89.5	5.62	340.3	26.92	12.41
111	2007	317	215	48.4	89	5.848	329.3	25.49	12.41
111	2007	317	230	48.61	88.7	5.602	341.2	18.44	12.41
111	2007	317	245	48.59	88.9	5.15	340.8	22.49	12.4
111	2007	317	300	48.69	89	4.81	342.9	21.58	12.4
111	2007	317	315	48.82	89.5	4.029	331.7	28.09	12.39
111	2007	317	330	49.08	89.5	4.522	337.4	22.11	12.4
111	2007	317	345	49.3	89.2	4.416	332.7	21.15	12.4
111	2007	317	400	49.37	89.1	4.073	326.2	21.14	12.39
111	2007	317	415	49.45	89.5	4.125	333.2	21.59	12.39
111	2007	317	430	49.58	89.4	4.778	344.5	22.63	12.39
111	2007	317	445	49.8	88.6	5.816	342.3	24.24	12.39
111	2007	317	500	49.94	88	5.904	346.8	19.3	12.44
111	2007	317	515	49.74	89	5.429	348.9	19.64	12.48
111	2007	317	530	49.33	90.7	5.07	342.9	17.17	12.96
111	2007	317	545	48.95	91.8	3.974	333	24.86	13.31
111	2007	317	600	48.77	92.5	4.726	346.3	16.37	13.55
111	2007	317	615	48.7	92.7	5.802	354.2	19.22	13.62
111	2007	317	630	48.63	92.7	5.203	346.8	20.19	13.63
111	2007	317	645	48.7	92.2	5.294	352.5	18.56	13.23
111	2007	317	700	48.85	91.7	4.804	0.584	21.13	13.05
111	2007	317	715	48.73	91.6	4.442	357	17.38	13.63
111	2007	317	730	48.63	91.8	4.444	358	21.35	13.22
111	2007	317	745	48.5	91.6	4.837	1.305	20.01	13.3
111	2007	317	800	48.36	91.5	5.032	4.028	18.27	13.61
111	2007	317	815	48.3	91.6	3.44	12.48	20.62	13.61
111	2007	317	830	48.25	91.7	2.24	16.19	23.17	13.59
111	2007	317	845	48.28	91.7	2.804	2.396	20.5	13.31
111	2007	317	900	48.33	91.8	2.203	355.6	19.95	13.39
111	2007	317	915	48.43	91.9	3.479	360	18.51	13.15
111	2007	317	930	48.46	92.1	3.448	18.86	24.62	13.2
111	2007	317	945	48.47	92.1	1.977	5.912	37.32	13.33
111	2007	317	1000	48.64	92.3	0.784	34	31.81	13.6
111	2007	317	1015	48.87	92.4	1.729	27.84	35.13	13.27
111	2007	317	1030	49.13	92.3	1.539	0.141	30.73	13.62
111	2007	317	1045	49.55	92.7	1.865	337.5	20.64	13.6
111	2007	317	1100	50.04	91.9	3.148	336.8	19.99	13.59
111	2007	317	1115	50.16	92.1	3.827	7.71	17.04	13.59
111	2007	317	1130	50.48	92.1	2.901	9.68	26.04	13.39
111	2007	317	1145	51.1	91.6	3.414	351.5	18.61	13.61
111	2007	317	1200	51.83	90.9	3.708	8.27	20.83	13.21
111	2007	317	1215	52.37	89.8	3.581	5.16	17.43	13.23
111	2007	317	1230	52.99	87.8	3.583	12.22	21.86	13.18
111	2007	317	1245	53.56	86.7	3.676	4.761	15.81	13.14
111	2007	317	1300	54.28	84.9	2.992	9.83	25.92	13.65
111	2007	317	1315	55.11	82.4	3.279	35.85	27.12	13.21
111	2007	317	1330	55.72	78.5	3.555	36.62	31.34	13.18
111	2007	317	1345	56.81	74.8	4.704	55.91	25.55	13.06
111	2007	317	1400	56.47	75.1	5.632	52.86	27.45	13.02
111	2007	317	1415	56.48	73.5	5.01	51.96	26.43	12.92
111	2007	317	1430	57.22	72.3	5.717	79.3	32.46	12.86
111	2007	317	1445	56.67	72.8	5.314	70.3	33.4	12.83
111	2007	317	1500	56.85	72.6	5.032	77.3	26.42	12.81
111	2007	317	1515	56.52	71.7	4.295	73.5	30.63	12.79
111	2007	317	1530	57.22	69.99	4.935	82.8	28.47	12.77

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	317	1545	57.81	69.89	4.611	95.4	37.53	12.76
111	2007	317	1600	57.62	69.35	3.763	105.7	41.81	12.75
111	2007	317	1615	58.01	67.75	3.035	53.83	35.3	12.74
111	2007	317	1630	58.16	65.47	2.599	71.7	47.7	12.73
111	2007	317	1645	57.74	64	3.994	41.66	21.74	12.73
111	2007	317	1700	57.41	64.44	2.239	56.89	30.24	12.72
111	2007	317	1715	57.08	67.15	1.619	40.78	30.03	12.71
111	2007	317	1730	55.74	70	1.332	41.53	17.78	12.71
111	2007	317	1745	54.17	74.7	0.416	52.89	7.94	12.69
111	2007	317	1800	51.59	80.6	0.356	28.01	8.82	12.69
111	2007	317	1815	49.65	84.6	1.174	40.69	15.68	12.68
111	2007	317	1830	48.85	85.8	1.28	33.93	24.46	12.68
111	2007	317	1845	47.64	87.7	0.575	20.24	17.96	12.67
111	2007	317	1900	46.73	89	1.008	344	12.07	12.67
111	2007	317	1915	45.99	89.8	0.119	37.9	4.121	12.66
111	2007	317	1930	45.28	90.4	0.8	355.9	14.13	12.66
111	2007	317	1945	44.61	90.9	0.304	357.9	8.66	12.65
111	2007	317	2000	44.11	91.3	0.031	347.7	0.684	12.65
111	2007	317	2015	43.76	91.9	0.347	52.16	4.113	12.65
111	2007	317	2030	43.45	91.8	0.279	38.59	8.4	12.65
111	2007	317	2045	42.84	92.3	0.149	16.23	2.522	12.64
111	2007	317	2100	42.53	92.3	na	na	na	12.64
111	2007	317	2115	42.18	92.6	0.717	27.09	12.13	12.64
111	2007	317	2130	41.87	92.7	0.139	348.1	3.477	12.63
111	2007	317	2145	41.47	93	0.374	357.6	8.72	12.63
111	2007	317	2200	41.26	93.2	0.376	2.539	21.27	12.62
111	2007	317	2215	41.27	93.2	1.132	42.13	14.39	12.62
111	2007	317	2230	41.01	93.2	na	na	na	12.61
111	2007	317	2245	40.76	93.6	0.572	68.3	6.865	12.61
111	2007	317	2300	40.6	93.1	0.313	19.16	22.65	12.61
111	2007	317	2315	40.18	93.5	0.38	69.12	43.27	12.61
111	2007	317	2330	39.92	93.4	0.36	24.84	16.83	12.61
111	2007	317	2345	39.53	93.5	0.652	21.04	28.18	12.61
111	2007	317	2400	39.18	93.4	0.219	41.26	9.16	12.6
111	2007	318	15	38.77	93.7	0.36	27.43	8.73	12.6
111	2007	318	30	38.53	93.7	0.067	65.82	9.18	12.59
111	2007	318	45	38.12	93.9	0.009	355.6	0	12.59
111	2007	318	100	37.8	94	0.357	47.83	5.629	12.59
111	2007	318	115	37.61	93.8	0.299	25.22	11.95	12.57
111	2007	318	130	37.08	93.9	na	na	na	12.57
111	2007	318	145	36.7	94	na	na	na	12.57
111	2007	318	200	36.85	94	0.087	41.7	7.96	12.56
111	2007	318	215	36.69	93.9	0.15	0.955	6.651	12.56
111	2007	318	230	36.04	94.1	0.054	300.3	0.779	12.55
111	2007	318	245	36.01	94.1	0.693	42.3	12.09	12.55
111	2007	318	300	35.76	94.1	na	na	na	12.55
111	2007	318	315	35.43	94.2	na	na	na	12.55
111	2007	318	330	35.2	94	0.054	32.61	1.66	12.55
111	2007	318	345	34.87	94.3	0.683	2.072	15.34	12.55
111	2007	318	400	34.61	94.1	0.12	14.74	3.469	12.55
111	2007	318	415	34.29	94.3	na	na	na	12.55
111	2007	318	430	34.4	94.3	0.121	103.5	5.575	12.56
111	2007	318	445	34.22	94.3	0.53	5.324	5.337	12.55
111	2007	318	500	34.24	94.3	0.915	72.8	60.36	12.57
111	2007	318	515	34.28	94.2	0.169	177.7	3.482	12.64
111	2007	318	530	34.23	94.4	0.473	51.76	19.81	12.94
111	2007	318	545	34.13	94.4	0.375	46.86	19	13.51
111	2007	318	600	34.05	94.4	0.036	89.2	1.571	13.82
111	2007	318	615	34.04	94.4	0.234	87.7	13.52	13.8
111	2007	318	630	33.87	94.5	0.036	14.9	0.746	13.79

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	318	645	34.23	94.7	0.333	84.7	9.96	13.34
111	2007	318	700	34.78	94.6	0.184	65.79	10.9	13.16
111	2007	318	715	35.06	94.6	0.214	61.23	11.62	13.75
111	2007	318	730	35.52	94.9	0.869	23.99	17.49	13.74
111	2007	318	745	36.18	94.9	0.586	78.6	21.79	13.73
111	2007	318	800	36.91	95	0.837	84.9	17.86	13.72
111	2007	318	815	37.76	95.1	0.647	103.1	35.58	13.71
111	2007	318	830	38.4	95.2	0.464	63.11	44.92	13.71
111	2007	318	845	38.88	95.2	0.768	156.9	27.77	13.71
111	2007	318	900	39.66	95.3	0.141	309.1	36.15	13.71
111	2007	318	915	40.65	95.5	0.855	112.6	46.53	13.7
111	2007	318	930	42.03	95.6	1.013	142.1	44.44	13.69
111	2007	318	945	43.57	95.9	1.004	156.3	34.29	13.69
111	2007	318	1000	45.59	96	0.527	125.9	50.13	13.69
111	2007	318	1015	48	95.9	2.122	258.3	29.96	13.69
111	2007	318	1030	50.16	94.9	2.544	265.6	38.79	13.68
111	2007	318	1045	51.72	93.2	2.921	291.9	39.69	13.68
111	2007	318	1100	53.74	86	3.531	273.2	35.81	13.68
111	2007	318	1115	55.36	77.9	3.531	295.1	38.41	13.67
111	2007	318	1130	55.81	75.7	4.655	297.1	33.92	13.66
111	2007	318	1145	55.27	76.9	4.692	294.5	32.86	13.65
111	2007	318	1200	55.03	77.6	4.061	303.8	40.18	13.66
111	2007	318	1215	55.44	77.9	4.412	290.1	41.78	13.66
111	2007	318	1230	55.42	80	4.309	297.1	32.59	13.67
111	2007	318	1245	55.92	80.5	4.591	280	34.94	13.67
111	2007	318	1300	56.51	78.2	5.187	293.8	37.99	13.38
111	2007	318	1315	57.31	75	5.411	288.9	39.16	13.15
111	2007	318	1330	56.76	77.9	5.018	306.9	34.52	12.93
111	2007	318	1345	56.19	79.4	4.774	297.4	39.98	12.87
111	2007	318	1400	56.26	79.9	4.871	263	34.42	12.83
111	2007	318	1415	56.12	80.9	4.065	267.3	38.43	12.81
111	2007	318	1430	55.73	79.2	5.012	267.4	36.5	12.79
111	2007	318	1445	55.27	81.4	5.147	257.9	26.25	12.78
111	2007	318	1500	55.01	83.2	4.49	271	35.82	12.77
111	2007	318	1515	54.89	84.5	4.788	274.3	26.47	12.76
111	2007	318	1530	54.72	85.4	4.202	274.8	32.06	12.75
111	2007	318	1545	54.7	86.5	4.303	265.3	33.41	12.74
111	2007	318	1600	54.54	87.3	3.954	268.2	37.82	12.73
111	2007	318	1615	54.58	88	4.194	259.2	36.04	12.73
111	2007	318	1630	54.75	88.2	3.918	274.2	32.84	12.71
111	2007	318	1645	54.68	88.7	2.365	290.4	43.25	12.72
111	2007	318	1700	54.68	89	2.658	260.1	35.47	12.71
111	2007	318	1715	54.52	89.5	2.259	277.5	31.69	12.71
111	2007	318	1730	54.49	89.9	1.487	302.1	30.4	12.71
111	2007	318	1745	54.63	90.4	2.167	312.4	24.5	12.69
111	2007	318	1800	54.66	90.7	2.232	313.4	30.24	12.69
111	2007	318	1815	54.68	90.9	2.618	310.8	32.71	12.68
111	2007	318	1830	54.73	91.2	3.017	300.3	31.8	12.68
111	2007	318	1845	54.64	91.3	2.372	264.8	33.89	12.67
111	2007	318	1900	54.32	92.2	3.745	244.5	33.81	12.67
111	2007	318	1915	54.44	92.3	3.112	308.5	38.36	12.66
111	2007	318	1930	54.31	92.4	2.407	253.3	29.41	12.65
111	2007	318	1945	54.32	92.8	2.323	276.9	38.07	12.65
111	2007	318	2000	54.6	92.9	3.04	263.3	31.93	12.64
111	2007	318	2015	54.85	92.9	3.097	261.8	34.27	12.63
111	2007	318	2030	54.83	92.9	2.585	273.8	40.1	12.63
111	2007	318	2045	54.67	93.2	1.983	269.5	46.81	12.63
111	2007	318	2100	54.67	93.3	2.143	276.6	34.08	12.63
111	2007	318	2115	54.93	93.5	2.299	272.7	38.06	12.63
111	2007	318	2130	55.2	93.5	2.659	260.5	26.63	12.62

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	318	2145	55.26	93.6	2.436	252.3	26.99	12.62
111	2007	318	2200	55.31	93.8	2.971	258.4	31.11	12.61
111	2007	318	2215	55.25	93.7	2.314	242.6	31.48	12.61
111	2007	318	2230	54.98	93.7	2.059	230.5	25.68	12.61
111	2007	318	2245	54.5	94.1	2.05	230.7	17.59	12.61
111	2007	318	2300	54.06	94.3	1.542	226.3	19.24	12.61
111	2007	318	2315	53.8	94.4	1.554	219.1	19.59	12.6
111	2007	318	2330	53.6	94.4	0.899	207.5	16.84	12.6
111	2007	318	2345	53.59	94.6	1.132	226	17.23	12.59
111	2007	318	2400	53.6	94.6	1.209	226.2	17.1	12.59
111	2007	319	15	53.63	94.8	1.145	248.3	28.12	12.59
111	2007	319	30	53.9	94.8	1.499	252.7	25.09	12.58
111	2007	319	45	54.25	94.7	1.649	231.6	20.83	12.58
111	2007	319	100	54.62	94.4	2.979	236.6	24.94	12.57
111	2007	319	115	54.98	93.6	3	255.4	35.69	12.57
111	2007	319	130	55.23	93	3.982	263.7	35.05	12.57
111	2007	319	145	55.61	92.2	4.095	271.5	42.59	12.57
111	2007	319	200	55.63	91.7	3.164	272.4	39.76	12.57
111	2007	319	215	56.1	90.6	4.289	276.3	42.85	12.56
111	2007	319	230	56.52	89.2	3.884	287.6	39.39	12.56
111	2007	319	245	56.39	89.1	3.193	298.6	32.38	12.56
111	2007	319	300	56.38	88.9	2.729	300.5	37.84	12.55
111	2007	319	315	56.6	88.3	3.444	313.1	37.51	12.56
111	2007	319	330	56.89	88	3.561	309.5	34.72	12.55
111	2007	319	345	57.11	87.4	3.791	312.4	29.76	12.55
111	2007	319	400	57.21	87.4	3.934	290.3	36.55	12.55
111	2007	319	415	57.52	86.5	5.153	301.6	37.45	12.55
111	2007	319	430	58.01	85.6	5.308	312.1	42.41	12.55
111	2007	319	445	58.18	85.5	6.158	299.5	40.56	12.55
111	2007	319	500	58.16	85.9	5.794	299.1	38.39	12.55
111	2007	319	515	57.92	86	5.076	292.9	38.03	12.55
111	2007	319	530	58.04	85.9	6.005	292.9	42.52	12.54
111	2007	319	545	58.1	86	5.822	291.8	38.02	12.54
111	2007	319	600	58.22	85.5	6.299	299.9	31.55	12.54
111	2007	319	615	58.42	85.2	6.46	310.4	33.12	12.55
111	2007	319	630	58.36	85.7	6.755	301.1	33.16	12.57
111	2007	319	645	58.2	85.7	5.57	296.3	40.15	12.7
111	2007	319	700	58.22	85.2	5.715	285.8	46.86	12.94
111	2007	319	715	58.5	84.7	6.501	286.8	35.19	13.13
111	2007	319	730	58.54	84.7	5.491	280.4	40.82	13.72
111	2007	319	745	58.58	84.6	6.636	291.1	38.37	13.37
111	2007	319	800	58.59	84.6	6.106	295.8	31.13	13.25
111	2007	319	815	58.88	84	6.749	289.8	42.44	13.21
111	2007	319	830	58.91	84.4	6.898	298.2	39.09	13.28
111	2007	319	845	58.99	84.5	7.11	300	32.59	13.23
111	2007	319	900	59.04	84.6	7.07	313.1	29.6	13.28
111	2007	319	915	58.85	85.3	7.08	306	38.71	13.7
111	2007	319	930	58.68	85.9	6.998	309.5	36.24	13.37
111	2007	319	945	58.83	85.7	6.984	319.1	35.36	13.29
111	2007	319	1000	58.91	85.6	7.58	305.6	36.91	13.7
111	2007	319	1015	58.96	85.8	7.14	309.2	34.12	13.63
111	2007	319	1030	58.86	85.9	6.585	300.6	34.03	13.39
111	2007	319	1045	58.82	86.1	6.612	298	45.87	13.34
111	2007	319	1100	58.84	86.1	7.14	306.4	34.66	13.31
111	2007	319	1115	59.31	85	7.64	309.3	38.21	13.25
111	2007	319	1130	59.24	85.4	7.85	314.7	30.55	13.33
111	2007	319	1145	59.06	85.7	8.33	311.6	30.94	13.7
111	2007	319	1200	58.63	86.6	7.8	324.5	28.48	13.7
111	2007	319	1215	58.26	87.9	7.56	340.4	28.33	13.7
111	2007	319	1230	58	86	6.366	349.9	27.63	13.33

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	319	1245	55.61	82.8	5.677	46.36	18.09	13.27
111	2007	319	1300	54.38	81.6	4.416	60.9	22.84	13.43
111	2007	319	1315	53.48	83.3	3.69	50.24	30.44	13.31
111	2007	319	1330	52.41	84.5	5.101	44.55	24.19	12.98
111	2007	319	1345	51.59	87	5.364	37.13	19.75	12.88
111	2007	319	1400	51.05	88	5.608	49.73	22.06	12.84
111	2007	319	1415	50.54	88.1	6.464	56.26	27.09	12.81
111	2007	319	1430	49.17	88.6	7.51	44.78	23.35	12.79
111	2007	319	1445	48.04	90	7.67	36.08	20.77	12.77
111	2007	319	1500	46.87	90.6	8.14	32.88	22.74	12.77
111	2007	319	1515	46.52	90.6	8.82	39.03	25.41	12.75
111	2007	319	1530	46.24	87.9	8.89	49.41	19.93	12.74
111	2007	319	1545	45.73	88.5	7.51	47.15	20.71	12.73
111	2007	319	1600	45.47	89.4	7.02	46.37	21.51	12.72
111	2007	319	1615	45	90.1	7.88	39.01	20.53	12.71
111	2007	319	1630	44.56	89.7	7.71	47.98	18.53	12.71
111	2007	319	1645	44.35	88.1	8.65	39.41	20.84	12.7
111	2007	319	1700	44.18	86.4	8.91	39.17	21.16	12.69
111	2007	319	1715	44.03	85.4	6.509	48.97	23.94	12.69
111	2007	319	1730	43.93	85.2	4.877	55.77	28.7	12.68
111	2007	319	1745	43.8	84.7	5.673	46.24	22.01	12.68
111	2007	319	1800	43.79	85	4.429	46.71	25.35	12.67
111	2007	319	1815	43.77	85.4	4.331	37.33	20.87	12.67
111	2007	319	1830	43.69	86.4	5.401	23.72	17.96	12.67
111	2007	319	1845	43.68	87.1	5.854	23.18	18.47	12.66
111	2007	319	1900	43.53	85.6	6.241	28.16	19.82	12.65
111	2007	319	1915	43.36	85.9	4.394	31	19.86	12.65
111	2007	319	1930	43.2	84.8	6.215	23.52	20.21	12.65
111	2007	319	1945	43.04	83.5	5.854	33.17	24.28	12.64
111	2007	319	2000	43	81.8	6.201	37.91	22.84	12.64
111	2007	319	2015	43.08	82.2	5.647	35.59	21.31	12.63
111	2007	319	2030	43.06	81.2	5.949	26.84	22.29	12.63
111	2007	319	2045	43.25	80.3	6.368	18.3	16.51	12.63
111	2007	319	2100	43.36	79.2	6.259	30.67	18.87	12.61
111	2007	319	2115	43.33	78.4	6.12	33.37	20.89	12.61
111	2007	319	2130	43.34	77.1	6.172	30.17	23.82	12.61
111	2007	319	2145	43.4	75	7.06	29.45	20.81	12.61
111	2007	319	2200	43.28	75.6	5.624	31.94	19.47	12.6
111	2007	319	2215	43.13	75.4	5.957	26.97	25.53	12.59
111	2007	319	2230	43.12	74.8	6.523	27.42	20.38	12.57
111	2007	319	2245	43.07	75.4	5.395	29.07	25.4	12.58
111	2007	319	2300	42.93	75.3	5.068	31.15	23.15	12.57
111	2007	319	2315	42.82	75	6.511	31.41	19.29	12.57
111	2007	319	2330	42.74	74.8	6.19	26.31	28.78	12.56
111	2007	319	2345	42.73	74.5	6.724	26.72	20.14	12.56
111	2007	319	2400	42.72	74.2	5.953	28.97	22.41	12.56
111	2007	320	15	42.78	73.8	6.734	20.9	20.65	12.55
111	2007	320	30	42.77	72.9	6.892	27.39	19.59	12.55
111	2007	320	45	42.88	72.6	5.929	20.6	19.88	12.55
111	2007	320	100	42.96	72.7	6.005	27.81	20.45	12.55
111	2007	320	115	42.87	73.3	6.094	29.44	20.23	12.54
111	2007	320	130	42.71	73.6	6.696	36.93	22.13	12.54
111	2007	320	145	42.66	73.6	6.217	25.35	20	12.54
111	2007	320	200	42.7	72.8	6.529	26.13	19.45	12.53
111	2007	320	215	42.86	72.1	7.46	24.43	20.32	12.53
111	2007	320	230	42.86	72.4	6.275	33.84	20.02	12.53
111	2007	320	245	42.84	72.5	5.505	33.25	20.21	12.53
111	2007	320	300	42.96	72.2	6.414	28.84	22.48	12.53
111	2007	320	315	43.16	71.3	6.795	21.82	18.96	12.53
111	2007	320	330	43.35	71.6	7.07	20.11	19.26	12.53

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	320	345	43.34	70.8	6.71	27.46	18.59	12.52
111	2007	320	400	43.53	71	7.2	26.26	20.57	12.52
111	2007	320	415	43.47	72.2	6.706	31.09	19.57	12.52
111	2007	320	430	43.44	70.6	7.03	33.05	19.79	12.51
111	2007	320	445	43.59	69.31	7.73	32.62	19.69	12.52
111	2007	320	500	43.34	69.72	6.676	31.33	16.3	12.51
111	2007	320	515	43.02	69.52	5.89	26.52	19.12	12.52
111	2007	320	530	42.66	69.02	5.302	26.29	20.51	12.51
111	2007	320	545	42.31	68.88	5.606	20.98	19.56	12.51
111	2007	320	600	42.06	68.32	5.957	27.92	19.27	12.51
111	2007	320	615	41.98	67.75	6.277	23.96	19.4	12.53
111	2007	320	630	41.89	67.82	6.656	19.99	18.35	12.61
111	2007	320	645	41.75	68.62	6.694	19.1	21.01	12.81
111	2007	320	700	41.73	67.35	7.64	22.8	19.73	12.95
111	2007	320	715	41.86	66.71	7.99	27.32	20.43	13.05
111	2007	320	730	41.77	66.18	7.09	31.29	25.8	12.97
111	2007	320	745	41.71	65.24	8.11	27.69	25.43	12.96
111	2007	320	800	41.76	63.83	8.81	30.62	21.91	12.93
111	2007	320	815	41.97	62.46	8.47	29.45	21.73	12.93
111	2007	320	830	42.21	60.92	9.54	27.71	26.47	12.97
111	2007	320	845	42.53	60.08	8.15	27.92	19.7	13.01
111	2007	320	900	42.79	59.38	10.65	25.86	27.87	13.12
111	2007	320	915	42.97	58.03	10.23	30.05	22.17	13.29
111	2007	320	930	43.43	55.79	9.18	30.63	24.2	13.67
111	2007	320	945	43.72	53.31	11.57	33.33	25.05	13.65
111	2007	320	1000	43.74	53.03	13.65	31.03	24.83	13.64
111	2007	320	1015	44.13	51.36	10.13	33.68	20.58	13.63
111	2007	320	1030	44.25	49.55	12.9	31.39	23.71	13.62
111	2007	320	1045	44.6	47.71	10.24	35.51	28.03	13.62
111	2007	320	1100	45.05	47.47	11.28	37.02	25.39	13.62
111	2007	320	1115	44.96	47.91	12.81	33.89	19.28	13.62
111	2007	320	1130	45.33	45.3	12.27	30.7	23.08	13.62
111	2007	320	1145	45.5	45.46	12.64	39.58	23.2	13.18
111	2007	320	1200	44.83	44.66	10.77	30.86	22.78	13.14
111	2007	320	1215	45.22	42.92	10.43	38.78	22.96	13.14
111	2007	320	1230	45.12	46.77	10.97	29.77	20.46	13.01
111	2007	320	1245	44.99	46.77	12.94	14.99	20.67	12.95
111	2007	320	1300	45.42	43.29	13.76	20.57	19.69	12.87
111	2007	320	1315	45.91	42.89	11.48	32.75	19.99	12.83
111	2007	320	1330	45.25	49.21	11	23.34	24.31	12.81
111	2007	320	1345	45.32	40.48	10.85	24.98	28.36	12.79
111	2007	320	1400	46.36	40.14	12.14	20.11	25.4	12.77
111	2007	320	1415	46.23	38.39	11.57	29.54	25.99	12.76
111	2007	320	1430	46.33	37.35	11.67	19.39	20.89	12.75
111	2007	320	1445	45.41	38.09	13.27	27.39	25.7	12.73
111	2007	320	1500	45.69	32.16	12.3	27.17	29.41	12.73
111	2007	320	1515	45.06	36.35	13.51	36.68	21.09	12.72
111	2007	320	1530	44.42	38.1	12.64	36.76	21.67	12.71
111	2007	320	1545	44.36	40.01	12.49	23.09	23.1	12.71
111	2007	320	1600	43.91	40.84	13.34	24.59	23.88	12.68
111	2007	320	1615	43.68	40.54	11.84	16.01	24.13	12.68
111	2007	320	1630	43.1	42.55	11.41	22.38	24.33	12.68
111	2007	320	1645	43.04	43.62	10.81	22.84	20.69	12.67
111	2007	320	1700	42.49	40.31	12.69	27.35	23.57	12.66
111	2007	320	1715	41.87	42.49	12.36	21.88	19.45	12.65
111	2007	320	1730	41.39	43.06	10.99	23.48	20.89	12.65
111	2007	320	1745	40.99	45.51	9.22	20.73	23.96	12.64
111	2007	320	1800	40.73	44.97	8.45	28.31	18.48	12.63
111	2007	320	1815	40.73	40.82	10.71	22.02	21.77	12.62
111	2007	320	1830	40.35	41.66	10.23	25.82	19.6	12.61

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	320	1845	39.75	45.14	6.966	29.97	22.55	12.61
111	2007	320	1900	39.29	46.72	6.938	23.2	18.76	12.6
111	2007	320	1915	38.89	47.09	6.676	24.32	21.31	12.59
111	2007	320	1930	38.81	46.35	8.62	26.83	18.65	12.57
111	2007	320	1945	38.77	45.31	10.3	27.34	21.75	12.57
111	2007	320	2000	38.61	43.91	10.88	28.09	23.34	12.56
111	2007	320	2015	38.21	45.85	7.51	27.39	23.96	12.55
111	2007	320	2030	37.78	46.69	6.702	34.48	19.81	12.55
111	2007	320	2045	37.49	47.5	5.338	33.8	21.72	12.53
111	2007	320	2100	37.23	48.77	4.98	22.82	25.25	12.53
111	2007	320	2115	36.98	48.24	5.9	22.12	21.91	12.52
111	2007	320	2130	36.83	46.83	5.918	25.33	20.06	12.51
111	2007	320	2145	36.85	47.2	6.156	30.42	20.2	12.51
111	2007	320	2200	36.75	46.63	7.41	28.24	22.01	12.49
111	2007	320	2215	36.68	46.73	7.58	26.2	25.19	12.49
111	2007	320	2230	36.71	46.2	8.77	20.41	18.76	12.47
111	2007	320	2245	36.68	47.94	7.77	26.18	21	12.47
111	2007	320	2300	36.36	48.81	6.485	17.07	17.15	12.47
111	2007	320	2315	36.14	49.31	7.29	16.93	17.15	12.47
111	2007	320	2330	36.08	49.31	6.839	18.25	15.61	12.46
111	2007	320	2345	36.02	49.92	6.358	19.15	20.37	12.46
111	2007	320	2400	35.89	51.29	5.377	18.05	15.94	12.45
111	2007	321	15	35.68	51.49	5.949	13.52	16.76	12.46
111	2007	321	30	35.59	52.83	5.04	7.34	17.58	12.46
111	2007	321	45	35.45	52.9	4.627	8.96	15.07	12.46
111	2007	321	100	35.6	53.03	4.893	13.12	16.11	12.45
111	2007	321	115	35.57	54.1	4.573	15.49	20.82	12.45
111	2007	321	130	35.66	52.29	4.863	15.55	22.4	12.45
111	2007	321	145	35.76	52.6	4.816	15.48	20.11	12.45
111	2007	321	200	35.61	53	4.319	21.2	19.08	12.46
111	2007	321	215	35.42	53.23	4.637	19.3	20.36	12.46
111	2007	321	230	35.31	53.87	4.849	14.7	17.25	12.47
111	2007	321	245	35.24	54.07	4.903	15.8	16.9	12.47
111	2007	321	300	35.14	54.57	4.885	9.97	13.66	12.46
111	2007	321	315	34.8	56.01	3.998	9.69	13.65	12.47
111	2007	321	330	34.3	57.15	2.935	7.94	16.07	12.46
111	2007	321	345	33.81	58.9	2.768	6.766	16.24	12.47
111	2007	321	400	33.86	58.03	3.08	14.87	13.03	12.46
111	2007	321	415	32.9	63.49	1.915	8.71	18.27	12.47
111	2007	321	430	31.22	66.61	1.182	351.4	19.09	12.47
111	2007	321	445	30.32	70.5	0.554	349.8	10.86	12.47
111	2007	321	500	29.61	74.5	1.341	360	23.06	12.46
111	2007	321	515	29.45	75.3	1.174	4.616	10.85	12.47
111	2007	321	530	30.67	72.5	2.759	2.396	13.86	12.46
111	2007	321	545	31.85	71.1	2.798	6.804	19.66	12.47
111	2007	321	600	32.51	71.9	2.741	1.761	18.76	12.47
111	2007	321	615	32.19	73.6	3.144	356.9	15.11	12.47
111	2007	321	630	33.16	71.5	4.542	6.045	15.81	12.47
111	2007	321	645	33.57	70.6	5.568	4.078	19.98	12.47
111	2007	321	700	33.64	70.9	5.231	3.66	19.59	12.47
111	2007	321	715	33.6	71	5.04	3.091	16.48	12.47
111	2007	321	730	33.6	71.1	5.028	3.374	12.17	12.47
111	2007	321	745	33.62	71	4.587	8.87	15.08	12.48
111	2007	321	800	33.57	71.1	4.661	7.76	12.73	12.47
111	2007	321	815	33.91	69.93	4.857	6.084	16.62	12.47
111	2007	321	830	34.68	68.18	5.487	5.98	15.66	12.47
111	2007	321	845	35.5	66.1	5.614	0.803	24.26	12.47
111	2007	321	900	36.32	63.22	6.192	355.4	16.9	12.47
111	2007	321	915	37.44	61.61	7.02	352.6	18.66	12.47
111	2007	321	930	38.26	59.09	7.7	0.268	22.69	12.47

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	321	945	38.97	56.41	8.12	2.169	22.25	12.47
111	2007	321	1000	39.65	54.02	8.44	6.133	22.63	12.47
111	2007	321	1015	40.22	51.24	8.65	2.736	25.4	12.47
111	2007	321	1030	40.53	51.88	10.25	5.579	20.28	12.47
111	2007	321	1045	41.04	52.41	8.12	5.148	26.31	12.47
111	2007	321	1100	41.12	48.39	9.01	13.12	18.58	12.47
111	2007	321	1115	41.27	45.14	10.41	10.73	18.39	12.47
111	2007	321	1130	41.92	46.55	8.19	26.36	25.91	12.47
111	2007	321	1145	41.94	46.54	8.69	22.18	21.82	12.46
111	2007	321	1200	41.86	43.46	8.26	17.52	24.49	12.47
111	2007	321	1215	41.87	45.53	9.81	13.99	20.23	12.47
111	2007	321	1230	42.18	45.36	9.05	10.68	21.63	12.47
111	2007	321	1245	42.61	44.59	9.95	10.39	23	12.46
111	2007	321	1300	42.32	44.66	9.41	2.971	19.81	12.46
111	2007	321	1315	42.34	43.79	9.2	9.67	19.89	12.47
111	2007	321	1330	42.72	43.99	8.05	22.57	20.13	12.47
111	2007	321	1345	43.07	44.86	9.1	7.96	25.32	12.47
111	2007	321	1400	42.75	44.39	8.92	2.482	20.21	12.46
111	2007	321	1415	43.2	43.32	7.47	9.77	24.36	12.46
111	2007	321	1430	43.68	44.49	8.63	10.79	19.68	12.46
111	2007	321	1445	44.31	39.97	7.86	356.3	23.51	12.45
111	2007	321	1500	44.18	40.17	7.07	12.09	23.18	12.45
111	2007	321	1515	44.28	39.4	7.22	18.84	26.54	12.45
111	2007	321	1530	44.3	38.63	7.51	24.59	26.82	12.45
111	2007	321	1545	44.35	38.5	6.323	38.83	22.2	12.45
111	2007	321	1600	43.96	39.17	6.285	34.6	20.85	12.45
111	2007	321	1615	44.19	39.54	5.725	28.58	20.95	12.45
111	2007	321	1630	43.87	40.34	6.009	12.2	27.46	12.45
111	2007	321	1645	43.79	40.17	4.553	39.2	21.56	12.44
111	2007	321	1700	43.58	41.28	5.322	23.74	15.98	12.44
111	2007	321	1715	43.43	41.68	5.405	25.85	18.51	12.44
111	2007	321	1730	43.34	42.89	3.962	25.68	19.07	12.44
111	2007	321	1745	43.28	43.29	3.17	18.15	21.47	12.44
111	2007	321	1800	43.2	43.83	2.26	13.34	22.01	12.43
111	2007	321	1815	43.12	44.3	1.949	358.4	19.13	12.42
111	2007	321	1830	42.95	44.37	1.11	354.3	19.87	12.43
111	2007	321	1845	42.92	46.85	2	355.7	13.99	12.43
111	2007	321	1900	42.78	46.24	1.845	0.22	18.01	12.42
111	2007	321	1915	42.62	47.99	0.395	20.71	8.31	12.41
111	2007	321	1930	42.77	47.05	3.711	27.09	33.15	12.41
111	2007	321	1945	42.81	47.15	3.833	19.65	19.59	12.41
111	2007	321	2000	42.72	48.89	2.3	27.07	24.16	12.4
111	2007	321	2015	42.5	50.67	4.144	20.86	24.47	12.4
111	2007	321	2030	42.34	50.9	4.182	357.2	18.82	12.4
111	2007	321	2045	42.21	51.94	1.857	10.19	17.81	12.39
111	2007	321	2100	41.66	54.15	0.304	22.78	20.47	12.39
111	2007	321	2115	41.34	55.76	0.726	60.3	14.09	12.39
111	2007	321	2130	40.91	57.4	na	na	na	12.38
111	2007	321	2145	40.43	60.11	0.138	45.9	4.72	12.39
111	2007	321	2200	40.21	60.58	0.022	62.6	1.598	12.39
111	2007	321	2215	40.22	60.31	0.458	43.36	12.18	12.37
111	2007	321	2230	40.26	60.68	0.239	58.02	7.2	12.37
111	2007	321	2245	40.22	61.49	0.464	60.1	8.08	12.37
111	2007	321	2300	40.07	62.29	na	na	na	12.37
111	2007	321	2315	39.52	65.51	0.154	356.7	4.627	12.37
111	2007	321	2330	39.1	66.34	0.009	72.1	0.007	12.36
111	2007	321	2345	39.29	65.87	0.423	112.4	25.56	12.36
111	2007	321	2400	39.97	63.93	0.55	92	12.48	12.36
111	2007	322	15	40.15	63.3	0.809	114.4	30.66	12.35
111	2007	322	30	40.14	62.42	1.265	141.8	27.57	12.35

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	322	45	40.24	62.29	1.338	134.1	26.88	12.35
111	2007	322	100	40.26	62.19	0.957	120.2	33.53	12.34
111	2007	322	115	40.26	60.98	1.831	142.9	31.63	12.35
111	2007	322	130	40.56	57.47	2.533	81.2	54.97	12.35
111	2007	322	145	40.86	57.64	1.368	98.1	39.78	12.34
111	2007	322	200	40.65	59.78	0.39	105.3	19.88	12.35
111	2007	322	215	40.25	62.46	0.702	336.4	51.86	12.34
111	2007	322	230	39.76	60.98	1.91	4.796	40.95	12.35
111	2007	322	245	39.99	62.86	0.354	92.5	41.91	12.35
111	2007	322	300	39.77	62.63	0.478	100.9	27.03	12.35
111	2007	322	315	39.8	63.36	1.666	53.1	11.59	12.35
111	2007	322	330	39.6	63.63	0.959	68.77	23.87	12.35
111	2007	322	345	39.43	63.36	1.266	74.6	34.86	12.36
111	2007	322	400	39.4	60.98	2.429	97.1	30.23	12.36
111	2007	322	415	39.51	59.31	2.147	109.2	51.25	12.36
111	2007	322	430	39.53	58.17	1.781	113	45.58	12.36
111	2007	322	445	39.5	58.37	2.131	118.6	41.04	12.36
111	2007	322	500	39.13	60.25	1.921	135.8	36.52	12.36
111	2007	322	515	38.73	61.32	2.209	142.7	24.29	12.36
111	2007	322	530	38.52	61.36	2.2	136.6	29.38	12.36
111	2007	322	545	38.39	62.17	2.117	141.7	31.05	12.37
111	2007	322	600	38.21	63.07	3.05	142.2	24.15	12.37
111	2007	322	615	38.04	64.18	2.62	148.4	31.33	12.37
111	2007	322	630	37.99	64.24	2.868	146.5	36.66	12.55
111	2007	322	645	37.94	63.84	2.514	144.9	25.71	12.81
111	2007	322	700	37.93	63.44	3.388	135.8	22.96	13.09
111	2007	322	715	37.72	63.74	2.977	147.6	26.71	13.03
111	2007	322	730	37.6	63.41	3.847	167.5	22.82	12.94
111	2007	322	745	37.51	62.64	3.378	154.8	30.62	12.85
111	2007	322	800	37.62	61.33	2.759	141.3	31.35	12.78
111	2007	322	815	37.75	61.33	2.903	155.1	31.85	12.73
111	2007	322	830	37.83	59.55	3.354	151.6	25.33	12.75
111	2007	322	845	38.02	57.78	3.628	146.5	33.4	12.8
111	2007	322	900	38.28	56.07	3.408	151.3	33.16	12.82
111	2007	322	915	38.46	54.52	4.174	144.6	29.36	12.84
111	2007	322	930	38.79	52.88	3.547	151	30.97	12.8
111	2007	322	945	39.25	50.9	4.015	141.5	33.6	12.8
111	2007	322	1000	39.94	50.27	4.798	144.6	26.86	12.9
111	2007	322	1015	40.67	50.97	5.207	144.3	34.35	12.87
111	2007	322	1030	41.52	48.86	5.211	143	33.76	12.82
111	2007	322	1045	42.09	48.66	6.793	139.8	30.58	12.75
111	2007	322	1100	42.13	50.8	6.473	153.2	30.38	12.71
111	2007	322	1115	42.03	49.89	5.965	153.5	28.61	12.67
111	2007	322	1130	42.09	50.76	5.33	149.6	36.87	12.66
111	2007	322	1145	42.66	49.36	5.342	155.6	31.27	12.64
111	2007	322	1200	42.74	46.94	5.048	145.1	27.86	12.61
111	2007	322	1215	43.08	42.69	5.461	149.8	29.49	12.59
111	2007	322	1230	43.27	39.77	4.96	144.2	27.42	12.56
111	2007	322	1245	43.37	41.68	5.9	154	25.92	12.55
111	2007	322	1300	43.34	42.75	5.316	152.3	31.25	12.54
111	2007	322	1315	43.59	41.41	5.763	162.7	27.46	12.52
111	2007	322	1330	43.56	46.07	6.47	159.9	25.48	12.5
111	2007	322	1345	43.17	48.84	4.692	147.9	36.13	12.49
111	2007	322	1400	42.98	49.18	6.456	169.2	26.23	12.48
111	2007	322	1415	42.89	50.52	6.132	169.9	20.83	12.46
111	2007	322	1430	42.57	54.74	4.784	135.7	33.6	12.46
111	2007	322	1445	42.48	55.21	5.433	142.6	29.66	12.45
111	2007	322	1500	42.86	54.27	5.749	186.9	28.81	12.44
111	2007	322	1515	43.1	54.64	6.34	182	20.73	12.43
111	2007	322	1530	42.85	54.74	5.707	187.7	20.47	12.43

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	322	1545	43.13	53.77	5.213	184.3	24.68	12.43
111	2007	322	1600	43.14	55.91	5.441	179.8	25.17	12.42
111	2007	322	1615	43.47	57.52	6.658	169	20.77	12.42
111	2007	322	1630	43.63	53.3	6.513	182.1	23.84	12.42
111	2007	322	1645	43.57	51.76	5.83	171.4	29.2	12.42
111	2007	322	1700	43.42	51.59	4.512	157.1	32.11	12.41
111	2007	322	1715	43.2	49.48	5.812	157.4	27.99	12.41
111	2007	322	1730	42.92	47.61	5.91	163.4	27.16	12.41
111	2007	322	1745	42.66	47.21	5.236	164.1	22.9	12.4
111	2007	322	1800	42.25	44.54	4.202	158.3	32.05	12.41
111	2007	322	1815	41.91	43.66	4.41	146.2	25.53	12.41
111	2007	322	1830	41.52	43.27	5.141	154.3	27.59	12.41
111	2007	322	1845	41.26	43.9	4.405	155	29.36	12.4
111	2007	322	1900	40.98	45.04	4.633	151.2	32.31	12.4
111	2007	322	1915	40.81	44.34	4.784	159.8	25.17	12.4
111	2007	322	1930	40.76	43.94	5.111	152.1	32.47	12.39
111	2007	322	1945	40.68	42.93	4.899	154.5	31.24	12.4
111	2007	322	2000	40.89	43.17	6.007	169.4	17.3	12.4
111	2007	322	2015	40.86	42.83	5.626	164.6	26	12.4
111	2007	322	2030	40.71	43.57	5.29	154	30.45	12.39
111	2007	322	2045	40.51	43.84	3.958	154.9	33.67	12.39
111	2007	322	2100	40.47	44.57	4.526	157.3	26.48	12.38
111	2007	322	2115	40.53	44.24	4.855	151.1	26.52	12.38
111	2007	322	2130	40.54	44.78	4.508	158.9	27.97	12.38
111	2007	322	2145	40.55	44.17	5.028	152.7	29.97	12.38
111	2007	322	2200	40.66	43.64	4.951	153.9	30.17	12.38
111	2007	322	2215	40.84	43.34	5.213	156.7	31.37	12.38
111	2007	322	2230	40.92	43.7	5.467	155.6	38.39	12.38
111	2007	322	2245	40.87	44.27	5.638	153.3	29.51	12.37
111	2007	322	2300	40.81	44.14	5.761	154.3	33.92	12.37
111	2007	322	2315	40.81	44.61	4.744	155.5	33.68	12.37
111	2007	322	2330	40.86	49.1	6.321	158.9	29.16	12.37
111	2007	322	2345	40.76	53.32	5.588	151.4	33.88	12.37
111	2007	322	2400	40.61	54.15	6.682	155.8	24.78	12.36
111	2007	323	15	40.52	55.19	6.265	161.3	30.88	12.37
111	2007	323	30	40.36	56.4	5.149	158.6	28.81	12.37
111	2007	323	45	40.13	56.8	5.332	162.9	22.79	12.36
111	2007	323	100	40.04	56.9	4.841	158.7	29.21	12.36
111	2007	323	115	39.96	57.07	4.724	165.7	28.45	12.36
111	2007	323	130	39.95	57.54	4.897	170.9	19.6	12.36
111	2007	323	145	39.87	60.88	4.734	154.9	29.81	12.35
111	2007	323	200	39.84	66.44	4.827	153.2	34.01	12.36
111	2007	323	215	39.87	68.89	6.654	159	28.58	12.36
111	2007	323	230	39.8	69.46	5.737	151.8	34.63	12.35
111	2007	323	245	39.82	69.26	5.405	145.1	30.33	12.36
111	2007	323	300	39.88	69.49	6.43	147.4	29.21	12.35
111	2007	323	315	39.85	70.2	4.885	154.1	35.13	12.36
111	2007	323	330	39.79	69.69	5.592	149.8	30.64	12.36
111	2007	323	345	39.89	69.16	5.659	146.2	30.98	12.36
111	2007	323	400	40.02	68.85	6.674	156.9	33.25	12.36
111	2007	323	415	40.11	68.65	6.626	152.7	32.48	12.36
111	2007	323	430	40.15	69.39	5.026	152.7	30.53	12.36
111	2007	323	445	40.03	70.2	7.55	152.4	30.66	12.36
111	2007	323	500	39.86	71	6.557	157.3	24.79	12.35
111	2007	323	515	39.74	70.4	6.269	155.3	30.76	12.38
111	2007	323	530	39.8	69.32	6.291	145.2	34.36	12.52
111	2007	323	545	39.97	68.52	5.663	140.8	38.15	12.83
111	2007	323	600	40.11	67.85	6.158	146.2	37.47	13.1
111	2007	323	615	40.23	67.65	5.713	144.7	39.04	13.2
111	2007	323	630	40.32	68.12	6.563	152.3	34.26	13.25

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	323	645	40.33	68.42	6.789	145.8	30.36	13.05
111	2007	323	700	40.18	71.5	6.599	143.4	33.16	13.03
111	2007	323	715	39.89	73	6.837	152.2	29.46	13.4
111	2007	323	730	39.9	71.7	7.3	150	37.7	13.22
111	2007	323	745	40.04	71	7.86	155.3	36.76	13.23
111	2007	323	800	40.07	70.8	6.015	151.5	28.44	13.41
111	2007	323	815	40.16	70.3	6.348	144.5	38.06	13.39
111	2007	323	830	40.17	70.6	6.517	151.5	34.14	13.4
111	2007	323	845	40.07	70.7	6.066	148.8	29.75	13.41
111	2007	323	900	39.95	69.96	6.289	150	28.24	13.41
111	2007	323	915	40.09	70	5.366	146.3	36.76	13.29
111	2007	323	930	40.24	68.62	5.612	150.9	36.32	13.31
111	2007	323	945	40.57	68.72	6.507	148.9	32.21	13.42
111	2007	323	1000	41.01	66.31	6.616	144.5	33.55	13.42
111	2007	323	1015	41.41	66.91	6.962	153.9	30.82	13.42
111	2007	323	1030	41.84	65.17	6.41	157.5	27.54	13.43
111	2007	323	1045	41.97	63.76	6.898	151.9	28.67	13.43
111	2007	323	1100	41.97	62.89	6.716	158.8	30.44	13.43
111	2007	323	1115	41.95	63.02	6.998	144.6	31.93	13.45
111	2007	323	1130	42	61.99	6.607	164.1	29.51	13.43
111	2007	323	1145	42.41	61.21	6.426	156	27.09	13.43
111	2007	323	1200	42.49	59.54	7.28	169.3	22.38	13.31
111	2007	323	1215	42.98	59	5.848	165.1	30.22	13.17
111	2007	323	1230	43.52	56.32	6.521	151	27.58	13.11
111	2007	323	1245	43.9	55.91	7.51	155.3	27.46	12.94
111	2007	323	1300	44.58	53.63	6.781	159.1	32.75	12.9
111	2007	323	1315	45.07	54.34	8	158.5	34.19	12.87
111	2007	323	1330	45.62	51.89	6.44	156.2	31.21	12.85
111	2007	323	1345	45.79	51.35	6.203	163.7	34.5	12.84
111	2007	323	1400	45.84	52.48	7.01	154.7	31.05	12.83
111	2007	323	1415	45.67	52.38	6.932	160	26.65	12.82
111	2007	323	1430	45.15	53.48	7.51	167.6	26.55	12.81
111	2007	323	1445	45.44	54.12	7.63	180.6	20.14	12.79
111	2007	323	1500	44.79	54	7.41	180.4	21.59	12.79
111	2007	323	1515	44.9	54.3	6.91	164.4	32.37	12.78
111	2007	323	1530	44.6	54.1	6.527	158.5	26.67	12.78
111	2007	323	1545	44.57	53.3	5.401	147	26.06	12.77
111	2007	323	1600	44.35	54.7	7.02	164.3	28.66	12.76
111	2007	323	1615	44.02	53.83	6.059	157.1	28.12	12.76
111	2007	323	1630	43.68	53.5	6.545	163.7	25.76	12.76
111	2007	323	1645	43.75	52.8	4.835	175.6	33.83	12.75
111	2007	323	1700	43.57	54.77	5.503	180.5	28.14	12.75
111	2007	323	1715	43.36	54.57	5.636	175.5	28.71	12.75
111	2007	323	1730	42.61	54.94	5.588	176.5	29.94	12.74
111	2007	323	1745	42.41	55.08	4.579	168.7	24.84	12.73
111	2007	323	1800	42.25	55.58	3.86	172.3	30.18	12.73
111	2007	323	1815	42.04	54.48	4.405	171.3	29.29	12.72
111	2007	323	1830	41.91	54.18	4.528	149.9	31.02	12.72
111	2007	323	1845	41.67	54.11	3.999	152.5	32.86	12.72
111	2007	323	1900	41.59	53.68	5.105	168.2	29.91	12.71
111	2007	323	1915	41.49	54.05	5.169	171.3	25.54	12.7
111	2007	323	1930	41.32	53.55	5.586	166.1	26.14	12.69
111	2007	323	1945	41.13	53.68	5.403	171.8	22.25	12.69
111	2007	323	2000	40.95	53.05	5.06	162.7	29.03	12.67
111	2007	323	2015	40.94	52.28	4.218	165.5	33.49	12.67
111	2007	323	2030	40.82	52.78	3.892	154.4	35	12.67
111	2007	323	2045	40.75	52.98	4.414	162.6	27.42	12.66
111	2007	323	2100	40.54	57.17	5.28	174.7	28.42	12.65
111	2007	323	2115	39.73	62.19	6.186	178.8	25.73	12.64
111	2007	323	2130	39.15	65.67	6.122	172.2	26.28	12.64

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	323	2145	38.43	68.32	5.334	166.6	24.96	12.63
111	2007	323	2200	37.94	69.86	5.902	164.7	25.85	12.63
111	2007	323	2215	37.57	70.7	5.183	164.4	30.94	12.61
111	2007	323	2230	37.22	71	4.492	148.3	28.48	12.61
111	2007	323	2245	36.92	71.9	3.718	138.8	32.79	12.61
111	2007	323	2300	36.57	73.1	3.859	145.1	29.23	12.61
111	2007	323	2315	36.19	73.9	4.283	139.2	25.68	12.6
111	2007	323	2330	35.99	74.3	3.894	147.3	31.33	12.59
111	2007	323	2345	35.87	74.7	3.696	151.6	34.51	12.59
111	2007	323	2400	35.67	75.1	3.866	142.8	29.55	12.59
111	2007	324	15	35.23	75.9	3.807	133.4	27.3	12.58
111	2007	324	30	34.84	76.6	2.993	128.8	22.65	12.57
111	2007	324	45	34.56	77.3	3.535	138	22.32	12.57
111	2007	324	100	34.26	78	3.128	135.8	23.01	12.57
111	2007	324	115	34.05	78.5	2.491	130.5	26.73	12.57
111	2007	324	130	33.76	79.4	1.774	133.6	28.15	12.57
111	2007	324	145	33.47	80	2.15	130.1	31.9	12.56
111	2007	324	200	33.15	81	1.289	104.3	30.04	12.56
111	2007	324	215	32.9	81.7	1.9	96.4	22.58	12.56
111	2007	324	230	32.67	82.4	1.738	109.1	33.34	12.56
111	2007	324	245	32.45	83.2	1.27	122.9	27.44	12.55
111	2007	324	300	32.5	83.6	1.236	125.2	22.67	12.55
111	2007	324	315	32.87	83.4	3.277	141.2	20.77	12.55
111	2007	324	330	33.47	82.6	3.227	139	23.5	12.55
111	2007	324	345	33.95	82	3.277	139.2	24.2	12.54
111	2007	324	400	34.5	81	2.774	134.5	30.33	12.53
111	2007	324	415	35.11	79.9	2.502	133.7	25.89	12.53
111	2007	324	430	35.56	78.8	3.044	144.4	27.26	12.53
111	2007	324	445	35.92	78.2	3.438	151.5	31.04	12.53
111	2007	324	500	36.13	78.2	3.11	150.2	35.33	12.53
111	2007	324	515	36.41	78	3.098	143.2	26.45	12.58
111	2007	324	530	36.63	78	3.219	152.7	30.78	12.87
111	2007	324	545	36.83	78	3.11	157.3	31.17	13.37
111	2007	324	600	37.08	77.8	3.65	170.9	24.11	13.83
111	2007	324	615	37.44	77.5	3.438	172.9	25.61	13.18
111	2007	324	630	37.69	77.4	3.69	182.1	24.02	13.18
111	2007	324	645	37.87	77.2	3.078	180	29.22	13.19
111	2007	324	700	38.13	76.9	3.052	180.5	29.07	13.15
111	2007	324	715	38.42	77.4	2.31	172.7	27.31	13.71
111	2007	324	730	38.52	78.7	1.955	141.5	34.84	13.79
111	2007	324	745	38.28	81.3	2.15	153.7	28.9	13.79
111	2007	324	800	38.19	83.3	2.576	166.6	31.16	13.79
111	2007	324	815	38.31	84.5	2.127	168.5	25.9	13.79
111	2007	324	830	38.46	85.6	1.932	177.6	27.62	13.77
111	2007	324	845	38.86	86.7	2.137	148.7	36.06	13.76
111	2007	324	900	39.48	87.2	1.083	93.5	46.73	13.75
111	2007	324	915	40.13	89.3	1.56	253.3	22.94	13.74
111	2007	324	930	42	88.7	2.965	264.6	29.19	13.75
111	2007	324	945	42.4	87.1	3.811	270.5	31.62	13.73
111	2007	324	1000	42.6	86	3.743	265.3	34.84	13.73
111	2007	324	1015	42.95	85.1	4.077	261.4	24.29	13.72
111	2007	324	1030	43.31	84.2	4.794	263.8	26.18	13.72
111	2007	324	1045	43.59	84.8	5.28	263	26.98	13.72
111	2007	324	1100	44.07	82.5	5.518	268.4	33.96	13.71
111	2007	324	1115	44.46	82.1	4.25	269.1	29.95	13.71
111	2007	324	1130	44.68	81.2	4.238	289.5	26.92	13.71
111	2007	324	1145	44.76	82.1	3.825	285.7	32.75	13.71
111	2007	324	1200	44.75	83.2	4.174	287.9	31.53	13.71
111	2007	324	1215	44.69	84	4.151	297.5	30.88	13.72
111	2007	324	1230	44.42	86.1	4.665	291.8	34.21	13.72

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	324	1245	44.21	87.6	3.452	299.1	33.09	13.72
111	2007	324	1300	44.3	88.5	4.16	300	34.04	13.72
111	2007	324	1315	44.33	89.7	3.329	304.9	32.15	13.73
111	2007	324	1330	44.26	90.9	2.694	297.8	27.88	13.73
111	2007	324	1345	44.47	91.7	2.672	292	28.97	13.75
111	2007	324	1400	44.81	92.1	2.916	303.1	25.65	13.33
111	2007	324	1415	44.98	92.4	2.845	302.5	28.56	12.89
111	2007	324	1430	45.14	92.6	2.162	299	33.36	12.81
111	2007	324	1445	45.45	92.8	2.927	296.3	32.96	12.79
111	2007	324	1500	45.57	93.1	2.675	302.5	34.27	12.76
111	2007	324	1515	45.83	93.4	2.908	286.3	29.46	12.73
111	2007	324	1530	46.02	93.5	2.901	281.4	29.93	12.72
111	2007	324	1545	46.23	93.9	2.251	291.2	37.82	12.7
111	2007	324	1600	46.51	93.9	2.023	302.4	29.17	12.68
111	2007	324	1615	46.76	94.1	2.035	307	36.97	12.68
111	2007	324	1630	47.07	94.2	2.256	306	30.55	12.66
111	2007	324	1645	47.27	94.2	1.784	295.3	35.27	12.65
111	2007	324	1700	47.46	94.3	1.763	330.6	28.14	12.65
111	2007	324	1715	47.6	94.2	2.005	336.4	20.79	12.64
111	2007	324	1730	47.48	94	2.85	337.1	18.95	12.63
111	2007	324	1745	47.49	93.3	4.035	351.1	19.07	12.63
111	2007	324	1800	47.38	92.4	4.252	2.867	21.26	12.62
111	2007	324	1815	47.27	91.5	4.955	4.52	20	12.61
111	2007	324	1830	47.19	91.5	4.573	10.03	19.71	12.6
111	2007	324	1845	47.12	91.3	4.021	5.996	21.68	12.6
111	2007	324	1900	47.02	91.3	3.505	16.25	22.53	12.59
111	2007	324	1915	46.92	91.1	2.816	22.29	21.5	12.58
111	2007	324	1930	46.73	91.3	0.701	14.68	17.81	12.57
111	2007	324	1945	46.47	91.3	0.399	342.3	16.15	12.57
111	2007	324	2000	46.09	91.5	0.246	336.1	12.15	12.56
111	2007	324	2015	45.95	91.9	0.176	258.7	6.403	12.55
111	2007	324	2030	45.77	92.1	0.705	18.02	14.78	12.55
111	2007	324	2045	45.43	92.7	1.021	12.31	9.02	12.54
111	2007	324	2100	45.38	92.8	0.876	6.907	13.91	12.54
111	2007	324	2115	45.18	93	0.882	22.16	10.53	12.53
111	2007	324	2130	45.27	93	1.613	25.66	18.11	12.53
111	2007	324	2145	44.96	92.9	0.674	23.4	15.88	12.52
111	2007	324	2200	44.44	93.1	0.902	38.47	11.69	12.52
111	2007	324	2215	43.65	93	0.335	39.13	8.1	12.52
111	2007	324	2230	42.85	93.5	1.464	29.75	21.11	12.51
111	2007	324	2245	42.82	93.2	0.654	34.41	26.03	12.5
111	2007	324	2300	41.83	93.5	0.825	11.56	8.33	12.5
111	2007	324	2315	41.45	93.2	0.338	358.1	15.82	12.5
111	2007	324	2330	40.27	93.7	1.243	358.7	12.15	12.49
111	2007	324	2345	40.37	94.3	1.206	44.6	10	12.49
111	2007	324	2400	41.36	94.4	1.779	51.38	15.29	12.48
111	2007	325	15	41.56	94.2	1.548	49.15	22.5	12.48
111	2007	325	30	41.63	94.1	1.21	30.06	24.32	12.47
111	2007	325	45	41.33	94.2	1.37	75.4	23.75	12.47
111	2007	325	100	41.12	94.1	1.506	75.9	28.58	12.46
111	2007	325	115	40.76	94.1	1.256	96.4	34.67	12.46
111	2007	325	130	40.22	93.9	0.838	18.74	12.25	12.45
111	2007	325	145	39.65	94.1	0.191	60.93	7.26	12.45
111	2007	325	200	38.92	93.9	0.137	66.39	20.36	12.45
111	2007	325	215	38.91	93.8	0.928	39.42	57.82	12.44
111	2007	325	230	37.97	94.2	na	na	na	12.44
111	2007	325	245	37.57	94.2	0.089	346.7	0.763	12.44
111	2007	325	300	37.15	94.2	0.009	65.6	0.007	12.43
111	2007	325	315	36.83	94.4	0.018	66.67	0.018	12.43
111	2007	325	330	36.77	94.4	0.027	69.59	0.021	12.43

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	325	345	36.36	94.4	0.535	355.5	5.51	12.43
111	2007	325	400	36.15	94.6	2.158	352	15.04	12.42
111	2007	325	415	36.2	94.7	0.176	295.1	24.42	12.41
111	2007	325	430	36.05	94.4	0.745	289.9	28.6	12.41
111	2007	325	445	36.37	95.1	1.798	344.4	64.43	12.41
111	2007	325	500	37.47	94.9	1.389	53.88	22.02	12.41
111	2007	325	515	37.98	95	1.242	96.7	22.85	12.53
111	2007	325	530	38.43	95.1	1.219	112.2	38.41	12.87
111	2007	325	545	38.67	95.2	1.38	39.76	21.66	14.01
111	2007	325	600	39.04	95.3	0.37	85.7	53.71	13.99
111	2007	325	615	39.43	95.3	0.421	62.71	13.87	13.96
111	2007	325	630	39.89	95.3	0.81	184.9	30.69	13.94
111	2007	325	645	40.24	95.3	0.29	221	12.59	13.22
111	2007	325	700	40.54	95.3	0.813	245.7	12.04	13.17
111	2007	325	715	40.79	95.2	1.998	256	24.21	13.91
111	2007	325	730	40.71	95.4	0.896	239.9	26.74	13.89
111	2007	325	745	40.99	95.4	0.541	176.9	17.58	13.89
111	2007	325	800	41.28	95.6	1.249	184.9	20.55	13.88
111	2007	325	815	41.73	95.5	2.021	168.3	26.6	13.88
111	2007	325	830	42.31	95.5	1.682	181.6	23.8	13.87
111	2007	325	845	42.91	95.6	2.675	175.5	21.18	13.86
111	2007	325	900	43.64	95.5	1.917	176.4	23.25	13.85
111	2007	325	915	44.32	95.4	1.121	128.4	46.08	13.84
111	2007	325	930	44.74	95.2	2.35	173.4	25.1	13.81
111	2007	325	945	45.33	95	2.58	190.3	35.01	13.79
111	2007	325	1000	46.26	95.3	1.745	206.6	32.69	13.79
111	2007	325	1015	47.54	94.2	2.232	229.9	26.25	13.77
111	2007	325	1030	48.46	93.5	2.28	240.9	28.14	13.77
111	2007	325	1045	49	92.6	2.359	274.5	26.09	13.76
111	2007	325	1100	49.17	92	2.078	260.1	36.02	13.75
111	2007	325	1115	49.27	91	2.84	252.7	24.16	13.75
111	2007	325	1130	49.26	90.8	3.06	260	24.52	13.75
111	2007	325	1145	49.84	90.4	2.435	287.9	29.47	13.75
111	2007	325	1200	50.57	90	3.299	282.9	35.91	13.74
111	2007	325	1215	51.13	89.1	3.027	279.3	31.04	13.75
111	2007	325	1230	51.25	88.8	3.857	272.6	26.05	13.75
111	2007	325	1245	51.31	88.9	3.523	281	30.53	13.75
111	2007	325	1300	51.65	88.6	3.293	284.5	27.4	13.77
111	2007	325	1315	51.9	88.6	3.604	267.1	31.31	13.77
111	2007	325	1330	51.95	88.3	2.868	257.4	29.66	13.79
111	2007	325	1345	52.02	88.7	3.052	263.3	30.31	13.63
111	2007	325	1400	52.15	88.9	2.347	277.6	38.77	12.96
111	2007	325	1415	52.05	88.9	2.856	255.5	30.73	12.85
111	2007	325	1430	51.81	89.4	2.854	243.5	23.16	12.8
111	2007	325	1445	51.61	89.8	2.679	252.1	24.98	12.77
111	2007	325	1500	51.56	90.5	3.505	255.8	20.52	12.74
111	2007	325	1515	51.53	91.1	2.838	254.9	31.68	12.72
111	2007	325	1530	51.92	91.5	3.295	247.8	26.42	12.71
111	2007	325	1545	52.14	91.6	3.197	255.8	34.57	12.69
111	2007	325	1600	52.23	91.8	3.545	235.1	26.89	12.68
111	2007	325	1615	52.45	91.5	4.069	247.5	31.09	12.68
111	2007	325	1630	52.12	92	3.122	244.2	24.25	12.67
111	2007	325	1645	52.09	91.9	2.623	233.1	29.64	12.66
111	2007	325	1700	52.03	92.1	2.415	242.5	22.59	12.65
111	2007	325	1715	51.99	92.3	2.302	243.1	23.8	12.64
111	2007	325	1730	51.64	92.5	2.174	239.1	24.98	12.64
111	2007	325	1745	51.4	92.8	1.576	240	28.05	12.63
111	2007	325	1800	51.58	93.1	1.289	238.3	27.85	12.62
111	2007	325	1815	51.66	93.2	1.426	241.1	22.76	12.62
111	2007	325	1830	51.59	93.2	1.539	204.7	29.92	12.62

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	325	1845	51.33	93.3	1.058	207	29.87	12.62
111	2007	325	1900	51.25	93.5	1.688	224.5	25.09	12.61
111	2007	325	1915	50.91	93.6	2.395	237.9	22.17	12.61
111	2007	325	1930	50.63	94	1.802	239.6	23.91	12.61
111	2007	325	1945	50.44	94.1	1.46	239.6	19.46	12.61
111	2007	325	2000	50.22	94.2	0.507	255.3	25.85	12.6
111	2007	325	2015	50.18	94.2	0.144	259.1	10.67	12.6
111	2007	325	2030	50.15	95	1.153	304	20.89	12.6
111	2007	325	2045	51.39	94.7	1.946	309.5	27.56	12.6
111	2007	325	2100	51.85	94.7	2.171	309.3	31.46	12.6
111	2007	325	2115	52.13	94.8	2.109	309.4	28.17	12.59
111	2007	325	2130	52.15	94.8	1.758	288.9	32.79	12.59
111	2007	325	2145	51.91	94.5	0.88	329.6	20.44	12.58
111	2007	325	2200	51.33	94.8	0.191	83.6	17.96	12.58
111	2007	325	2215	51.02	94.6	0.018	157.4	0.589	12.57
111	2007	325	2230	50.4	94.8	0.033	214.6	3.564	12.58
111	2007	325	2245	49.98	95.2	0.101	300.3	6.468	12.57
111	2007	325	2300	50.28	94.9	0.063	225.3	5.596	12.56
111	2007	325	2315	49.77	95	0.047	246.1	2.058	12.56
111	2007	325	2330	49.63	95	0.119	297.4	30.59	12.56
111	2007	325	2345	49.34	94.8	0.217	84	7.23	12.54
111	2007	325	2400	48.4	94.9	na	na	na	12.54
111	2007	326	15	47.82	95.1	0.294	106.4	24.15	12.53
111	2007	326	30	47.9	95.4	1.127	91.5	13.98	12.52
111	2007	326	45	48.19	95.4	0.098	60.1	13.35	12.52
111	2007	326	100	48.58	95.3	0.539	337.7	24.28	12.51
111	2007	326	115	49.14	95.7	0.183	298.5	12.23	12.5
111	2007	326	130	48.99	95.3	0.167	214.2	6.252	12.5
111	2007	326	145	48.62	95.4	0.559	235.6	29.8	12.49
111	2007	326	200	48.21	95.5	0.495	270.4	18.88	12.48
111	2007	326	215	48.27	95.4	0.439	248	11.48	12.48
111	2007	326	230	48	95.9	0.412	252	15.37	12.46
111	2007	326	245	48.57	95.5	0.027	244.4	3.495	12.46
111	2007	326	300	48.41	95.6	0.387	225.5	19.75	12.45
111	2007	326	315	48.18	95.4	na	na	na	12.45
111	2007	326	330	47.7	95.6	0.253	185.7	4.194	12.45
111	2007	326	345	47.39	95.3	0.364	188.4	4.549	12.44
111	2007	326	400	46.96	95.6	0.364	96.2	8.8	12.44
111	2007	326	415	46.76	95.6	0.314	123.9	11.1	12.44
111	2007	326	430	46.4	95.6	0.009	119.4	0.002	12.42
111	2007	326	445	46.5	95.9	0.417	219.4	18.88	12.42
111	2007	326	500	47.03	96.1	0.649	263.7	16.89	12.42
111	2007	326	515	49.22	96.3	1.279	266.5	19.65	12.5
111	2007	326	530	50.01	96.1	1.821	260.1	30.38	12.73
111	2007	326	545	50.29	96	1.727	298.7	36.37	13.92
111	2007	326	600	50.69	95.9	1.889	330.7	23.36	13.88
111	2007	326	615	50.66	95.8	2.113	296.2	31.76	13.86
111	2007	326	630	50.56	95.8	1.747	331.7	25.44	13.83
111	2007	326	645	50.55	95.8	1.471	314.3	23.7	13.17
111	2007	326	700	50.61	95.8	1.51	300.5	34.53	13.14
111	2007	326	715	50.78	95.9	2.03	294.8	32.94	13.79
111	2007	326	730	50.92	95.8	1.583	330	24.68	13.53
111	2007	326	745	51.01	95.6	1.467	321	22.61	13.75
111	2007	326	800	50.97	95.7	2.125	306.9	32.03	13.73
111	2007	326	815	51.4	95.7	2.467	314.3	28.96	13.72
111	2007	326	830	51.81	95.7	2.979	310	26.28	13.7
111	2007	326	845	52.44	95.3	2.878	303.2	37.77	13.7
111	2007	326	900	53.12	95.1	2.34	292	41.35	13.69
111	2007	326	915	53.54	94.6	3.197	329.2	26.28	13.67
111	2007	326	930	54.34	93.8	3.156	318.9	31.39	13.66

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	326	945	55.19	92.2	3.866	309.5	29.82	13.64
111	2007	326	1000	56.04	90.8	4.127	304.3	30.48	13.64
111	2007	326	1015	56.42	87.8	4.202	331.6	37.82	13.63
111	2007	326	1030	56.88	85.4	5.743	315.4	30.67	13.62
111	2007	326	1045	57.15	84.5	6.481	331.5	26.83	13.62
111	2007	326	1100	57.18	85.1	6.489	330.5	30.51	13.62
111	2007	326	1115	57.24	83.9	7.64	323.7	22.51	13.62
111	2007	326	1130	58.05	81.9	6.708	320	30.36	13.62
111	2007	326	1145	58.12	82.8	7.53	328.1	24.1	13.62
111	2007	326	1200	57.88	82.1	8.22	321.2	23.54	13.63
111	2007	326	1215	57.72	82.4	8.16	321	27.85	13.24
111	2007	326	1230	57.35	83.5	8.7	329.2	20.16	13.63
111	2007	326	1245	57.05	81.7	6.352	319.3	23.38	13.64
111	2007	326	1300	57.99	81.3	6.076	318.6	30.67	13.64
111	2007	326	1315	57.87	83.3	6.333	327.2	27.05	13.64
111	2007	326	1330	57.6	83.8	7.69	323.9	20.98	13.5
111	2007	326	1345	57.22	84.1	6.66	319	25.47	13.67
111	2007	326	1400	57.09	84.3	6.062	316.1	28.69	13.01
111	2007	326	1415	56.88	84.2	6.67	320.4	29.93	12.88
111	2007	326	1430	57.53	83.4	7.08	314.3	28.41	12.82
111	2007	326	1445	58.11	81.9	6.944	320.1	32.56	12.78
111	2007	326	1500	58.5	81.2	6.575	319.7	28.2	12.76
111	2007	326	1515	57.98	83.1	6.759	324.8	29.86	12.75
111	2007	326	1530	57.74	82.7	5.957	323	26.46	12.73
111	2007	326	1545	57.45	83.7	5.84	333.4	20.6	12.72
111	2007	326	1600	57.01	84.8	6.037	328.6	27	12.71
111	2007	326	1615	56.66	85.5	5.248	324	25.53	12.71
111	2007	326	1630	56.38	85.9	5.804	328.9	28.15	12.69
111	2007	326	1645	56.24	86.4	5.923	324.1	25.03	12.69
111	2007	326	1700	56	86.9	5.642	322	28.35	12.69
111	2007	326	1715	55.88	87	6.168	331.7	21.83	12.68
111	2007	326	1730	55.87	86.8	5.918	338.3	20.14	12.67
111	2007	326	1745	55.99	86.6	5.483	330.3	23.34	12.67
111	2007	326	1800	55.75	86.9	5.783	322.8	24.67	12.66
111	2007	326	1815	55.58	87.3	6.08	322.9	24.06	12.65
111	2007	326	1830	55.49	87.7	5.715	324.4	31.01	12.64
111	2007	326	1845	55.89	87	6.303	321.1	31.78	12.64
111	2007	326	1900	56.08	86.7	6.924	331.1	26.74	12.63
111	2007	326	1915	55.92	89.7	7.26	335.2	23.96	12.63
111	2007	326	1930	55.96	90.8	5.727	331.6	27.66	12.62
111	2007	326	1945	56.33	90.9	5.499	335.6	16.22	12.61
111	2007	326	2000	56.53	91.1	4.853	343.4	21.31	12.61
111	2007	326	2015	56.49	90.8	4.244	338.3	19.23	12.61
111	2007	326	2030	56.53	88.8	4.708	359	20.53	12.61
111	2007	326	2045	56.84	85.6	5.967	15.29	21.77	12.61
111	2007	326	2100	56.33	70.4	10.55	43.36	24.9	12.61
111	2007	326	2115	53.7	67	9.92	46.71	23.07	12.61
111	2007	326	2130	51.86	63.99	10.46	51.75	23.81	12.61
111	2007	326	2145	50.51	61.95	9.65	42.22	19.45	12.62
111	2007	326	2200	49.58	62.99	9.64	38.08	23.73	12.62
111	2007	326	2215	48.84	63.32	9.73	38.11	23.65	12.63
111	2007	326	2230	48.06	63.49	8.51	50.87	21.64	12.62
111	2007	326	2245	46.82	60.66	10.62	45.47	20.98	12.62
111	2007	326	2300	45.82	59.96	10.12	44.37	23.61	12.61
111	2007	326	2315	45.27	61.06	8.53	48.64	24.26	12.61
111	2007	326	2330	44.71	61.16	8.68	45.19	22.16	12.61
111	2007	326	2345	43.89	62.17	7.38	48.73	24	12.61
111	2007	326	2400	42.88	60.1	8.31	46.9	18.99	12.6
111	2007	327	15	41.55	57.23	11.3	41.4	21.26	12.59
111	2007	327	30	40.44	59.21	10.27	42.56	19.79	12.59

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	327	45	39.57	60.88	8.72	40.78	20.04	12.58
111	2007	327	100	38.94	62.06	7.65	40.87	29.59	12.57
111	2007	327	115	38.55	63.8	5.606	33.44	27.31	12.57
111	2007	327	130	38.37	60.42	7.77	35.6	20.44	12.57
111	2007	327	145	38.44	58.84	10.33	40	24.86	12.56
111	2007	327	200	38.15	58.07	10.05	37.87	25.41	12.55
111	2007	327	215	37.81	58.14	9.97	47.26	21.91	12.55
111	2007	327	230	37.63	60.16	8.97	38.35	19.9	12.55
111	2007	327	245	37.25	61.03	7.31	44.84	21.27	12.54
111	2007	327	300	37.02	60.99	7.56	42.93	19.7	12.54
111	2007	327	315	36.92	59.96	8.24	53.97	31.01	12.53
111	2007	327	330	36.78	58.35	9.79	50.17	22.64	12.53
111	2007	327	345	36.51	58.02	9.01	56.13	19.18	12.53
111	2007	327	400	36.27	56.95	9.77	52.87	22.53	12.53
111	2007	327	415	35.98	57.42	7.75	54.3	21.61	12.52
111	2007	327	430	35.74	58.06	7.3	53.56	22.41	12.53
111	2007	327	445	35.53	57.15	7.56	58.48	24.06	12.52
111	2007	327	500	35.31	56.82	8.13	57.88	16.66	12.52
111	2007	327	515	35.05	56.52	7.84	53.48	21.43	12.52
111	2007	327	530	34.8	57.25	6.313	49.9	22.48	12.51
111	2007	327	545	34.67	57.29	5.449	51.83	28.25	12.51
111	2007	327	600	34.49	58.22	4.96	54.61	21.29	12.52
111	2007	327	615	34.3	58.26	5.379	49.35	23.86	12.52
111	2007	327	630	34.31	57.89	6.327	54.3	21.73	12.52
111	2007	327	645	34.2	58.32	4.849	46.39	19.83	12.52
111	2007	327	700	34.13	58.79	5.427	44.79	23.05	12.52
111	2007	327	715	33.88	59.9	4.333	40.84	23.44	12.52
111	2007	327	730	33.77	60.23	4.943	37.36	19.42	12.55
111	2007	327	745	33.68	60.4	4.565	41.6	21.24	12.55
111	2007	327	800	33.6	60.81	4.287	45.17	18.97	12.54
111	2007	327	815	33.63	59.3	5.479	43.84	24.93	12.57
111	2007	327	830	33.85	58.23	4.127	34.61	23.42	12.64
111	2007	327	845	34.26	56.02	4.806	45.44	25.44	12.56
111	2007	327	900	34.76	54.21	5.677	49.99	24.99	12.55
111	2007	327	915	35.13	53.33	7.24	49.88	27.25	12.54
111	2007	327	930	35.43	52.09	6.908	50.7	23.75	12.54
111	2007	327	945	35.39	51.39	6.974	48.73	25.75	12.61
111	2007	327	1000	36.04	50.75	7.17	57.46	25.33	12.68
111	2007	327	1015	36.41	50.18	6.607	53.22	29.07	12.61
111	2007	327	1030	36.51	50.34	7.14	42.55	24.76	12.58
111	2007	327	1045	36.49	50.67	6.843	48.85	25.48	12.6
111	2007	327	1100	36.59	50.77	7.96	48.56	20.55	12.58
111	2007	327	1115	36.54	50.77	6.74	55.67	22.04	12.56
111	2007	327	1130	37.06	49.43	6.35	59.15	25.52	12.56
111	2007	327	1145	37.62	46.62	8.43	54.72	27.81	12.55
111	2007	327	1200	38.01	47.19	7.45	55.05	32.66	12.56
111	2007	327	1215	38.55	46.78	8.47	58.34	22.67	12.55
111	2007	327	1230	38.39	46.95	8.89	47.31	25.22	12.55
111	2007	327	1245	38.2	47.65	7.07	48.5	27.71	12.55
111	2007	327	1300	38.51	47.32	8.05	42.19	26.94	12.55
111	2007	327	1315	38.47	47.55	8.13	40.41	25.94	12.55
111	2007	327	1330	39.37	44.03	7.84	52.42	30.04	12.55
111	2007	327	1345	38.77	43.3	7.65	63.78	27.86	12.55
111	2007	327	1400	39.31	42.96	8.73	57.05	28.52	12.54
111	2007	327	1415	39.05	42.36	7.59	30.45	24.01	12.54
111	2007	327	1430	39.78	38.91	8.12	44.45	27.56	12.54
111	2007	327	1445	39.72	41.89	8.78	46.52	29	12.54
111	2007	327	1500	39.46	42.26	9.85	43.53	24.12	12.54
111	2007	327	1515	39.58	40.82	8.51	48.03	25.23	12.54
111	2007	327	1530	40.11	38.04	8.08	64.99	21.9	12.54

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	327	1545	39.8	37.07	8.89	64.03	24.61	12.54
111	2007	327	1600	39.91	37.3	8.13	64.31	24.9	12.54
111	2007	327	1615	39.31	36.47	9.35	50.59	18.44	12.54
111	2007	327	1630	39.17	36.53	7.52	48.63	23.08	12.54
111	2007	327	1645	38.88	36.74	6.859	47.12	21.8	12.54
111	2007	327	1700	38.57	36.3	7.95	47.95	26.54	12.54
111	2007	327	1715	38.14	37.94	7.39	50.03	23.83	12.54
111	2007	327	1730	37.5	36.8	7.55	54.08	21.32	12.54
111	2007	327	1745	36.98	38.11	5.729	38.28	20.62	12.53
111	2007	327	1800	36.53	34.73	5.624	40.3	20.88	12.53
111	2007	327	1815	36.29	34.23	6.031	43.63	26.03	12.53
111	2007	327	1830	35.92	35.24	4.49	39.35	23.27	12.54
111	2007	327	1845	35.3	39.26	4.718	29.05	16.42	12.54
111	2007	327	1900	35.13	40.17	5.608	31.71	20.32	12.53
111	2007	327	1915	34.76	41.88	4.204	34.76	21.58	12.54
111	2007	327	1930	34.4	40.64	5.302	36.69	19.13	12.54
111	2007	327	1945	34.14	40.23	5.272	31.46	20.13	12.54
111	2007	327	2000	33.84	38.56	4.847	37.53	22.76	12.54
111	2007	327	2015	33.75	37.39	6.049	41.84	18.99	12.54
111	2007	327	2030	33.48	37.62	4.758	41.69	20.74	12.54
111	2007	327	2045	33.08	39.5	4.273	35.97	22.21	12.54
111	2007	327	2100	32.64	39.7	3.551	25.58	18.28	12.54
111	2007	327	2115	32.34	39.94	4.293	24.65	20.94	12.54
111	2007	327	2130	31.99	40.95	4.121	36.15	23.38	12.54
111	2007	327	2145	31.47	41.69	3.626	36.85	15.42	12.54
111	2007	327	2200	31.08	42.36	3.89	39.06	16.46	12.53
111	2007	327	2215	30.96	39.95	4.597	36.33	16.45	12.54
111	2007	327	2230	30.77	39.48	3.894	25.43	21.94	12.54
111	2007	327	2245	30.56	38.67	2.748	32.78	23.45	12.54
111	2007	327	2300	30.22	38.57	2.197	66.57	39.19	12.53
111	2007	327	2315	29.94	38.87	2.743	24.36	20.22	12.53
111	2007	327	2330	29.54	38.61	2.61	20.78	16.64	12.52
111	2007	327	2345	29.13	39.04	2.544	26.44	16.99	12.53
111	2007	327	2400	29.3	37.3	3.49	53.08	22.89	12.53
111	2007	328	15	29.33	36.13	3.872	56.23	24.13	12.52
111	2007	328	30	29.26	35.42	4.365	52.68	23.19	12.53
111	2007	328	45	29.23	34.92	4.947	54.42	20.32	12.52
111	2007	328	100	29.05	35.63	5.01	49.6	20.6	12.52
111	2007	328	115	28.91	36.73	4.627	49.05	25.38	12.51
111	2007	328	130	28.72	37.4	4.46	51.69	22.58	12.51
111	2007	328	145	28.4	39.35	3.642	50.15	22.85	12.51
111	2007	328	200	28.12	40.92	4.454	42.87	19.51	12.51
111	2007	328	215	27.89	42.53	3.853	41.45	18.96	12.52
111	2007	328	230	27.58	43.97	3.672	48.64	17.38	12.51
111	2007	328	245	27.31	45.22	3.124	48.35	21.06	12.5
111	2007	328	300	27.14	46.29	3.122	27.71	18.63	12.5
111	2007	328	315	26.96	47.16	2.985	30.17	16.55	12.5
111	2007	328	330	26.69	48.17	3.195	38.74	15.98	12.5
111	2007	328	345	26.45	50.52	3.08	33.44	16.11	12.49
111	2007	328	400	26.05	51.73	2.832	26.35	18.98	12.5
111	2007	328	415	25.84	53.54	2.544	23.91	17.84	12.5
111	2007	328	430	25.39	55.18	2.349	29.09	19.34	12.49
111	2007	328	445	25.22	55.72	3.334	36.41	14.85	12.5
111	2007	328	500	25.21	56.55	2.667	18.64	22.79	12.5
111	2007	328	515	24.37	60.44	2.334	330.9	16.58	12.51
111	2007	328	530	23.71	61.68	2.536	355.9	17.54	12.66
111	2007	328	545	24.18	62.69	2.997	350	17.06	12.96
111	2007	328	600	23.92	64.03	2.643	2.363	13.74	13.07
111	2007	328	615	23.96	64.44	2.224	14.04	14.88	12.99
111	2007	328	630	23.86	64.7	2.121	41	19.86	12.85

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	328	645	23.19	68.56	1.793	6.672	14.83	12.8
111	2007	328	700	22.93	68.56	1.796	12.93	20.61	12.79
111	2007	328	715	22.35	70.7	0.937	50.1	10.31	12.81
111	2007	328	730	22.25	71	1.681	336.8	41.49	12.82
111	2007	328	745	21.31	74.8	1.174	335.1	27.19	12.88
111	2007	328	800	20.69	76.3	0.788	325.3	13.09	12.89
111	2007	328	815	20.79	77.9	1.411	3.545	10.9	13.25
111	2007	328	830	21.98	72.7	2.667	2.88	14.56	13.36
111	2007	328	845	23.99	68.07	2.34	19.76	20.91	13.19
111	2007	328	900	25.28	63.27	2.786	28.47	18.97	13.2
111	2007	328	915	26.26	60.28	3.021	47.87	23.48	13.43
111	2007	328	930	26.99	59.34	3.392	63.81	28.89	13.19
111	2007	328	945	27.53	59.83	3.152	57.16	33.44	13.31
111	2007	328	1000	28.25	58.65	4.653	74.1	22.59	13.28
111	2007	328	1015	28.58	54.89	5.596	56.7	30.45	13.47
111	2007	328	1030	29.34	53.72	5.044	81.4	33.87	13.47
111	2007	328	1045	29.71	52.11	6.104	69.98	30.42	13.4
111	2007	328	1100	30.07	49.99	5.783	75.5	24.1	13.35
111	2007	328	1115	30.17	49.55	5.79	66.57	26.59	13.47
111	2007	328	1130	30.82	50.15	5.266	68.57	35.01	13.19
111	2007	328	1145	30.8	45.09	4.548	58.65	29.18	13.2
111	2007	328	1200	31.59	44.69	3.91	70.4	32.41	13.21
111	2007	328	1215	32.15	42.35	3.745	63.81	41.89	13.2
111	2007	328	1230	33.04	43.98	4.226	95.6	32.82	13.27
111	2007	328	1245	33.44	39.89	3.688	70.6	65.29	13.54
111	2007	328	1300	33.85	36.97	4.18	78.2	42.23	13.53
111	2007	328	1315	33.89	35.67	4.033	28.96	37.75	13.54
111	2007	328	1330	34.23	38.18	3.311	354.3	42.87	13.55
111	2007	328	1345	34.32	36.17	4.732	4.902	41.46	13.56
111	2007	328	1400	34.88	32.45	3.96	56.19	43.93	13.02
111	2007	328	1415	35.33	33.76	3.938	5.432	60.25	12.89
111	2007	328	1430	35.52	32.79	4.659	26.08	29.49	12.84
111	2007	328	1445	35.69	39.72	4.136	356.3	45.12	12.82
111	2007	328	1500	35.6	41.06	5.066	315.5	31.26	12.8
111	2007	328	1515	36.21	39.78	4.228	310.7	31.26	12.79
111	2007	328	1530	36.67	40.76	3.652	309.7	35.15	12.77
111	2007	328	1545	36.5	44.84	5.062	291.7	31.92	12.74
111	2007	328	1600	36.27	46.01	4.613	287.8	34.35	12.74
111	2007	328	1615	36.13	45.28	4.041	297.4	29.67	12.73
111	2007	328	1630	36.09	44.78	4.087	285.7	33.65	12.72
111	2007	328	1645	35.62	46.15	4.335	296.3	27.06	12.72
111	2007	328	1700	35.23	45.75	4.125	313.3	28.8	12.71
111	2007	328	1715	34.72	45.48	3.459	304.9	21.87	12.71
111	2007	328	1730	33.77	47.23	2.204	307.2	21.66	12.7
111	2007	328	1745	32.95	49.14	1.77	294.7	22.92	12.69
111	2007	328	1800	32.6	50.02	0.358	246.9	12	12.68
111	2007	328	1815	32.58	51.62	1.649	304.5	35.86	12.68
111	2007	328	1830	32.56	51.86	1.432	330.7	15.27	12.68
111	2007	328	1845	32.61	53.61	0.712	314.9	30.54	12.67
111	2007	328	1900	32.66	53.31	0.501	314.2	19.64	12.67
111	2007	328	1915	32.81	52.23	0.1	346.4	12.03	12.66
111	2007	328	1930	32.62	52.57	0.299	296.8	10.43	12.66
111	2007	328	1945	32.59	54.08	0.735	60.32	8.03	12.65
111	2007	328	2000	32.43	58.37	0.402	55.87	3.702	12.65
111	2007	328	2015	31.5	59.38	0.894	26.7	26.32	12.65
111	2007	328	2030	31.75	60.32	0.423	2.398	13.83	12.65
111	2007	328	2045	31.6	60.45	0.029	39.34	4.442	12.63
111	2007	328	2100	32.26	59.31	na	na	na	12.64
111	2007	328	2115	32.48	59.34	0.19	66.02	2.821	12.63
111	2007	328	2130	33.4	56.09	0.961	34.98	16.34	12.63

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	328	2145	33.86	51.8	1.566	65.8	14.52	12.63
111	2007	328	2200	34.16	54.85	0.445	44.49	17.14	12.63
111	2007	328	2215	34.17	53.1	1.958	53.24	12.06	12.62
111	2007	328	2230	34	53.74	1.568	22.29	22.17	12.62
111	2007	328	2245	33.95	52.09	1.921	48.09	17.64	12.61
111	2007	328	2300	34.08	49.41	1.998	41.37	24.25	12.61
111	2007	328	2315	34.25	47.34	2.747	9.52	14.72	12.61
111	2007	328	2330	34.89	42.85	3.938	355.1	18.15	12.61
111	2007	328	2345	35.4	39.2	3.686	358	19.78	12.61
111	2007	328	2400	35.71	37.15	3.31	348.3	24.42	12.6
111	2007	329	15	35.85	37.02	2.981	338.2	20.83	12.6
111	2007	329	30	36.21	34.57	3.825	7.99	15.99	12.59
111	2007	329	45	36.3	35.71	4.228	355	25.57	12.59
111	2007	329	100	36.4	38.26	3.849	341.2	18.39	12.58
111	2007	329	115	36.33	39.46	3.455	336.2	20.63	12.58
111	2007	329	130	36.34	41.68	4.476	341.6	15.13	12.57
111	2007	329	145	36.31	43.99	3.727	358	21.82	12.57
111	2007	329	200	36.19	46.1	3.557	15.12	16.01	12.56
111	2007	329	215	36.06	47.77	2.965	9.18	16.78	12.55
111	2007	329	230	35.75	49.31	2.496	353.1	20.79	12.55
111	2007	329	245	35.57	52.13	3.142	323.2	27.58	12.55
111	2007	329	300	36.03	52.93	4.293	0.02	20.51	12.54
111	2007	329	315	36.12	53.8	4.462	354.9	17.7	12.54
111	2007	329	330	35.73	56.21	3.821	358.1	19.34	12.53
111	2007	329	345	34.86	57.76	2.504	344.6	16.37	12.53
111	2007	329	400	34.25	58.96	1.905	2.985	21.69	12.52
111	2007	329	415	33.94	59.7	1.948	1.251	20.78	12.52
111	2007	329	430	33.55	60.61	2.211	11.88	16.77	12.52
111	2007	329	445	32.98	61.69	1.189	50.16	30.1	12.51
111	2007	329	500	31.76	65.51	0.246	56.84	28.85	12.51
111	2007	329	515	29.83	70.6	0.117	4.635	1.244	12.53
111	2007	329	530	28.87	73.3	0.335	65.6	4.269	12.73
111	2007	329	545	28.59	74.6	0.163	75	4.516	13.22
111	2007	329	600	28.29	75.6	0.493	101.9	5.338	13.81
111	2007	329	615	27.67	77.7	0.157	58.73	8.72	13.79
111	2007	329	630	27.4	78.5	0.374	61.63	12.62	13.79
111	2007	329	645	27	79.3	na	na	na	13.07
111	2007	329	700	26.8	80.9	0.24	60.77	7.44	13.05
111	2007	329	715	26.63	82	0.464	328.7	10.53	13.76
111	2007	329	730	26.23	83.2	0.921	335.6	13.25	13.31
111	2007	329	745	26.78	82.9	2.205	339	16.4	13.75
111	2007	329	800	29.93	71.7	3.841	345.2	13.03	13.73
111	2007	329	815	31.09	70.6	3.725	343.7	14.48	13.73
111	2007	329	830	31.6	69.75	2.824	350.3	15.13	13.71
111	2007	329	845	32.45	66.73	2.254	351.9	20.09	13.71
111	2007	329	900	33.35	65.28	2.588	337.6	16.47	13.7
111	2007	329	915	34.16	63.13	3.086	347.4	15.49	13.69
111	2007	329	930	35	61.45	4.726	352.6	16.86	13.69
111	2007	329	945	35.96	59.03	4.399	1.478	21.28	13.68
111	2007	329	1000	36.88	56.89	4.645	1.83	19.47	13.68
111	2007	329	1015	37.77	54.97	4.653	345.1	22.74	13.68
111	2007	329	1030	39.01	51.15	3.7	0.256	32.58	13.67
111	2007	329	1045	39.75	49.1	4.536	353.1	23.51	13.66
111	2007	329	1100	40.57	48.19	4.679	355.2	24.7	13.64
111	2007	329	1115	41.43	45.41	4.375	353.5	31.84	13.65
111	2007	329	1130	42.46	43.9	3.984	348.7	23.98	13.64
111	2007	329	1145	43.5	48.28	3.674	310.4	44.94	13.64
111	2007	329	1200	44.12	46.6	4.184	281.8	26.74	13.65
111	2007	329	1215	44.44	46.84	4.371	264.8	24.44	13.66
111	2007	329	1230	44.35	45.66	4.583	302.4	32.45	13.66

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	329	1245	45	43.02	4.426	303.3	31.59	13.66
111	2007	329	1300	45.19	45.09	5.177	287.7	23.83	13.66
111	2007	329	1315	45.25	43.89	4.347	292.3	38.14	13.67
111	2007	329	1330	45.31	46.02	4.829	299.8	30.38	13.68
111	2007	329	1345	45.36	48.4	5.516	306.4	31.38	13.71
111	2007	329	1400	44.51	50.54	6.616	313.3	24.12	12.98
111	2007	329	1415	44.54	52.34	6.434	299.1	28.7	12.86
111	2007	329	1430	44.32	52.48	7.45	317.3	27.57	12.81
111	2007	329	1445	44.38	49.84	6.63	317.7	29.12	12.77
111	2007	329	1500	44.31	46.5	7.28	321.9	25.93	12.75
111	2007	329	1515	45.15	38.83	5.792	318.2	26.59	12.73
111	2007	329	1530	45.36	41.01	7.88	330.6	25.19	12.72
111	2007	329	1545	45.49	46.8	5.745	314.4	29.39	12.71
111	2007	329	1600	44.69	49.25	6.587	327.8	26.89	12.69
111	2007	329	1615	44.63	51.59	6.726	325.5	28.69	12.68
111	2007	329	1630	44.53	52.29	5.503	328.6	22.65	12.68
111	2007	329	1645	44.56	52.69	4.359	320.5	23.96	12.67
111	2007	329	1700	44.39	52.13	4.019	316.9	26.67	12.66
111	2007	329	1715	44.06	55.04	3.015	314.1	25.53	12.67
111	2007	329	1730	42.87	58.29	2.03	305.7	24.25	12.66
111	2007	329	1745	41.81	60.74	1.623	301.1	17.25	12.65
111	2007	329	1800	41.11	62.76	1.63	302.6	22.47	12.65
111	2007	329	1815	40.72	65	1.969	316.9	17.43	12.65
111	2007	329	1830	41.03	65.77	2.923	314.6	17.31	12.65
111	2007	329	1845	41.64	66.58	3.223	311.7	26.41	12.65
111	2007	329	1900	42.31	65.3	3.038	312.7	27.17	12.65
111	2007	329	1915	42.9	65.57	3.436	309.2	29.59	12.64
111	2007	329	1930	43.18	64.94	3.547	323.9	22.61	12.63
111	2007	329	1945	43.54	64.43	3.418	321.6	21.9	12.63
111	2007	329	2000	44.12	63.03	4.337	324.1	22.6	12.63
111	2007	329	2015	44.04	65.44	2.949	315.2	26.99	12.63
111	2007	329	2030	43.33	66.38	2.26	325.6	26.71	12.62
111	2007	329	2045	42.47	66.14	0.877	349.2	29.63	12.62
111	2007	329	2100	41.37	68.42	0.424	276	16.29	12.62
111	2007	329	2115	40.15	70.9	na	na	na	12.62
111	2007	329	2130	38.7	74.6	0.096	45.61	7.19	12.61
111	2007	329	2145	38.93	75	0.783	336.3	19.49	12.61
111	2007	329	2200	39.55	73.4	0.598	1.714	20.8	12.61
111	2007	329	2215	38.82	75.7	0.933	357.5	11.63	12.61
111	2007	329	2230	38.39	76.6	2.002	349.5	16.85	12.61
111	2007	329	2245	39.39	74.7	1.002	341.3	23.57	12.61
111	2007	329	2300	39.29	74.9	0.047	303.7	9.2	12.59
111	2007	329	2315	38.99	75.8	0.356	14.98	6.672	12.59
111	2007	329	2330	39.7	74.2	0.009	355.4	0	12.59
111	2007	329	2345	39.77	76.2	0.344	9.52	20.24	12.59
111	2007	329	2400	41.42	73.7	2.418	323	22.14	12.59
111	2007	330	15	44.66	67.66	4.434	329.6	20.11	12.58
111	2007	330	30	45.41	66.24	5.042	336	17.49	12.58
111	2007	330	45	45.44	65.1	3.94	330	23.08	12.57
111	2007	330	100	45.43	64.16	3.555	331.5	18.48	12.57
111	2007	330	115	45.43	65.6	3.706	335.1	19.65	12.57
111	2007	330	130	45.52	65.29	4.339	344.5	17.67	12.56
111	2007	330	145	45.53	66.32	2.2	326.1	40.36	12.56
111	2007	330	200	45.38	67.56	1.588	2.658	19.81	12.55
111	2007	330	215	45.17	68.8	0.639	329.7	36.63	12.55
111	2007	330	230	44.76	71.3	0.422	41.38	47.47	12.55
111	2007	330	245	44.84	73.1	1.714	48.39	11.2	12.55
111	2007	330	300	44.19	78	1.623	73.6	22.13	12.55
111	2007	330	315	43.37	81.7	1.101	73.3	18.41	12.55
111	2007	330	330	42.62	84.1	1.747	95.9	36.36	12.55

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	330	345	42.02	86.1	2.28	114.5	36.26	12.55
111	2007	330	400	41.78	86.9	1.673	117.4	30.02	12.55
111	2007	330	415	41.54	88.3	2.882	119.7	31.24	12.54
111	2007	330	430	41.24	89.4	2.6	97.6	34.44	12.55
111	2007	330	445	40.88	90.4	2.731	116.1	39.45	12.54
111	2007	330	500	40.46	91.1	2.933	123.1	39.99	12.54
111	2007	330	515	40.18	91.5	2.316	108.8	39.08	12.53
111	2007	330	530	39.96	92.1	2.833	100	33.4	12.53
111	2007	330	545	39.85	92.4	2.23	172.1	27.69	12.53
111	2007	330	600	39.95	92.7	2.433	165.6	25.08	12.53
111	2007	330	615	40.11	93.1	1.582	98.7	32.48	12.53
111	2007	330	630	40.26	93.1	1.527	104.3	29.84	12.55
111	2007	330	645	40.25	93.4	1.071	159.8	25.68	12.58
111	2007	330	700	40.43	93.5	1.046	108.5	41.04	12.58
111	2007	330	715	40.56	93.7	1.789	180.3	35.77	12.58
111	2007	330	730	40.68	93.8	2.054	114.2	31.47	12.6
111	2007	330	745	40.81	93.9	2.148	97.5	31.53	12.65
111	2007	330	800	40.88	94.1	2.78	157.8	33.47	12.7
111	2007	330	815	41.1	94.2	3.193	107.4	31.12	12.7
111	2007	330	830	41.28	94.3	2.363	111.7	36.24	12.72
111	2007	330	845	41.47	94.4	2.481	148.2	38.24	12.74
111	2007	330	900	41.7	94.4	2.587	104.2	29.74	12.85
111	2007	330	915	42.01	94.5	2.189	140.5	56.23	12.97
111	2007	330	930	42.3	94.8	4.053	221.8	18.42	13.04
111	2007	330	945	42.73	94.9	3.845	222.6	22.12	13.09
111	2007	330	1000	43.04	95	2.93	225.1	24.01	13.34
111	2007	330	1015	43.27	95.1	2.766	220	27.06	13.17
111	2007	330	1030	43.64	95.3	2.69	230.7	24.71	13.04
111	2007	330	1045	44.13	95.2	2.616	219.8	25.27	12.88
111	2007	330	1100	44.35	95.3	3.314	223.9	21.44	12.82
111	2007	330	1115	44.52	95.3	3.372	219.1	16.18	12.8
111	2007	330	1130	44.89	95.5	2.405	223.2	22.6	12.81
111	2007	330	1145	45.69	95.5	2.389	227.3	31.31	12.91
111	2007	330	1200	46.1	95.5	1.814	259.8	30.03	12.82
111	2007	330	1215	46.11	95.4	2.415	257.1	27.2	13.03
111	2007	330	1230	46	95.4	2.633	253.3	27.67	13.6
111	2007	330	1245	46.24	95.6	1.925	257.1	26.9	13.6
111	2007	330	1300	47.02	95.8	1.672	263.9	22.93	13.59
111	2007	330	1315	47.62	95.8	1.819	249	26.59	13.59
111	2007	330	1330	47.71	95.7	2.336	247.1	24.81	13.19
111	2007	330	1345	47.71	95.7	2.646	239.6	24.65	12.9
111	2007	330	1400	47.84	95.8	1.96	250	24.94	12.84
111	2007	330	1415	48.06	95.7	2.031	252.6	28.2	12.81
111	2007	330	1430	48.02	95.7	2.005	269.1	29.05	12.78
111	2007	330	1445	47.97	95.8	2.488	235.8	22.44	12.76
111	2007	330	1500	48.21	95.8	1.336	261.1	26.09	12.74
111	2007	330	1515	48.15	95.9	1.674	269.4	26.5	12.73
111	2007	330	1530	48.34	95.9	2.017	259.3	20.05	12.72
111	2007	330	1545	48.38	95.9	2.457	274.4	23.71	12.7
111	2007	330	1600	48.5	96	2.526	255.2	21.06	12.69
111	2007	330	1615	48.92	96	2.32	272.7	28.37	12.67
111	2007	330	1630	49.19	96	1.679	283.9	27.56	12.66
111	2007	330	1645	49.35	96	2.325	268.2	23.97	12.65
111	2007	330	1700	49.42	96	2.337	282.2	21.85	12.64
111	2007	330	1715	49.45	96.1	2.669	279.5	32.55	12.63
111	2007	330	1730	49.34	96.1	2.45	272.5	26.99	12.63
111	2007	330	1745	49.3	96.1	2.492	271.3	31.15	12.61
111	2007	330	1800	49.38	96.2	2.862	274.9	22.23	12.6
111	2007	330	1815	49.41	96.1	2.017	268.6	25.75	12.6
111	2007	330	1830	49.52	96.1	1.758	277.9	32.3	12.58

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	330	1845	49.61	96.2	1.699	266.1	23.7	12.58
111	2007	330	1900	49.7	96.2	2.143	249.6	22.48	12.58
111	2007	330	1915	49.47	96.2	2.008	239.8	24.63	12.57
111	2007	330	1930	49.35	96.3	2.465	250	23.35	12.56
111	2007	330	1945	49.51	96.3	1.879	252.3	27.95	12.55
111	2007	330	2000	49.77	96.3	2.58	244.5	23.18	12.55
111	2007	330	2015	49.75	96.3	1.821	246	23.23	12.54
111	2007	330	2030	49.8	96.5	2.566	240.1	19.06	12.53
111	2007	330	2045	50.49	96.5	3.108	239.1	23.73	12.53
111	2007	330	2100	51.26	96.5	3.638	244.5	23.78	12.52
111	2007	330	2115	51.41	96.5	3.213	248.1	32.78	12.52
111	2007	330	2130	51.95	96.6	3.09	297.5	34.37	12.52
111	2007	330	2145	53.18	96.6	4.474	278.8	35.86	12.51
111	2007	330	2200	54.06	96.6	5.876	292.1	29.72	12.51
111	2007	330	2215	54.73	96.5	6.529	286.6	28.84	12.5
111	2007	330	2230	55.42	96.6	7.31	295	29.6	12.49
111	2007	330	2245	55.78	96.6	7.25	301.5	33.37	12.49
111	2007	330	2300	56.11	96.6	9.01	302.5	30.53	12.48
111	2007	330	2315	56.38	96.6	8.9	310.4	23.59	12.48
111	2007	330	2330	56.21	96.5	9.59	315.9	27.74	12.48
111	2007	330	2345	56.04	96.6	8.41	317.4	25.59	12.47
111	2007	330	2400	55.73	96.6	8.7	324.2	23.92	12.47
111	2007	331	15	55.55	96.6	8.55	323.7	25.76	12.46
111	2007	331	30	55.23	96.5	8.6	319.3	24.54	12.47
111	2007	331	45	55.19	96.6	9.12	321.9	22.14	12.46
111	2007	331	100	55.47	96.5	8.43	315.6	30.78	12.45
111	2007	331	115	55.81	96.6	8.66	311	26.43	12.45
111	2007	331	130	56.02	96.6	9.33	310.2	26.86	12.45
111	2007	331	145	56.04	96.6	9.33	308.7	25.37	12.45
111	2007	331	200	55.84	96.6	9.39	310.6	22.48	12.44
111	2007	331	215	55.89	96.6	9.53	310.5	30.21	12.44
111	2007	331	230	55.87	96.5	9.65	311.6	25.13	12.44
111	2007	331	245	55.44	96.5	9.36	316.1	23.22	12.44
111	2007	331	300	55.49	96.6	8.83	316.2	26.64	12.44
111	2007	331	315	55.61	96.5	9.45	323.5	20.68	12.43
111	2007	331	330	55.55	96.5	8.84	322.9	23.83	12.43
111	2007	331	345	55.42	96.6	9	327.4	17.91	12.43
111	2007	331	400	54.8	96.4	9.24	325.6	21.81	12.43
111	2007	331	415	54.39	96.4	8.68	334.3	21.77	12.42
111	2007	331	430	54.64	96.5	8.36	333.2	24.57	12.43
111	2007	331	445	54.95	96.4	6.952	329.6	23.3	12.42
111	2007	331	500	55.16	96.2	5.622	329.1	18.54	12.42
111	2007	331	515	54.82	95.9	3.523	314.1	30.01	12.43
111	2007	331	530	53.82	95.8	3.563	324.5	22.47	12.57
111	2007	331	545	53.35	95.9	3.376	338	25.41	12.57
111	2007	331	600	53.4	95.7	2.862	329	17.17	12.65
111	2007	331	615	53.69	94.7	3.505	341.6	19.06	13.68
111	2007	331	630	54.92	85.5	5.779	342.6	19.98	13.79
111	2007	331	645	56.95	73.2	7.74	346.9	21.48	13.71
111	2007	331	700	58.2	70.4	9.85	339	15.62	13.75
111	2007	331	715	58.4	70.4	8.68	353.1	25.91	13.77
111	2007	331	730	57.97	69.37	8.93	355.3	18.15	13.77
111	2007	331	745	57.84	70.2	9.39	358.8	24.51	13.77
111	2007	331	800	57.33	69.37	8.74	6.145	21.59	13.75
111	2007	331	815	57.15	69	8.45	356.7	24.95	13.75
111	2007	331	830	57.1	67.56	9.17	354.4	26.37	13.75
111	2007	331	845	57.12	66.16	9.14	359.1	25.49	13.75
111	2007	331	900	57.21	64.71	8.07	4.337	21.57	13.74
111	2007	331	915	57.44	62.2	9.44	7.35	24.58	13.73
111	2007	331	930	57.55	61.39	11.27	5.505	23.05	13.73

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	331	945	56.89	63.73	9.54	17.74	19.75	13.72
111	2007	331	1000	55.59	63.37	10.11	25.27	24	13.71
111	2007	331	1015	53.86	64.84	9.25	50.34	21.99	13.7
111	2007	331	1030	52.15	64.21	9.79	43.51	22.25	13.7
111	2007	331	1045	51.5	60.17	10.51	36.41	21.99	13.71
111	2007	331	1100	50.77	58.13	10.71	47.86	22.3	13.7
111	2007	331	1115	50.34	57.09	9.86	41.61	20.72	13.7
111	2007	331	1130	51.23	54.99	9.56	32.47	23.28	13.69
111	2007	331	1145	52.06	54.52	11.26	36.84	20.68	13.69
111	2007	331	1200	51.93	53.55	9.54	45.54	30.11	13.71
111	2007	331	1215	51.47	52.34	11.31	50.86	17.61	13.71
111	2007	331	1230	51.79	52.01	11.28	33.23	20.35	13.71
111	2007	331	1245	51.95	53.05	11.28	35.47	19.45	13.73
111	2007	331	1300	52	48.8	9.27	39.06	26.73	13.73
111	2007	331	1315	52.52	48.59	11.33	32.9	22.55	13.73
111	2007	331	1330	52.34	45.95	10.52	39.61	22.82	13.25
111	2007	331	1345	52.51	45.88	9.26	24.87	25.19	13.76
111	2007	331	1400	52.51	48.18	7.2	54.84	23.93	12.97
111	2007	331	1415	52.02	48.75	8.92	61.3	22.22	12.85
111	2007	331	1430	51.29	48.96	8.58	52.85	22.69	12.81
111	2007	331	1445	51.21	48.39	8.23	49.93	20.84	12.79
111	2007	331	1500	50.78	47.19	7.16	34.19	24.08	12.76
111	2007	331	1515	51.45	40.13	9.02	28.49	24.26	12.74
111	2007	331	1530	51.95	40.53	8.66	23.53	22.82	12.73
111	2007	331	1545	51.96	40.53	9.64	14.39	22.44	12.72
111	2007	331	1600	52.57	38.96	7.14	35.96	25.42	12.71
111	2007	331	1615	52.39	38.19	8.46	28.02	23.16	12.69
111	2007	331	1630	52.09	39.56	7.08	27.03	22.43	12.69
111	2007	331	1645	51.81	40.09	6.843	23.99	28.43	12.68
111	2007	331	1700	51.64	40.39	5.471	26.27	25.71	12.68
111	2007	331	1715	51.05	42.1	6.46	7.62	19.43	12.67
111	2007	331	1730	50.28	44.08	5.372	15.08	19.16	12.67
111	2007	331	1745	49.69	45.65	4.631	7.53	22.32	12.66
111	2007	331	1800	49.24	46.43	4.766	12.62	17.52	12.65
111	2007	331	1815	48.71	48.94	3.803	356.3	22.18	12.65
111	2007	331	1830	48.16	46.97	3.432	5.515	15.39	12.65
111	2007	331	1845	48.08	44.99	4.845	5.354	19.41	12.64
111	2007	331	1900	47.85	46.13	5.429	353.1	23.1	12.64
111	2007	331	1915	47.62	46.53	6.122	350.2	18.93	12.63
111	2007	331	1930	47.41	46.13	7.48	355	18.05	12.63
111	2007	331	1945	47.22	47.37	7.8	356.5	18.61	12.63
111	2007	331	2000	46.79	49.11	7.84	348.5	16.35	12.62
111	2007	331	2015	46.48	49.11	7.3	354.7	16.9	12.61
111	2007	331	2030	46.08	49.58	7.07	356.7	25.15	12.62
111	2007	331	2045	45.77	47.67	6.769	0.599	16.26	12.61
111	2007	331	2100	45.65	46.57	7.48	5.645	16.61	12.6
111	2007	331	2115	45.49	46.44	7.32	3.118	17.43	12.6
111	2007	331	2130	45.27	47.51	7.02	358.6	16.55	12.59
111	2007	331	2145	44.93	48.48	7	351.4	18.14	12.58
111	2007	331	2200	44.64	49.62	6.906	347	18.46	12.58
111	2007	331	2215	44.3	49.89	5.646	352.2	17.74	12.58
111	2007	331	2230	44.07	50.3	6.249	351.3	20.53	12.58
111	2007	331	2245	44.15	50.23	7.67	352	18.67	12.57
111	2007	331	2300	44.02	52.61	6.444	354.9	19.97	12.57
111	2007	331	2315	43.89	52.54	6.283	355.6	19.02	12.57
111	2007	331	2330	44.08	52.21	7.29	354.3	18.45	12.57
111	2007	331	2345	44.3	51.47	9.06	359.2	21.14	12.57
111	2007	331	2400	44.25	52.37	8.27	356.3	17.81	12.56
111	2007	332	15	43.94	53.64	6.406	0.654	19.88	12.56
111	2007	332	30	43.61	54.15	6.38	359.6	19.52	12.55

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	332	45	43.41	53.35	6.654	359.6	16.96	12.55
111	2007	332	100	43.49	52.01	7.61	7.43	17.95	12.54
111	2007	332	115	43.35	52.71	6.922	359.2	19.17	12.53
111	2007	332	130	43.14	52.04	7.05	0.415	16.9	12.53
111	2007	332	145	43.14	51.97	7.14	9.29	17.13	12.53
111	2007	332	200	42.99	52.41	7.38	6.528	16.87	12.52
111	2007	332	215	42.84	52.48	7.31	10.31	15.23	12.51
111	2007	332	230	42.53	53.78	6.763	8.02	18.26	12.51
111	2007	332	245	42.19	54.49	5.568	6.169	17.13	12.5
111	2007	332	300	41.87	53.48	4.998	18.79	20.13	12.49
111	2007	332	315	42.05	48.29	10.8	49.22	17.95	12.48
111	2007	332	330	41.07	45.65	9.19	60.07	23.89	12.47
111	2007	332	345	40.39	40.72	7.27	54.48	29.22	12.46
111	2007	332	400	39.55	38.41	9.47	65.45	26.41	12.46
111	2007	332	415	38.8	37.84	9.47	61.62	22.98	12.46
111	2007	332	430	38.08	38.52	7.79	54.55	23.4	12.44
111	2007	332	445	37.6	39.82	8.08	51.83	25.39	12.44
111	2007	332	500	36.94	40.6	9.03	50.57	20.18	12.43
111	2007	332	515	36.33	41.34	8.14	46.54	19.7	12.43
111	2007	332	530	35.97	43.18	7.71	51.95	18.77	12.72
111	2007	332	545	35.79	43.89	6.95	47.32	20.8	13.52
111	2007	332	600	35.48	45.43	5.165	39.63	26.95	13.86
111	2007	332	615	35.24	45.7	5.667	43.11	22.67	13.86
111	2007	332	630	35.2	46.47	3.998	41.25	27.8	13.85
111	2007	332	645	34.83	47.2	4.293	31.21	15.88	13.11
111	2007	332	700	35.16	47.17	4.355	26.21	23.5	13.1
111	2007	332	715	34.83	47.77	4.504	33.52	21.02	13.85
111	2007	332	730	34.65	49.68	4.742	34.05	21.14	13.85
111	2007	332	745	34.13	51.22	3.823	40.6	19.5	13.85
111	2007	332	800	33.86	52.66	3.471	29.17	24.09	13.85
111	2007	332	815	33.98	53	4.111	36.64	24.92	13.85
111	2007	332	830	34.64	51.96	4.955	45.61	25.66	13.85
111	2007	332	845	35.13	51.59	3.886	49.42	24.58	13.85
111	2007	332	900	35.83	50.25	5.25	53.57	23.71	13.84
111	2007	332	915	36.64	49.01	5.443	52.19	21.54	13.83
111	2007	332	930	37.31	48.47	5.955	62.77	26.28	13.83
111	2007	332	945	37.86	47.67	6.243	68.45	28.77	13.82
111	2007	332	1000	38.34	46.76	6.9	72.9	25.11	13.81
111	2007	332	1015	38.57	46.92	6.372	68.48	26.46	13.8
111	2007	332	1030	39.09	45.71	6.682	56.54	22.91	13.8
111	2007	332	1045	39.09	45.81	8.52	58.5	20.5	13.8
111	2007	332	1100	39.63	45.75	6.894	69.44	28.87	13.79
111	2007	332	1115	40.28	45.41	6.313	80.4	35.52	13.79
111	2007	332	1130	40.59	43.5	5.445	90.9	41.16	13.79
111	2007	332	1145	40.71	44.2	6.867	78	28.69	13.8
111	2007	332	1200	40.97	43.76	6.106	76.5	27.17	13.81
111	2007	332	1215	41.22	43.79	5.953	67.75	32.25	13.81
111	2007	332	1230	40.92	43.59	7.06	54.75	21.24	13.82
111	2007	332	1245	41.12	44.43	6.668	58.33	29.43	13.83
111	2007	332	1300	41.44	42.58	6.209	55.64	28.35	13.84
111	2007	332	1315	41.97	43.45	6.46	66.35	34.77	13.85
111	2007	332	1330	42.33	42.79	5.447	103.6	29.55	13.33
111	2007	332	1345	42.72	42.82	5.572	126.5	33.57	13.02
111	2007	332	1400	42.9	41.31	4.581	92	35.76	12.87
111	2007	332	1415	43.12	40.44	4.788	89.3	37.35	12.8
111	2007	332	1430	43.27	40.44	4.393	100	42.89	12.76
111	2007	332	1445	43.58	42.18	4.119	128.2	36.77	12.74
111	2007	332	1500	43.11	41.08	3.409	93.7	36.36	12.72
111	2007	332	1515	43.36	40.78	3.438	116.7	41.44	12.7
111	2007	332	1530	43.2	41.51	3.17	86.8	49.93	12.68

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	332	1545	43.45	39.5	3.398	99.9	36.6	12.67
111	2007	332	1600	44.06	39.94	2.604	97.9	40.99	12.66
111	2007	332	1615	43.74	40.14	2.579	82.8	36.67	12.66
111	2007	332	1630	43.68	41.78	2.614	122.5	41.72	12.64
111	2007	332	1645	42.78	41.85	2.62	117.7	34.12	12.64
111	2007	332	1700	42.61	43.22	2.786	111.4	25.01	12.63
111	2007	332	1715	42.2	44.16	2.5	115.5	24.86	12.62
111	2007	332	1730	41.42	45.77	2.103	122.5	27.05	12.62
111	2007	332	1745	40.72	48.15	1.395	110.6	26.56	12.61
111	2007	332	1800	40.04	48.76	1.197	115.8	30.5	12.61
111	2007	332	1815	39.59	51.84	1.304	90.2	25.36	12.6
111	2007	332	1830	38.46	55.87	0.745	92.4	79.2	12.6
111	2007	332	1845	37.45	59.42	0.602	22.92	7.11	12.58
111	2007	332	1900	37.31	61.63	0.475	305.4	7.79	12.58
111	2007	332	1915	37.54	60.5	0.746	5.109	33.78	12.57
111	2007	332	1930	37.59	60.97	0.678	277	11.94	12.57
111	2007	332	1945	37.76	60.5	0.793	290.6	17.05	12.57
111	2007	332	2000	38.11	58.65	1.254	245.9	34.67	12.56
111	2007	332	2015	38.9	60.66	0.989	231	30.98	12.56
111	2007	332	2030	39.21	61.6	0.49	240.2	22.4	12.55
111	2007	332	2045	39.43	56.1	0.942	251.9	23.84	12.53
111	2007	332	2100	40.16	56.44	1.762	221.8	20.73	12.53
111	2007	332	2115	40.49	56.9	2.134	228.4	23.39	12.52
111	2007	332	2130	40.52	56.6	2.007	226.1	24.18	12.51
111	2007	332	2145	40.76	58	2.61	236.2	20.41	12.51
111	2007	332	2200	40.72	56.2	2.953	252.2	21.1	12.5
111	2007	332	2215	40.85	56.97	3.231	247.5	29.43	12.5
111	2007	332	2230	40.86	57.5	2.753	293.7	28.8	12.49
111	2007	332	2245	40.96	58.91	3.324	272.4	30.42	12.48
111	2007	332	2300	41	60.11	3.083	286.1	22.68	12.48
111	2007	332	2315	41.06	60.08	3.463	280.5	26.64	12.47
111	2007	332	2330	41.18	61.29	3.312	279	30.16	12.46
111	2007	332	2345	41.28	61.92	3.579	277.9	29.13	12.45
111	2007	332	2400	41.44	62.59	4.049	275.7	24.44	12.45
111	2007	333	15	41.45	63.43	4.246	278.9	27.27	12.44
111	2007	333	30	41.6	64.17	4.2	276.3	35.87	12.43
111	2007	333	45	41.71	64.63	3.688	291.3	28.63	12.42
111	2007	333	100	41.95	64.8	4.293	286.3	29.21	12.41
111	2007	333	115	42.27	65.24	4.605	288.3	29.52	12.41
111	2007	333	130	42.48	65.17	5.28	293.1	18.72	12.4
111	2007	333	145	42.75	65.37	5.586	280.7	27.92	12.4
111	2007	333	200	42.92	65.87	5.344	288.1	26.44	12.39
111	2007	333	215	43.06	65.9	4.915	287	28.32	12.38
111	2007	333	230	43.23	64.86	5.04	281	30.42	12.38
111	2007	333	245	43.4	65.06	5.298	277.5	29.83	12.38
111	2007	333	300	43.52	65.33	4.599	286	33.77	12.37
111	2007	333	315	43.49	65.6	4.681	273.8	27.49	12.37
111	2007	333	330	43.58	65.09	5.705	293.3	31.71	12.37
111	2007	333	345	43.65	66.87	5.004	288.1	27.37	12.36
111	2007	333	400	43.71	67.4	5.413	284.4	32.07	12.36
111	2007	333	415	43.8	67.51	5.109	291.9	30.83	12.36
111	2007	333	430	44.07	68.14	6.303	288.3	25.04	12.36
111	2007	333	445	44.04	68.41	5.574	291.4	31.52	12.36
111	2007	333	500	44.22	67.54	5.927	295.9	30.19	12.35
111	2007	333	515	44.36	68.3	6.007	285.1	27.82	12.35
111	2007	333	530	44.5	68.37	6.019	293.3	30.05	12.34
111	2007	333	545	44.75	68.81	6.311	305.3	30.7	12.34
111	2007	333	600	44.92	68.84	5.405	300.2	31.57	12.34
111	2007	333	615	45.06	69.51	5.707	301.9	31.2	12.34
111	2007	333	630	45.29	68.73	5.217	301.9	31.12	12.35

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	333	645	45.49	68.97	5.681	307.9	26.25	12.35
111	2007	333	700	45.58	69.57	4.909	308.7	26.15	12.34
111	2007	333	715	45.46	70.5	4.275	309.4	29.75	12.33
111	2007	333	730	45.37	71.6	4.786	338	30.07	12.34
111	2007	333	745	44.44	74.8	3.874	3.732	20.57	12.35
111	2007	333	800	43.78	75.2	4.007	354.8	21.63	12.37
111	2007	333	815	43.32	75.8	2.888	338.7	24.51	12.36
111	2007	333	830	42.84	76.7	1.874	295.4	25.02	12.35
111	2007	333	845	42.8	76.9	2.645	288	24.16	12.36
111	2007	333	900	43.1	77.4	2.603	332.4	31.29	12.4
111	2007	333	915	43.57	77.1	2.296	6.785	21.96	12.37
111	2007	333	930	43.92	77.3	2.27	334.1	40.86	12.36
111	2007	333	945	44.37	78.4	1.922	309.2	38.42	12.41
111	2007	333	1000	45.47	79.2	3.884	330.8	22.03	12.37
111	2007	333	1015	46.97	77.5	6.247	324	26.63	12.36
111	2007	333	1030	47.56	78.2	5.908	320.9	24.69	12.36
111	2007	333	1045	47.6	79.5	4.943	328.8	22.36	12.36
111	2007	333	1100	47.6	80.4	4.943	317.7	24.75	12.36
111	2007	333	1115	47.56	81	5.92	327.2	23.61	12.36
111	2007	333	1130	47.57	81.2	5.755	322.7	22.2	12.36
111	2007	333	1145	47.73	79.8	6.043	327.8	26.04	12.36
111	2007	333	1200	48.07	75.6	6.374	325.1	23.2	12.35
111	2007	333	1215	48.61	71.9	6.08	323.4	28.55	12.36
111	2007	333	1230	49.16	68.66	6.775	324.6	25.31	12.35
111	2007	333	1245	49.43	65.75	7.28	322.9	30.34	12.35
111	2007	333	1300	49.32	61.89	8.33	321.8	22.38	12.35
111	2007	333	1315	49.85	58.24	9.1	336.3	24.5	12.35
111	2007	333	1330	48.67	61.08	9.46	339.9	21.83	12.35
111	2007	333	1345	47.7	62.89	10.08	343.3	22.6	12.35
111	2007	333	1400	47.11	64.53	8.66	343	25.77	12.35
111	2007	333	1415	46.71	65.04	6.454	338.5	17.38	12.35
111	2007	333	1430	46.36	66.42	6.799	329.5	22.87	12.35
111	2007	333	1445	46.28	66.65	6.362	338.8	15.91	12.36
111	2007	333	1500	46.74	65.28	6.958	337.4	22.26	12.35
111	2007	333	1515	46.72	65.12	5.159	344.4	23.76	12.36
111	2007	333	1530	47.49	61.37	5.512	333.9	23.07	12.35
111	2007	333	1545	48.41	59.73	5.634	348.4	22.96	12.36
111	2007	333	1600	49.15	57.64	5.177	338.6	30.96	12.35
111	2007	333	1615	49.78	57.53	4.553	327	25.22	12.36
111	2007	333	1630	49.77	60.51	4.248	305	26.72	12.35
111	2007	333	1645	48.8	62.28	5.046	326.6	23.4	12.35
111	2007	333	1700	48.06	60.24	6.114	336.9	20.4	12.36
111	2007	333	1715	47.82	61.99	5.592	339.9	17.21	12.36
111	2007	333	1730	47.26	64.28	5.042	330.4	18.24	12.36
111	2007	333	1745	46.71	66.62	3.735	333.5	20.52	12.36
111	2007	333	1800	46.09	69.03	3.116	325.5	19.09	12.37
111	2007	333	1815	45.7	71.2	3.195	325.5	19.23	12.38
111	2007	333	1830	45.46	72.8	3.215	335.7	15.95	12.38
111	2007	333	1845	45.15	75.1	3.015	324.9	18.52	12.38
111	2007	333	1900	44.96	75.7	3.172	332.5	18.33	12.39
111	2007	333	1915	44.97	75.4	2.723	324.8	21.48	12.39
111	2007	333	1930	44.86	75.5	2.806	333.4	22.22	12.39
111	2007	333	1945	44.87	76	3.261	340.6	15.08	12.4
111	2007	333	2000	45.1	73.8	3.827	338.1	17.53	12.39
111	2007	333	2015	46.27	69.65	4.766	332.8	14.92	12.4
111	2007	333	2030	46.87	67.21	4.734	330	20.18	12.41
111	2007	333	2045	47.23	68.38	4.907	335.2	20.58	12.41
111	2007	333	2100	47.21	67.47	5.624	343.7	18.63	12.41
111	2007	333	2115	47.4	65.36	6.336	337.8	17.05	12.41
111	2007	333	2130	47.75	63.04	6.926	346.7	22.11	12.41

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	333	2145	48.23	56.11	7.52	353.8	18.15	12.41
111	2007	333	2200	48.4	55.94	6.958	5.57	19.15	12.41
111	2007	333	2215	47.87	51.86	6.924	10.21	23.09	12.4
111	2007	333	2230	47.36	51.46	6.38	7.86	21.59	12.41
111	2007	333	2245	46.88	45.8	6.529	1.835	17.31	12.41
111	2007	333	2300	46.8	33.34	6.468	9.1	18.39	12.41
111	2007	333	2315	46.59	31.6	6.158	8.76	17.15	12.41
111	2007	333	2330	46.06	29.96	6.638	11.97	23.36	12.41
111	2007	333	2345	45.78	28.12	6.557	23.07	18.52	12.42
111	2007	333	2400	45.35	26.85	7.28	15.89	16.39	12.42
111	2007	334	15	44.87	26.85	6.333	26.26	20.8	12.42
111	2007	334	30	44.05	35.89	5.995	46.71	17.66	12.42
111	2007	334	45	43.17	45.61	6.845	55.02	19.86	12.42
111	2007	334	100	41.93	42.26	7.08	62.48	23.15	12.42
111	2007	334	115	41.01	39.42	7.91	56.55	26.73	12.42
111	2007	334	130	40.3	40.76	6.646	48.95	22.48	12.42
111	2007	334	145	39.75	40.96	6.954	40.64	21.52	12.42
111	2007	334	200	39.3	40.02	8.31	41.78	24.39	12.42
111	2007	334	215	38.86	40.79	7.63	41.26	24.13	12.41
111	2007	334	230	38.35	41.53	7.21	42.04	19.1	12.42
111	2007	334	245	37.85	41.13	6.072	41.5	20.96	12.42
111	2007	334	300	37.64	41.33	6.861	41.23	21.59	12.42
111	2007	334	315	37.28	41.67	6.239	31.93	23.39	12.41
111	2007	334	330	37.13	40.3	6.896	29.51	23.77	12.41
111	2007	334	345	36.97	41.17	6.626	27.06	20.35	12.41
111	2007	334	400	36.58	40.64	6.898	26.46	19.89	12.41
111	2007	334	415	36.43	41.71	7.56	31.92	17.03	12.41
111	2007	334	430	36.18	42.04	5.955	26.69	21.29	12.4
111	2007	334	445	35.9	43.28	5.471	28.74	18.63	12.4
111	2007	334	500	35.69	43.58	5.838	22.18	22.41	12.4
111	2007	334	515	35.63	43.82	5.524	21.39	19.32	12.4
111	2007	334	530	35.42	44.39	5.417	21.53	23.38	12.4
111	2007	334	545	35.21	44.46	5.493	22.53	16.34	12.39
111	2007	334	600	35.21	44.72	5.512	25.99	19.16	12.39
111	2007	334	615	35.08	45.73	5.578	27.48	19.58	12.39
111	2007	334	630	34.96	45.8	6.203	17.87	16.7	12.39
111	2007	334	645	35.16	45.23	5.697	23.63	22.54	12.42
111	2007	334	700	35.61	45.19	5.842	24.61	21.59	12.71
111	2007	334	715	35.73	45.56	5.127	28.59	19.6	13.24
111	2007	334	730	35.51	46.8	6.241	27.76	19.46	13.18
111	2007	334	745	35.28	47.67	5.785	30.61	25.29	13.34
111	2007	334	800	35.02	48.78	4.681	27.35	22.9	13.31
111	2007	334	815	34.96	49.88	5.209	22.13	21.41	13.51
111	2007	334	830	35.15	49.88	4.585	25.75	21.04	13.51
111	2007	334	845	35.24	50.55	3.99	31.41	28.27	13.24
111	2007	334	900	35.11	50.65	4.285	43.25	21.47	13.37
111	2007	334	915	35.37	49.05	5.143	23.39	25.74	13.18
111	2007	334	930	35.95	48.74	5.564	40.87	23.42	13.12
111	2007	334	945	36.18	47.74	6.259	32.86	25.67	13.34
111	2007	334	1000	36.23	46.83	5.703	21.38	24.45	13.08
111	2007	334	1015	36.53	38.69	6.192	35.81	25.1	13.05
111	2007	334	1030	36.97	38.42	4.734	51.87	35.74	13.12
111	2007	334	1045	36.99	39.55	5.248	41.72	25.38	13.1
111	2007	334	1100	36.96	43.57	4.913	17.66	29.27	13.35
111	2007	334	1115	37.19	40.62	6.892	18.88	22.97	13.26
111	2007	334	1130	37.22	38.75	6.605	15.9	22.33	13.13
111	2007	334	1145	37.68	36.57	6.807	17.1	24.21	13.07
111	2007	334	1200	37.76	33.76	6.265	12.56	20.69	13.02
111	2007	334	1215	38.16	35.3	6.648	27.76	33.56	12.92
111	2007	334	1230	37.95	34.32	7.8	5.269	21.91	12.87

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	334	1245	38.2	32.31	6.499	0.206	21.65	12.84
111	2007	334	1300	38.37	31.31	7.39	19.09	23.33	12.82
111	2007	334	1315	38.98	32.88	6.581	353.4	23.79	12.8
111	2007	334	1330	39.43	37.57	6.37	356.8	29.93	12.79
111	2007	334	1345	39.13	33.42	7.02	338.4	35.02	12.83
111	2007	334	1400	39.52	31.61	7.46	350.4	26.15	12.8
111	2007	334	1415	40.06	33.68	6.968	2.032	24.82	12.77
111	2007	334	1430	40.33	32.41	7.26	347.7	25.44	12.75
111	2007	334	1445	40.65	42.82	6.843	356.3	30.68	12.74
111	2007	334	1500	39.9	44.06	7.97	316	25.98	12.73
111	2007	334	1515	40.04	43.73	6.877	323.5	24.19	12.73
111	2007	334	1530	39.91	45.17	8.06	336.3	22.83	12.71
111	2007	334	1545	39.44	44.67	9.29	329.3	18.37	12.71
111	2007	334	1600	39.56	44.7	7.34	327.7	25	12.71
111	2007	334	1615	39.61	43.57	7.6	337.2	21.51	12.69
111	2007	334	1630	39.47	43.67	8.15	334.8	21.02	12.69
111	2007	334	1645	38.98	44.31	7.66	335.1	21.92	12.68
111	2007	334	1700	38.88	45.24	6.98	353	20.74	12.68
111	2007	334	1715	38.78	45.58	7.4	344.9	19.62	12.67
111	2007	334	1730	38.41	46.92	6.859	340.2	18.14	12.67
111	2007	334	1745	38.3	47.76	7.06	337.6	15.53	12.66
111	2007	334	1800	38.09	47.93	6.134	337.1	17.83	12.66
111	2007	334	1815	37.98	48.87	5.227	340.3	19.82	12.65
111	2007	334	1830	37.71	50.91	4.526	342.9	15.89	12.65
111	2007	334	1845	37.53	51.58	4.734	337.6	18.92	12.64
111	2007	334	1900	37.64	50.72	5.868	336.8	17.47	12.64
111	2007	334	1915	37.85	50.42	5.864	336	19.39	12.63
111	2007	334	1930	37.9	51.02	5.9	336.2	15.75	12.63
111	2007	334	1945	38.07	51.66	6.106	342	19.12	12.63
111	2007	334	2000	37.99	51.22	5.852	336.5	19.74	12.62
111	2007	334	2015	38.09	50.52	5.955	333.5	19.12	12.61
111	2007	334	2030	38.14	51.15	6.348	350.8	19.94	12.61
111	2007	334	2045	38.3	51.29	7.87	353.1	18.45	12.61
111	2007	334	2100	38.38	49.48	7.43	350.2	13.64	12.6
111	2007	334	2115	38.3	49.78	7.78	344	20.24	12.6
111	2007	334	2130	38.35	49.37	7.8	347.6	20.52	12.59
111	2007	334	2145	38.24	46.96	7.56	355.3	18.41	12.58
111	2007	334	2200	38.05	47.77	6.221	354.2	23.27	12.57
111	2007	334	2215	37.7	49.75	5.739	358.3	16.5	12.57
111	2007	334	2230	37.5	50.95	6.283	357.2	16.16	12.58
111	2007	334	2245	37.53	52.33	6.591	356	18.8	12.57
111	2007	334	2300	37.22	52.96	5.614	351.5	21.3	12.56
111	2007	334	2315	37.21	52.56	6.43	351.5	24.76	12.56
111	2007	334	2330	36.95	52.9	6.053	354	15.91	12.56
111	2007	334	2345	36.55	52.9	5.717	348.9	17.63	12.56
111	2007	334	2400	36.43	51.36	6.4	344.9	21.99	12.55
111	2007	335	15	36.42	50.82	6.68	342.3	17.43	12.55
111	2007	335	30	36.42	50.22	5.935	358.5	18.07	12.54
111	2007	335	45	36.56	49.31	6.454	351.4	18.19	12.54
111	2007	335	100	37.1	48.51	7.16	1.476	17.15	12.54
111	2007	335	115	37.65	49.35	7.1	359.9	16.42	12.53
111	2007	335	130	37.85	48.78	7.14	355.6	18.54	12.53
111	2007	335	145	38.02	46.63	8.52	350.1	19.89	12.53
111	2007	335	200	38	45.39	7.66	353.7	17.89	12.53
111	2007	335	215	38.17	44.49	8.56	354.1	19.34	12.53
111	2007	335	230	38.53	43.01	8.43	359	20.78	12.52
111	2007	335	245	39	43.25	10.16	355.5	18.18	12.51
111	2007	335	300	38.79	44.38	8.75	352.7	17.62	12.51
111	2007	335	315	38.49	44.48	8.5	6.334	15.89	12.52
111	2007	335	330	38.17	42.61	6.968	6.148	19.88	12.52

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	335	345	38.12	41.84	7.17	3.428	18.75	12.52
111	2007	335	400	37.82	42.14	5.995	4.498	18.46	12.51
111	2007	335	415	37.54	42.11	6.279	19.41	20.91	12.5
111	2007	335	430	37.3	46.1	6.545	47.2	20.97	12.51
111	2007	335	445	36.61	50.15	8.22	43.38	20.19	12.51
111	2007	335	500	35.92	53.94	7.34	41.95	22.41	12.5
111	2007	335	515	35.29	56.15	4.718	46.61	19.96	12.51
111	2007	335	530	34.69	57.82	3.632	41.15	15.77	12.5
111	2007	335	545	34.44	57.92	4.955	29.16	18.49	12.5
111	2007	335	600	34.13	59.26	2.834	48.47	16.58	12.5
111	2007	335	615	33.77	55.41	4.907	44.29	17.07	12.52
111	2007	335	630	33.95	53.1	6.833	35.38	24.53	12.52
111	2007	335	645	33.57	51.12	5.753	44.62	20.1	12.52
111	2007	335	700	32.97	47.31	7.17	40.01	24.54	12.53
111	2007	335	715	32.38	44.59	8.06	45.17	25.31	12.55
111	2007	335	730	31.96	42.75	7.49	41.58	19.44	13.3
111	2007	335	745	31.6	41.78	7.63	33.79	18.59	13.33
111	2007	335	800	31.23	40.88	9.04	30.56	21.54	13.63
111	2007	335	815	30.82	40.58	8.85	39.7	22.39	13.85
111	2007	335	830	30.64	38.33	10.81	40.74	20.14	13.87
111	2007	335	845	30.55	38.74	10.37	40.53	21.77	13.86
111	2007	335	900	30.58	37.66	8.68	40.2	22.14	13.84
111	2007	335	915	30.76	34.92	9.16	45.6	27.15	13.84
111	2007	335	930	30.74	34.41	11.23	46.79	22.43	13.84
111	2007	335	945	30.8	34.64	10.72	40.25	30.75	13.84
111	2007	335	1000	30.76	34.71	11.73	53.81	24.91	13.84
111	2007	335	1015	30.97	34.54	10.45	53.33	23.09	13.84
111	2007	335	1030	31.11	34.1	11.08	48	21.81	13.84
111	2007	335	1045	31.22	34.64	11.29	37.21	23.93	13.84
111	2007	335	1100	31.2	34.04	10.45	47.7	25.11	13.85
111	2007	335	1115	31.24	34.47	11.05	60.8	22.05	13.85
111	2007	335	1130	31.31	34.14	10.55	64.17	21.26	13.86
111	2007	335	1145	31.53	33.84	10.83	51.3	27.27	13.85
111	2007	335	1200	31.73	34	10.29	50.42	23.53	13.85
111	2007	335	1215	32.25	33.03	9.59	55.58	22.62	13.81
111	2007	335	1230	32.52	32.93	9.86	53.7	23.77	13.85
111	2007	335	1245	32.98	32.56	9.72	55.23	28.98	13.84
111	2007	335	1300	33.62	32.06	9.24	75	27.87	13.61
111	2007	335	1315	33.76	32.19	9.29	54.24	19.45	13.1
111	2007	335	1330	33.95	32.16	8.78	56.58	27.76	13.04
111	2007	335	1345	33.96	32.66	8.36	49.18	23.49	12.87
111	2007	335	1400	34.02	33.16	8.09	53.96	31.45	12.82
111	2007	335	1415	34.71	37.48	7.39	73.4	28.01	12.77
111	2007	335	1430	34.11	35.06	8.46	82.5	35.09	12.76
111	2007	335	1445	33.68	35.2	7.96	81.1	28.3	12.74
111	2007	335	1500	33.74	29.77	7.84	70.2	25.93	12.72
111	2007	335	1515	33.34	35.97	7.56	83.8	30.91	12.71
111	2007	335	1530	33.32	34.93	6.821	90.5	29.01	12.7
111	2007	335	1545	33.13	32.59	7.52	86.8	33.15	12.69
111	2007	335	1600	32.85	31.89	6.17	78.2	28.31	12.67
111	2007	335	1615	32.45	32.56	6.12	92	32.66	12.67
111	2007	335	1630	31.67	31.19	8.68	82.4	25.27	12.66
111	2007	335	1645	31.29	30.18	6.837	72.7	20.52	12.66
111	2007	335	1700	30.87	30.12	7.2	77.1	22.06	12.64
111	2007	335	1715	30.5	30.59	6.485	78.8	22.76	12.63
111	2007	335	1730	30.18	29.75	6.108	70.6	22.91	12.62
111	2007	335	1745	29.88	29.59	5.729	66.1	24.9	12.62
111	2007	335	1800	29.73	30.53	5.524	69.25	25.85	12.62
111	2007	335	1815	29.36	35.72	5.094	85.6	28.94	12.61
111	2007	335	1830	28.83	37.7	4.686	105.7	32.88	12.61

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	335	1845	28.59	37.43	4.657	95.3	28.69	12.6
111	2007	335	1900	28.56	37.27	5.693	100.9	25.34	12.58
111	2007	335	1915	28.25	37.43	6.605	96.2	25.22	12.58
111	2007	335	1930	27.85	38.2	5.191	99.7	25.81	12.58
111	2007	335	1945	27.47	37.5	5.759	99.9	32.08	12.57
111	2007	335	2000	27.1	36.46	6.408	92.9	31.23	12.57
111	2007	335	2015	26.89	36.56	5.796	96.5	27.74	12.56
111	2007	335	2030	26.75	36.6	6.295	96.8	29.53	12.56
111	2007	335	2045	26.55	36.19	4.974	101.4	31.79	12.55
111	2007	335	2100	26.51	35.59	5.89	81	25.52	12.55
111	2007	335	2115	26.26	34.58	6.787	88.7	26.22	12.54
111	2007	335	2130	26.01	35.12	6.076	98.9	26.46	12.54
111	2007	335	2145	25.83	33.78	6.914	93.7	27.59	12.53
111	2007	335	2200	25.69	34.52	5.308	86	28.29	12.52
111	2007	335	2215	25.57	34.32	5.832	85.8	24.45	12.52
111	2007	335	2230	25.32	36.06	5.254	99.7	28.27	12.52
111	2007	335	2245	25.08	36.7	5.282	96.2	27.83	12.5
111	2007	335	2300	24.94	37	5.272	87.5	25.12	12.5
111	2007	335	2315	24.85	37.04	4.436	82.4	25.29	12.5
111	2007	335	2330	24.68	36.74	4.702	78.8	21.68	12.49
111	2007	335	2345	24.48	37.38	3.571	92.8	31.86	12.48
111	2007	335	2400	24.28	36.24	3.569	79	25.96	12.48
111	2007	336	15	24.06	34.39	4.52	66.03	22	12.47
111	2007	336	30	23.85	34.93	4.059	69.98	21.35	12.46
111	2007	336	45	23.64	36.44	3.527	81.1	23.73	12.45
111	2007	336	100	23.43	37.91	3.757	73.2	21.3	12.45
111	2007	336	115	23.21	38.35	3.634	73.3	27.15	12.45
111	2007	336	130	23.08	39.32	3.646	70.6	25.07	12.44
111	2007	336	145	22.98	39.39	4.174	66.73	21.26	12.43
111	2007	336	200	22.92	40.6	2.79	86.8	28.51	12.44
111	2007	336	215	22.91	39.76	3.453	90.9	24.28	12.42
111	2007	336	230	22.99	40.4	4.502	74.8	25.98	12.42
111	2007	336	245	22.92	40.6	4.117	104.8	30	12.42
111	2007	336	300	22.92	40.6	4.323	89.3	28.12	12.42
111	2007	336	315	22.88	41.23	3.134	75.4	29.03	12.42
111	2007	336	330	22.75	40.4	4.26	71.7	24.88	12.42
111	2007	336	345	22.64	40.93	3.9	59.43	21.1	12.41
111	2007	336	400	22.69	40.53	4.152	58	23.73	12.41
111	2007	336	415	22.6	40.4	4.581	69.85	21.64	12.41
111	2007	336	430	22.57	41.13	3.765	77.3	31.23	12.41
111	2007	336	445	22.66	41.8	4.264	75.9	23.95	12.41
111	2007	336	500	22.68	41.43	4.889	80.6	23.51	12.41
111	2007	336	515	22.71	41.2	4.907	77.1	24.02	12.41
111	2007	336	530	22.64	41.87	4.087	93.3	30.38	12.52
111	2007	336	545	22.65	42.44	3.86	89.9	27.83	12.44
111	2007	336	600	22.71	42.54	4.168	86.2	29.85	12.44
111	2007	336	615	22.78	41.6	3.994	81	25.32	12.52
111	2007	336	630	22.79	42.41	4.391	67.43	23.98	12.83
111	2007	336	645	22.9	41.97	3.872	67.36	23.25	13
111	2007	336	700	22.92	42.81	3.414	59.53	27.61	13.27
111	2007	336	715	22.92	43.04	3.561	69.54	27.53	13.89
111	2007	336	730	22.72	51.59	4.99	51.87	22.44	13.88
111	2007	336	745	21.84	62.39	4.448	67.3	31.89	13.88
111	2007	336	800	20.66	78.1	4.087	69.97	26.57	13.31
111	2007	336	815	19.7	83.5	3.261	65.72	22.98	13.31
111	2007	336	830	19.64	84.8	3.082	45.4	21.17	13.87
111	2007	336	845	19.7	85	2.265	53.84	28.97	13.86
111	2007	336	900	19.79	84.5	1.809	73.4	33.48	13.84
111	2007	336	915	20.01	83.6	2.989	113.2	35.03	13.84
111	2007	336	930	19.97	85.3	2.723	123.1	37.07	13.85

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	336	945	20.06	86.5	2.287	90.1	42.1	13.2
111	2007	336	1000	20	86.9	2.923	91.9	30.45	13.28
111	2007	336	1015	20.09	87.3	2.362	79.4	29.48	13.28
111	2007	336	1030	20.42	87.3	3.267	94.5	31.68	13.19
111	2007	336	1045	20.7	87.1	3.221	117.7	29.91	13.06
111	2007	336	1100	21.19	86.7	2.675	125.8	29.19	12.96
111	2007	336	1115	21.62	85.7	2.792	143.6	28.55	12.88
111	2007	336	1130	21.76	85	2.997	168.5	29.48	12.81
111	2007	336	1145	22.18	84.4	1.249	194.3	50.75	12.79
111	2007	336	1200	22.51	83.6	1.168	325.4	65.56	12.76
111	2007	336	1215	22.77	82.8	1.622	315.6	55.03	12.74
111	2007	336	1230	22.92	81.8	1.333	339.8	58.86	12.72
111	2007	336	1245	22.92	82	1.798	310.8	40.53	12.71
111	2007	336	1300	23.65	81.2	0.817	130.2	73.1	12.7
111	2007	336	1315	23.75	81.4	1.328	182.7	43.66	12.68
111	2007	336	1330	23.91	81.5	1.241	164	55.49	12.66
111	2007	336	1345	24.11	81.9	1.428	167.7	40.54	12.66
111	2007	336	1400	24.44	81.5	1.692	169	30.28	12.65
111	2007	336	1415	24.54	81.7	1.823	145.8	51.25	12.64
111	2007	336	1430	24.84	81.4	1.149	158	44.52	12.63
111	2007	336	1445	24.88	82	2.524	144.1	31.85	12.63
111	2007	336	1500	25.04	82.7	3.275	141.1	35.9	12.61
111	2007	336	1515	25.24	83	3.31	149.6	26.82	12.61
111	2007	336	1530	25.45	83.2	3.567	139.6	28.4	12.6
111	2007	336	1545	25.68	82.8	3.398	133.2	25.49	12.59
111	2007	336	1600	25.78	82.9	3.142	138.9	23.16	12.59
111	2007	336	1615	25.87	83.3	3.088	135.1	27.47	12.57
111	2007	336	1630	26	83.8	2.87	128.9	32.79	12.57
111	2007	336	1645	26.1	84.5	2.453	128.4	30.09	12.56
111	2007	336	1700	26.25	85.1	2.629	143.3	30.41	12.56
111	2007	336	1715	26.5	85.2	3.001	151.2	32.32	12.56
111	2007	336	1730	26.71	85.6	3.71	152.1	33.38	12.54
111	2007	336	1745	26.96	85.8	2.5	133.8	31.39	12.53
111	2007	336	1800	27.13	86	3.036	140.8	28.59	12.53
111	2007	336	1815	27.2	86.2	3.086	130.4	21.85	12.52
111	2007	336	1830	27.34	86.4	2.723	126.8	33.02	12.51
111	2007	336	1845	27.65	86.7	2.6	120.4	38.29	12.5
111	2007	336	1900	28.01	86.7	2.854	133.3	25.51	12.5
111	2007	336	1915	28.3	87.1	2.641	119.9	29.93	12.49
111	2007	336	1930	28.62	87.2	2.606	145.2	32.89	12.47
111	2007	336	1945	28.96	87.3	1.97	109.6	37.17	12.48
111	2007	336	2000	29.38	87.3	2.214	120.3	33.24	12.47
111	2007	336	2015	29.76	87.4	1.776	124.4	21.56	12.46
111	2007	336	2030	31.43	91.6	1.35	225.2	63.01	12.45
111	2007	336	2045	37.51	86.7	3.543	264.6	26.48	12.45
111	2007	336	2100	39.55	84.4	4.387	259.1	23.92	12.44
111	2007	336	2115	40.08	83.7	5.173	250.3	25.17	12.44
111	2007	336	2130	40.31	84.2	4.99	249.3	24.84	12.44
111	2007	336	2145	40.59	84.8	5.632	252.5	27.02	12.44
111	2007	336	2200	40.84	86.2	5.578	247.8	26.73	12.43
111	2007	336	2215	40.69	88.1	4.369	247	24.35	12.42
111	2007	336	2230	40.76	89.1	4.178	249.5	26.65	12.42
111	2007	336	2245	41.02	89.7	4.647	240.1	24.76	12.42
111	2007	336	2300	41.28	90.6	4.407	240.5	26.51	12.41
111	2007	336	2315	41.42	91.7	4.015	237.8	23.88	12.41
111	2007	336	2330	41.53	92.4	4.011	234.4	21.22	12.41
111	2007	336	2345	41.57	92.8	4.218	242.1	20.4	12.4
111	2007	336	2400	41.84	93	5.719	235.2	23.31	12.4
111	2007	337	15	42.08	93.3	6.211	229.5	25.34	12.4
111	2007	337	30	42.16	93.5	6.38	224.4	19.17	12.39

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	337	45	42.44	93.8	7.09	228.6	21.07	12.39
111	2007	337	100	42.82	94.2	5.644	236.1	26.16	12.39
111	2007	337	115	43.05	94.4	5.888	238.2	24.19	12.38
111	2007	337	130	43.47	94.8	7.29	234.1	20.38	12.38
111	2007	337	145	43.78	94.8	6.041	224.9	23.7	12.38
111	2007	337	200	44.04	95.3	6.263	226.6	17.64	12.38
111	2007	337	215	44.69	95.4	5.761	231.6	20.83	12.37
111	2007	337	230	45.02	95.6	5.856	247	22.27	12.36
111	2007	337	245	45.46	95.7	5.828	244.2	23.29	12.36
111	2007	337	300	45.38	95.5	4.913	252	27.02	12.36
111	2007	337	315	45.31	95.7	3.763	253	27.01	12.36
111	2007	337	330	45.49	95.8	3.672	253.3	27.16	12.35
111	2007	337	345	45.52	95.9	3.571	242.9	24.46	12.35
111	2007	337	400	45.73	96	3.459	257.2	24.5	12.35
111	2007	337	415	46.23	96.1	2.83	242.3	24.8	12.34
111	2007	337	430	46.31	95.9	2.775	232.6	24.48	12.33
111	2007	337	445	46.08	95.9	1.612	256.2	53.67	12.33
111	2007	337	500	45.86	96	2.379	252.1	69.7	12.32
111	2007	337	515	46	96.3	1.986	21.53	63.98	12.33
111	2007	337	530	46.67	96.3	1.655	36.04	24.17	12.6
111	2007	337	545	46.91	96.4	2.125	20.13	23.45	13.01
111	2007	337	600	46.94	96.3	2.713	8.45	25.36	14.01
111	2007	337	615	47.08	96.2	4.79	359	21.27	13.98
111	2007	337	630	46.98	95.8	6.819	359.5	23.91	13.97
111	2007	337	645	46.62	94.3	7.16	2.133	20.48	13.12
111	2007	337	700	46.23	93.7	5.632	351.5	19.06	13.09
111	2007	337	715	45.93	92.7	5.92	355.8	20.24	13.96
111	2007	337	730	45.52	91.7	6.164	2.707	19.49	13.65
111	2007	337	745	45.09	91.7	4.869	1.686	24.08	13.94
111	2007	337	800	44.7	91.5	4.641	349.3	27.34	13.93
111	2007	337	815	44.23	90.8	6.37	344.1	21.16	13.92
111	2007	337	830	43.75	90.2	7.66	0.278	17.38	13.92
111	2007	337	845	43.55	90.5	7.72	359.4	22.18	13.9
111	2007	337	900	43.3	90.3	9.28	357.6	19.07	13.9
111	2007	337	915	43.23	90	8.28	3.887	26.48	13.88
111	2007	337	930	43.43	88.8	7.85	4.988	21.64	13.88
111	2007	337	945	43.6	86.8	9.65	7.58	17.52	13.87
111	2007	337	1000	43.81	85	8.76	17.84	24.99	13.86
111	2007	337	1015	44.48	82.7	7.25	17.62	25.73	13.85
111	2007	337	1030	45.35	77.5	8.25	19.14	19.97	13.84
111	2007	337	1045	46.04	75.3	7.7	24.6	24.49	13.83
111	2007	337	1100	46.73	70.5	10.5	19.11	23.36	13.84
111	2007	337	1115	47.02	67.73	10.72	27.77	18.21	13.83
111	2007	337	1130	47.53	62.54	12.25	23.14	25.07	13.83
111	2007	337	1145	47.97	61.36	10.37	26.89	19.75	13.82
111	2007	337	1200	47.86	59.31	12.59	16.6	27.11	13.83
111	2007	337	1215	48.44	55.56	11.28	23.32	23.8	13.27
111	2007	337	1230	48.01	54.59	14.61	22.29	23.21	13.83
111	2007	337	1245	47	53.18	13.29	17.83	22.58	13.83
111	2007	337	1300	47.31	51.74	16.48	20.44	20.58	13.84
111	2007	337	1315	47.04	51.91	14.27	18.21	21.44	13.84
111	2007	337	1330	46.27	51.92	14.15	15.14	19.08	13.85
111	2007	337	1345	45.96	50.25	14.32	22.31	20.47	13.86
111	2007	337	1400	46.41	45.76	11.98	22.78	21.49	12.98
111	2007	337	1415	46.7	44.76	15.31	23.77	22.48	12.85
111	2007	337	1430	46.6	46.1	12.18	18.31	18.8	12.8
111	2007	337	1445	46	45.16	13.47	17.7	21.83	12.78
111	2007	337	1500	45.81	45.1	11.24	24.58	22.92	12.74
111	2007	337	1515	45.55	45.06	12.33	23.86	23.67	12.72
111	2007	337	1530	45.31	45.73	14.3	17.65	22.65	12.7

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	337	1545	44.83	46.47	12.85	17.17	23.47	12.69
111	2007	337	1600	44.4	49.95	12.07	21.35	23.55	12.68
111	2007	337	1615	43.33	56.71	9.17	39.68	27.15	12.67
111	2007	337	1630	42.19	53.57	12.8	25.46	20.3	12.65
111	2007	337	1645	41.86	49.65	14.97	18.95	20.49	12.64
111	2007	337	1700	41.64	49.32	12.15	19.37	22.94	12.62
111	2007	337	1715	41.26	48.62	13.29	19.6	20.63	12.62
111	2007	337	1730	41.33	47.01	11.01	20.03	20.66	12.61
111	2007	337	1745	41.52	41.12	13	32.68	19.89	12.6
111	2007	337	1800	41.58	37.34	12.71	28.67	24.24	12.6
111	2007	337	1815	41.21	35.46	12.43	28.12	21.39	12.58
111	2007	337	1830	40.79	37.67	11.41	20.7	19.37	12.59
111	2007	337	1845	40.42	40.39	9.27	24.77	19.55	12.57
111	2007	337	1900	39.99	40.86	10.18	16.4	22.68	12.57
111	2007	337	1915	39.71	38.31	11.79	26.45	17.97	12.56
111	2007	337	1930	39.6	39.75	11.1	16.35	21.38	12.56
111	2007	337	1945	39.29	40.19	9.57	22.46	23.69	12.55
111	2007	337	2000	38.96	39.02	10.83	28.48	21.63	12.55
111	2007	337	2015	38.64	38.78	9.54	29.55	23.07	12.54
111	2007	337	2030	38.54	42.16	8.64	30.34	22.52	12.53
111	2007	337	2045	38.54	42.5	8.77	27.61	19.62	12.53
111	2007	337	2100	38.33	42.63	10.15	26.15	20.7	12.52
111	2007	337	2115	37.76	40.22	12.89	23.59	20.15	12.52
111	2007	337	2130	37.05	37.31	12.67	25.92	26.27	12.52
111	2007	337	2145	36.74	39.79	10.84	29.3	23.35	12.51
111	2007	337	2200	36.48	38.99	7.48	26.05	22.79	12.51
111	2007	337	2215	36.17	38.86	9.25	18.24	19.32	12.51
111	2007	337	2230	35.99	39.12	11.21	12.71	20.41	12.5
111	2007	337	2245	35.75	40.23	9.81	15.55	19.28	12.49
111	2007	337	2300	35.47	43.58	8.53	11.96	18.8	12.49
111	2007	337	2315	35.28	45.46	8.88	21.6	21.52	12.49
111	2007	337	2330	34.77	54.04	11.19	33.67	22.73	12.48
111	2007	337	2345	33.71	60.1	10.33	43.01	22.84	12.48
111	2007	337	2400	32.83	54.14	8.37	31.7	24.86	12.47
111	2007	338	15	32.73	61.61	12.36	23.95	19.41	12.47
111	2007	338	30	31.37	61.91	11.79	10.76	20.98	12.47
111	2007	338	45	31.64	59.77	12.23	18.55	17.12	12.47
111	2007	338	100	31.66	48.81	12.32	24.31	21.53	12.47
111	2007	338	115	32	45.4	13.58	22.71	19.29	12.46
111	2007	338	130	32.1	42.32	13.27	25.32	22.68	12.45
111	2007	338	145	32.09	42.28	11.58	27.94	21.62	12.45
111	2007	338	200	32.08	41.65	11.57	22.33	23.59	12.45
111	2007	338	215	32.03	39.74	12.06	25.39	20.4	12.44
111	2007	338	230	31.91	42.18	11.82	22.41	18.67	12.44
111	2007	338	245	31.77	39.7	11.76	25.11	21.61	12.44
111	2007	338	300	31.75	38.16	14.28	28.53	19.73	12.44
111	2007	338	315	31.42	42.22	9.31	31.53	18.85	12.43
111	2007	338	330	31.1	39.1	9.52	31.54	19.1	12.43
111	2007	338	345	30.95	40.11	10.63	29.96	24.96	12.43
111	2007	338	400	30.86	41.35	8.75	30.14	19.91	12.43
111	2007	338	415	30.91	41.05	10.5	24.55	24.03	12.43
111	2007	338	430	30.89	42.22	9.39	33.47	21.54	12.43
111	2007	338	445	30.82	43.23	8.67	36.44	21.16	12.43
111	2007	338	500	30.62	43.93	7.78	31.07	23.43	12.41
111	2007	338	515	30.26	45.34	7.74	43.58	21.08	12.41
111	2007	338	530	30	44.7	7.99	27.57	19.2	12.41
111	2007	338	545	30.03	43.9	8.6	12.61	21.14	12.42
111	2007	338	600	30.26	43.5	9.46	15.27	17.51	12.53
111	2007	338	615	30.23	45.31	8.81	16.95	19.05	12.72
111	2007	338	630	30.22	44.9	10.51	12.73	20.82	12.79

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	338	645	30.17	44.27	10.04	18.68	19.72	12.88
111	2007	338	700	30.46	41.69	12.61	13.1	22.6	12.98
111	2007	338	715	30.37	41.52	11.59	16.11	22.18	12.91
111	2007	338	730	30.37	41.15	9.65	17.97	21.32	12.92
111	2007	338	745	30.44	42.76	11.08	12.74	19.63	13.22
111	2007	338	800	30.48	43.29	10.96	13.12	22.66	13.2
111	2007	338	815	30.45	47.31	9.29	15.55	20.34	13.17
111	2007	338	830	30.39	47.65	10.65	4.831	22.74	13.23
111	2007	338	845	30.31	45.64	12.68	18.61	24.25	13.19
111	2007	338	900	30.39	45.04	13.06	19.72	18.03	13.12
111	2007	338	915	30.52	45.7	10.31	27.96	21.42	13.19
111	2007	338	930	30.54	46.01	12.52	25.06	24.4	13.17
111	2007	338	945	30.42	52.84	12.99	21.42	24.43	13.05
111	2007	338	1000	29.53	59.58	11.82	21.91	20.78	13.05
111	2007	338	1015	28.2	81.1	7.5	43.04	24.1	13.04
111	2007	338	1030	26.79	82.6	8.71	40.07	22.65	12.97
111	2007	338	1045	27.44	76.3	7.65	37.52	23.74	12.94
111	2007	338	1100	28.39	69.97	9.41	26.47	20.65	13
111	2007	338	1115	28.68	65.04	9.94	34.23	21.9	13.01
111	2007	338	1130	29.33	60.85	11	27.92	21.88	12.9
111	2007	338	1145	29.45	59.91	11.78	33.57	19.48	12.83
111	2007	338	1200	29.85	56.36	11.84	24.98	20.33	12.83
111	2007	338	1215	30.7	47.81	11.54	27.25	21.95	12.83
111	2007	338	1230	31.59	44.39	11.66	32.73	23.05	12.79
111	2007	338	1245	31.36	42.35	14.23	29.77	20.02	12.74
111	2007	338	1300	31.42	41.34	12.94	28.74	22.26	12.71
111	2007	338	1315	31.39	42.81	13.08	34.85	21.55	12.69
111	2007	338	1330	31.49	37.55	11.3	38.83	20.64	12.68
111	2007	338	1345	31.76	34.97	11.06	33.9	25.16	12.66
111	2007	338	1400	31.69	33.87	11.1	42.78	22.94	12.65
111	2007	338	1415	31.49	34.74	12.2	42.63	22.17	12.63
111	2007	338	1430	31.48	34.17	10.89	41.12	26.22	12.62
111	2007	338	1445	31.66	33.97	13.1	41.06	26.31	12.6
111	2007	338	1500	31.91	34.64	10.77	34.42	20.51	12.58
111	2007	338	1515	32.03	36.28	14	34.6	22.13	12.57
111	2007	338	1530	31.77	36.31	12.69	38.56	20.71	12.55
111	2007	338	1545	31.83	36.72	13.28	35.44	21.34	12.54
111	2007	338	1600	31.88	36.75	13.37	31.2	21.52	12.53
111	2007	338	1615	31.73	39.13	9.25	43.18	24.08	12.51
111	2007	338	1630	31.38	40.2	9.99	48.81	22.05	12.51
111	2007	338	1645	31.19	39.6	9.38	42.78	24.15	12.5
111	2007	338	1700	31	38.76	11.09	40.77	23.79	12.49
111	2007	338	1715	30.81	38.86	12.76	33.68	19.96	12.48
111	2007	338	1730	30.79	38.5	10.05	34.7	24.01	12.47
111	2007	338	1745	30.78	39.5	10.57	32.36	23.97	12.47
111	2007	338	1800	30.68	39.91	10.86	33.37	21.62	12.46
111	2007	338	1815	30.61	40.31	10.79	29.66	19.43	12.45
111	2007	338	1830	30.48	41.01	10.22	27.12	19.92	12.45
111	2007	338	1845	30.43	40.78	10.68	35.46	20.34	12.44
111	2007	338	1900	30.25	42.79	8.35	32.88	24.93	12.45
111	2007	338	1915	30.08	42.53	8.05	31.85	21.17	12.43
111	2007	338	1930	30.04	42.93	9.14	36.37	22.14	12.43
111	2007	338	1945	29.87	44.1	8.96	30.98	20.47	12.43
111	2007	338	2000	29.68	45.24	9.51	39.72	22.38	12.42
111	2007	338	2015	29.46	46.25	9.08	36.98	22.84	12.42
111	2007	338	2030	29.3	47.39	7.09	36.31	20.76	12.42
111	2007	338	2045	29.15	48.02	8.26	35.3	21.81	12.42
111	2007	338	2100	29.04	48.79	9.05	37.58	17.49	12.41
111	2007	338	2115	28.83	49.56	6.819	34.13	22.79	12.41
111	2007	338	2130	28.7	50.03	6.875	31.11	19.17	12.4

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	338	2145	28.56	50.74	6.309	37.2	21.83	12.41
111	2007	338	2200	28.44	51.37	7.06	34.36	20.32	12.41
111	2007	338	2215	28.28	51.78	7.13	26.46	21.63	12.4
111	2007	338	2230	28.23	52.41	7.28	22.08	22.25	12.4
111	2007	338	2245	28.02	53.28	6.402	29.45	22.33	12.39
111	2007	338	2300	27.97	53.08	7.28	30	20.16	12.4
111	2007	338	2315	27.94	53.49	7.22	31.22	19.05	12.4
111	2007	338	2330	27.83	54.69	6.136	31.18	26	12.4
111	2007	338	2345	27.74	55.56	6.509	29.24	16.86	12.38
111	2007	338	2400	27.69	55.7	7.46	24.07	21.32	12.38
111	2007	339	15	27.67	56.37	6.932	26.56	18.53	12.38
111	2007	339	30	27.51	56.61	6.013	23.69	19.09	12.38
111	2007	339	45	27.32	56.24	6.122	18.33	17.87	12.38
111	2007	339	100	27.24	55.9	5.969	27.55	20.9	12.38
111	2007	339	115	27.12	56.1	5.354	19.41	16.6	12.38
111	2007	339	130	26.99	56.61	5.659	17.83	21.31	12.38
111	2007	339	145	26.89	56.47	5.788	23.56	21.71	12.37
111	2007	339	200	26.89	57.41	5.51	19.75	15.86	12.37
111	2007	339	215	26.8	57.81	5.409	17.1	16.56	12.37
111	2007	339	230	26.59	58.66	4.216	11.55	18.5	12.37
111	2007	339	245	26.37	59.43	3.777	21.85	19.37	12.37
111	2007	339	300	26.21	59.66	4.166	21.26	17.04	12.37
111	2007	339	315	26.2	59.56	3.111	14.83	20.39	12.37
111	2007	339	330	26.03	60	2.832	18.85	18.91	12.36
111	2007	339	345	25.87	60.11	2.911	17.98	16.07	12.36
111	2007	339	400	25.68	60.48	2.371	25.99	25.96	12.36
111	2007	339	415	25.57	60.01	2.939	27.28	24.12	12.36
111	2007	339	430	25.64	59.6	3.225	38.3	19.4	12.35
111	2007	339	445	25.52	59.44	2.747	30.28	20.59	12.35
111	2007	339	500	25.33	59.87	3.648	43.68	21.54	12.35
111	2007	339	515	25.34	59.87	2.304	21.99	20.95	12.35
111	2007	339	530	25.3	59.67	3.634	27.6	20.85	12.35
111	2007	339	545	25.34	59.24	4.722	27.92	19.58	12.36
111	2007	339	600	25.43	59.44	3.541	22.24	22.77	12.36
111	2007	339	615	25.21	59.6	2.686	14.32	32.6	12.35
111	2007	339	630	25.28	60.07	2.876	32.35	20.83	12.35
111	2007	339	645	25.3	59.37	3.304	26.55	21.97	12.48
111	2007	339	700	25.76	58.43	3.135	12.39	18.66	12.62
111	2007	339	715	25.88	58.06	2.208	358.3	28.84	12.79
111	2007	339	730	25.18	60.31	1.285	320.4	26.22	13.32
111	2007	339	745	25.52	58.57	2.191	6.821	25.2	13.38
111	2007	339	800	25.98	58	3.7	11.69	24.03	13.21
111	2007	339	815	26.17	58.57	3.354	9.49	22.82	13.18
111	2007	339	830	26.13	57.69	3.922	6.22	20.75	13.09
111	2007	339	845	26.25	57.36	4.051	23.12	16.01	13.09
111	2007	339	900	26.67	55.91	3.976	9.01	17.24	13.13
111	2007	339	915	26.91	55.41	5.25	18.93	20.68	13.23
111	2007	339	930	27.1	54.3	5.499	27.6	20.78	13.65
111	2007	339	945	27.51	53.99	4.827	20.4	21.37	13.64
111	2007	339	1000	27.99	51.68	5.52	12.85	21.82	13.62
111	2007	339	1015	28.61	50.37	5.663	17.64	22.85	13.39
111	2007	339	1030	29.36	46.88	5.695	19.68	20.99	13.64
111	2007	339	1045	30.03	46.24	6.746	13.23	26.57	13.63
111	2007	339	1100	30.13	46.07	7.22	23.39	23.61	13.62
111	2007	339	1115	30.22	45.93	6.839	25.88	22.47	13.62
111	2007	339	1130	30.34	47.2	6.132	6.313	21.9	13.61
111	2007	339	1145	30.79	45.9	5.453	17.54	29.39	13.62
111	2007	339	1200	31.17	44.12	5.348	41.42	24.84	13.62
111	2007	339	1215	31.63	44.36	5.205	24.72	29.55	13.33
111	2007	339	1230	31.85	43.95	5.314	29.61	27.16	13.33

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	339	1245	31.52	44.69	5.368	17.44	25.16	13.64
111	2007	339	1300	31.8	45.06	3.737	38.19	34.6	13.63
111	2007	339	1315	31.69	45.39	5.082	23.87	25.91	13.64
111	2007	339	1330	31.73	45.76	3.392	19.46	29.77	13.65
111	2007	339	1345	31.97	49.61	4.744	345.2	36.12	13.2
111	2007	339	1400	31.5	52.7	3.64	357.4	38.11	12.93
111	2007	339	1415	31.33	55.85	4.136	28.06	22.75	12.85
111	2007	339	1430	30.47	63.59	4.295	354.9	36.29	12.81
111	2007	339	1445	29.59	71.7	4.438	3.601	27.53	12.78
111	2007	339	1500	28.64	82.4	4.702	9.36	21.87	12.76
111	2007	339	1515	27.94	86.7	4.154	342.9	22.31	12.74
111	2007	339	1530	27.76	89.2	3.596	355.7	22.55	12.73
111	2007	339	1545	27.78	89.5	2.772	359.5	25.82	12.71
111	2007	339	1600	27.81	88.5	4.075	7.1	19.53	12.7
111	2007	339	1615	27.83	88.9	3.765	22.22	21.93	12.68
111	2007	339	1630	27.82	89.1	3.1	0.746	20.39	12.67
111	2007	339	1645	27.67	88.5	3.662	26.15	17.59	12.66
111	2007	339	1700	27.75	87.3	3.575	19.1	20.32	12.65
111	2007	339	1715	27.94	87.1	2.943	24.98	20.67	12.65
111	2007	339	1730	28.09	86.7	2.701	45.46	14.7	12.64
111	2007	339	1745	28.26	86	2.814	61.8	16.26	12.63
111	2007	339	1800	28.36	84.6	3.062	60.73	19.61	12.62
111	2007	339	1815	28.49	83.9	2.89	80.6	25.28	12.62
111	2007	339	1830	28.51	83.6	3.124	50.27	21.49	12.61
111	2007	339	1845	28.51	83.9	3.269	67.99	20.99	12.61
111	2007	339	1900	28.45	84.3	3.036	51.11	25.53	12.6
111	2007	339	1915	28.34	85.3	3.247	53.29	25.72	12.59
111	2007	339	1930	28.3	86	3.231	59.88	20.42	12.58
111	2007	339	1945	28.41	86.5	2.907	59.59	18.73	12.57
111	2007	339	2000	28.46	87	2.294	72.7	25.46	12.57
111	2007	339	2015	28.37	87.8	1.868	68.55	23.15	12.57
111	2007	339	2030	28.43	87.8	2.038	70.5	27.4	12.56
111	2007	339	2045	28.46	87.4	1.778	61.23	26.38	12.56
111	2007	339	2100	28.38	86.9	3.094	48.51	16.99	12.55
111	2007	339	2115	28.44	87	2.459	50.42	23.87	12.54
111	2007	339	2130	28.51	86.6	3.215	54.32	21.87	12.54
111	2007	339	2145	28.6	85.5	3.505	53.52	24.15	12.54
111	2007	339	2200	28.62	84.3	3.531	53.72	17.19	12.53
111	2007	339	2215	28.68	83.4	3.668	54.09	23.18	12.53
111	2007	339	2230	28.67	82.9	4.079	66.01	19.34	12.52
111	2007	339	2245	28.5	81.8	4.311	62.86	22.02	12.52
111	2007	339	2300	28.23	82.8	3.602	50.77	20.41	12.52
111	2007	339	2315	28.18	81.6	3.251	58.06	23.54	12.51
111	2007	339	2330	28.38	77.2	3.05	57.68	17.8	12.51
111	2007	339	2345	28.59	72	3.992	58.3	21.89	12.51
111	2007	339	2400	28.68	69.64	4.297	58.23	19.61	12.51
111	2007	340	15	28.63	69.67	4.21	57.33	21.19	12.51
111	2007	340	30	28.63	69.94	5.03	58.23	21.31	12.51
111	2007	340	45	28.54	69.67	3.588	57.39	23.73	12.52
111	2007	340	100	28.36	69.03	3.279	60.09	20.39	12.51
111	2007	340	115	28.21	68.26	4.363	58	21.47	12.51
111	2007	340	130	27.97	69.4	4.325	54.3	20.04	12.51
111	2007	340	145	27.64	70.6	4.359	53.85	22.17	12.51
111	2007	340	200	27.31	71.9	4.309	54.77	19.52	12.51
111	2007	340	215	27.11	72.7	4.119	47.67	16.43	12.51
111	2007	340	230	26.97	71.6	4.409	61.18	22.07	12.51
111	2007	340	245	26.74	70.9	3.948	60.79	20.89	12.51
111	2007	340	300	26.66	69.18	5.389	61.01	22.16	12.51
111	2007	340	315	26.47	69.21	4.796	69.03	26.03	12.51
111	2007	340	330	26.08	67.51	5.691	72.2	25.05	12.51

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	340	345	25.66	68.11	5.306	76.9	23.6	12.5
111	2007	340	400	25.38	69.15	4.728	83.2	31.64	12.5
111	2007	340	415	25.17	69.26	5.84	80.2	26.57	12.5
111	2007	340	430	25.03	68.92	6.102	77.4	24.86	12.5
111	2007	340	445	24.77	69.29	5.377	72.1	24.78	12.5
111	2007	340	500	24.63	68.99	5.024	78.1	25.95	12.49
111	2007	340	515	24.19	68.96	4.262	79.1	25.9	12.49
111	2007	340	530	23.8	63.99	4.857	72.8	25.18	12.48
111	2007	340	545	23.47	63.32	5.062	66.89	22.76	12.49
111	2007	340	600	23.09	64.93	4.365	59.92	22.34	12.49
111	2007	340	615	22.84	64.7	4.546	59.09	22.71	12.48
111	2007	340	630	22.47	63.43	3.986	57.15	20.27	12.48
111	2007	340	645	22.23	62.83	3.545	60.42	27.91	12.47
111	2007	340	700	21.89	63.63	2.562	46.83	19.65	12.47
111	2007	340	715	21.6	64.24	1.911	58.54	25	12.47
111	2007	340	730	21.49	63.74	3.579	67.66	26.15	12.47
111	2007	340	745	21.57	63.68	4.671	59.24	24.63	12.51
111	2007	340	800	21.25	64.11	4.879	60.09	21.08	12.6
111	2007	340	815	21.02	63.31	4.395	59.14	20.85	12.56
111	2007	340	830	21.09	62.07	4.007	74.4	21.5	12.52
111	2007	340	845	21.59	59.72	4.516	71.2	20.39	12.51
111	2007	340	900	22.16	56.06	4.915	76.4	26.81	12.5
111	2007	340	915	22.71	54.59	5.534	69.17	25.89	12.55
111	2007	340	930	23.31	53.14	5.538	60.43	25.88	12.58
111	2007	340	945	23.57	53.4	5.908	43.29	18.21	12.55
111	2007	340	1000	24.3	49.51	5.8	55.09	23.58	12.53
111	2007	340	1015	24.35	46.63	6.809	45.08	18.18	12.53
111	2007	340	1030	24.73	46.76	6.166	61.74	26.15	12.63
111	2007	340	1045	25.4	46.65	5.318	58.76	33.09	12.59
111	2007	340	1100	25.79	45.21	4.557	42.79	31.96	12.54
111	2007	340	1115	25.87	43.97	5.062	53.63	32.04	12.51
111	2007	340	1130	26.16	44.2	4.268	64.83	29.41	12.52
111	2007	340	1145	26.52	44.97	6.231	50.99	23.06	12.49
111	2007	340	1200	27.09	43.56	5.642	50.08	22.51	12.47
111	2007	340	1215	27.76	44.39	5.016	62.24	31.71	12.46
111	2007	340	1230	28.47	41.18	4.917	47.73	32.69	12.46
111	2007	340	1245	28.92	42.75	5.28	38.31	37.97	12.46
111	2007	340	1300	29.17	41.24	6.865	27.98	33.17	12.45
111	2007	340	1315	29.95	40.34	5.235	42.4	30.43	12.45
111	2007	340	1330	29.79	40.9	5.157	46.5	29.67	12.43
111	2007	340	1345	30.19	39.86	4.903	41.25	32	12.43
111	2007	340	1400	29.91	40.77	5.421	32.44	22.83	12.43
111	2007	340	1415	30.08	41.91	5.084	41.87	22.5	12.42
111	2007	340	1430	30.72	41.84	6.201	64.13	32.73	12.42
111	2007	340	1445	30.76	41.57	7.41	54.5	22.84	12.42
111	2007	340	1500	30.84	41.64	6.08	61.33	21.62	12.41
111	2007	340	1515	30.81	42.28	5.896	74.3	33.95	12.4
111	2007	340	1530	31.43	42.21	4.567	69.18	31.94	12.39
111	2007	340	1545	31.32	41.78	5.624	71.2	27.36	12.39
111	2007	340	1600	31.36	41.41	4.859	59.58	24.68	12.39
111	2007	340	1615	31.69	40.1	4.14	60.49	32.53	12.39
111	2007	340	1630	31.66	41.04	2.993	58.86	31.32	12.38
111	2007	340	1645	31.58	41.78	3.44	56.8	28.89	12.38
111	2007	340	1700	31.29	43.79	2.913	64.85	28.92	12.38
111	2007	340	1715	30.89	43.95	2.026	58.92	31.95	12.38
111	2007	340	1730	29.94	46.57	2.426	37.15	26.79	12.37
111	2007	340	1745	29.46	48.05	2.445	41	20.66	12.37
111	2007	340	1800	29.11	49.43	2.133	14	22.75	12.36
111	2007	340	1815	28.86	50.23	1.234	14.65	12.69	12.36
111	2007	340	1830	28.06	51.44	0.011	352.5	0	12.36

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	340	1845	26.94	58.51	na	na	na	12.35
111	2007	340	1900	26.55	60.83	0.307	347.9	10.4	12.36
111	2007	340	1915	25.91	61.28	0.2	1.663	0.363	12.35
111	2007	340	1930	25.39	63.83	na	na	na	12.35
111	2007	340	1945	25.15	64.13	na	na	na	12.35
111	2007	340	2000	25.49	64.63	0.639	69.25	14.28	12.35
111	2007	340	2015	25.38	66.31	0.757	354.3	36.37	12.34
111	2007	340	2030	24.6	68.32	0.083	51.79	3.252	12.34
111	2007	340	2045	24.27	70.6	na	na	na	12.34
111	2007	340	2100	24.53	70.6	0.889	76.2	11.8	12.34
111	2007	340	2115	24.93	70.7	0.018	35.92	0.057	12.34
111	2007	340	2130	24.14	73.7	0.724	4.441	6.319	12.35
111	2007	340	2145	23.64	74.7	0.327	30.74	3.344	12.34
111	2007	340	2200	23.14	74.9	0.098	353.9	0.532	12.34
111	2007	340	2215	22.78	75.8	0.06	1.352	0.07	12.35
111	2007	340	2230	22.71	77.5	0.171	44.28	5.527	12.34
111	2007	340	2245	22.3	78.6	0.341	68.19	6.057	12.35
111	2007	340	2300	22.67	78.5	0.444	53.92	5.348	12.34
111	2007	340	2315	22.29	79.8	na	na	na	12.34
111	2007	340	2330	21.68	80.8	na	na	na	12.34
111	2007	340	2345	21.38	81.7	na	na	na	12.34
111	2007	340	2400	21.46	82.3	0.574	59.39	12.02	12.34
111	2007	341	15	21.73	82	0.264	54.23	5.061	12.33
111	2007	341	30	21.28	82.3	0.058	55.09	1.326	12.34
111	2007	341	45	20.89	83.1	na	na	na	12.34
111	2007	341	100	20.63	84	na	na	na	12.33
111	2007	341	115	20.44	84.6	na	na	na	12.34
111	2007	341	130	20.21	85.2	na	na	na	12.34
111	2007	341	145	20.43	85.6	0.265	73.8	11.58	12.34
111	2007	341	200	20.68	85	0.366	89.2	12.04	12.33
111	2007	341	215	20.6	84.7	0.103	93.4	6.19	12.34
111	2007	341	230	20.38	84.6	0.056	55.65	1.611	12.34
111	2007	341	245	20.14	84.7	0.131	68.44	3.957	12.34
111	2007	341	300	20.12	84.5	0.12	70.2	2.342	12.34
111	2007	341	315	20.05	84.8	na	na	na	12.33
111	2007	341	330	20.12	84.7	0.009	75.7	0.005	12.33
111	2007	341	345	19.98	85.1	na	na	na	12.33
111	2007	341	400	19.75	85.5	na	na	na	12.33
111	2007	341	415	19.43	85.9	na	na	na	12.33
111	2007	341	430	19.26	86.7	na	na	na	12.33
111	2007	341	445	19.32	86.8	na	na	na	12.33
111	2007	341	500	19.56	87.1	na	na	na	12.33
111	2007	341	515	19.9	87.2	na	na	na	12.33
111	2007	341	530	20.27	86.7	0.136	67.23	9.44	12.33
111	2007	341	545	20.23	86.6	na	na	na	12.33
111	2007	341	600	20.14	86.4	na	na	na	12.33
111	2007	341	615	20	86.7	na	na	na	12.33
111	2007	341	630	20.41	87.2	na	na	na	12.33
111	2007	341	645	21.18	86.6	0.009	125.7	0	12.33
111	2007	341	700	21.84	86	0.056	60.33	9.51	12.33
111	2007	341	715	22.34	84.9	0.39	64.16	8.14	12.33
111	2007	341	730	22.5	84.1	0.524	65.72	9.25	12.33
111	2007	341	745	22.71	83.7	0.113	94.5	11.05	12.33
111	2007	341	800	23.04	83	0.292	90.4	16.06	12.33
111	2007	341	815	23.3	82.7	0.131	63.82	2.62	12.33
111	2007	341	830	23.74	81.5	1.001	69.31	12.51	12.33
111	2007	341	845	24.45	79.9	1.026	88.3	19.7	12.33
111	2007	341	900	25.04	78.5	0.629	63.23	15.2	12.33
111	2007	341	915	25.85	76.8	0.75	34.2	13.09	12.33
111	2007	341	930	26.61	75.4	1.179	49.17	19.77	12.4

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	341	945	27.91	71.4	1.847	46.74	20.75	12.43
111	2007	341	1000	28.55	68.95	2.935	41.88	16.58	12.39
111	2007	341	1015	29.16	68.64	4.101	35.13	15.59	12.36
111	2007	341	1030	29.85	66.66	4.424	22.64	22.58	12.33
111	2007	341	1045	30.35	65.95	3.592	13.8	25.31	12.38
111	2007	341	1100	31.09	63.17	3.271	352.7	33.74	12.36
111	2007	341	1115	31.65	61.46	5.423	5	19.17	12.34
111	2007	341	1130	32.29	58.57	5.584	357.4	22.9	12.34
111	2007	341	1145	32.76	56.96	5.858	1.006	22.44	12.33
111	2007	341	1200	32.92	56.82	6.225	2.662	23.08	12.31
111	2007	341	1215	33.17	56.79	6.225	348.8	22.82	12.3
111	2007	341	1230	33.54	58.26	5.912	0.68	23.38	12.31
111	2007	341	1245	33.96	57.02	6.001	356.9	21.86	12.3
111	2007	341	1300	34.12	57.09	6.992	352.9	24.46	12.3
111	2007	341	1315	34.33	59.33	6.13	352.5	17.86	12.29
111	2007	341	1330	34.63	56.58	6.66	357.9	19.8	12.3
111	2007	341	1345	34.73	56.01	7.07	344.6	25.9	12.29
111	2007	341	1400	34.76	56.35	5.983	344.5	20.08	12.3
111	2007	341	1415	35.13	56.01	6.168	348.1	28.36	12.29
111	2007	341	1430	35.27	56.91	7.11	344.6	18.34	12.29
111	2007	341	1445	35.44	56.34	6.716	348.1	23.71	12.29
111	2007	341	1500	35.54	54.56	6.025	347.4	20.4	12.29
111	2007	341	1515	35.64	51.72	6.744	348.5	25.66	12.29
111	2007	341	1530	35.79	49.81	6.317	343.3	17.77	12.29
111	2007	341	1545	35.87	47.06	6.91	355.1	19.94	12.29
111	2007	341	1600	35.84	46.26	4.837	344.5	27.34	12.29
111	2007	341	1615	35.79	42.27	5.584	353.6	20.79	12.29
111	2007	341	1630	35.81	41.37	4.279	359.2	16.99	12.29
111	2007	341	1645	35.71	42	4.597	1.847	28.75	12.29
111	2007	341	1700	35.55	49.84	5.872	333.7	26.29	12.29
111	2007	341	1715	34.05	60.77	8.05	355.1	28.64	12.29
111	2007	341	1730	33.29	64.29	6.062	2.102	19.03	12.29
111	2007	341	1745	32.74	70	5.107	358.2	19.56	12.29
111	2007	341	1800	32.2	74.3	3.682	8.12	21.96	12.29
111	2007	341	1815	31.63	76.3	3.563	0.627	14.12	12.29
111	2007	341	1830	31.62	75.4	3.428	14.22	26.6	12.29
111	2007	341	1845	31.77	74.7	3.203	13.49	23.54	12.29
111	2007	341	1900	31.84	73.7	2.463	16.19	28.75	12.28
111	2007	341	1915	31.96	72.7	2.772	353	25.18	12.28
111	2007	341	1930	32.16	71.1	2.788	6.061	22.2	12.28
111	2007	341	1945	32.25	70.4	2.439	9.14	21.14	12.28
111	2007	341	2000	32.37	69.95	2.558	10.2	27.65	12.28
111	2007	341	2015	32.51	69.92	2.727	353.8	32.88	12.27
111	2007	341	2030	32.65	69.92	2.899	5.715	20.82	12.27
111	2007	341	2045	32.77	70.4	3.988	0.654	24.46	12.27
111	2007	341	2100	32.87	70.5	3.134	346.1	20.15	12.27
111	2007	341	2115	33.04	70.6	3.162	340.5	18.13	12.27
111	2007	341	2130	33.22	70.8	3.569	341.9	21.19	12.27
111	2007	341	2145	33.33	71.3	3.847	347.4	20.56	12.26
111	2007	341	2200	33.44	71.8	5.127	347.3	19.41	12.26
111	2007	341	2215	33.4	72.7	4.077	349.7	20.6	12.26
111	2007	341	2230	33.42	73.3	4.857	352.6	22.53	12.25
111	2007	341	2245	33.28	73.8	4.542	354.4	16.97	12.25
111	2007	341	2300	33.22	74.4	4.129	348.4	19.43	12.25
111	2007	341	2315	33.2	74.9	3.332	341.3	14.48	12.24
111	2007	341	2330	33.31	76.2	3.638	339.7	20.86	12.24
111	2007	341	2345	33.41	77.2	4.72	346.1	20.97	12.24
111	2007	341	2400	33.38	77.8	4.202	342.1	15.86	12.23
111	2007	342	15	33.47	77.8	4.629	341.1	24.13	12.23
111	2007	342	30	33.6	78.5	5.042	338.3	18.87	12.23

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	342	45	33.65	79	5.103	343.1	18.79	12.23
111	2007	342	100	33.75	79.3	4.238	339.8	24.28	12.23
111	2007	342	115	33.79	79.8	4.397	345	20.92	12.23
111	2007	342	130	33.88	80.3	3.998	340.5	28	12.23
111	2007	342	145	33.82	81.2	3.477	342.5	15.13	12.24
111	2007	342	200	33.76	81.3	2.84	341	18.33	12.23
111	2007	342	215	33.66	81.9	2.576	346	21.92	12.23
111	2007	342	230	33.7	82.2	2.989	345.9	20.58	12.24
111	2007	342	245	33.69	82.5	2.872	342.2	16.07	12.24
111	2007	342	300	33.85	82.3	3.968	347.2	17.74	12.23
111	2007	342	315	33.82	82.5	3.054	344.5	18.88	12.22
111	2007	342	330	33.81	82.6	3.451	348.7	28.12	12.22
111	2007	342	345	33.79	82.6	3.185	2.183	24.35	12.22
111	2007	342	400	33.84	82.5	3.906	353.8	29.8	12.21
111	2007	342	415	33.87	82.6	4.17	1.734	15.13	12.21
111	2007	342	430	33.87	82.8	3.513	10.78	15.88	12.21
111	2007	342	445	33.87	82.5	3.493	19.14	25.43	12.2
111	2007	342	500	33.8	82.7	3.449	357.2	25.53	12.2
111	2007	342	515	33.77	82.4	3.336	4.104	20.23	12.2
111	2007	342	530	33.74	82	3.63	0.349	23.63	12.19
111	2007	342	545	33.78	81	3.459	8.8	18.04	12.29
111	2007	342	600	33.9	80.4	3.334	17.57	18.28	12.56
111	2007	342	615	33.93	80.4	3.473	12.61	19.08	13.17
111	2007	342	630	33.93	80.2	3.305	9.61	18.4	13.48
111	2007	342	645	33.98	79.9	3.698	11.16	25.17	13.06
111	2007	342	700	33.93	80.1	2.949	355.7	21.46	13.04
111	2007	342	715	33.93	80.1	2.421	357.2	18.13	13.7
111	2007	342	730	33.91	80.4	2.068	337.9	21.63	13.29
111	2007	342	745	33.9	80.4	2.121	354.2	19.42	13.64
111	2007	342	800	33.95	80.1	2.034	322.5	18.2	13.63
111	2007	342	815	33.95	80.1	2.189	338.1	26.42	13.62
111	2007	342	830	34.04	79.8	2.524	337.3	16.85	13.62
111	2007	342	845	34.26	78.9	2.892	357.7	23.74	13.61
111	2007	342	900	34.57	78.2	3.271	345	24.2	13.61
111	2007	342	915	34.77	78.2	3.235	355.5	22.82	13.59
111	2007	342	930	35.01	78.3	3.001	2.574	20.88	13.59
111	2007	342	945	35.37	78.1	3.354	347	14.21	13.58
111	2007	342	1000	35.98	77.7	4.142	351.1	21.71	13.58
111	2007	342	1015	36.61	78.1	4.293	353.7	27.26	13.59
111	2007	342	1030	37.46	76.7	5.455	357.9	24.06	13.6
111	2007	342	1045	38.42	75.8	6.624	353.5	25.5	13.13
111	2007	342	1100	39.51	72.7	6.293	1.593	21.89	13.07
111	2007	342	1115	40.23	71.8	5.671	338.1	24.03	13.08
111	2007	342	1130	40.58	69.86	6.386	347.7	23.82	13.09
111	2007	342	1145	40.62	68.49	7.29	352.8	20.14	13.27
111	2007	342	1200	40.5	67.35	6.996	7.67	21.19	13.2
111	2007	342	1215	40.66	66.24	7.07	12.85	20.11	12.95
111	2007	342	1230	40.63	66.17	8.31	8.86	20.29	12.86
111	2007	342	1245	40.76	65.33	6.795	9.54	19.63	12.86
111	2007	342	1300	41.4	63.39	7.33	9.06	24.36	12.81
111	2007	342	1315	42.06	63.28	6.94	11.89	26.23	12.79
111	2007	342	1330	42.24	62.57	6.138	21.57	24.98	12.78
111	2007	342	1345	42.63	62.87	6.221	32.3	21.83	12.77
111	2007	342	1400	42.19	62.24	7.46	30.75	20.74	12.75
111	2007	342	1415	41.94	62.84	8.64	40	23.72	12.74
111	2007	342	1430	41.85	62.84	6.807	37.12	23.41	12.73
111	2007	342	1445	41.69	61.8	7.09	40.9	21.34	12.73
111	2007	342	1500	41.81	60.26	8.08	32.06	22.12	12.71
111	2007	342	1515	41.92	58.25	8.61	32.51	26.21	12.71
111	2007	342	1530	42.01	58.22	9.08	35.36	22.13	12.71

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	342	1545	42.2	57.92	8.05	50.69	23.88	12.7
111	2007	342	1600	42.18	58.69	7.57	31.63	20.6	12.69
111	2007	342	1615	42.14	58.02	7.39	43.05	26.69	12.68
111	2007	342	1630	41.96	58.45	7.85	41.98	18.72	12.68
111	2007	342	1645	41.89	58.66	6.267	43.53	24.66	12.68
111	2007	342	1700	41.76	58.66	6.104	45.18	16.14	12.67
111	2007	342	1715	41.51	59.6	5.735	50.22	16.88	12.67
111	2007	342	1730	41.05	60.31	4.631	38.16	20.32	12.65
111	2007	342	1745	40.64	60.91	3.739	26.34	16.79	12.66
111	2007	342	1800	40.05	61.99	2.572	21.14	21.69	12.66
111	2007	342	1815	39.24	63.96	1.923	15.88	15.33	12.66
111	2007	342	1830	38.83	64.7	2.568	17.27	17.29	12.66
111	2007	342	1845	38.1	65.95	1.984	34.01	13.55	12.66
111	2007	342	1900	37.5	67.16	0.91	10.13	20.12	12.66
111	2007	342	1915	36.27	69.45	0.625	351.2	13.74	12.66
111	2007	342	1930	34.74	74.4	1.456	353.1	19.27	12.66
111	2007	342	1945	34.96	69.78	3.118	8.46	19.43	12.66
111	2007	342	2000	36.54	67.77	2.193	7.64	24.36	12.66
111	2007	342	2015	36.08	68.34	1.936	10.99	20.8	12.66
111	2007	342	2030	36.64	65.09	2.739	23.55	19.35	12.66
111	2007	342	2045	37.07	64.56	2.469	24.35	15.53	12.65
111	2007	342	2100	36.76	65.19	2.542	11.29	23.52	12.65
111	2007	342	2115	35.23	69.41	1.99	354.6	19.31	12.65
111	2007	342	2130	33.55	73.4	1.179	10.04	12.06	12.65
111	2007	342	2145	32.15	76.6	0.518	6.143	18.14	12.65
111	2007	342	2200	31.55	78.4	0.455	27.45	11.02	12.64
111	2007	342	2215	30.96	80.2	0.438	5.557	5.001	12.64
111	2007	342	2230	30.78	81	0.668	26.23	14.61	12.64
111	2007	342	2245	31.15	80.6	1.185	66.68	13.66	12.64
111	2007	342	2300	31.73	80.2	0.708	44.07	28.85	12.63
111	2007	342	2315	31.18	79.8	0.635	50.39	23.33	12.62
111	2007	342	2330	31.4	78.5	0.82	50.66	19.67	12.62
111	2007	342	2345	30.23	80.4	0.531	6.558	15.58	12.62
111	2007	342	2400	29.8	81.6	0.222	35.4	6.146	12.62
111	2007	343	15	30.36	79.2	1.323	65.05	10.96	12.62
111	2007	343	30	30.61	78.4	0.944	50.18	22.11	12.61
111	2007	343	45	30.84	75.1	1.088	61.73	17.78	12.61
111	2007	343	100	31.76	70.3	1.272	30.4	20.59	12.6
111	2007	343	115	31.45	71.6	0.897	27.8	20.72	12.61
111	2007	343	130	31.11	71.2	1.053	52.42	22.63	12.61
111	2007	343	145	30.83	71	0.49	41.2	14.13	12.6
111	2007	343	200	30.13	73.2	0.684	52.29	7.66	12.61
111	2007	343	215	29.79	74.6	1.285	39.45	14.15	12.6
111	2007	343	230	30.23	72.9	1.406	50.1	27.72	12.6
111	2007	343	245	30.76	71.5	0.873	73.9	13.31	12.6
111	2007	343	300	31.44	69.47	1.806	70.4	27.13	12.6
111	2007	343	315	32.08	68.63	1.137	79.8	17.58	12.6
111	2007	343	330	32.37	67.73	1.829	80.6	33.24	12.6
111	2007	343	345	32.55	67.52	1.138	19.1	21.64	12.59
111	2007	343	400	32.41	68.39	0.679	22.07	22.75	12.58
111	2007	343	415	32.35	68.56	0.524	54.73	12.14	12.58
111	2007	343	430	32.26	68.02	1.166	45.75	24.29	12.58
111	2007	343	445	32.18	68.59	0.78	245.7	44.45	12.58
111	2007	343	500	32.04	69.89	0.979	32.68	31.45	12.58
111	2007	343	515	32.2	69.73	0.37	30.52	17.31	12.58
111	2007	343	530	32.42	68.38	1.198	50.96	15.11	12.58
111	2007	343	545	32.7	66.44	1.391	75.6	24.3	12.58
111	2007	343	600	33.13	63.99	1.108	69.29	21.25	12.58
111	2007	343	615	33.23	63.75	0.45	115.8	18.16	12.57
111	2007	343	630	33.03	65.66	0.009	316.5	0	12.57

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	343	645	32.73	69.05	1.05	18.42	34.99	12.58
111	2007	343	700	32.74	71.7	0.195	89.1	5.554	12.58
111	2007	343	715	32.78	72.1	0.186	57.44	21.57	12.57
111	2007	343	730	33.07	68.88	1.041	46.96	15.17	12.58
111	2007	343	745	33.33	67.87	1.075	41.7	19.96	12.66
111	2007	343	800	33.38	69.41	0.353	52.07	13.75	12.68
111	2007	343	815	33.39	70.6	0.655	25.64	10.57	12.66
111	2007	343	830	33.26	71.9	0.126	27.55	3.373	12.66
111	2007	343	845	33.23	71.4	0.181	5.301	2.439	12.61
111	2007	343	900	33.5	73.1	0.146	9.41	13.63	12.71
111	2007	343	915	33.76	70.6	0.672	30.13	27.79	12.82
111	2007	343	930	34.23	68.54	1.371	85.6	44.67	12.82
111	2007	343	945	34.52	65.56	0.105	55.7	2.563	12.87
111	2007	343	1000	34.87	64.99	0.961	82.6	21.75	12.92
111	2007	343	1015	35.12	63.42	1.152	87.6	26.78	13.01
111	2007	343	1030	35.3	63.72	0.62	91.4	25.84	12.98
111	2007	343	1045	35.54	62.61	1.663	87.9	31.23	12.99
111	2007	343	1100	35.9	61.21	0.831	78.3	22.48	13.08
111	2007	343	1115	36.13	60.1	0.555	61.98	18.23	13.09
111	2007	343	1130	36.39	58.22	0.909	131.7	52.74	13.01
111	2007	343	1145	36.39	57.31	1.639	142.5	27.94	13
111	2007	343	1200	36.61	56.1	0.973	121.1	38.07	13.02
111	2007	343	1215	36.78	55.4	0.389	120.2	18.79	12.98
111	2007	343	1230	37.11	55.3	1.045	128.2	43.17	12.89
111	2007	343	1245	37.06	55.49	0.753	76.1	38.63	12.85
111	2007	343	1300	37	55.53	0.637	283.6	28.87	12.79
111	2007	343	1315	37.14	55.49	1.732	243.6	29.07	12.74
111	2007	343	1330	37.12	56.4	1.308	271.8	42.99	12.72
111	2007	343	1345	37.27	55.63	1.118	273.4	23.9	12.69
111	2007	343	1400	37.27	55.46	1.874	226.3	42.95	12.68
111	2007	343	1415	37.05	57.8	2.305	222.8	30.6	12.66
111	2007	343	1430	36.92	60.31	1.387	216.8	23.46	12.64
111	2007	343	1445	37.08	61.15	1.14	144.5	53.93	12.63
111	2007	343	1500	37.27	62.36	0.846	193.3	34.83	12.61
111	2007	343	1515	37.49	62.66	1.619	226.3	42.74	12.61
111	2007	343	1530	37.48	62.73	2.77	206.4	17.7	12.59
111	2007	343	1545	37.27	64.1	2.631	197.3	20.63	12.58
111	2007	343	1600	37.23	65.24	2.183	172.8	30.09	12.57
111	2007	343	1615	37.39	65.51	2.778	140	38.51	12.56
111	2007	343	1630	37.41	66.18	2.715	150.2	24.02	12.55
111	2007	343	1645	37.58	66.55	2.067	146.5	27.96	12.54
111	2007	343	1700	37.6	66.38	2.665	143.2	31.24	12.52
111	2007	343	1715	37.58	66.24	2.099	125	31.92	12.52
111	2007	343	1730	37.48	66.41	2.381	133.7	26.55	12.51
111	2007	343	1745	37.32	66.85	2.788	143.4	20.77	12.5
111	2007	343	1800	37.23	66.75	2.582	133.7	35.52	12.5
111	2007	343	1815	37.15	66.75	3.203	151.2	25.8	12.5
111	2007	343	1830	37.14	67.15	3.024	151.2	28.33	12.49
111	2007	343	1845	37.16	67.42	2.271	131.3	29.7	12.48
111	2007	343	1900	37.14	67.52	2.201	142.6	30.96	12.48
111	2007	343	1915	37	67.36	2.86	129.2	28.21	12.47
111	2007	343	1930	36.96	67.22	3.4	143.8	27.98	12.47
111	2007	343	1945	36.95	67.49	2.735	134	30.19	12.47
111	2007	343	2000	36.95	67.52	2.86	112.9	28.64	12.46
111	2007	343	2015	37.12	70.6	3.04	110.7	27.88	12.46
111	2007	343	2030	36.65	78	2.739	93.5	31.69	12.45
111	2007	343	2045	35.48	82.8	3.934	106.5	28.33	12.45
111	2007	343	2100	34.83	85	3.676	89.5	32.67	12.44
111	2007	343	2115	34.48	87.9	4.742	200.4	28.91	12.44
111	2007	343	2130	34.29	90.4	3.88	208.3	23.9	12.43

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	343	2145	34.63	91.4	2.177	186.8	32.86	12.43
111	2007	343	2200	34.97	91.7	1.911	116.6	41.87	12.41
111	2007	343	2215	34.96	92.2	2.354	156.9	35.68	12.41
111	2007	343	2230	35.29	92.6	2.546	165	37.73	12.4
111	2007	343	2245	35.56	92.7	1.765	156.7	24.38	12.4
111	2007	343	2300	35.85	93.4	1.657	174.4	34.44	12.4
111	2007	343	2315	36.62	93.5	1.799	165.4	31.87	12.4
111	2007	343	2330	37.1	93.5	1.684	94.4	33.29	12.4
111	2007	343	2345	37.18	93.8	0.925	98.6	17.69	12.4
111	2007	343	2400	37.38	93.7	0.781	154.1	23.2	12.4
111	2007	344	15	37.56	93.9	0.125	131	10.59	12.4
111	2007	344	30	37.78	94.1	0.647	104.6	21.89	12.4
111	2007	344	45	38.17	94.1	0.903	81.7	19.36	12.4
111	2007	344	100	38.32	94.1	0.609	114.4	17.34	12.4
111	2007	344	115	38.57	94.3	0.795	85	21.07	12.4
111	2007	344	130	38.75	94.4	2.894	94.3	27.56	12.4
111	2007	344	145	38.71	94.3	2.08	100.7	31.59	12.4
111	2007	344	200	38.4	94.4	2.038	116.1	26.59	12.4
111	2007	344	215	38.04	94.5	1.855	124.2	25.52	12.4
111	2007	344	230	37.96	94.7	1.128	140.8	22.73	12.4
111	2007	344	245	38.13	94.7	1.518	125.5	18.61	12.4
111	2007	344	300	38.32	94.9	1.414	127.9	24.94	12.4
111	2007	344	315	38.45	94.8	1.554	126.7	25.61	12.4
111	2007	344	330	38.49	94.9	2.262	124.1	23.1	12.4
111	2007	344	345	38.51	94.9	2.279	134.3	24.66	12.4
111	2007	344	400	38.54	95	1.441	130.3	30.46	12.4
111	2007	344	415	38.69	95	1.797	126.9	30.78	12.4
111	2007	344	430	38.86	95.1	1.389	138.1	28.65	12.4
111	2007	344	445	39.02	95.2	1.65	116	39.03	12.4
111	2007	344	500	39.11	95.1	1.563	109.1	28.85	12.4
111	2007	344	515	39.09	95.2	2.179	105.7	33.66	12.4
111	2007	344	530	39.09	95.2	1.645	107.7	33.44	12.39
111	2007	344	545	39.19	95.3	2.493	110	34.92	12.39
111	2007	344	600	39.15	95.2	2.495	115.1	31.07	12.4
111	2007	344	615	39.02	95.3	3.328	125.1	33.21	12.4
111	2007	344	630	38.93	95.2	2.193	104.7	29.35	12.39
111	2007	344	645	38.76	95.3	2.159	108.9	27.59	12.4
111	2007	344	700	38.72	95.3	2.832	120.6	25.29	12.4
111	2007	344	715	38.79	95.4	2.75	119.3	26.54	12.4
111	2007	344	730	38.93	95.5	2.52	107.5	30.27	12.44
111	2007	344	745	39.03	95.5	2.365	101.2	26.92	12.48
111	2007	344	800	39.14	95.4	2.613	100.3	29.69	12.54
111	2007	344	815	39.29	95.4	2.768	90.6	23.74	12.48
111	2007	344	830	39.39	95.5	2.289	111.9	32.17	12.43
111	2007	344	845	39.48	95.4	2.3	110.7	25.49	12.41
111	2007	344	900	39.61	95.4	2.394	85.1	25.03	12.39
111	2007	344	915	39.69	95.5	2.095	88.4	25.1	12.4
111	2007	344	930	39.79	95.4	2.538	81.3	25.17	12.4
111	2007	344	945	40.03	95.5	3.119	82.7	28.47	12.39
111	2007	344	1000	40.26	95.5	3.463	87.1	26.57	12.39
111	2007	344	1015	40.29	95.5	3.799	88.6	22.58	12.38
111	2007	344	1030	40.11	95.3	4.381	83.2	20.39	12.38
111	2007	344	1045	39.84	95.4	3.974	85.9	26.7	12.37
111	2007	344	1100	39.47	95.4	4.458	96.8	26.31	12.38
111	2007	344	1115	39.18	95.3	4.355	93.7	32.54	12.37
111	2007	344	1130	38.81	95.3	4.883	91.9	29.13	12.37
111	2007	344	1145	38.17	95.1	5.32	82.8	25.28	12.36
111	2007	344	1200	37.5	95.3	4.806	92.3	32.8	12.36
111	2007	344	1215	37.22	95.3	4.268	99.4	30.58	12.36
111	2007	344	1230	37.12	95.3	4.534	104.5	29.03	12.36

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	344	1245	37.12	95.3	4.474	99.7	29.75	12.36
111	2007	344	1300	37.07	95.2	3.97	106.5	26.86	12.36
111	2007	344	1315	37.06	95.2	4.468	108.6	28.18	12.36
111	2007	344	1330	37.11	95.1	4.808	92.3	29.42	12.36
111	2007	344	1345	36.88	95.2	4.492	108.8	31.63	12.35
111	2007	344	1400	36.66	95.2	4.837	114.1	31.92	12.34
111	2007	344	1415	36.8	95.1	4.337	105.5	33.91	12.34
111	2007	344	1430	36.8	95	3.914	101.2	30.84	12.35
111	2007	344	1445	36.77	94.9	4.127	106.9	28.28	12.34
111	2007	344	1500	36.76	94.9	3.662	111.5	35.11	12.34
111	2007	344	1515	36.79	94.7	3.942	103.5	32.98	12.34
111	2007	344	1530	36.68	94.7	3.974	116.8	26.59	12.34
111	2007	344	1545	36.61	94.7	4.085	110.3	34.05	12.33
111	2007	344	1600	36.7	94.4	4.043	106.3	27.9	12.33
111	2007	344	1615	36.77	94.4	4.309	88.8	30.71	12.33
111	2007	344	1630	36.75	94.2	4.117	107.2	25.58	12.32
111	2007	344	1645	36.78	94.2	3.384	93.3	25.11	12.32
111	2007	344	1700	36.86	94	2.527	120.9	29.94	12.31
111	2007	344	1715	36.78	94	2.784	120.3	26.09	12.31
111	2007	344	1730	36.73	94	2.658	106.6	30.4	12.31
111	2007	344	1745	36.82	93.9	2.755	108.7	32.25	12.31
111	2007	344	1800	36.93	93.9	2.293	123	34.27	12.31
111	2007	344	1815	36.99	93.8	2.209	108.4	32.06	12.31
111	2007	344	1830	37	93.5	2.888	124.1	30.35	12.31
111	2007	344	1845	37.03	93.3	2.688	115	31.5	12.3
111	2007	344	1900	37.11	93.4	2.061	117.4	32.08	12.3
111	2007	344	1915	37.27	93.2	1.748	117.3	26.38	12.29
111	2007	344	1930	37.4	93	0.992	97	31.9	12.29
111	2007	344	1945	37.54	93	0.922	100.7	25.29	12.29
111	2007	344	2000	37.63	92.8	1.535	94.5	22.25	12.28
111	2007	344	2015	37.81	92.3	2.195	105	29.99	12.28
111	2007	344	2030	37.85	92	2.232	100.3	24.97	12.28
111	2007	344	2045	37.91	91.7	2.026	94.5	33.27	12.28
111	2007	344	2100	37.97	91	2.252	92.7	35.12	12.28
111	2007	344	2115	38.01	90.2	2.03	104.8	40.15	12.27
111	2007	344	2130	37.96	89.3	2.691	107.2	32.63	12.26
111	2007	344	2145	37.97	88.9	1.664	114	30.19	12.26
111	2007	344	2200	37.94	88.8	1.382	107.6	27.39	12.26
111	2007	344	2215	37.95	88.4	2.066	98.7	29.58	12.25
111	2007	344	2230	37.99	87.5	2.411	87.4	25.86	12.25
111	2007	344	2245	38.05	87.2	2.135	76.3	28.86	12.26
111	2007	344	2300	38.04	86.8	2.008	72.8	23.98	12.25
111	2007	344	2315	38	86.2	2.441	85	24.77	12.25
111	2007	344	2330	38	85.6	2.129	87.6	25.56	12.24
111	2007	344	2345	37.95	84	2.782	98.7	32.68	12.24
111	2007	344	2400	37.88	82.9	2.824	117.8	25.44	12.24
111	2007	345	15	37.69	82.1	3.127	120.6	30.62	12.24
111	2007	345	30	37.23	80.9	3.658	116.5	33.12	12.24
111	2007	345	45	36.69	81.2	2.039	101	39.28	12.23
111	2007	345	100	36.11	81.9	0.736	95	22.74	12.24
111	2007	345	115	35.61	82.7	1.534	105	29.59	12.24
111	2007	345	130	35.11	83.5	1.502	100.3	32.56	12.22
111	2007	345	145	34.69	83.3	1.278	105.7	32.13	12.22
111	2007	345	200	34.37	82.4	1.962	97.9	29.73	12.22
111	2007	345	215	34.07	82.6	1.31	73.6	28.67	12.22
111	2007	345	230	33.88	82.4	1.563	98.8	27.31	12.22
111	2007	345	245	34.25	80.7	2.271	96.6	35.82	12.21
111	2007	345	300	34.64	79.5	2.635	97.1	33.85	12.21
111	2007	345	315	34.81	79.3	2.169	96.9	30.7	12.2
111	2007	345	330	34.74	79.6	2.161	113.1	30.89	12.2

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	345	345	34.53	80.4	1.476	110.6	36.04	12.21
111	2007	345	400	34.44	80.8	2.059	118	26.98	12.2
111	2007	345	415	34.48	80.8	1.636	106.2	32.41	12.2
111	2007	345	430	34.53	80.1	1.681	97	33.85	12.2
111	2007	345	445	34.62	78.5	2.157	86.6	26.12	12.19
111	2007	345	500	34.64	77.8	1.556	93.8	27.81	12.2
111	2007	345	515	34.7	77.8	2.174	87.2	22.86	12.2
111	2007	345	530	34.7	78	2.401	91.3	25.76	12.22
111	2007	345	545	34.36	77.1	3.217	93.1	25.56	12.42
111	2007	345	600	33.81	75.7	2.961	93	33.5	12.66
111	2007	345	615	33.34	76.4	2.465	87.3	28.89	12.69
111	2007	345	630	32.88	77.6	1.856	66.6	36.1	12.98
111	2007	345	645	32.51	79	1.728	33.69	27.81	13.07
111	2007	345	700	32.05	80.3	1.119	49.5	20.12	13.13
111	2007	345	715	31.93	80.9	1.686	56.1	26.18	13.34
111	2007	345	730	31.81	80.5	1.794	45.03	21.62	13.21
111	2007	345	745	31.37	81.1	1.52	42.51	21.8	13.15
111	2007	345	800	31.39	80.6	2.103	20.75	22.52	13.14
111	2007	345	815	31.07	82	1.927	39.18	24.26	13.14
111	2007	345	830	30.62	83	1.446	63.72	27.08	13.13
111	2007	345	845	30.83	83	1.542	41.6	19.19	13.36
111	2007	345	900	31.22	81.8	1.938	75.5	23.38	13.73
111	2007	345	915	32.13	79.5	2.298	91.3	25.36	13.71
111	2007	345	930	33.13	75.6	2.282	91.9	29.04	13.71
111	2007	345	945	34.2	71.2	3.056	107.8	29.3	13.71
111	2007	345	1000	34.94	69.52	3.602	115.9	28	13.7
111	2007	345	1015	35.56	67.57	2.41	142.7	49.53	13.69
111	2007	345	1030	36.3	65.29	3.338	134.4	51.24	13.68
111	2007	345	1045	37.01	62.2	4.26	151.7	39.53	13.69
111	2007	345	1100	37.46	60.92	3.35	130	37.21	13.69
111	2007	345	1115	37.69	61.39	3.664	140.3	42.35	13.67
111	2007	345	1130	38.32	58.74	3.4	143.3	53	13.19
111	2007	345	1145	38.75	57.67	3.146	203.6	61.81	13.61
111	2007	345	1200	39.04	56.83	2.677	142.2	55.91	13.26
111	2007	345	1215	39.81	55.89	2.919	342.3	76	13.36
111	2007	345	1230	39.86	55.75	3.501	73.5	36.67	13.21
111	2007	345	1245	40.3	58.62	3.716	212.8	61.18	13.04
111	2007	345	1300	39	60.26	5.364	255.4	24.72	12.95
111	2007	345	1315	38.55	60.5	5.769	232.8	19.9	13.23
111	2007	345	1330	39.08	58.05	4.504	265	24.98	13.16
111	2007	345	1345	39.18	57.65	3.305	241.6	33.56	12.88
111	2007	345	1400	38.86	61.94	2.151	255.5	60.77	12.82
111	2007	345	1415	38.41	64.91	4.305	259.9	24.23	12.79
111	2007	345	1430	38.2	64.48	4.172	281.6	28.81	12.77
111	2007	345	1445	38.38	65.43	4.859	282.2	28.93	12.76
111	2007	345	1500	38.27	65.46	4.974	284	34.6	12.75
111	2007	345	1515	38.45	64.86	4.148	272.9	28.37	12.73
111	2007	345	1530	38.27	63.76	4.156	274.4	34.12	12.72
111	2007	345	1545	37.6	64.53	3.227	281.9	27.59	12.71
111	2007	345	1600	37.59	64.06	3.619	252.4	33.52	12.7
111	2007	345	1615	37.59	62.79	3.868	266.9	27.44	12.69
111	2007	345	1630	37.46	63.3	3.652	280.4	27.34	12.68
111	2007	345	1645	37.52	65.04	3.289	252.9	24.67	12.68
111	2007	345	1700	37.54	66.44	2.951	283	33.16	12.66
111	2007	345	1715	37.68	67.62	3.469	267.9	27.79	12.66
111	2007	345	1730	37.74	69.09	2.946	278	31.85	12.65
111	2007	345	1745	37.79	70.8	3.001	292.9	30.04	12.65
111	2007	345	1800	37.84	73.1	2.697	252.8	31.7	12.65
111	2007	345	1815	37.94	74.9	2.812	270.4	47.62	12.64
111	2007	345	1830	38.13	76.2	2.935	295.1	43.18	12.64

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	345	1845	38.25	76.9	3.495	299.1	29.73	12.63
111	2007	345	1900	38.33	80.5	2.912	295.8	29.04	12.63
111	2007	345	1915	38.14	84.4	3.634	325.6	29.69	12.62
111	2007	345	1930	38.19	86.7	3.175	304.6	23.12	12.62
111	2007	345	1945	38.47	88.4	3.108	294.5	26.57	12.61
111	2007	345	2000	38.81	89.6	3.32	308.3	22.38	12.61
111	2007	345	2015	39.25	90.3	2.643	328.8	23.1	12.61
111	2007	345	2030	39.65	90.8	1.888	308.3	30.77	12.6
111	2007	345	2045	40.18	91.3	2.649	317.7	24.59	12.6
111	2007	345	2100	41.09	91.9	3.519	300.1	26.22	12.59
111	2007	345	2115	42.15	92.7	3.261	312.2	29.32	12.59
111	2007	345	2130	43.4	93.5	4.939	314.5	22.86	12.58
111	2007	345	2145	44.54	93.8	5.616	326	23.08	12.58
111	2007	345	2200	45.27	93.9	6.966	315.2	20.79	12.56
111	2007	345	2215	45.61	94	7.11	318.7	24.41	12.56
111	2007	345	2230	45.75	94.1	7.28	332	24.47	12.56
111	2007	345	2245	45.71	94.4	7.01	326.6	26.67	12.56
111	2007	345	2300	45.68	94.7	6.827	325.6	26.54	12.55
111	2007	345	2315	45.66	94.8	5.888	323.9	23.42	12.55
111	2007	345	2330	45.6	95.1	7	324.6	21.04	12.54
111	2007	345	2345	45.75	95.2	6.648	325.6	22.29	12.54
111	2007	345	2400	45.92	95.3	7.74	330.3	19.28	12.54
111	2007	346	15	46	95.5	8	327.1	20.82	12.53
111	2007	346	30	46.08	95.6	7.39	336.1	25.85	12.54
111	2007	346	45	46.22	95.6	7.52	325.9	23.63	12.52
111	2007	346	100	45.99	95.7	6.884	328.9	24.29	12.52
111	2007	346	115	45.87	95.9	6.821	321.7	23.3	12.52
111	2007	346	130	45.94	96	6.755	328.3	22.06	12.52
111	2007	346	145	46.02	96.1	7.79	329.2	22.74	12.52
111	2007	346	200	46.29	96.1	7.94	335	22.29	12.5
111	2007	346	215	46.48	96.3	7.25	338.3	26.65	12.5
111	2007	346	230	46.64	96.4	6.749	334.3	23.96	12.5
111	2007	346	245	46.69	96.3	8.07	332.2	24.3	12.5
111	2007	346	300	46.63	96.4	7.88	331.6	21.38	12.49
111	2007	346	315	46.65	96.4	6.062	328.9	21.66	12.49
111	2007	346	330	46.88	96.5	6.956	330.3	25.71	12.49
111	2007	346	345	47.49	96.5	7.53	335.4	21.42	12.48
111	2007	346	400	47.88	96.6	6.472	334.3	24.18	12.48
111	2007	346	415	48.19	96.5	7.77	334.2	25.83	12.48
111	2007	346	430	48.51	96.5	7.18	339.3	18.31	12.47
111	2007	346	445	48.86	96.2	7.64	340.6	21.36	12.47
111	2007	346	500	49.11	96.1	8.02	339	25.14	12.47
111	2007	346	515	49.22	95.8	6.833	336	23.31	12.47
111	2007	346	530	49.19	95.8	6.652	330	22.3	12.47
111	2007	346	545	49.13	95.7	6.932	338.6	22.76	12.58
111	2007	346	600	49	95.6	5.81	336.3	21.93	12.58
111	2007	346	615	48.96	95.6	6.4	334.7	20.46	13.88
111	2007	346	630	48.94	95.5	6.563	339.4	20.09	13.12
111	2007	346	645	48.97	95.5	6.628	340.3	20.31	13.5
111	2007	346	700	48.96	95.5	6.017	344.8	24.27	13.09
111	2007	346	715	49.05	95.3	5.117	353.7	17.9	13.13
111	2007	346	730	49.42	95.1	4.26	13.46	21.69	13.88
111	2007	346	745	49.86	95.2	3.531	26.17	24.31	13.88
111	2007	346	800	50.93	94.4	5.294	25.55	22.87	13.86
111	2007	346	815	51.9	92.2	6.307	20.38	23.72	13.85
111	2007	346	830	52.04	91.3	5.078	24.33	23.12	13.84
111	2007	346	845	52.06	90.4	4.738	23.71	18.16	13.84
111	2007	346	900	52.13	89.6	4.617	20.04	17.18	13.82
111	2007	346	915	52.2	88.4	4.827	24.5	21.25	13.81
111	2007	346	930	52.29	86.1	6.156	22.5	23.93	13.81

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	346	945	52.22	85.4	4.694	24.04	25.9	13.79
111	2007	346	1000	52.07	84.3	3.592	8.33	21.57	13.79
111	2007	346	1015	52.19	81.8	5.24	25.9	21.01	13.78
111	2007	346	1030	52.16	81.1	6.041	31.38	19.96	13.79
111	2007	346	1045	51.87	71.4	9.34	32.51	21.54	13.81
111	2007	346	1100	51.21	71.2	8.71	38.82	22	13.79
111	2007	346	1115	50.85	69.58	8.44	30	25.24	13.79
111	2007	346	1130	50.1	67.14	9.12	48.5	19.89	13.78
111	2007	346	1145	49.26	64.63	9.18	36.44	24.99	13.2
111	2007	346	1200	48.67	61.98	8.52	46.88	18.55	13.22
111	2007	346	1215	48.51	60.98	9.88	40.86	23.75	13.8
111	2007	346	1230	48.17	60.17	9.96	50.48	23.9	13.42
111	2007	346	1245	47.97	60.54	7.7	32.83	24	13.17
111	2007	346	1300	47.59	60.01	8.86	39.95	21.62	12.98
111	2007	346	1315	47.52	57.24	9.05	35.27	26.22	13.86
111	2007	346	1330	47.2	54.26	10.38	48.54	24.57	13.43
111	2007	346	1345	47.07	53.13	11.11	41.35	21.92	12.86
111	2007	346	1400	46.95	53.29	8.92	46.31	23.15	12.79
111	2007	346	1415	47.13	53.13	9.69	39.95	23.57	12.75
111	2007	346	1430	46.58	52.22	12.51	43.64	23.68	12.73
111	2007	346	1445	45.87	53.03	10.08	45.82	23.08	12.7
111	2007	346	1500	45.65	53.06	10.39	47.05	26.01	12.69
111	2007	346	1515	45.21	53.36	10.29	38.52	20.71	12.68
111	2007	346	1530	44.62	53.9	9.92	37.53	22.22	12.67
111	2007	346	1545	44.33	52.09	9.99	35.82	23.44	12.66
111	2007	346	1600	44.12	49.72	10.49	33.23	23.57	12.65
111	2007	346	1615	43.74	48.78	10.84	47.23	25.76	12.63
111	2007	346	1630	43.41	49.85	9.29	55.66	26.37	12.63
111	2007	346	1645	42.81	48.01	11.05	59.22	21.54	12.63
111	2007	346	1700	42.22	49.96	10.11	60.7	20.82	12.62
111	2007	346	1715	41.84	49.93	8.74	64.01	18.7	12.61
111	2007	346	1730	41.39	50.43	9.32	55.89	21	12.61
111	2007	346	1745	40.83	50.03	7.97	65.67	25.74	12.61
111	2007	346	1800	40.47	49.97	8.88	69.41	21.08	12.6
111	2007	346	1815	40.17	51.07	9.13	64.36	18.84	12.6
111	2007	346	1830	39.67	52.81	7.58	54.13	17.99	12.59
111	2007	346	1845	39.39	52.21	7.3	62.66	21.96	12.59
111	2007	346	1900	39.08	53.88	4.96	53.25	22.59	12.59
111	2007	346	1915	38.85	54.42	5.91	52.35	16.34	12.58
111	2007	346	1930	38.61	54.89	5.248	60.63	18.72	12.57
111	2007	346	1945	38.33	54.86	5.582	64.9	18.37	12.57
111	2007	346	2000	38.08	55.17	5.296	66.84	19.9	12.57
111	2007	346	2015	37.84	55.47	5.338	65.91	16.88	12.56
111	2007	346	2030	37.56	55.91	4.69	69.98	27	12.56
111	2007	346	2045	37.37	54.13	4.567	80.5	28.99	12.56
111	2007	346	2100	37.33	53.84	5.298	68.71	23.02	12.56
111	2007	346	2115	37.12	53.17	5.094	79.3	23.52	12.55
111	2007	346	2130	36.97	53.33	4.732	83.3	23.6	12.55
111	2007	346	2145	36.73	53.13	5.697	71.2	17.34	12.54
111	2007	346	2200	36.41	53.37	4.327	74.2	21.71	12.55
111	2007	346	2215	36.18	54.1	4.829	82.1	22.88	12.55
111	2007	346	2230	35.82	54.71	3.481	77	25.26	12.55
111	2007	346	2245	35.55	54.1	4.367	73.3	21.26	12.55
111	2007	346	2300	35.29	53.37	3.59	82.1	31.43	12.54
111	2007	346	2315	35.38	48.81	4.536	93.5	28.77	12.54
111	2007	346	2330	35.16	48.48	4.47	93.2	27.49	12.54
111	2007	346	2345	34.72	49.51	2.655	95.3	23.08	12.54
111	2007	346	2400	34.16	51.83	1.289	72.2	22.07	12.53
111	2007	347	15	33.28	54.07	0.529	72.7	23.84	12.52
111	2007	347	30	32.43	58.2	1.063	86.3	17	12.52

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	347	45	30.85	63.13	0.261	32.38	1.952	12.52
111	2007	347	100	30.05	64.91	1.11	79.2	11.18	12.51
111	2007	347	115	29.2	70.3	0.536	22.64	54.97	12.51
111	2007	347	130	28.53	72.8	1.567	342.5	55.96	12.5
111	2007	347	145	27.87	74.5	0.05	329.5	1.12	12.5
111	2007	347	200	28.31	72.6	1.343	70.8	16.29	12.5
111	2007	347	215	29.64	70.5	1.049	94.6	10.64	12.5
111	2007	347	230	30.18	66.46	1.537	157.8	46.12	12.5
111	2007	347	245	30.42	67.29	0.142	202.3	3.248	12.5
111	2007	347	300	30.56	66.96	1.263	115.1	24.91	12.5
111	2007	347	315	30.88	64.01	1.408	187.1	28.16	12.48
111	2007	347	330	31.26	63.87	1.264	190.5	29.79	12.48
111	2007	347	345	31.52	63.71	1.136	187.1	46.41	12.48
111	2007	347	400	31.58	63.97	0.842	137.2	30.13	12.48
111	2007	347	415	31.3	67.19	0.027	284.9	4.259	12.48
111	2007	347	430	31.44	64.04	2.429	126.4	24.33	12.48
111	2007	347	445	31.8	62.22	2.046	158.1	44.46	12.48
111	2007	347	500	31.93	62.16	1.261	133.5	25.06	12.47
111	2007	347	515	31.91	62.33	1.248	138.6	44.17	12.47
111	2007	347	530	31.84	62.6	1.3	131	26.6	12.48
111	2007	347	545	31.6	63.57	1.027	233.5	77.8	12.47
111	2007	347	600	31.61	64.37	0.267	89.9	40.58	12.47
111	2007	347	615	31.6	63.5	1.458	160.4	24.04	12.48
111	2007	347	630	31.86	61.59	2.706	164.3	27.32	12.47
111	2007	347	645	32.03	59.11	1.591	149.6	36.94	12.48
111	2007	347	700	32.15	59.91	2.469	183.7	22.68	12.48
111	2007	347	715	32.23	57.39	1.684	196.7	49.22	12.48
111	2007	347	730	32.28	56.85	3.307	194.6	29.81	12.47
111	2007	347	745	32.29	56.85	3.813	166.7	24.36	12.47
111	2007	347	800	32.26	54.41	3.964	171.6	39.22	12.48
111	2007	347	815	32.38	53.97	3.765	170.5	23.7	12.47
111	2007	347	830	32.52	53.1	3.404	183.2	28.54	12.48
111	2007	347	845	32.55	50.59	4.033	179.9	26.47	12.49
111	2007	347	900	32.54	48.11	4.492	176.3	27.57	12.55
111	2007	347	915	32.5	47.37	4.53	173.6	30.09	12.51
111	2007	347	930	32.55	47.14	5.566	174.9	28.1	12.48
111	2007	347	945	32.7	49.15	5.381	190.9	26.33	12.47
111	2007	347	1000	32.79	49.95	5.282	183	23.47	12.5
111	2007	347	1015	32.82	50.15	4.879	178.7	24.41	12.48
111	2007	347	1030	32.98	50.45	4.476	186.7	26.2	12.48
111	2007	347	1045	33.22	47.54	4.649	199.2	31.77	12.47
111	2007	347	1100	33.37	47.5	5.401	205.2	22.57	12.48
111	2007	347	1115	33.44	48.17	6.311	205.2	22.54	12.47
111	2007	347	1130	33.64	50.59	4.212	203.3	22.19	12.48
111	2007	347	1145	33.74	53.57	5.642	199.8	20.91	12.48
111	2007	347	1200	33.62	62.38	7.35	191.1	27.44	12.47
111	2007	347	1215	33.01	67.91	4.297	134.2	71.8	12.47
111	2007	347	1230	32.52	75.7	3.237	52.87	18.52	12.46
111	2007	347	1245	31.5	82.4	3.062	89.9	25.48	12.47
111	2007	347	1300	30.44	86.5	2.864	102.2	29.65	12.47
111	2007	347	1315	29.87	89	3.217	137.4	27.42	12.46
111	2007	347	1330	29.68	90.4	4.16	160.6	30.32	12.46
111	2007	347	1345	29.5	91.6	4.202	148	33.4	12.46
111	2007	347	1400	29.34	92.5	3.94	166.1	31.62	12.45
111	2007	347	1415	29.33	93.1	4.291	158.9	31.99	12.45
111	2007	347	1430	29.43	93.5	3.864	153.2	41.22	12.45
111	2007	347	1445	29.56	93.9	4.476	139.7	30.46	12.45
111	2007	347	1500	29.77	94.3	5.647	161.7	27.3	12.45
111	2007	347	1515	30.07	94.8	5.179	178.2	29.13	12.44
111	2007	347	1530	30.62	95	4.216	167.8	30.39	12.44

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	347	1545	30.92	95.1	4.414	157.5	28.49	12.43
111	2007	347	1600	31.11	95.3	4.921	155.8	30.89	12.43
111	2007	347	1615	31.29	95.3	5.377	153.5	27.14	12.43
111	2007	347	1630	31.35	95.4	5.64	138.5	32.52	12.42
111	2007	347	1645	31.25	95.4	6.333	154.4	31.46	12.42
111	2007	347	1700	31.09	95.3	6.906	156.2	26.51	12.41
111	2007	347	1715	30.97	95.3	7.26	150.8	28.25	12.41
111	2007	347	1730	30.96	95.1	6.398	149	34.01	12.4
111	2007	347	1745	31.02	95.1	5.844	155.4	36.16	12.39
111	2007	347	1800	31.19	95	6.749	145	35.16	12.39
111	2007	347	1815	30.85	94.6	2.33	148.9	24.66	12.39
111	2007	347	1830	30.73	94	na	na	na	12.4
111	2007	347	1845	30.55	93.6	na	na	na	12.4
111	2007	347	1900	30.42	93.3	na	na	na	12.4
111	2007	347	1915	30.49	93.3	na	na	na	12.39
111	2007	347	1930	30.66	93.2	na	na	na	12.4
111	2007	347	1945	30.92	93.1	na	na	na	12.4
111	2007	347	2000	31.16	92.9	na	na	na	12.39
111	2007	347	2015	31.33	92.8	na	na	na	12.39
111	2007	347	2030	31.22	92.7	na	na	na	12.39
111	2007	347	2045	31.12	92.8	na	na	na	12.39
111	2007	347	2100	31.16	92.9	na	na	na	12.38
111	2007	347	2115	31.28	93	na	na	na	12.39
111	2007	347	2130	31.33	93.1	na	na	na	12.37
111	2007	347	2145	31.26	92.3	na	na	na	12.37
111	2007	347	2200	30.01	92.9	na	na	na	12.37
111	2007	347	2215	29.69	93	na	na	na	12.37
111	2007	347	2230	29.59	93	na	na	na	12.37
111	2007	347	2245	29.6	93	na	na	na	12.36
111	2007	347	2300	29.69	93.1	na	na	na	12.36
111	2007	347	2315	29.76	93	na	na	na	12.36
111	2007	347	2330	29.84	93.1	na	na	na	12.34
111	2007	347	2345	29.88	93	na	na	na	12.34
111	2007	347	2400	30	93.1	na	na	na	12.34
111	2007	348	15	30.13	93.1	na	na	na	12.34
111	2007	348	30	30.26	93	na	na	na	12.33
111	2007	348	45	30.31	92.9	na	na	na	12.33
111	2007	348	100	30.33	92.9	na	na	na	12.32
111	2007	348	115	30.29	92.8	na	na	na	12.31
111	2007	348	130	30.24	92.7	na	na	na	12.31
111	2007	348	145	30.14	93	na	na	na	12.3
111	2007	348	200	30.09	93	na	na	na	12.31
111	2007	348	215	30.14	93	na	na	na	12.29
111	2007	348	230	30.19	93.1	na	na	na	12.29
111	2007	348	245	30.24	93.2	na	na	na	12.28
111	2007	348	300	30.28	93.3	na	na	na	12.27
111	2007	348	315	30.32	93.2	na	na	na	12.27
111	2007	348	330	30.32	93.2	na	na	na	12.26
111	2007	348	345	30.34	93.3	na	na	na	12.26
111	2007	348	400	30.35	93.3	na	na	na	12.26
111	2007	348	415	30.41	93.3	na	na	na	12.26
111	2007	348	430	30.4	93.4	na	na	na	12.25
111	2007	348	445	30.36	93.4	na	na	na	12.25
111	2007	348	500	30.19	93.4	na	na	na	12.25
111	2007	348	515	29.52	93.4	na	na	na	12.25
111	2007	348	530	29.34	93.7	na	na	na	12.25
111	2007	348	545	29.2	93.7	na	na	na	12.42
111	2007	348	600	28.98	93.7	na	na	na	12.72
111	2007	348	615	28.74	94.1	na	na	na	13.14
111	2007	348	630	28.77	94.1	na	na	na	13.14

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	348	645	28.62	94.2	na	na	na	13.06
111	2007	348	700	28.75	94.6	na	na	na	13.22
111	2007	348	715	29.45	94.5	na	na	na	13.24
111	2007	348	730	29.97	94.3	na	na	na	13.28
111	2007	348	745	30.1	94.2	na	na	na	13.24
111	2007	348	800	29.66	93.8	na	na	na	13.18
111	2007	348	815	28.8	94.1	na	na	na	13.22
111	2007	348	830	28.58	94.4	na	na	na	13.26
111	2007	348	845	29.38	94.7	na	na	na	13.22
111	2007	348	900	30.3	94.4	na	na	na	13.69
111	2007	348	915	30.7	94.1	na	na	na	13.16
111	2007	348	930	31	94.2	na	na	na	13.78
111	2007	348	945	31.55	94.1	0.009	343.6	0.005	13.78
111	2007	348	1000	31.95	93.8	1.563	38.49	16.09	13.78
111	2007	348	1015	32.37	93.8	2.681	32.57	20.39	13.78
111	2007	348	1030	32.84	93.3	3.1	28.03	22.01	13.78
111	2007	348	1045	33.2	92.9	3.362	32.28	17.46	13.78
111	2007	348	1100	33.46	92.7	2.933	36.78	18.15	13.78
111	2007	348	1115	33.75	92.5	3.527	25.12	15.02	13.77
111	2007	348	1130	34.25	92	3.708	16.46	21.05	13.78
111	2007	348	1145	34.66	91.4	3.453	16.26	18.12	13.78
111	2007	348	1200	35.57	90.6	3.59	10.39	24.18	13.78
111	2007	348	1215	36.48	89.1	3.654	18.05	27.95	13.79
111	2007	348	1230	37.56	84.8	4.613	8.63	21.02	13.06
111	2007	348	1245	38.51	80.8	5.256	31.55	17.66	13.81
111	2007	348	1300	39.45	76.9	6.051	31.7	14.77	13.28
111	2007	348	1315	40.25	74.3	5.979	32.21	22.44	13.04
111	2007	348	1330	40.93	70.6	6.525	30.3	18.01	12.88
111	2007	348	1345	41.67	67.58	6.519	22.28	15.57	12.81
111	2007	348	1400	42.07	67.85	6.642	28.72	22.64	12.78
111	2007	348	1415	42.34	67.48	6.446	28.13	27.04	12.75
111	2007	348	1430	42.32	66.94	7.1	27.35	21.87	12.73
111	2007	348	1445	42.67	62.31	6.881	32.08	27.05	12.71
111	2007	348	1500	43.13	57.99	6.378	38.88	22.25	12.71
111	2007	348	1515	43.24	57.59	6.247	50.72	19.89	12.69
111	2007	348	1530	43.14	57.62	7.21	64.61	24.05	12.68
111	2007	348	1545	43.04	57.42	5.943	70.1	20.14	12.68
111	2007	348	1600	42.66	59.42	6.352	69.42	22.51	12.66
111	2007	348	1615	42.13	61.43	5.163	60.15	19.95	12.66
111	2007	348	1630	42.13	61.2	5.431	44.4	22.31	12.65
111	2007	348	1645	42.04	62.88	4.752	46.66	18.45	12.65
111	2007	348	1700	41.62	63.99	4.871	41.94	19.93	12.64
111	2007	348	1715	41.15	64.16	5.56	43.44	18.67	12.63
111	2007	348	1730	40.75	66.21	4.369	38.15	21.21	12.62
111	2007	348	1745	40.44	64.83	6.37	30.94	15.64	12.62
111	2007	348	1800	40.06	66.68	5.564	37.01	16.88	12.61
111	2007	348	1815	39.79	63.83	5.653	44.71	16.73	12.61
111	2007	348	1830	39.49	64.03	5.532	46.36	18.7	12.61
111	2007	348	1845	39.18	62.83	5.262	38.78	15.39	12.6
111	2007	348	1900	38.8	62.8	4.218	36.87	14.25	12.6
111	2007	348	1915	38.45	62.57	4.478	32.08	12.55	12.59
111	2007	348	1930	38.08	63.21	3.928	25.95	15.61	12.58
111	2007	348	1945	37.6	64.45	3.539	26.62	14.67	12.58
111	2007	348	2000	37.09	64.22	2.502	10.3	26.3	12.57
111	2007	348	2015	37	60.2	3.363	16.13	26.53	12.57
111	2007	348	2030	37.54	60.87	3.585	31.71	15.32	12.57
111	2007	348	2045	37.11	60.6	4.297	27.13	13.33	12.56
111	2007	348	2100	37.19	58.02	5.137	46.74	16.4	12.56
111	2007	348	2115	37.54	57.92	4.96	45.1	16.46	12.56
111	2007	348	2130	37.25	58.83	4.823	37.26	16.06	12.55

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	348	2145	36.94	59.13	4.049	38.15	20.06	12.55
111	2007	348	2200	36.71	59.2	3.674	36.97	17.97	12.54
111	2007	348	2215	36.68	60.5	4.482	37.88	14.7	12.53
111	2007	348	2230	36.65	59.77	3.626	46.61	21.41	12.53
111	2007	348	2245	36.77	59.23	4.268	45.74	17.94	12.52
111	2007	348	2300	36.63	59.33	4.837	45.73	15.69	12.52
111	2007	348	2315	36.34	59.93	4.587	45.28	14.84	12.52
111	2007	348	2330	36.13	59.8	3.942	54.19	17.05	12.51
111	2007	348	2345	35.62	61.78	1.955	47.58	21.37	12.5
111	2007	348	2400	35.04	63.75	2.445	55.22	15.01	12.5
111	2007	349	15	34.35	64.99	1.639	65.31	19.09	12.5
111	2007	349	30	33.97	64.69	2.409	44.89	18.8	12.5
111	2007	349	45	33.41	65.5	1.786	20.47	22.55	12.49
111	2007	349	100	33.65	60.84	2.949	40.08	20.16	12.49
111	2007	349	115	33.88	58.97	3.779	37.12	15.3	12.47
111	2007	349	130	33.43	60.24	2.931	31.21	13	12.48
111	2007	349	145	33.02	60.92	2.77	44.49	15.04	12.47
111	2007	349	200	32.95	61.05	2.681	46.51	22.13	12.46
111	2007	349	215	32.74	62.23	1.727	36.54	24.61	12.46
111	2007	349	230	32.32	61.56	2.25	68.24	21.49	12.46
111	2007	349	245	32.94	58.78	3.416	71.3	23.34	12.45
111	2007	349	300	33	59.31	3.237	67.23	20.64	12.45
111	2007	349	315	32.91	59.44	2.26	35.56	21.11	12.45
111	2007	349	330	32.84	59.98	2.308	57.42	18.04	12.44
111	2007	349	345	32.45	61.42	3.038	78.4	16.55	12.44
111	2007	349	400	32.16	61.72	2.935	73.5	15.92	12.43
111	2007	349	415	31.73	63	2.139	58.97	18.45	12.43
111	2007	349	430	31.29	63.43	2.355	63.75	16.49	12.43
111	2007	349	445	30.72	65.11	0.706	69.86	18.67	12.42
111	2007	349	500	29.91	67.63	1.3	81	23.5	12.41
111	2007	349	515	29.45	67.56	2.042	87.1	20.43	12.41
111	2007	349	530	30.08	62.8	3.189	107.1	31.37	12.42
111	2007	349	545	30.41	61.39	3.374	110.8	28.21	13.18
111	2007	349	600	30.3	61.23	3.168	120.2	34.22	14.03
111	2007	349	615	30.1	61.86	3.16	125.5	27.36	14
111	2007	349	630	30.04	57.91	4.389	112.6	25.76	13.97
111	2007	349	645	30.11	53.55	4.97	124.2	36.99	13.93
111	2007	349	700	29.95	51.21	5.886	134.6	27.73	13.04
111	2007	349	715	29.72	51.68	5.036	114.8	33.11	13.9
111	2007	349	730	29.32	52.75	4.845	123.9	27.64	13.87
111	2007	349	745	29.03	50.9	4.686	129	32.77	13.85
111	2007	349	800	28.83	47.62	5.723	123.8	31.55	13.83
111	2007	349	815	28.66	43.13	5.451	118.4	37.11	13.81
111	2007	349	830	28.45	40.99	5.215	120.5	34.64	13.79
111	2007	349	845	28.38	44.24	4.835	124.5	34.72	13.78
111	2007	349	900	28.34	46.51	5.032	126.1	28.89	13.77
111	2007	349	915	28.41	48.22	6.92	123.1	27.8	13.75
111	2007	349	930	28.92	49.5	7.09	128.1	25.33	13.74
111	2007	349	945	28.8	51.17	7.49	138	26.31	13.74
111	2007	349	1000	28.82	50.37	7.7	138.1	28.25	13.73
111	2007	349	1015	28.53	52.51	8.1	141.5	23.52	13.73
111	2007	349	1030	28.38	50.67	7.49	148.3	30.67	13.73
111	2007	349	1045	28.68	48.05	7.49	136.3	30.45	13.71
111	2007	349	1100	28.88	46.41	7.16	139.7	28.94	13.7
111	2007	349	1115	29.34	45.67	7.94	134.9	23.97	13.7
111	2007	349	1130	29.74	47.88	7.56	138.1	32.14	13.71
111	2007	349	1145	30.13	42.82	7.77	154.9	34.46	13.72
111	2007	349	1200	30.09	40.84	7.72	157.6	33.34	13.71
111	2007	349	1215	30.44	41.71	7.45	160.5	29.07	13.72
111	2007	349	1230	30.35	38.63	8.05	168	27.45	13.1

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	349	1245	30.58	39.36	7.51	163.4	29.1	13.75
111	2007	349	1300	30.9	39.03	5.842	147.5	37.64	13.22
111	2007	349	1315	30.86	40.07	7.66	145.6	31.75	13
111	2007	349	1330	30.34	40.43	7.14	145.8	28.91	12.84
111	2007	349	1345	30.27	39.56	7.74	157.7	26.73	12.79
111	2007	349	1400	30.5	38.89	6.325	162.8	31.36	12.77
111	2007	349	1415	31.15	38.99	5.882	148.6	32.57	12.74
111	2007	349	1430	31.23	34.2	6.388	148.1	29.29	12.73
111	2007	349	1445	30.6	32.76	7.31	151.5	29.91	12.71
111	2007	349	1500	30.63	33.3	7.65	168.7	26.11	12.7
111	2007	349	1515	30.24	33.87	6.102	144.1	36.51	12.68
111	2007	349	1530	30.44	33.94	6.18	146.3	30.06	12.66
111	2007	349	1545	30.21	32.63	6.495	165.8	30.17	12.65
111	2007	349	1600	29.97	32.66	5.927	149.1	29.79	12.64
111	2007	349	1615	29.14	34.77	5.755	141.2	30.2	12.63
111	2007	349	1630	29.44	34.84	4.853	151.5	35.09	12.62
111	2007	349	1645	29.83	33.67	5.256	169	24.74	12.62
111	2007	349	1700	29.15	36.31	5.505	180.4	26.68	12.61
111	2007	349	1715	28.67	36.62	5.242	177.2	31.93	12.61
111	2007	349	1730	28.17	36.66	5.157	168.6	30.37	12.61
111	2007	349	1745	28	38.37	4.504	170.8	24.71	12.61
111	2007	349	1800	27.95	39.21	5.433	178.4	29.5	12.61
111	2007	349	1815	27.93	41.09	4.49	182.6	26.59	12.6
111	2007	349	1830	27.87	39.98	5.381	184.7	29.47	12.6
111	2007	349	1845	28	39.34	5.673	179.5	26.56	12.59
111	2007	349	1900	28.12	40.01	5.943	183.5	27.55	12.58
111	2007	349	1915	28.16	40.88	6.618	178.6	24.77	12.58
111	2007	349	1930	28.13	43	6.249	175.8	24.18	12.57
111	2007	349	1945	28.15	46.38	6.005	169.7	28.39	12.58
111	2007	349	2000	28.27	48.56	5.159	170.6	24.14	12.57
111	2007	349	2015	28.3	50.77	5.981	164.9	29.37	12.57
111	2007	349	2030	28.31	53.18	6.164	171.9	25.62	12.57
111	2007	349	2045	28.35	56.8	6.205	165.1	19.48	12.56
111	2007	349	2100	28.49	59.18	4.228	161.2	27.1	12.55
111	2007	349	2115	28.52	62.4	7.03	162.9	26.53	12.56
111	2007	349	2130	28.57	67.36	6.585	171.1	26.77	12.54
111	2007	349	2145	28.32	73.6	6.545	173.3	25.92	12.54
111	2007	349	2200	28.24	76.1	6.563	178.5	26.98	12.53
111	2007	349	2215	28.34	77.3	6.523	179.1	30.46	12.52
111	2007	349	2230	28.55	77.8	6.958	181.2	23.96	12.51
111	2007	349	2245	28.76	77.6	6.712	179.3	29.33	12.5
111	2007	349	2300	29.05	77	6.896	179	28.11	12.5
111	2007	349	2315	29.39	76.2	7.33	186.3	25.17	12.5
111	2007	349	2330	29.55	75.6	8.55	186.8	23.63	12.5
111	2007	349	2345	29.65	76.7	7.28	182.7	24.05	12.49
111	2007	349	2400	29.69	77.7	7.62	189.6	23.39	12.49
111	2007	350	15	29.84	78	6.255	186.5	25.93	12.48
111	2007	350	30	30.17	77.6	6.573	188.7	26.56	12.48
111	2007	350	45	30.93	75	7.49	200.1	21	12.47
111	2007	350	100	33.63	70.7	10.62	212.2	18.1	12.46
111	2007	350	115	33.94	71.3	11.18	212.5	16.39	12.47
111	2007	350	130	34.15	71.4	10.85	213	17.82	12.46
111	2007	350	145	34.43	70.1	11.03	212.7	19.5	12.46
111	2007	350	200	34.61	69.48	12.31	210.1	19.56	12.46
111	2007	350	215	34.58	70.3	10.6	212.8	16.22	12.46
111	2007	350	230	34.21	76.4	11.48	202.5	24.06	12.46
111	2007	350	245	33.85	77.4	12.14	206.4	21.78	12.46
111	2007	350	300	33.72	79	11.44	198.9	17.69	12.45
111	2007	350	315	33.52	80.7	10.21	198.9	17.57	12.45
111	2007	350	330	33.22	82.2	10.62	195	22.28	12.45

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	350	345	33.03	83.3	9.98	192.8	22.02	12.45
111	2007	350	400	32.78	86.4	8.47	187.9	24.33	12.45
111	2007	350	415	32.36	87.4	8.69	189.3	21.47	12.45
111	2007	350	430	32.1	88.2	8.69	187	23.43	12.45
111	2007	350	445	31.93	89.4	7.17	181.1	30.21	12.45
111	2007	350	500	31.51	91	7.41	186.7	32.76	12.45
111	2007	350	515	31.44	91.9	7.04	175.5	37.15	12.46
111	2007	350	530	31.49	92.5	7.51	181.4	34.96	12.45
111	2007	350	545	31.53	92.6	7.86	178.6	30.96	12.45
111	2007	350	600	31.52	93.2	8.95	178.9	29.81	12.46
111	2007	350	615	31.72	93.3	8.54	185.8	24.42	12.46
111	2007	350	630	31.99	93.5	8.72	182	30.04	12.47
111	2007	350	645	32.35	93.5	9.08	189.7	29.39	12.47
111	2007	350	700	32.77	93.4	9.36	189.8	29.4	12.5
111	2007	350	715	33.05	93.2	10.14	181.6	28.92	12.66
111	2007	350	730	33.27	92.8	11.45	190.8	26.46	12.89
111	2007	350	745	33.31	93	14.59	190.1	20.47	12.87
111	2007	350	800	33.58	92.7	14.65	198.3	19.5	12.81
111	2007	350	815	34.07	92.2	12.97	197.8	20.48	12.73
111	2007	350	830	34.92	91.3	13.12	197.4	21.99	12.74
111	2007	350	845	35.57	90.5	13.73	197.6	24.25	12.68
111	2007	350	900	35.82	91	14.18	196.9	23.09	12.64
111	2007	350	915	36.02	91.3	11.27	201.7	28.23	12.69
111	2007	350	930	36.34	91.4	11.83	192.7	23.09	12.84
111	2007	350	945	36.66	91.3	10.97	183.6	28.43	12.77
111	2007	350	1000	36.98	91.3	10.98	186.2	29.86	12.77
111	2007	350	1015	37.01	91.3	10.84	182.6	28.34	12.81
111	2007	350	1030	37.15	91.5	10.99	188	31.15	12.85
111	2007	350	1045	37.44	91.6	11.12	179.6	34.68	12.88
111	2007	350	1100	37.71	91.4	10.7	185.5	23.7	13.05
111	2007	350	1115	37.84	91.7	10.82	180.8	27.97	13.13
111	2007	350	1130	37.9	91.8	9.39	177.2	24.55	12.96
111	2007	350	1145	37.99	92	9.68	178.9	28.9	12.94
111	2007	350	1200	38.12	92.2	9.76	185.3	31.85	12.93
111	2007	350	1215	38.42	92.4	11.17	183	25.79	12.94
111	2007	350	1230	38.64	92.2	11.45	174.9	31.2	13.03
111	2007	350	1245	38.63	92.3	8.1	166.9	32.56	12.95
111	2007	350	1300	38.66	92.7	7.94	160.6	29.96	12.88
111	2007	350	1315	38.75	92.8	9.99	163.1	27.14	12.77
111	2007	350	1330	38.83	93.1	9.16	163.5	25.71	12.73
111	2007	350	1345	38.94	93	9.6	172	27.71	12.69
111	2007	350	1400	38.94	93.1	8.7	168.6	28.15	12.67
111	2007	350	1415	39.01	93.3	7.95	161	22.35	12.65
111	2007	350	1430	38.75	93.1	7.55	139.4	32.75	12.63
111	2007	350	1445	38.17	93.4	9.65	169.7	29.27	12.61
111	2007	350	1500	37.96	93.5	7.91	153.3	26.5	12.6
111	2007	350	1515	37.93	93.8	7.08	171.7	27.26	12.59
111	2007	350	1530	38.09	93.9	5.534	170	31.28	12.57
111	2007	350	1545	38.21	94.1	4.863	152.8	28.71	12.56
111	2007	350	1600	38.29	94.2	6.823	147.6	29.85	12.56
111	2007	350	1615	38.43	94.3	5.044	143.5	32.27	12.55
111	2007	350	1630	38.7	94.4	5.771	135.6	22.07	12.53
111	2007	350	1645	38.89	94.5	3.731	135.7	40.88	12.53
111	2007	350	1700	38.95	94.4	2.913	74.2	35.93	12.52
111	2007	350	1715	38.75	94.3	4.319	59.27	24.07	12.51
111	2007	350	1730	38.48	94.4	3.66	58.59	19.09	12.51
111	2007	350	1745	38.03	94.1	7.09	46.09	19.43	12.5
111	2007	350	1800	36.41	93.4	11.6	43.62	16.65	12.49
111	2007	350	1815	35.01	93	9.9	46.25	19.92	12.49
111	2007	350	1830	34.13	91.6	9.69	44.91	20.45	12.48

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	350	1845	33.86	91.3	8.12	40.17	17.91	12.47
111	2007	350	1900	33.87	90.8	8.49	34.86	17.58	12.48
111	2007	350	1915	33.89	90	8.99	28.83	14.6	12.47
111	2007	350	1930	33.75	89.9	8.21	24.22	17.27	12.47
111	2007	350	1945	33.64	89.2	6.94	18.21	18.35	12.46
111	2007	350	2000	33.58	86.9	7.86	16.2	15.1	12.46
111	2007	350	2015	33.47	86.9	7.96	18.56	16.29	12.45
111	2007	350	2030	33.67	85.9	9.11	16.04	18.68	12.45
111	2007	350	2045	34.1	85.1	9.38	14.62	15.34	12.45
111	2007	350	2100	34.58	83.1	9.78	20.17	16.22	12.45
111	2007	350	2115	35.13	79.8	10.43	16.62	23.05	12.45
111	2007	350	2130	35.48	78.3	11.58	13.93	25.14	12.44
111	2007	350	2145	36.06	70.7	14.6	15.26	16.73	12.44
111	2007	350	2200	36.45	59.93	16.55	21.92	22.06	12.43
111	2007	350	2215	36.37	57.82	15.05	26.63	15.95	12.43
111	2007	350	2230	35.96	59.66	12.58	24.34	19.95	12.43
111	2007	350	2245	35.57	56.68	15.73	21.54	17.21	12.43
111	2007	350	2300	35.17	56.45	15.52	24.37	14.45	12.42
111	2007	350	2315	34.99	56.88	16.48	27.18	15.62	12.42
111	2007	350	2330	34.76	58.76	14.67	19.3	15.76	12.42
111	2007	350	2345	34.38	58.19	14.61	16.7	19.65	12.41
111	2007	350	2400	34.27	58.69	14.03	21.98	16.34	12.41
111	2007	351	15	34.06	57.82	12.24	21.25	20.06	12.41
111	2007	351	30	33.94	54.74	15.66	26.8	21.33	12.41
111	2007	351	45	33.66	53.97	15.74	28.39	21.63	12.42
111	2007	351	100	33.26	54.84	14.86	31.69	22.23	12.41
111	2007	351	115	32.73	54.64	15.55	34.3	17.61	12.41
111	2007	351	130	32.13	54.47	17.07	30.73	18.66	12.41
111	2007	351	145	31.67	56.11	14.67	28.39	18.94	12.41
111	2007	351	200	31.2	55.54	13.84	44.99	21.86	12.41
111	2007	351	215	30.73	55.68	14.26	37.67	20.43	12.41
111	2007	351	230	30.38	55.75	11.47	37.75	22.4	12.41
111	2007	351	245	29.99	54.58	14.77	35.26	16.84	12.4
111	2007	351	300	29.61	53.88	14.29	38.79	18.43	12.4
111	2007	351	315	29.33	53.18	12.8	46.92	20.16	12.4
111	2007	351	330	28.98	53.24	13.12	36.11	17.28	12.4
111	2007	351	345	28.59	52.14	12.92	43.67	18.99	12.4
111	2007	351	400	28.2	54.42	13.92	44.41	17.96	12.4
111	2007	351	415	27.75	55.63	12.44	42.34	18.98	12.4
111	2007	351	430	27.45	51.68	11.74	43.94	17.14	12.4
111	2007	351	445	27.09	48.79	15.17	37.31	17.74	12.39
111	2007	351	500	26.14	45.34	16.92	42.73	20.46	12.39
111	2007	351	515	25.35	47.99	12.84	46.74	19.54	12.39
111	2007	351	530	24.73	46.08	15.03	48.05	20.03	12.39
111	2007	351	545	24.19	48.33	13.61	49.57	19.2	12.39
111	2007	351	600	23.99	49.94	10.38	47.08	19.38	12.38
111	2007	351	615	24.01	48.5	12.96	38.01	17.05	12.39
111	2007	351	630	24.17	49.04	11.88	50.24	24.25	12.4
111	2007	351	645	24.39	49.75	12.01	43.08	18.55	12.48
111	2007	351	700	24.7	49.81	11.6	43.82	23.07	12.66
111	2007	351	715	24.91	49.21	11.6	48.96	24.48	12.99
111	2007	351	730	25.09	49.04	11.68	52.76	19.08	13.21
111	2007	351	745	25.24	49.71	11.23	50.02	19.19	13.65
111	2007	351	800	25.27	50.41	8.79	48.19	19.61	13.69
111	2007	351	815	25.27	48.9	13.41	48	23.39	13.68
111	2007	351	830	25.15	49.51	10.77	46.61	22.14	13.67
111	2007	351	845	25.02	49.64	10.19	48.3	23.61	13.65
111	2007	351	900	25.08	50.38	10.3	50.64	20.26	13.64
111	2007	351	915	25.25	49.43	12.43	56.34	20	13.62
111	2007	351	930	25.32	50.24	12.3	46.68	24.36	13.62

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	351	945	25.64	49.6	9.88	50.28	22.78	13.61
111	2007	351	1000	25.8	48.06	9.47	52.84	25.34	13.53
111	2007	351	1015	26.34	46.92	7.17	52.75	25.75	13.22
111	2007	351	1030	26.93	45.24	9.57	54.49	24.69	13.6
111	2007	351	1045	27.39	44.37	11.08	58.49	23.24	13.61
111	2007	351	1100	28.1	44.17	10.84	48.94	19.43	13.17
111	2007	351	1115	28.3	44.13	12.54	48.02	19.48	13.25
111	2007	351	1130	28.55	44.03	13.36	49.6	22.42	13.17
111	2007	351	1145	28.8	45.77	14.26	50.43	19.22	13.19
111	2007	351	1200	28.69	45.7	14.95	52.06	19.72	12.93
111	2007	351	1215	29.4	44.16	11.3	59.4	20.35	12.89
111	2007	351	1230	29.69	43.12	12.94	50.11	21.65	12.89
111	2007	351	1245	29.68	42.78	13.66	51.24	21.68	12.87
111	2007	351	1300	30.11	41.71	13.27	56.36	21.12	12.8
111	2007	351	1315	30.56	40.4	14.16	55.39	19.55	12.79
111	2007	351	1330	30.59	39.9	13.99	58.44	19.41	12.77
111	2007	351	1345	31.19	38.39	13.06	60.32	22.05	12.75
111	2007	351	1400	31.34	37.59	15.43	56.63	20.53	12.73
111	2007	351	1415	31.43	37.42	14.2	55.84	21.93	12.72
111	2007	351	1430	31.5	38.22	13.52	59.18	19.58	12.71
111	2007	351	1445	31.72	37.49	12.57	57.34	20.13	12.7
111	2007	351	1500	31.75	37.52	14.02	51.03	23.98	12.69
111	2007	351	1515	31.93	36.62	12.26	64.4	23.29	12.68
111	2007	351	1530	31.79	37.52	13.82	68.08	22.5	12.67
111	2007	351	1545	31.64	37.05	11.11	50.45	19.8	12.66
111	2007	351	1600	31.83	36.52	9.1	50.56	23.43	12.65
111	2007	351	1615	31.52	37.45	11.02	56.66	24.73	12.65
111	2007	351	1630	31.37	37.12	10.55	52.53	19.55	12.64
111	2007	351	1645	31.24	36.65	11.51	59.22	21.23	12.64
111	2007	351	1700	31.09	37.69	11.1	55.9	18.06	12.63
111	2007	351	1715	30.98	37.29	11.8	61.68	20.82	12.63
111	2007	351	1730	30.7	38.69	9.9	60.78	22.54	12.63
111	2007	351	1745	30.4	41.01	7.89	59.11	21.82	12.62
111	2007	351	1800	30.11	41.01	6.676	61.93	25.67	12.61
111	2007	351	1815	30.07	40.68	8.56	64.13	22.18	12.61
111	2007	351	1830	30.03	41.85	9.83	61.94	22.67	12.61
111	2007	351	1845	29.88	41.52	9.01	53.86	22.77	12.6
111	2007	351	1900	29.99	41.59	10.07	56.79	22.1	12.59
111	2007	351	1915	29.9	41.49	8.99	58.63	19.33	12.58
111	2007	351	1930	29.87	41.76	8.46	60.71	21.24	12.57
111	2007	351	1945	29.91	42.53	8.04	60.66	22.52	12.57
111	2007	351	2000	29.9	43.03	9.08	60.23	25.3	12.57
111	2007	351	2015	29.93	43	8.17	56.15	23.85	12.56
111	2007	351	2030	29.81	43.8	7.07	56.07	21.85	12.55
111	2007	351	2045	29.59	45.07	5.763	50.56	23.35	12.54
111	2007	351	2100	29.67	45.91	8.45	58.9	22.31	12.54
111	2007	351	2115	29.55	47.22	7.91	61.08	27.56	12.54
111	2007	351	2130	29.42	48.36	7.24	57.25	19.01	12.53
111	2007	351	2145	29.26	48.09	7.74	60.46	21.08	12.53
111	2007	351	2200	29.25	49.26	7.04	52.4	17.43	12.52
111	2007	351	2215	29.13	49.73	6.706	50.43	21.85	12.52
111	2007	351	2230	29.09	50.17	6.69	51.45	19.58	12.51
111	2007	351	2245	28.97	50.54	7.77	50.69	20.31	12.52
111	2007	351	2300	28.88	50.7	7.69	53.45	20.57	12.52
111	2007	351	2315	28.72	51.34	4.732	67.99	26.97	12.52
111	2007	351	2330	28.65	52.21	5.628	53.86	19.47	12.51
111	2007	351	2345	28.42	53.15	6.477	53.07	18.62	12.51
111	2007	351	2400	28.42	53.79	6.974	54.95	24.48	12.51
111	2007	352	15	28.17	54.99	6.188	50.3	14.87	12.5
111	2007	352	30	28.1	55.46	5.87	49.62	21.32	12.5

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	352	45	27.94	56.5	4.309	51.38	20.99	12.49
111	2007	352	100	27.81	56.97	4.353	49.21	20.34	12.49
111	2007	352	115	27.64	57.88	3.438	43.62	24.6	12.48
111	2007	352	130	27.49	57.95	3.829	34.11	17.8	12.48
111	2007	352	145	27.49	58.32	4.978	38.03	16.37	12.47
111	2007	352	200	27.25	59.26	3.71	31.38	14.28	12.48
111	2007	352	215	27.2	59.63	3.91	37.42	15.26	12.47
111	2007	352	230	26.99	60.43	3.39	39.25	21.73	12.47
111	2007	352	245	26.87	60.1	3.769	34.03	18.51	12.46
111	2007	352	300	26.89	60.44	3.63	36.28	19.88	12.46
111	2007	352	315	26.72	60.1	3.311	30.19	16.01	12.45
111	2007	352	330	26.64	60.17	3.128	39.36	14.93	12.45
111	2007	352	345	26.07	61.65	1.994	16.27	15.18	12.45
111	2007	352	400	25.18	63.46	0.985	334	24.01	12.45
111	2007	352	415	24.66	65.4	0.732	1.721	19.99	12.44
111	2007	352	430	25	65.87	1.78	27.84	9.4	12.43
111	2007	352	445	25.02	66.61	2.457	26.05	12.16	12.43
111	2007	352	500	25.46	67.01	2.59	24.94	11.21	12.43
111	2007	352	515	25.12	67.62	1.677	16.49	17.94	12.41
111	2007	352	530	24.7	68.83	1.028	8.06	23.73	12.43
111	2007	352	545	24.55	69.27	1.27	11.42	23.49	12.43
111	2007	352	600	24.35	69.97	0.047	297.4	5.657	12.42
111	2007	352	615	23.03	73	0.488	353.9	11.08	12.42
111	2007	352	630	22.75	74.3	0.846	40.41	15.31	12.42
111	2007	352	645	22.59	74.7	0.056	228.7	2.43	12.43
111	2007	352	700	22.52	76.7	0.926	16.5	11.31	12.42
111	2007	352	715	22.11	77	0.109	11.41	5.898	12.42
111	2007	352	730	21.51	78.1	0.099	6.616	2.735	12.53
111	2007	352	745	21.41	78.1	0.166	323.6	1.81	12.65
111	2007	352	800	21.17	79	na	na	na	12.92
111	2007	352	815	21.33	79.2	0.57	11.47	14.79	13.29
111	2007	352	830	21.12	79.9	0.094	341.4	5.107	13.72
111	2007	352	845	21.73	81.3	na	na	na	13.71
111	2007	352	900	23.57	78.2	0.13	358.7	3.004	13.69
111	2007	352	915	25.52	70.7	1.013	353.4	9.49	13.68
111	2007	352	930	26.94	65.81	1.998	351.9	20.76	13.25
111	2007	352	945	28.07	62.72	2.179	11.48	21.64	13.69
111	2007	352	1000	29.47	58.79	2.727	24.38	27.54	13.67
111	2007	352	1015	30.42	56.1	4.041	38	24.15	13.65
111	2007	352	1030	31.17	54.02	4.962	51.05	21.77	13.34
111	2007	352	1045	31.63	53.65	5.326	60.61	16.85	13.15
111	2007	352	1100	32.42	51.96	4.931	46.08	29.58	13.12
111	2007	352	1115	32.93	50.45	4.814	55.44	24.27	13.32
111	2007	352	1130	33.3	49.21	5.624	69.83	23.49	13.62
111	2007	352	1145	33.41	49.34	5.743	71.2	25.8	13.21
111	2007	352	1200	33.76	49.07	5.044	45.5	22.35	13.25
111	2007	352	1215	34.07	48.26	6.199	56.65	26.56	13.28
111	2007	352	1230	34	47.25	6.037	47.7	25.88	13.07
111	2007	352	1245	34.48	48.69	6.074	55.53	22.91	13.01
111	2007	352	1300	34.46	49.16	6.775	49.84	21.15	13.11
111	2007	352	1315	34.57	49.16	7.32	23.1	22.06	12.94
111	2007	352	1330	35.04	47.89	6.299	32.57	25.05	12.84
111	2007	352	1345	35.49	48.29	4.466	40.51	34.84	12.79
111	2007	352	1400	35.57	48.23	3.648	33.65	39.12	12.77
111	2007	352	1415	36.2	51.04	4.976	342.7	32.31	12.74
111	2007	352	1430	36.02	51.77	5.816	337.5	24.98	12.72
111	2007	352	1445	35.5	52.91	7.6	347.1	23.42	12.71
111	2007	352	1500	35.29	54.69	7.23	347.2	28.55	12.69
111	2007	352	1515	35.09	56.03	7.63	329.5	24.05	12.68
111	2007	352	1530	35.2	56.16	7.48	335.5	31.29	12.67

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	352	1545	34.75	55.56	7.25	345.2	23.9	12.67
111	2007	352	1600	35.05	53.68	6.654	345.6	31.99	12.65
111	2007	352	1615	35.08	54.49	7.09	356.5	21.09	12.63
111	2007	352	1630	35.03	53.28	6.724	357.9	20.52	12.64
111	2007	352	1645	34.86	54.76	6.744	4.387	23.11	12.63
111	2007	352	1700	34.18	59.18	5.256	355.5	29.6	12.62
111	2007	352	1715	33.68	61.77	4.123	352.3	23.97	12.61
111	2007	352	1730	33.17	63.35	3.714	345.3	24.28	12.6
111	2007	352	1745	32.72	65.06	2.371	339.4	21.48	12.59
111	2007	352	1800	32.1	66.37	1.25	305.2	21.54	12.59
111	2007	352	1815	31.56	67.88	0.796	309.9	20.9	12.58
111	2007	352	1830	31.71	67.15	1.164	342.4	18.08	12.58
111	2007	352	1845	31.33	68.79	1.449	350.1	24.45	12.57
111	2007	352	1900	31.01	69.4	1.752	29.84	13.23	12.56
111	2007	352	1915	30.95	69.17	0.626	17.62	6.547	12.56
111	2007	352	1930	31	68.16	0.268	290.7	14.08	12.56
111	2007	352	1945	31.3	67.53	1.882	10.5	16.81	12.56
111	2007	352	2000	31.96	63.3	1.807	337.2	29.55	12.56
111	2007	352	2015	32.54	61.06	2.334	12.93	21.51	12.55
111	2007	352	2030	33.07	58.48	2.346	26.55	24.08	12.55
111	2007	352	2045	33.03	58.81	1.939	6.205	25.08	12.55
111	2007	352	2100	33.12	57.67	2.921	28.09	16.24	12.55
111	2007	352	2115	33.03	58.58	1.547	316.8	22.73	12.54
111	2007	352	2130	32.4	61.62	1.758	357.8	30.71	12.54
111	2007	352	2145	31.73	62.83	1.436	349.5	36.45	12.53
111	2007	352	2200	31.94	62.16	1.173	0.943	30.51	12.53
111	2007	352	2215	32.27	60.88	2.433	355.7	23.23	12.53
111	2007	352	2230	32.78	57.71	3.849	11.47	23.1	12.52
111	2007	352	2245	33.35	56.53	3.692	12.19	22.8	12.52
111	2007	352	2300	33.31	57.43	2.747	2.535	28.31	12.51
111	2007	352	2315	33.12	57.73	1.938	0.13	27.45	12.51
111	2007	352	2330	32.85	58.44	2.151	8.32	35.71	12.51
111	2007	352	2345	32.41	59.88	0.964	352.9	42.61	12.5
111	2007	352	2400	31.44	62.33	0.859	13.44	34.6	12.5
111	2007	353	15	30.87	64.07	0.941	238.9	56.16	12.5
111	2007	353	30	30.04	67.66	0.286	337.4	13.95	12.5
111	2007	353	45	28.73	70.8	0.552	44.45	10.3	12.48
111	2007	353	100	28.49	71.8	na	na	na	12.48
111	2007	353	115	28.44	73.1	0.229	245.1	2.181	12.47
111	2007	353	130	27.91	75.6	0.009	55.79	0	12.47
111	2007	353	145	28.09	76.4	0.892	17.13	20.74	12.47
111	2007	353	200	29.06	75.4	1.285	358.9	20.19	12.46
111	2007	353	215	29.15	74.8	1.403	23.82	21.29	12.45
111	2007	353	230	29.48	72.4	0.936	346.6	40.81	12.45
111	2007	353	245	28.05	75.6	na	na	na	12.44
111	2007	353	300	26.88	78.6	0.036	1.026	12.52	12.44
111	2007	353	315	26.62	79.9	0.009	46.14	0	12.43
111	2007	353	330	26.6	80.3	na	na	na	12.43
111	2007	353	345	26.62	80.9	0.354	98.5	5.482	12.43
111	2007	353	400	26.9	80.6	na	na	na	12.42
111	2007	353	415	27.26	81	0.307	15.28	3.844	12.41
111	2007	353	430	27.68	81.5	0.789	175.6	17.59	12.42
111	2007	353	445	27.89	81.8	0.132	31.34	0.464	12.4
111	2007	353	500	27.8	81.9	0.115	181.3	2.479	12.4
111	2007	353	515	27.6	82.2	na	na	na	12.4
111	2007	353	530	27.2	83	na	na	na	12.4
111	2007	353	545	27.3	83.5	na	na	na	12.39
111	2007	353	600	27.28	83.7	0.434	19.18	4.047	12.4
111	2007	353	615	27.45	83.8	0.39	45.93	2.465	12.4
111	2007	353	630	27.93	84	0.47	140.6	30.91	12.4

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	353	645	28.36	83.7	0.542	194.5	7.06	12.4
111	2007	353	700	28.82	83.1	0.065	83.9	3.754	12.41
111	2007	353	715	29.26	82.3	0.018	35.23	0.417	12.44
111	2007	353	730	29.24	82.4	0.029	139.1	1.708	12.45
111	2007	353	745	29.7	81.7	0.027	60.68	1.281	12.47
111	2007	353	800	30.03	81.4	0.3	112.1	15.81	12.55
111	2007	353	815	30.54	80.7	0.397	147.7	23.64	12.58
111	2007	353	830	30.98	80.3	0.806	128.9	31.08	12.56
111	2007	353	845	31.61	78.7	0.374	121.6	22.58	12.56
111	2007	353	900	32.08	77.4	0.445	157.9	20.97	12.56
111	2007	353	915	32.6	76.6	0.254	134	25.44	12.55
111	2007	353	930	33.15	75.3	0.881	157.4	29.15	12.55
111	2007	353	945	33.69	74.6	0.899	181.1	22.1	12.53
111	2007	353	1000	34.38	72.9	0.749	188.6	24.9	12.53
111	2007	353	1015	35.19	72.1	1.039	173.8	29.25	12.56
111	2007	353	1030	36.28	70.3	1.027	216.3	28.62	12.53
111	2007	353	1045	37.57	70.1	0.619	289.8	30.4	12.51
111	2007	353	1100	38.15	70.1	1.067	226.3	49.13	12.51
111	2007	353	1115	38.63	70	1.23	281.3	31.31	12.49
111	2007	353	1130	38.73	70.4	1.19	293.1	24.77	12.48
111	2007	353	1145	38.97	70.5	1.507	282.2	20.49	12.47
111	2007	353	1200	39.07	71	1.6	276.9	20.43	12.44
111	2007	353	1215	38.92	72.2	1.857	255.4	17.5	12.43
111	2007	353	1230	39.2	73.1	1.885	265.8	29.55	12.41
111	2007	353	1245	40.05	72.3	2.304	259.2	21.51	12.41
111	2007	353	1300	40.19	73.7	2.251	227.4	33.09	12.41
111	2007	353	1315	39.97	74.5	1.891	270	35.98	12.41
111	2007	353	1330	40.14	74.5	2.42	308.5	32.76	12.41
111	2007	353	1345	40.29	74.5	1.122	300.1	41.79	12.41
111	2007	353	1400	40.81	73.6	2.175	280.5	26.45	12.4
111	2007	353	1415	41.3	73	2.195	265	31.24	12.4
111	2007	353	1430	41.91	72	2.177	280.4	43.65	12.4
111	2007	353	1445	41.86	72.8	1.522	309.4	32.98	12.4
111	2007	353	1500	41.91	72.8	1.48	285.3	30.58	12.39
111	2007	353	1515	42.13	73.2	1.669	292	33.37	12.4
111	2007	353	1530	42.23	74	1.845	297.8	24.05	12.4
111	2007	353	1545	42.51	73.2	1.727	251.7	44	12.39
111	2007	353	1600	42.48	74.1	2.268	221.8	22.52	12.39
111	2007	353	1615	42.55	73.7	1.665	243.7	19.95	12.39
111	2007	353	1630	42.52	73.9	1.787	264.4	33.19	12.39
111	2007	353	1645	41.99	74.9	2.202	273.6	24	12.39
111	2007	353	1700	41.45	76.3	1.861	263.1	20.66	12.39
111	2007	353	1715	41.26	77.3	2.661	252.8	19.18	12.39
111	2007	353	1730	41.03	78.2	2.382	279.1	25.31	12.39
111	2007	353	1745	40.94	78.4	2.205	280.9	26.71	12.38
111	2007	353	1800	41.1	78.2	1.702	275.3	25.95	12.39
111	2007	353	1815	41.03	78.7	1.328	268.3	17.89	12.38
111	2007	353	1830	40.99	79.5	1.374	262.1	23.37	12.39
111	2007	353	1845	40.89	80.7	1.155	277.5	21.4	12.39
111	2007	353	1900	40.9	76.5	4.448	339.5	30.15	12.39
111	2007	353	1915	39.77	83.2	4.917	353.2	24.9	12.37
111	2007	353	1930	38.62	86.5	4.047	4.469	27.3	12.39
111	2007	353	1945	38.3	87.6	4.559	6.354	16.86	12.39
111	2007	353	2000	38.05	87.8	5.501	8.37	19.06	12.38
111	2007	353	2015	37.67	88.1	5.967	11.81	12.47	12.38
111	2007	353	2030	37.25	88.8	4.909	16.04	19.58	12.38
111	2007	353	2045	37.01	89.3	4.301	29.83	18.81	12.37
111	2007	353	2100	36.89	89.7	3.297	33.63	16.43	12.37
111	2007	353	2115	36.8	89.9	1.824	75.6	27.05	12.37
111	2007	353	2130	36.55	90.3	1.916	62.73	15.44	12.37

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	353	2145	36.22	90.5	2.427	59.55	16.32	12.37
111	2007	353	2200	35.97	90.8	2.709	55.7	17.53	12.37
111	2007	353	2215	35.79	90.9	3.664	58.92	18.2	12.37
111	2007	353	2230	35.63	90.9	3.992	72.5	22.56	12.37
111	2007	353	2245	35.4	91.1	4.216	78.6	22.36	12.37
111	2007	353	2300	35.23	91	3.299	77.8	20.82	12.36
111	2007	353	2315	35.12	91.1	2.781	79.7	17.92	12.37
111	2007	353	2330	34.98	91.1	3.33	82.5	17.89	12.36
111	2007	353	2345	34.77	91.2	2.753	72.1	23.48	12.36
111	2007	353	2400	34.63	91.3	2.15	82.9	20.28	12.36
111	2007	354	15	34.52	91.4	1.443	85.7	19.01	12.35
111	2007	354	30	34.31	91.6	0.971	77	18.03	12.36
111	2007	354	45	33.99	91.7	1.03	75.5	12.27	12.36
111	2007	354	100	33.65	91.8	1.001	60	16.66	12.36
111	2007	354	115	33.44	92.1	0.838	71.9	12.33	12.36
111	2007	354	130	33.22	92.2	0.594	83.1	12.58	12.35
111	2007	354	145	32.9	92.2	0.574	36.86	9.72	12.35
111	2007	354	200	31.98	92.5	0.218	6.827	10.54	12.35
111	2007	354	215	31.42	93.1	0	0	0	12.35
111	2007	354	230	31.44	92.9	0	0	0	12.35
111	2007	354	245	31.65	93.4	0.345	21.41	6.771	12.34
111	2007	354	300	32.56	93.4	1.18	57.37	22.8	12.35
111	2007	354	315	32.93	93.1	0.514	29.68	20.1	12.35
111	2007	354	330	32.97	93.1	0.675	34.82	11.23	12.34
111	2007	354	345	33	93.2	1.276	22.26	14.81	12.34
111	2007	354	400	33	93.2	1.684	30.8	12.26	12.35
111	2007	354	415	33.14	93	1.668	49.09	17.01	12.35
111	2007	354	430	33.32	92.8	2.246	38.46	17.51	12.35
111	2007	354	445	33.53	92.5	2.119	40.97	19.27	12.35
111	2007	354	500	33.63	92.3	1.792	46.95	16.86	12.35
111	2007	354	515	33.74	92	1.929	41.33	17.7	12.35
111	2007	354	530	33.78	91.8	1.634	53.81	17	12.35
111	2007	354	545	33.74	91.6	1.377	57.14	15.68	12.35
111	2007	354	600	33.71	91.6	1.245	42.38	14.3	12.34
111	2007	354	615	33.74	91.5	1.512	57.2	15.28	12.34
111	2007	354	630	33.77	91.2	1.421	60.65	16.51	12.35
111	2007	354	645	33.86	90.7	2.276	71.8	17.33	12.34
111	2007	354	700	33.97	90	2.892	79.7	19.73	12.34
111	2007	354	715	34.04	89.6	2.74	73.2	18.54	12.37
111	2007	354	730	33.94	89.3	3.063	72.9	19.36	12.38
111	2007	354	745	33.99	89.3	2.403	57.15	19.23	12.4
111	2007	354	800	33.81	89	2.217	49.17	15.24	12.4
111	2007	354	815	33.52	89.3	1.917	38.97	13.84	12.47
111	2007	354	830	33.53	89.1	2.33	51.18	15.51	12.57
111	2007	354	845	33.7	88.9	3.289	52.64	14.51	12.56
111	2007	354	900	33.95	88.3	3.525	51.35	14.88	12.56
111	2007	354	915	34.18	87.6	3.638	51.15	14.95	12.61
111	2007	354	930	34.42	87.4	3.332	52.52	17.41	12.65
111	2007	354	945	34.63	87.1	3.706	55	17.3	12.71
111	2007	354	1000	34.96	86	3.862	54.07	17.65	12.72
111	2007	354	1015	35.52	83.7	4.847	56.04	14.02	12.71
111	2007	354	1030	36.29	81.1	4.035	57.93	18.68	12.65
111	2007	354	1045	36.88	77	5.554	58.33	20.32	12.65
111	2007	354	1100	37.83	73	6.118	55.25	19.13	12.62
111	2007	354	1115	38.59	70.6	6.787	65.36	23.19	12.59
111	2007	354	1130	39.17	69.99	5.669	69.32	21.83	12.53
111	2007	354	1145	40	67.65	4.446	71.7	22.09	12.49
111	2007	354	1200	40.23	65.84	4.639	62.48	28.94	12.46
111	2007	354	1215	40.66	63.58	6.1	68.49	21.35	12.44
111	2007	354	1230	41.25	60.93	5.695	80.2	25.24	12.43

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	354	1245	41.12	61.07	6.922	71.8	22.85	12.41
111	2007	354	1300	41.66	60.06	5.854	60.89	27.54	12.39
111	2007	354	1315	41.86	59.36	6.335	71.9	27.41	12.39
111	2007	354	1330	42.04	60.29	6.186	86.7	33.41	12.39
111	2007	354	1345	42.36	57.88	5.554	76.6	30.12	12.37
111	2007	354	1400	42.84	56.71	5.832	88	30.3	12.36
111	2007	354	1415	42.99	56.04	5.798	86.8	25.14	12.36
111	2007	354	1430	43.33	55.84	6.577	102.6	30.16	12.36
111	2007	354	1445	42.36	57.21	6.468	82.2	23.23	12.36
111	2007	354	1500	42.41	59.19	6.253	81.9	32.67	12.36
111	2007	354	1515	41.85	58.22	5.89	81.7	24.3	12.35
111	2007	354	1530	41.81	56.65	5.659	94.5	23.93	12.36
111	2007	354	1545	41.8	57.18	5.62	98	26.29	12.36
111	2007	354	1600	41.77	57.92	5.963	72.6	21.74	12.36
111	2007	354	1615	41.63	58.29	5.177	74.8	22.87	12.36
111	2007	354	1630	41.54	57.93	4.853	76.8	19.66	12.35
111	2007	354	1645	41.62	57.99	3.811	83.1	24.68	12.35
111	2007	354	1700	42.01	58.13	4.367	116	26.75	12.35
111	2007	354	1715	41.29	59.27	4.071	124	28.58	12.35
111	2007	354	1730	41.04	60.17	3.001	123.3	22.47	12.35
111	2007	354	1745	40.57	61.95	2.911	139.8	24.5	12.35
111	2007	354	1800	40.26	62.89	3.164	128.8	21.88	12.34
111	2007	354	1815	40	64.33	2.344	123.3	21.92	12.34
111	2007	354	1830	39.56	65.34	2.734	129.5	19.18	12.35
111	2007	354	1845	39.11	66.61	1.685	107.2	25.16	12.34
111	2007	354	1900	39.05	66.75	1.645	83.5	29.29	12.34
111	2007	354	1915	38.73	68.76	0.785	44.84	20.89	12.35
111	2007	354	1930	38.58	68.89	1.214	44.32	12.91	12.34
111	2007	354	1945	38.87	67.22	2.107	64.67	18.67	12.35
111	2007	354	2000	39.11	66.31	2.302	78.2	20.79	12.35
111	2007	354	2015	39.36	66.11	2.496	92.4	21.12	12.34
111	2007	354	2030	39.25	66.91	2.967	112.9	29.93	12.34
111	2007	354	2045	38.96	67.65	3.305	121.6	27.29	12.34
111	2007	354	2100	38.73	68.69	2.486	119.6	24.97	12.34
111	2007	354	2115	38.64	68.99	2.373	88.4	22.38	12.34
111	2007	354	2130	38.46	68.99	2.794	71.5	21.1	12.33
111	2007	354	2145	38.16	69.76	1.67	90.6	24.78	12.33
111	2007	354	2200	37.74	70.5	1.603	87.8	27.85	12.33
111	2007	354	2215	37.18	71.3	0.843	74	34.77	12.32
111	2007	354	2230	36.52	73	1.73	101.4	18.34	12.33
111	2007	354	2245	36.27	72.5	2.381	118.6	27.65	12.33
111	2007	354	2300	36.23	72.9	2.731	125.9	26.09	12.32
111	2007	354	2315	35.93	73.7	2.751	121.5	24.79	12.32
111	2007	354	2330	35.76	73.8	2.828	129.1	24.16	12.31
111	2007	354	2345	35.37	74.7	1.91	122.8	26.94	12.3
111	2007	354	2400	35.21	74.1	3.102	130.5	25.83	12.3
111	2007	355	15	35.39	73.9	3.747	127.6	26.11	12.3
111	2007	355	30	35.14	74.8	3.15	123.2	26.44	12.29
111	2007	355	45	34.78	75.7	2.878	133.8	20.66	12.29
111	2007	355	100	34.53	76.7	1.572	168.9	20.13	12.28
111	2007	355	115	34.61	77.3	2.587	165	25.54	12.27
111	2007	355	130	34.9	78.5	3.96	167.8	29.41	12.27
111	2007	355	145	35.09	79.6	4.206	177.7	31	12.27
111	2007	355	200	35.17	80.7	3.6	174.6	28.46	12.26
111	2007	355	215	35.23	81.3	3.322	174.7	20.89	12.25
111	2007	355	230	35.2	81.5	2.601	175.5	25.92	12.25
111	2007	355	245	35.16	82.1	3.36	178.2	26.14	12.25
111	2007	355	300	35.12	83.2	3.134	182.5	29.76	12.25
111	2007	355	315	34.7	85.4	4.123	184.4	23.54	12.24
111	2007	355	330	34.06	87.6	3.118	173.2	24.17	12.24

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	355	345	33.86	89	3.499	166.2	24.67	12.24
111	2007	355	400	33.57	90.1	3.72	150.8	30.38	12.23
111	2007	355	415	33.57	90.7	2.818	149.5	38.2	12.23
111	2007	355	430	33.69	91	3.217	147.8	26.77	12.23
111	2007	355	445	33.75	91.2	3.098	138.7	36.21	12.23
111	2007	355	500	33.9	91.1	3.608	139	27.97	12.22
111	2007	355	515	34.06	90.8	4.337	160.4	26.6	12.22
111	2007	355	530	34.17	90.4	4.246	165.4	26.19	12.22
111	2007	355	545	34.25	89.7	3.982	163	26.5	13.02
111	2007	355	600	34.32	89	5.171	159.4	21.94	13.22
111	2007	355	615	34.38	88.4	4.867	163.4	25.12	13.68
111	2007	355	630	34.44	87.8	4.261	172.5	25.21	13.65
111	2007	355	645	34.49	87.2	4.532	170.7	28.39	13.64
111	2007	355	700	34.49	87	3.617	180.6	28.36	12.91
111	2007	355	715	34.55	86.6	4.667	179.8	26.07	13.07
111	2007	355	730	34.63	86.1	5.391	174.6	30.17	13.11
111	2007	355	745	34.72	85.7	5.546	179.6	30.58	13.61
111	2007	355	800	34.69	84.7	6.259	175.5	27	13.61
111	2007	355	815	34.66	84.4	6.136	178.8	29.84	13.6
111	2007	355	830	34.68	83.9	5.828	169.3	25.9	13.6
111	2007	355	845	34.69	83.6	6.045	171.7	32.59	13.59
111	2007	355	900	34.75	82.8	6.847	179.1	26.38	13.59
111	2007	355	915	34.86	82.6	4.877	169.6	29.78	13.6
111	2007	355	930	34.74	82	6.102	175	26.85	13.59
111	2007	355	945	34.72	81.6	6.211	170.9	32.38	13.59
111	2007	355	1000	34.75	80.9	6.336	177.4	31.48	13.6
111	2007	355	1015	34.77	80.7	6.722	170.2	28.01	13.59
111	2007	355	1030	34.72	80.5	6.936	178	34.76	13.58
111	2007	355	1045	34.97	79.5	6.702	175	29.48	13.59
111	2007	355	1100	35.26	78.9	6.513	178.6	30.91	13.58
111	2007	355	1115	35.99	77.2	6.414	179.8	25.89	13.58
111	2007	355	1130	36.79	75.6	6.666	165.3	32.71	13.59
111	2007	355	1145	37.48	73.3	7.65	189	26.22	13.59
111	2007	355	1200	38.41	70.5	7.73	187.9	27.72	13.6
111	2007	355	1215	38.9	69.09	8.75	192.4	22.99	13.6
111	2007	355	1230	39.32	67.61	8.59	187.5	23.58	13.1
111	2007	355	1245	39.23	69.15	6.692	179.3	29.47	13.11
111	2007	355	1300	39.54	67.1	6.567	193.5	28.31	13
111	2007	355	1315	40.18	64.96	5.814	175.1	31.56	12.89
111	2007	355	1330	40.71	65.63	7.13	181.2	27.46	12.83
111	2007	355	1345	40.06	66.69	6.829	165.6	21.13	12.8
111	2007	355	1400	39.8	65.92	5.592	171.3	33.15	12.78
111	2007	355	1415	39.59	66.09	6.607	169.9	25.72	12.77
111	2007	355	1430	39.82	64.79	5.985	180.4	29.59	12.76
111	2007	355	1445	40.11	64.12	7.32	187.7	24.27	12.74
111	2007	355	1500	39.94	63.82	7.09	189.7	25.5	12.73
111	2007	355	1515	39.85	63.29	8.03	196.5	21.62	12.72
111	2007	355	1530	39.84	65.13	6.398	188.1	25.57	12.71
111	2007	355	1545	39.22	65.7	7.53	186.8	25.6	12.71
111	2007	355	1600	38.5	64.93	7.14	189.6	25.62	12.69
111	2007	355	1615	39.21	63.73	7.04	194.8	23.06	12.69
111	2007	355	1630	39.01	64.36	7.62	205.5	23.58	12.68
111	2007	355	1645	38	66.57	7.71	209.2	19.86	12.67
111	2007	355	1700	37.4	68.92	6.053	176.5	29.48	12.67
111	2007	355	1715	36.54	70.1	5.947	167.1	25.98	12.67
111	2007	355	1730	36.04	70.9	6.049	171.1	28.16	12.66
111	2007	355	1745	35.7	72	5.55	157.1	26.02	12.66
111	2007	355	1800	35.08	73	6.146	164	23.8	12.65
111	2007	355	1815	34.71	73.8	6.043	166.6	23.44	12.65
111	2007	355	1830	34.44	74.5	6.257	167	25.6	12.64

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	355	1845	33.97	75.4	5.427	163.6	25.42	12.64
111	2007	355	1900	33.63	75.9	4.98	163	31.05	12.64
111	2007	355	1915	33.34	76.9	6.158	159.7	18.36	12.63
111	2007	355	1930	32.92	78.4	4.746	165.3	22.96	12.63
111	2007	355	1945	32.66	79.1	4.863	160.9	24.26	12.63
111	2007	355	2000	32.61	79.3	4.412	163.6	27.16	12.61
111	2007	355	2015	32.65	79.4	5.235	159.1	23.32	12.61
111	2007	355	2030	32.56	79.7	5.707	164.3	22.53	12.61
111	2007	355	2045	32.4	80.1	4.722	164.6	23.23	12.61
111	2007	355	2100	32.26	80.2	4.951	165	26.45	12.61
111	2007	355	2115	32.16	80.3	4.15	162	25.67	12.61
111	2007	355	2130	32.04	80.2	4.635	180.3	31.88	12.6
111	2007	355	2145	32.05	80	6.259	179.9	22.62	12.6
111	2007	355	2200	31.99	80	5.352	172.6	29.12	12.6
111	2007	355	2215	32.2	79.4	5.389	170.2	23.27	12.59
111	2007	355	2230	32.56	79	4.804	170.1	27.5	12.59
111	2007	355	2245	32.82	78.5	4.536	167.8	26.6	12.59
111	2007	355	2300	33.03	78.2	4.214	160.7	26.15	12.59
111	2007	355	2315	33.19	77.9	4.561	172.5	35.25	12.58
111	2007	355	2330	33.22	78.1	4.949	174.5	27.62	12.58
111	2007	355	2345	33.24	78.8	6.13	172.4	26.57	12.57
111	2007	355	2400	33.03	79.3	6.513	180.4	28.27	12.57
111	2007	356	15	33.13	79.4	6.821	178.4	29.17	12.57
111	2007	356	30	32.95	80.2	6.612	176.9	27.41	12.56
111	2007	356	45	32.87	80.7	5.509	183.9	28.25	12.56
111	2007	356	100	32.98	80.5	5.991	173	28.21	12.56
111	2007	356	115	33.05	80.6	5.624	167.4	25.62	12.55
111	2007	356	130	33.23	80.7	5.318	167	26.79	12.55
111	2007	356	145	33.41	80.4	5.358	160.4	23.83	12.55
111	2007	356	200	33.51	80.4	4.285	166.2	28.1	12.55
111	2007	356	215	33.52	80.6	4.595	169	31.52	12.55
111	2007	356	230	33.59	80.4	4.42	164.3	23.69	12.53
111	2007	356	245	33.68	80.7	3.829	168	27.04	12.54
111	2007	356	300	33.66	80.6	4.994	166.7	26.14	12.53
111	2007	356	315	33.62	81.9	5.373	168.3	22.79	12.52
111	2007	356	330	33.46	83.2	5.137	166.6	26.63	12.52
111	2007	356	345	33.26	84.6	5.153	160.4	26.7	12.52
111	2007	356	400	33.31	83.9	5.078	170.1	21.27	12.51
111	2007	356	415	33.39	83.6	5.231	161.8	31.5	12.51
111	2007	356	430	33.32	84.4	4.389	168.9	30.23	12.51
111	2007	356	445	33.22	84.9	5.743	165.1	23.73	12.5
111	2007	356	500	33.27	84.7	5.123	161.6	24.09	12.5
111	2007	356	515	33.26	85.4	4.867	162.7	23.03	12.5
111	2007	356	530	33.03	86.2	4.401	160.1	31	12.5
111	2007	356	545	33.06	86.2	4.794	161.9	24.33	12.58
111	2007	356	600	33.15	85.5	5.096	159.6	26.15	12.86
111	2007	356	615	33.21	85	4.837	164.6	25.19	13.83
111	2007	356	630	33.26	84.2	5.191	163.2	24.69	13.81
111	2007	356	645	33.11	85.6	5.058	167.5	28.53	13.79
111	2007	356	700	32.82	86.6	5.634	160.8	24.97	13
111	2007	356	715	32.93	86.2	5.225	167.1	28.81	13.17
111	2007	356	730	33	86.3	5.268	167.6	26.98	13.65
111	2007	356	745	32.92	86.5	5.225	167.6	30.05	13.74
111	2007	356	800	32.88	87.2	5.294	169.7	23.37	13.72
111	2007	356	815	32.79	87.9	5.389	169.4	24.28	13.71
111	2007	356	830	32.72	88.4	4.782	170.1	25.97	13.69
111	2007	356	845	32.76	88.6	4.72	164.2	30.01	13.68
111	2007	356	900	32.94	88.3	4.816	163	22.13	13.67
111	2007	356	915	33.12	88.4	5.235	172.6	28.69	13.67
111	2007	356	930	33.23	88.4	5.185	167.5	25.36	13.65

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	356	945	33.55	88	5.173	171.1	24.51	13.65
111	2007	356	1000	33.9	87.1	4.577	157.2	27.86	13.64
111	2007	356	1015	34.28	86.3	4.27	161.6	26.22	13.64
111	2007	356	1030	34.65	85.4	5.187	161.8	23.08	13.64
111	2007	356	1045	35.01	84.7	4.746	162.2	24.05	13.64
111	2007	356	1100	35.31	83.2	5.91	167.8	28.15	13.63
111	2007	356	1115	35.69	82.4	5.62	162.1	27.03	13.63
111	2007	356	1130	36.02	81.1	5.757	155.7	23.76	13.62
111	2007	356	1145	36.22	80.1	5.532	161.4	22.43	13.62
111	2007	356	1200	36.45	79.3	5.336	160	25.51	13.62
111	2007	356	1215	36.72	78.4	4.78	161.7	26.62	13.62
111	2007	356	1230	36.84	77.7	5.423	158.9	24.98	13.09
111	2007	356	1245	37.11	77.5	4.986	164.3	28	13.65
111	2007	356	1300	37.23	77.5	4.635	164.3	21.93	13.34
111	2007	356	1315	37.38	77.1	4.667	158	24.65	13.07
111	2007	356	1330	37.52	76.8	4.412	159.9	23.23	12.91
111	2007	356	1345	37.67	76.5	5.28	162.2	27.03	12.82
111	2007	356	1400	37.83	76.2	5.217	175.8	27.28	12.79
111	2007	356	1415	38.05	76	4.279	172.9	25.29	12.77
111	2007	356	1430	38.13	75.9	5.29	170.7	23.02	12.74
111	2007	356	1445	38.2	76.1	4.881	173.5	25.94	12.72
111	2007	356	1500	38.37	76.1	4.929	173.2	27.29	12.7
111	2007	356	1515	38.55	76.1	5.062	167.9	28.99	12.69
111	2007	356	1530	38.57	75.8	5.149	173.5	25.19	12.68
111	2007	356	1545	38.53	76.4	4.877	171.9	30.57	12.67
111	2007	356	1600	38.53	76.7	5.576	176	22.42	12.67
111	2007	356	1615	38.59	76.6	4.708	172.1	24.97	12.65
111	2007	356	1630	38.55	76.7	4.607	159.3	26.25	12.64
111	2007	356	1645	38.5	77.2	4.154	163.9	25.91	12.63
111	2007	356	1700	38.46	77.6	4.468	170	28.01	12.63
111	2007	356	1715	38.47	77.6	4.033	160.5	31.15	12.62
111	2007	356	1730	38.46	77.7	3.37	155.9	21.28	12.62
111	2007	356	1745	38.5	78.1	4.123	164.8	21.09	12.6
111	2007	356	1800	38.52	78.5	4.496	174.6	31.57	12.6
111	2007	356	1815	38.58	79.1	5.348	174.6	21.02	12.58
111	2007	356	1830	38.63	79.6	5.657	183.9	22.36	12.58
111	2007	356	1845	38.72	79.9	5.604	189.2	20.73	12.57
111	2007	356	1900	38.9	79.9	4.782	187.2	24.57	12.56
111	2007	356	1915	38.99	80.4	4.752	181.5	25.35	12.55
111	2007	356	1930	39.08	80.7	4.955	185	23.94	12.55
111	2007	356	1945	39.23	80.7	4.945	189.2	23.42	12.54
111	2007	356	2000	39.37	81	5.314	183	24.25	12.54
111	2007	356	2015	39.5	81.4	5.135	187.6	20.5	12.53
111	2007	356	2030	39.65	81.8	4.692	183.4	26.91	12.52
111	2007	356	2045	39.87	82	4.804	184.2	24.24	12.52
111	2007	356	2100	40.09	82.4	4.823	183.1	22.26	12.52
111	2007	356	2115	40.28	82.9	4.891	179.2	25.16	12.51
111	2007	356	2130	40.39	83.3	3.491	168.8	22.54	12.51
111	2007	356	2145	40.55	83.5	2.745	170.4	27.44	12.5
111	2007	356	2200	40.7	83.6	2.971	163.9	22.04	12.5
111	2007	356	2215	40.74	83.9	3.148	158	22.06	12.5
111	2007	356	2230	40.76	84.3	3.386	176.4	27.67	12.49
111	2007	356	2245	40.88	84.8	3.557	166.2	21.47	12.48
111	2007	356	2300	41.05	85.2	3.156	166.5	27.69	12.48
111	2007	356	2315	41.14	85.6	3.436	171.7	23.23	12.48
111	2007	356	2330	41.12	86.3	3.626	171.3	28.73	12.46
111	2007	356	2345	41.11	87.1	4.156	183	26.46	12.46
111	2007	356	2400	41.12	87.7	3.281	178.2	25.19	12.46
111	2007	357	15	41.27	88.3	3.487	175.1	33.11	12.46
111	2007	357	30	41.23	88.8	1.964	171.7	24.11	12.46

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	357	45	41.52	89.5	2.941	181.2	25.3	12.45
111	2007	357	100	42.3	90.7	2.908	193.3	41.73	12.45
111	2007	357	115	43.22	90.4	4.103	211.8	19.07	12.45
111	2007	357	130	43.49	90.7	3.984	205.4	18.8	12.44
111	2007	357	145	43.99	90.8	4.698	207.5	17.19	12.44
111	2007	357	200	44.13	90.8	3.571	201.1	17.65	12.43
111	2007	357	215	44.05	90.6	3.422	182	26.5	12.43
111	2007	357	230	42.87	90.2	2.171	137.1	22.57	12.44
111	2007	357	245	41.28	91.1	1.181	153.5	16.46	12.44
111	2007	357	300	40.99	91.7	0.962	145.7	21.56	12.44
111	2007	357	315	41.24	92.1	1.26	143.9	22.25	12.43
111	2007	357	330	41.61	92.1	1.081	147.1	20.23	12.42
111	2007	357	345	41.47	91.8	1.68	133.5	25.87	12.43
111	2007	357	400	40.87	92.3	1.51	142.5	24.33	12.43
111	2007	357	415	40.98	92.3	1.495	160.1	22.97	12.43
111	2007	357	430	41.04	92.3	2.114	164	26.17	12.43
111	2007	357	445	41.03	92.4	2.31	168.7	28.68	12.42
111	2007	357	500	41.27	92.5	2.673	161.2	20.81	12.42
111	2007	357	515	41.6	92.5	3.134	179.5	29.22	12.43
111	2007	357	530	42.04	92.5	2.786	181.4	30.27	12.42
111	2007	357	545	42.46	92.2	3.52	175	27.7	12.44
111	2007	357	600	42.66	92.2	2.246	175.6	27.59	12.5
111	2007	357	615	42.74	92.1	1.771	174.2	25.25	12.59
111	2007	357	630	42.87	92.3	2.337	177.4	22.88	12.72
111	2007	357	645	43.41	92.6	2.254	179.7	18.95	12.76
111	2007	357	700	44.06	93.3	2.379	190.3	24.91	12.84
111	2007	357	715	45.43	92.8	4.601	210.7	18.82	12.98
111	2007	357	730	45.92	92.6	4.98	218	17.9	13.33
111	2007	357	745	45.9	92.9	5.822	223.8	18.54	13.34
111	2007	357	800	45.81	93.5	5.953	223.1	15.27	13.86
111	2007	357	815	45.67	94.1	6.203	234.5	18.69	13.83
111	2007	357	830	45.61	94.4	6.194	233.7	17.63	13.81
111	2007	357	845	45.54	94.5	5.566	232.5	17.42	13.8
111	2007	357	900	45.35	95.1	6.279	226.6	20.43	13.8
111	2007	357	915	45.93	95.3	6.906	222.4	18.97	13.79
111	2007	357	930	46.75	95.1	8.49	226.9	18.09	13.77
111	2007	357	945	46.97	94.8	8.79	229.1	19.19	13.33
111	2007	357	1000	47.05	94.5	8.36	223.8	18.75	13.22
111	2007	357	1015	47.21	93.6	7.67	226.9	15.64	13.07
111	2007	357	1030	47.18	92.4	7.63	230.6	15.58	12.95
111	2007	357	1045	47.06	91.4	7.07	233	16.57	12.88
111	2007	357	1100	46.89	90.2	6.595	235.8	16.69	12.85
111	2007	357	1115	46.53	90.3	5.638	235.2	15.01	12.8
111	2007	357	1130	47.34	89.3	6.839	245.3	20.68	12.76
111	2007	357	1145	47.78	88.9	6.773	248.5	20.86	12.73
111	2007	357	1200	47.92	89	6.336	249.9	26.86	12.73
111	2007	357	1215	48.34	88.7	7.03	257.5	23.4	12.72
111	2007	357	1230	48.69	88.4	6.849	250.1	22.58	12.69
111	2007	357	1245	49	88.2	6.884	254.5	25.77	12.68
111	2007	357	1300	49.02	87.8	6.865	253.7	26.35	12.68
111	2007	357	1315	48.94	87.5	8.04	253.9	21.56	12.67
111	2007	357	1330	48.86	88	6.775	252.4	23.68	12.65
111	2007	357	1345	49.14	87.3	6.684	258.4	22.71	12.65
111	2007	357	1400	49.23	87.1	6.505	257.3	25.77	12.64
111	2007	357	1415	49.46	87	7.37	253.9	23.8	12.63
111	2007	357	1430	49.04	87.1	6.311	250.9	21.06	12.61
111	2007	357	1445	49.05	87.3	5.759	252.4	22.55	12.61
111	2007	357	1500	48.69	88.1	4.897	249.9	25.1	12.6
111	2007	357	1515	48.51	88.2	5.612	247.6	20.52	12.59
111	2007	357	1530	48.38	88.8	5.336	252.3	21.05	12.58

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	357	1545	48.84	88.5	5.8	254.4	22.45	12.57
111	2007	357	1600	49.22	88.5	6.464	267.8	23.27	12.56
111	2007	357	1615	49.79	87.6	7.04	267	24.73	12.55
111	2007	357	1630	49.77	87.9	7.04	272.4	26.48	12.55
111	2007	357	1645	49.72	88.2	7.06	263.9	27.16	12.53
111	2007	357	1700	50.21	86.6	7.94	271.9	21.97	12.52
111	2007	357	1715	50.24	86.4	7.01	267.1	26.53	12.52
111	2007	357	1730	50.14	86.6	8.33	267	22.86	12.52
111	2007	357	1745	50.17	86.5	8.62	277.9	27.87	12.51
111	2007	357	1800	50.5	85.3	8.56	278.2	21.9	12.51
111	2007	357	1815	51.09	83.9	9.47	272.3	29.06	12.5
111	2007	357	1830	51.89	83.4	9.57	285.7	27.98	12.5
111	2007	357	1845	52.18	82.5	8.95	278.5	28.43	12.5
111	2007	357	1900	52.2	84.1	10.66	275.5	25.93	12.49
111	2007	357	1915	52.02	89.1	11.02	290.5	24.77	12.49
111	2007	357	1930	51.08	91.8	10.6	277.6	31.6	12.49
111	2007	357	1945	50.97	92.5	9.72	284.7	28.92	12.49
111	2007	357	2000	50.99	93.2	9.95	279.6	27.49	12.49
111	2007	357	2015	51.21	93.8	10.38	277.9	27.39	12.48
111	2007	357	2030	51.72	94.3	9.96	295.8	27.79	12.48
111	2007	357	2045	52.26	93.8	11.53	288.9	28.86	12.48
111	2007	357	2100	52.21	94.9	11.48	288.8	27.37	12.47
111	2007	357	2115	52.98	94.1	11.87	302.2	27.89	12.48
111	2007	357	2130	52.57	94.2	9.63	303.9	35.1	12.48
111	2007	357	2145	52.93	94.4	9.97	304.1	24.53	12.47
111	2007	357	2200	53.23	94.8	9.67	309.4	33.8	12.47
111	2007	357	2215	54.03	94.6	11.12	320.3	33.81	12.47
111	2007	357	2230	53.76	94.8	11.81	321	25.71	12.47
111	2007	357	2245	54.52	94.3	10.81	346.9	33.22	12.47
111	2007	357	2300	53.78	93.2	11.44	350.3	30.92	12.47
111	2007	357	2315	52.57	93.6	8.89	338.7	29.07	12.47
111	2007	357	2330	52.07	93.7	10.5	333.8	26.5	12.47
111	2007	357	2345	51.76	94.4	11.11	331.7	23.98	12.47
111	2007	357	2400	51.35	94.6	10.09	332.7	25.21	12.47
111	2007	358	15	50.55	94.9	10.31	340.5	32.75	12.47
111	2007	358	30	50.26	95.1	12.49	2.797	17.66	12.47
111	2007	358	45	50.37	94.5	7.79	5.573	15.85	12.47
111	2007	358	100	50.69	92.1	6.265	21.11	18.01	12.47
111	2007	358	115	51.63	75.3	9.5	34.83	16.26	12.46
111	2007	358	130	51.9	71.4	8.11	32.65	15.18	12.47
111	2007	358	145	51.15	55.29	10.82	42.52	16.97	12.46
111	2007	358	200	49.54	54.75	11.17	39.54	19.12	12.47
111	2007	358	215	48.43	55.96	10.48	37.85	17.39	12.47
111	2007	358	230	47.38	56.94	8.3	48.91	18.36	12.46
111	2007	358	245	46.61	52.09	11.17	42.6	16.58	12.46
111	2007	358	300	45.96	55.54	9.5	46.06	15.8	12.45
111	2007	358	315	45.01	49.28	10.43	44.99	18.84	12.45
111	2007	358	330	43.46	41.55	12	50.36	20.95	12.45
111	2007	358	345	42.46	40.54	9.36	52.1	18.65	12.45
111	2007	358	400	41.86	41.18	9.19	50.18	19.03	12.45
111	2007	358	415	41.24	40.22	10.88	42.62	21.68	12.45
111	2007	358	430	40.67	39.75	9.98	43.59	17.04	12.45
111	2007	358	445	40.13	38.55	9.45	46.24	18.65	12.45
111	2007	358	500	39.68	37.47	10.16	49	19.83	12.45
111	2007	358	515	39.23	35.73	8.6	55.81	23.94	12.45
111	2007	358	530	39.1	36.67	8.31	47.33	24.85	12.44
111	2007	358	545	38.79	37.51	7.53	48.64	22.79	12.44
111	2007	358	600	38.66	37.48	7.85	48.44	20.44	12.44
111	2007	358	615	38.57	38.52	7.76	52.89	22.4	12.44
111	2007	358	630	38.31	39.56	6.597	42.66	17.86	12.44

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	358	645	37.98	39.79	5.703	39.4	16.14	12.57
111	2007	358	700	37.49	42.77	4.007	35.81	16.66	12.48
111	2007	358	715	37.09	42.85	5.681	27.68	23.34	12.45
111	2007	358	730	37.63	40.67	8.01	37.58	17.86	12.46
111	2007	358	745	37.39	41.84	6.718	32.71	18.24	12.45
111	2007	358	800	37.07	43.25	6.311	27.51	15.67	12.45
111	2007	358	815	36.75	42.95	5.991	21.81	14.9	12.45
111	2007	358	830	36.79	44.82	6.201	25.11	17.24	12.47
111	2007	358	845	36.67	44.15	5.105	20.01	19.4	12.45
111	2007	358	900	36.67	46.97	4.542	12.93	25.37	12.45
111	2007	358	915	36.91	45.29	4.317	7.78	26.39	12.47
111	2007	358	930	37.51	44.05	6.334	15.47	19.35	12.52
111	2007	358	945	38.04	44.52	7.12	10.99	17.12	12.49
111	2007	358	1000	38.54	43.71	6.386	4.189	32.16	12.47
111	2007	358	1015	38.86	43.3	9.27	7.61	17	12.45
111	2007	358	1030	39.33	45.31	9.23	7.44	25.95	12.47
111	2007	358	1045	39.68	44.84	10.44	7.71	22.23	12.48
111	2007	358	1100	40.02	46.72	10.47	4.99	17.44	12.52
111	2007	358	1115	40.43	44.74	9.84	2.378	26.75	12.59
111	2007	358	1130	40.6	44.54	9.66	352	27.67	12.51
111	2007	358	1145	40.84	42.89	10.57	7.19	20.85	12.51
111	2007	358	1200	40.98	42.83	11.43	6.79	17.97	12.48
111	2007	358	1215	41.09	40.95	11.8	4.783	26.91	12.45
111	2007	358	1230	41.31	41.58	12.33	6.374	24.15	12.47
111	2007	358	1245	41.62	44.26	11.11	4.55	21.32	12.44
111	2007	358	1300	42.26	41.88	10.85	6.282	26.4	12.43
111	2007	358	1315	42.78	38.5	9.83	9.58	30.86	12.43
111	2007	358	1330	43	38.13	10.85	6.394	21.42	12.43
111	2007	358	1345	43.66	34.95	11.59	3.633	27.76	12.43
111	2007	358	1400	44.16	32.24	11	15.69	21.63	12.42
111	2007	358	1415	44.32	31.7	12.74	9.75	15.91	12.43
111	2007	358	1430	44.68	31.44	10.91	10.06	22.68	12.42
111	2007	358	1445	44.86	32.98	10.77	11.59	17.41	12.43
111	2007	358	1500	44.77	34.05	10.58	4.778	25.71	12.42
111	2007	358	1515	44.54	36.26	11.69	0.709	21.65	12.43
111	2007	358	1530	44.7	34.98	11.24	12.11	19.44	12.42
111	2007	358	1545	44.78	34.35	11.66	14.19	26.3	12.42
111	2007	358	1600	44.74	33.78	10.39	17	20.13	12.42
111	2007	358	1615	44.19	35.39	10.88	8.93	30.17	12.41
111	2007	358	1630	43.9	36.66	8.13	20.11	19.61	12.41
111	2007	358	1645	43.56	36.79	9.08	19.04	23.81	12.41
111	2007	358	1700	43.3	38.24	7.74	17.84	19.48	12.41
111	2007	358	1715	42.86	40.18	4.99	15.31	25.89	12.41
111	2007	358	1730	42.49	40.18	5.018	20.93	17.17	12.41
111	2007	358	1745	42.42	41.32	5.107	17.2	15.63	12.41
111	2007	358	1800	42.02	41.62	4.929	10.57	20.19	12.41
111	2007	358	1815	41.95	42.8	4.152	15.52	22.7	12.41
111	2007	358	1830	41.61	42.53	3.285	1.069	21.63	12.4
111	2007	358	1845	41.4	44.21	3.358	354.2	21.27	12.4
111	2007	358	1900	41.58	43.44	4.085	10.51	19.05	12.4
111	2007	358	1915	41.76	43.6	3.052	13.1	20.65	12.39
111	2007	358	1930	41.57	45.28	4.192	7.82	24.63	12.39
111	2007	358	1945	41.19	44.98	3.281	8.4	18.26	12.39
111	2007	358	2000	40.88	46.82	2.512	351.5	29.33	12.39
111	2007	358	2015	40.76	47.15	3.183	27.39	21.35	12.39
111	2007	358	2030	40.83	45.55	3.453	9.87	32.25	12.38
111	2007	358	2045	40.71	48.26	3.432	12.42	25.96	12.38
111	2007	358	2100	40.74	47.69	3.301	9.24	25.73	12.37
111	2007	358	2115	40.46	48.83	3.34	16.24	24.83	12.37
111	2007	358	2130	40.43	50.64	2.953	346.9	32.49	12.37

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	358	2145	40.28	51.81	3.759	10.19	17.97	12.37
111	2007	358	2200	40.37	50.33	3.509	20.62	19.76	12.37
111	2007	358	2215	40.41	50.4	1.944	42.17	22.33	12.37
111	2007	358	2230	39.51	55.3	2.31	2.846	25.84	12.36
111	2007	358	2245	39.11	53.76	2.07	42.86	15.69	12.36
111	2007	358	2300	39.1	55.23	2.278	30.63	11.96	12.36
111	2007	358	2315	39.18	54.9	3.731	40.8	13.18	12.36
111	2007	358	2330	39.07	55	3.41	21.23	22.19	12.35
111	2007	358	2345	39.29	53.22	4.385	31.88	21.67	12.36
111	2007	358	2400	39.42	53.79	4.486	28.55	17.76	12.35
111	2007	359	15	39.42	53.59	5.757	25.3	14.89	12.35
111	2007	359	30	39.45	54.03	5.546	27.66	17.41	12.35
111	2007	359	45	39.44	53.59	5.62	30.67	17.12	12.34
111	2007	359	100	39.43	53.42	5.906	23.96	17.26	12.34
111	2007	359	115	39.27	53.66	5.731	30.85	18.5	12.33
111	2007	359	130	39.23	53.52	5.832	28.84	14.83	12.32
111	2007	359	145	39.04	54.36	5.526	29.38	19.12	12.33
111	2007	359	200	38.85	54.23	5.266	28.07	15.54	12.33
111	2007	359	215	39.01	52.45	7.67	39.75	21.18	12.33
111	2007	359	230	38.9	52.79	7.04	38.03	17.7	12.32
111	2007	359	245	38.57	54.09	6.362	33.42	16.43	12.32
111	2007	359	300	38.17	55.13	5.596	36.9	15.85	12.31
111	2007	359	315	37.89	56.1	4.645	31.37	18.45	12.31
111	2007	359	330	37.59	56.27	4.466	25.39	15.97	12.31
111	2007	359	345	37.49	56.67	4.617	31.44	13.54	12.31
111	2007	359	400	37.28	57.61	4.045	38.07	14.91	12.3
111	2007	359	415	36.89	58.49	3.862	30.81	17.07	12.29
111	2007	359	430	36.52	59.43	3.12	29.59	17.43	12.28
111	2007	359	445	36.19	59.4	3.364	28.01	15.98	12.28
111	2007	359	500	36.06	59.77	3.461	35.39	17.1	12.28
111	2007	359	515	36.01	59.9	3.859	41.97	14.38	12.28
111	2007	359	530	35.95	59.8	4.458	36.2	16.73	12.28
111	2007	359	545	35.85	59.87	4.246	36.93	17.13	12.71
111	2007	359	600	35.63	60.9	3.585	25.9	14.32	13.01
111	2007	359	615	35.1	61.98	2.395	24.78	15.57	13.77
111	2007	359	630	34.26	64.22	2.111	5.496	21.31	13.74
111	2007	359	645	33.55	65.33	1.859	35.97	14.1	13.72
111	2007	359	700	34.04	64.32	2.925	43.34	13.94	13.01
111	2007	359	715	33.95	64.96	2.393	37.8	14.33	13.01
111	2007	359	730	33.62	65.87	2.514	34.12	12.44	13.3
111	2007	359	745	33.34	66.5	1.973	38.12	17.3	13.22
111	2007	359	800	33.04	67.65	1.859	31.82	12.07	13.63
111	2007	359	815	33.12	66.98	2.896	37.17	14.01	13.6
111	2007	359	830	33.27	67.78	2.546	30.79	20.77	13.59
111	2007	359	845	33.13	67.28	2.81	27.44	19.54	13.57
111	2007	359	900	33.71	65.68	3.817	31.85	15.48	13.56
111	2007	359	915	34.55	62.79	3.98	40.69	17.96	13.54
111	2007	359	930	35.66	60.81	4.46	40.09	17.63	13.54
111	2007	359	945	36.38	60.27	4.325	30.35	18.63	13.53
111	2007	359	1000	36.85	60.27	5.578	35.33	17.71	13.52
111	2007	359	1015	37.37	58.49	6.475	38.8	20.28	13.52
111	2007	359	1030	37.94	58.42	4.768	43.35	20.25	13.52
111	2007	359	1045	38.5	56.23	5.842	47.48	20.78	13.52
111	2007	359	1100	38.72	54.96	7.76	30.58	23.19	13.51
111	2007	359	1115	39.44	52.88	6.855	41.55	20.75	13.52
111	2007	359	1130	39.68	52.68	8.19	40.48	19.17	13.51
111	2007	359	1145	40.2	52.21	7.54	42.43	20.15	13.52
111	2007	359	1200	40.31	50.9	7.07	46.62	28.33	13.54
111	2007	359	1215	40.74	50.73	6.726	54.27	24.17	13.55
111	2007	359	1230	41.03	50.96	6.821	58.34	21.37	13.18

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	359	1245	40.94	50.92	7.26	67.81	22.31	13.35
111	2007	359	1300	41.13	50.22	6.908	49.9	35.32	13.07
111	2007	359	1315	41.35	50.85	7.22	54.73	22.4	12.96
111	2007	359	1330	41.63	50.52	6.672	76.3	26	12.86
111	2007	359	1345	41.94	49.95	6.736	59.52	29.75	12.82
111	2007	359	1400	42.35	50.15	5.912	74	30.86	12.79
111	2007	359	1415	42.87	49.78	5.231	70.9	34.87	12.77
111	2007	359	1430	43.18	49.31	6.531	71.8	28.65	12.75
111	2007	359	1445	43.11	49.21	5.961	77	26.56	12.73
111	2007	359	1500	43.34	49.35	5.765	77.3	31.19	12.72
111	2007	359	1515	43.11	50.08	6.956	96	27.72	12.71
111	2007	359	1530	43.03	50.28	6.287	77.6	24.92	12.7
111	2007	359	1545	42.44	51.16	6.537	91.2	28.38	12.69
111	2007	359	1600	42.19	51.39	6.295	82.7	27.84	12.67
111	2007	359	1615	41.62	52.7	6.333	75.8	23.04	12.67
111	2007	359	1630	41.15	53.03	6.053	71.4	21.96	12.66
111	2007	359	1645	40.66	54.7	6.791	75.4	21.72	12.65
111	2007	359	1700	40.2	56.31	6.064	81.2	23.96	12.65
111	2007	359	1715	39.54	57.15	5.687	74.3	23.34	12.65
111	2007	359	1730	38.79	58.53	4.645	76.7	19.86	12.64
111	2007	359	1745	38.27	59.41	4.482	80.9	24.47	12.64
111	2007	359	1800	37.79	60.68	4.456	80.7	22.83	12.63
111	2007	359	1815	37.34	61.35	3.602	80.9	29.47	12.63
111	2007	359	1830	37.29	61.29	5.012	83.1	24.72	12.63
111	2007	359	1845	37.18	61.76	4.424	75.9	27.96	12.63
111	2007	359	1900	37.01	62.37	4.204	68.65	20.05	12.63
111	2007	359	1915	36.68	63.45	2.616	63.26	19.4	12.63
111	2007	359	1930	36.41	63.68	2.432	79.5	19.11	12.62
111	2007	359	1945	35.96	64.86	1.642	70.6	20.99	12.63
111	2007	359	2000	35.66	65.49	1.658	68.29	23.04	12.62
111	2007	359	2015	35.51	65.8	2.187	78.6	26.98	12.61
111	2007	359	2030	35.18	66.7	1.992	52.07	22.41	12.61
111	2007	359	2045	34.84	67.64	1.236	48.01	16.08	12.61
111	2007	359	2100	33.85	70.1	1.046	36.95	12.66	12.61
111	2007	359	2115	32.67	74	1.041	33.78	17.78	12.61
111	2007	359	2130	32.32	76.3	1.371	23.65	9.89	12.61
111	2007	359	2145	31.61	77.2	0.948	21.34	9.08	12.61
111	2007	359	2200	30.94	78.9	0.838	39.79	18.91	12.61
111	2007	359	2215	30.36	80.4	0.372	56.91	12.48	12.61
111	2007	359	2230	30	81.7	0.587	53.4	14.49	12.6
111	2007	359	2245	30.18	81.8	0.61	94.8	17.49	12.6
111	2007	359	2300	30.57	80.8	0.527	82.8	26.73	12.6
111	2007	359	2315	30.47	81	0.972	102.6	30.17	12.59
111	2007	359	2330	30.65	80	0.382	78.9	7.88	12.59
111	2007	359	2345	30.12	80.5	0.21	101.7	6.617	12.6
111	2007	359	2400	29.5	81.7	0.517	22.67	13.95	12.59
111	2007	360	15	28.7	83.5	0.02	34.65	0.101	12.58
111	2007	360	30	28.31	84.5	na	na	na	12.58
111	2007	360	45	27.81	85.7	0.254	22.44	0.44	12.59
111	2007	360	100	27.7	86.1	0.254	35.12	5.812	12.58
111	2007	360	115	27.37	87.4	0.32	90.8	21.84	12.57
111	2007	360	130	27.57	87.1	0.394	30.99	16.74	12.57
111	2007	360	145	27.25	87.6	0.072	25.65	2.014	12.57
111	2007	360	200	27.16	87.8	0.23	64.37	9.76	12.57
111	2007	360	215	27.08	88.2	0.126	84.1	10.43	12.57
111	2007	360	230	27.06	88	0.606	14.37	9.58	12.57
111	2007	360	245	26.39	88.5	0.132	353.4	2.527	12.57
111	2007	360	300	26.44	89	0.315	153.1	19.5	12.57
111	2007	360	315	26.68	89.3	0.366	149.4	10.12	12.57
111	2007	360	330	26.61	89.2	0.234	129.2	10.54	12.57

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	360	345	26.24	89.2	0.358	38.45	29.2	12.57
111	2007	360	400	25.8	89.6	0.146	24.78	0.744	12.57
111	2007	360	415	26.04	89.8	0.549	132.2	12.95	12.57
111	2007	360	430	25.75	90	0.587	5.522	4.644	12.56
111	2007	360	445	25.55	90.5	0.723	73.3	26.28	12.56
111	2007	360	500	25.58	90.7	0.786	6.159	30.08	12.57
111	2007	360	515	25.34	91.1	0.327	91.8	21.92	12.57
111	2007	360	530	25.54	91.1	0.162	24.07	8.67	12.56
111	2007	360	545	25.61	91.2	0.08	112.1	3.63	12.57
111	2007	360	600	25.62	91.1	na	na	na	12.56
111	2007	360	615	25.46	91.4	0.12	81.6	2.701	12.56
111	2007	360	630	25.84	91.6	0.159	126.3	13.83	12.57
111	2007	360	645	26.29	91.4	0.583	100.6	28.67	12.62
111	2007	360	700	26.78	91.1	0.076	94.2	6.55	12.63
111	2007	360	715	26.57	91.2	na	na	na	12.69
111	2007	360	730	26.36	91.1	na	na	na	12.75
111	2007	360	745	26.18	91.7	na	na	na	12.81
111	2007	360	800	26.77	91.6	0.047	77.1	2.099	12.82
111	2007	360	815	27.4	91.5	0.378	119.3	9.29	12.8
111	2007	360	830	28.27	90.9	0.159	132.8	10.79	12.86
111	2007	360	845	28.62	90.7	1.037	129.6	10.61	12.85
111	2007	360	900	29.6	89.6	1.69	124.3	22.13	12.84
111	2007	360	915	30.3	88.9	0.15	83.7	5.238	12.86
111	2007	360	930	30.71	88.4	0.022	112.1	0.331	12.89
111	2007	360	945	31.26	87.5	1.26	124.9	16.73	12.84
111	2007	360	1000	32.11	85.7	2.731	129.8	22.7	12.82
111	2007	360	1015	32.61	84.5	2.886	126.9	22.7	12.84
111	2007	360	1030	33.16	84.1	0.547	5.253	24.81	12.94
111	2007	360	1045	34.16	82.5	0.951	142.5	39.36	13.13
111	2007	360	1100	34.74	80.5	1.718	166.2	23.05	13.22
111	2007	360	1115	35.55	78.2	2.064	163.5	27.6	13.54
111	2007	360	1130	36.3	77.1	3.209	164	26.43	13.26
111	2007	360	1145	36.63	76.4	4.395	163.4	19.55	13.17
111	2007	360	1200	37.01	73.4	4.393	172.2	28.03	13.09
111	2007	360	1215	37.32	72.7	4.71	159.1	25.14	13.12
111	2007	360	1230	37.13	71.7	5.145	153.1	29.85	13.18
111	2007	360	1245	37.84	70.5	3.281	145.9	46.8	13.06
111	2007	360	1300	37.94	69.89	3.422	124.6	30.74	13.04
111	2007	360	1315	37.86	70.1	3.902	151.9	28.25	12.92
111	2007	360	1330	37.7	68.69	5.016	134.1	23.15	12.82
111	2007	360	1345	37.74	69.42	3.769	156.5	30.92	12.76
111	2007	360	1400	37.77	69.39	3.815	162.6	22.78	12.73
111	2007	360	1415	37.78	70.5	3.72	156.9	26.14	12.72
111	2007	360	1430	37.98	69.96	3.86	167.2	34.26	12.71
111	2007	360	1445	38	69.52	3.771	151.7	28.93	12.68
111	2007	360	1500	37.88	69.79	3.293	140.3	33.61	12.67
111	2007	360	1515	37.7	69.83	4.986	151.8	26.77	12.65
111	2007	360	1530	37.57	69.62	5.298	155.8	17.95	12.64
111	2007	360	1545	37.49	69.96	4.575	148.2	27.24	12.63
111	2007	360	1600	37.34	70.1	5.479	161	25.19	12.63
111	2007	360	1615	37.34	68.92	4.677	153.6	23.86	12.61
111	2007	360	1630	37.05	68.52	5.189	156.9	24.18	12.61
111	2007	360	1645	36.76	69.26	6.64	151	23.35	12.59
111	2007	360	1700	36.56	70.3	5.421	165.6	31.32	12.58
111	2007	360	1715	36.69	69.66	4.232	204.3	18.97	12.57
111	2007	360	1730	36.64	69.87	4.329	187.6	31.05	12.56
111	2007	360	1745	36.61	69.03	4.536	154.3	26.07	12.56
111	2007	360	1800	36.57	69.17	5.236	151.8	19.19	12.55
111	2007	360	1815	36.61	69.84	4.633	165.5	25.33	12.54
111	2007	360	1830	36.7	71.4	4.275	170.6	29.94	12.53

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	360	1845	36.63	72.6	4.822	162.7	25.1	12.52
111	2007	360	1900	36.66	73.5	4.643	158.5	30.24	12.52
111	2007	360	1915	36.5	76.4	5.244	157.5	28.86	12.51
111	2007	360	1930	36.23	79.3	5.28	156.8	21.63	12.51
111	2007	360	1945	36.13	79.5	6.06	156.3	27.14	12.5
111	2007	360	2000	36.33	79.4	5.81	157.8	27.59	12.49
111	2007	360	2015	36.49	80.2	6.213	151.7	23.19	12.49
111	2007	360	2030	36.54	80.1	6.875	153.8	26.22	12.49
111	2007	360	2045	36.57	79.7	7.87	152.5	29.46	12.48
111	2007	360	2100	36.7	79.4	8.18	162.5	28.59	12.48
111	2007	360	2115	36.84	79.3	7.71	159.9	27.03	12.48
111	2007	360	2130	36.94	77.5	7.77	159.4	30.71	12.47
111	2007	360	2145	37.05	76.5	7.22	149.8	28.96	12.47
111	2007	360	2200	36.93	78.9	7.16	156.7	27.04	12.46
111	2007	360	2215	36.73	78.8	7.65	155.6	25.47	12.46
111	2007	360	2230	36.51	80	7.08	142.5	30.69	12.45
111	2007	360	2245	36.35	79.9	6.299	166.6	32.51	12.45
111	2007	360	2300	36.28	80	7.21	161.6	30.41	12.45
111	2007	360	2315	36.15	80.3	7.19	153.9	28.88	12.45
111	2007	360	2330	36.06	80.5	5.673	160.4	31.14	12.44
111	2007	360	2345	36.03	81.3	5.993	177.9	26.1	12.44
111	2007	360	2400	35.91	82.6	6.388	177.5	25.62	12.43
111	2007	361	15	35.75	83.6	8.34	182.1	29.61	12.43
111	2007	361	30	35.6	84.4	7.39	171.8	25.83	12.43
111	2007	361	45	35.62	84.7	7.66	164.6	28.09	12.42
111	2007	361	100	35.71	84.8	7.73	172.8	30.43	12.42
111	2007	361	115	35.76	84.8	7.56	164.6	28.97	12.42
111	2007	361	130	35.84	84.7	7.24	164	23.66	12.42
111	2007	361	145	35.9	85	6.845	155.8	25.79	12.41
111	2007	361	200	35.96	85	7.99	155	27.69	12.41
111	2007	361	215	36.17	84.7	8.14	147.7	35.01	12.4
111	2007	361	230	36.4	84.7	7.29	157.4	33.28	12.4
111	2007	361	245	36.73	84	8.96	152.7	28.58	12.39
111	2007	361	300	36.89	84.3	7.92	144.2	28.49	12.39
111	2007	361	315	36.89	85	8.19	131.3	26.46	12.39
111	2007	361	330	36.74	85.1	9.15	130.7	27.76	12.38
111	2007	361	345	36.67	85.1	8.05	150.4	31.31	12.39
111	2007	361	400	36.71	84.8	6.865	145.8	33.34	12.38
111	2007	361	415	36.6	85	6.972	147.7	32.81	12.37
111	2007	361	430	36.24	85.7	8.18	139.1	25.54	12.37
111	2007	361	445	35.89	86	7.69	126.3	29.92	12.37
111	2007	361	500	35.8	85.8	8.18	129.6	28.17	12.37
111	2007	361	515	35.83	85.6	8.14	140.6	27.63	12.38
111	2007	361	530	35.94	85.5	8.9	150	34.09	12.37
111	2007	361	545	35.93	85.3	8.4	148.5	29.18	12.37
111	2007	361	600	36.12	84.6	7.52	125.9	28.96	12.4
111	2007	361	615	36.26	84.5	7.38	130.5	29.23	12.43
111	2007	361	630	36.32	84.4	8.39	144.6	31.24	12.55
111	2007	361	645	36.41	84.2	8.77	145.5	31.85	12.65
111	2007	361	700	36.37	84.8	7.98	138.1	30.48	12.76
111	2007	361	715	36.39	84.4	7.79	130.9	26.44	12.98
111	2007	361	730	36.53	84.4	7.51	126	27.34	13.01
111	2007	361	745	36.46	85.6	7.6	123.2	28.72	13.1
111	2007	361	800	36.29	87	7.38	130.2	25.22	13.33
111	2007	361	815	36.23	87.5	7.38	133.4	24.01	13.56
111	2007	361	830	36.26	87.5	6.944	127.4	28.1	13.82
111	2007	361	845	36.46	87	6.523	128.1	28.34	13.45
111	2007	361	900	36.67	86.7	5.733	116.1	26.59	13.16
111	2007	361	915	36.86	86.4	4.933	120.5	29.56	13.14
111	2007	361	930	36.95	86	5.507	128.7	23.07	13.16

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	361	945	37	85	8	140.9	27.72	13.76
111	2007	361	1000	37.34	84	6.593	128	25.56	13.45
111	2007	361	1015	37.57	83.4	5.238	128.4	30.34	13.48
111	2007	361	1030	37.73	82.9	4.885	112.8	26.79	13.15
111	2007	361	1045	37.8	82.5	4.575	105.6	27.83	13.13
111	2007	361	1100	37.8	82.6	5.127	124.3	28.6	13.08
111	2007	361	1115	37.87	82.9	4.202	125.9	27.79	13.04
111	2007	361	1130	37.64	84.5	4.299	126	27.73	13.08
111	2007	361	1145	37.43	86.1	3.485	104.9	30.27	13.16
111	2007	361	1200	37.24	87.1	2.644	115.5	30.82	13.05
111	2007	361	1215	37.25	87.9	1.603	91.5	34.67	12.91
111	2007	361	1230	37.22	87.6	2.049	111.1	32.66	12.87
111	2007	361	1245	37.21	88.4	2.367	125.4	25.79	12.77
111	2007	361	1300	37.28	89.1	1.85	80.3	34.64	12.73
111	2007	361	1315	37.15	89.7	2.911	62.93	18.12	12.72
111	2007	361	1330	37.15	90.4	3.001	65.67	19.41	12.69
111	2007	361	1345	37.19	90.7	2.725	65.51	21.19	12.68
111	2007	361	1400	37.21	91.2	2.822	44.51	22.52	12.67
111	2007	361	1415	37.23	91.9	1.833	54.48	28.8	12.65
111	2007	361	1430	37.68	91.4	1.415	119.1	23.42	12.65
111	2007	361	1445	37.65	91.5	1.745	76.2	31.1	12.63
111	2007	361	1500	37.77	91.3	2.01	73.6	18.55	12.63
111	2007	361	1515	37.81	91.1	2.475	65.45	20.04	12.61
111	2007	361	1530	37.78	91.3	1.781	97.6	28.11	12.61
111	2007	361	1545	37.83	91.3	1.337	80.9	22.11	12.59
111	2007	361	1600	37.94	91.1	1.448	56.3	18.27	12.59
111	2007	361	1615	37.96	91.4	1.01	60.2	18.36	12.57
111	2007	361	1630	38.14	90.9	0.941	89.7	20.04	12.57
111	2007	361	1645	38.14	90.9	0.36	93.5	17.14	12.56
111	2007	361	1700	38.13	90.8	0.926	39.65	11.74	12.54
111	2007	361	1715	38.07	90.8	0.069	51.98	7.3	12.54
111	2007	361	1730	38.09	90.7	0.063	1.98	8.64	12.52
111	2007	361	1745	38.14	90.8	0.868	291.5	18.4	12.52
111	2007	361	1800	38.06	91	1.544	304.2	23.69	12.51
111	2007	361	1815	37.83	91.4	2.51	328.5	28.79	12.5
111	2007	361	1830	37.84	91.6	2.506	337	20.06	12.49
111	2007	361	1845	37.88	91.6	2.345	333.7	28.04	12.48
111	2007	361	1900	38	91.6	1.881	331.8	28.96	12.48
111	2007	361	1915	38.21	91.1	3.453	359.7	24.32	12.47
111	2007	361	1930	38.43	90.6	4.464	3.407	25.16	12.47
111	2007	361	1945	38.62	89.9	5.29	6.931	17.42	12.46
111	2007	361	2000	38.75	89.6	5.107	14.36	13.93	12.45
111	2007	361	2015	38.83	89.4	4.234	7.95	24.01	12.45
111	2007	361	2030	38.92	89.2	4.019	12.73	19.47	12.45
111	2007	361	2045	39.05	88.8	3.309	6.554	22.91	12.44
111	2007	361	2100	39.19	88.4	3.275	12.17	27.03	12.44
111	2007	361	2115	39.1	88.5	3.072	7.67	23.75	12.44
111	2007	361	2130	38.71	88.7	2.373	352.7	19.34	12.44
111	2007	361	2145	38.3	89.3	1.908	359.8	25.85	12.44
111	2007	361	2200	37.85	89.8	1.72	357.9	21.49	12.43
111	2007	361	2215	37.79	89.8	3.017	359	28.16	12.44
111	2007	361	2230	37.65	90.5	3.461	0.434	27.01	12.43
111	2007	361	2245	37.84	90.6	3.855	7.67	25.66	12.43
111	2007	361	2300	37.98	90.9	4.639	9.92	16.46	12.43
111	2007	361	2315	38.16	90.7	4.837	12.65	27.41	12.43
111	2007	361	2330	38.11	90.7	4.023	16.35	21.53	12.42
111	2007	361	2345	37.96	90.9	4.013	11.13	17.44	12.43
111	2007	361	2400	37.85	91.5	3.866	17.89	13.93	12.43
111	2007	362	15	38.07	91.6	4.597	21.3	13.27	12.43
111	2007	362	30	38.2	91.6	4.532	29.13	12.77	12.43

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	362	45	37.93	91.8	3.739	21.06	11.11	12.43
111	2007	362	100	37.64	92.1	3.273	17.94	12.66	12.43
111	2007	362	115	37.42	92	3.15	7.73	16.58	12.43
111	2007	362	130	37.07	92.2	2.504	8.17	13.71	12.42
111	2007	362	145	37.09	92.7	3.36	18.13	13.79	12.41
111	2007	362	200	37.36	92.4	3.451	25.97	18.6	12.41
111	2007	362	215	37.43	91.8	3.71	29.39	12.53	12.42
111	2007	362	230	37.58	90.9	3.741	26.95	14.23	12.41
111	2007	362	245	37.53	90.7	2.991	23.17	14.43	12.4
111	2007	362	300	37.48	90.3	2.878	27.81	13.46	12.4
111	2007	362	315	37.53	90	3.676	33.77	19.88	12.4
111	2007	362	330	37.79	89.4	2.929	14.02	11.74	12.4
111	2007	362	345	37.34	89.1	1.293	331.9	25.23	12.39
111	2007	362	400	36.37	89.3	0.036	2.521	2.841	12.39
111	2007	362	415	35.46	89.4	0.027	15.69	3.698	12.39
111	2007	362	430	34.42	90.6	1.137	27.66	11.37	12.39
111	2007	362	445	34.49	91.6	1.507	28.61	15.26	12.38
111	2007	362	500	36.33	87.4	3.449	29.53	15.67	12.39
111	2007	362	515	37.17	84.8	2.945	30.02	12.9	12.39
111	2007	362	530	37.12	83.5	3.036	31.43	12.51	12.38
111	2007	362	545	37.01	81.7	3.314	42.99	14.33	12.39
111	2007	362	600	36.65	81.4	2.379	1.194	30.15	12.37
111	2007	362	615	34.55	83.8	1.595	352.6	30.35	12.39
111	2007	362	630	32.74	86.7	1.495	346.5	37.18	12.61
111	2007	362	645	31.95	87.9	0.844	2.475	36.52	13.72
111	2007	362	700	31.35	89.2	0.207	66.08	6.5	13.03
111	2007	362	715	31.33	88.9	0.819	11.42	36.84	13.01
111	2007	362	730	30.51	89.8	0.9	29.98	12.6	13.7
111	2007	362	745	30.31	90.3	0.455	5.845	22.65	13.42
111	2007	362	800	30.6	91.9	1.832	22.56	12.26	13.69
111	2007	362	815	32.42	91.1	2.967	14.01	14.69	13.67
111	2007	362	830	33.72	90	2.701	15.82	17.81	13.42
111	2007	362	845	34.22	89	2.745	15.37	12.03	13.66
111	2007	362	900	34.56	88.4	2.995	16.36	18.79	13.65
111	2007	362	915	36.01	84.9	4.017	29.41	13.52	13.43
111	2007	362	930	37.34	81.5	4.295	32.55	14.56	13.65
111	2007	362	945	38.1	78.8	4.075	26.73	11.33	13.64
111	2007	362	1000	39.15	75.5	4.825	23.77	11.83	13.27
111	2007	362	1015	40.31	72.4	4.607	25.86	16.25	13.63
111	2007	362	1030	41.33	69.19	5.211	27.04	15.45	13.62
111	2007	362	1045	42.32	65.07	5.008	30.18	17.85	13.63
111	2007	362	1100	43.25	60.78	5.516	38.32	19.14	13.62
111	2007	362	1115	44.05	58.57	5.27	56.85	19.52	13.2
111	2007	362	1130	44.55	55.85	4.764	46.05	27.94	13.19
111	2007	362	1145	45.27	51.42	4.327	66.02	36.48	13.29
111	2007	362	1200	46.17	50.28	3.438	84.8	44.8	13.63
111	2007	362	1215	46.77	49.04	3.355	69.06	45.77	13.62
111	2007	362	1230	46.53	48.63	4.418	103.8	48.72	13.04
111	2007	362	1245	46.65	48.7	3.243	80.1	46.9	13.05
111	2007	362	1300	47.03	46.82	3.334	78.7	39.86	13.64
111	2007	362	1315	47.61	46.65	3.557	138.9	48.68	13.12
111	2007	362	1330	47.32	45.15	3.332	90.1	39.27	12.93
111	2007	362	1345	47.01	46.12	3.866	48.26	42.96	12.83
111	2007	362	1400	47.24	44.51	3.065	74.1	61.72	12.79
111	2007	362	1415	47.96	45.15	3.152	119.2	35.91	12.76
111	2007	362	1430	48.56	44.51	2.193	106.5	69.79	12.74
111	2007	362	1445	48.34	47.76	3.06	340.3	79.3	12.73
111	2007	362	1500	47.59	49.9	3.11	333.5	49.22	12.71
111	2007	362	1515	47.34	51.37	3.976	320.6	23.21	12.69
111	2007	362	1530	46.58	51.44	4.522	340	33.9	12.68

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	362	1545	46.56	50.44	4.047	321.2	25.84	12.67
111	2007	362	1600	46.47	52.78	3.904	316.3	28.31	12.66
111	2007	362	1615	45.63	53.68	4.146	340.9	25.69	12.65
111	2007	362	1630	44.84	56.03	4.44	333.5	35.07	12.64
111	2007	362	1645	44.17	58.68	3.632	335.9	28.63	12.63
111	2007	362	1700	43.56	60.03	3.277	342.8	33.27	12.62
111	2007	362	1715	43.11	61.03	2.485	334.2	24.14	12.61
111	2007	362	1730	42.45	64.91	2.369	333.1	20.66	12.6
111	2007	362	1745	41.86	68.07	1.613	330.2	29.85	12.59
111	2007	362	1800	41.29	69.92	1.256	324.2	28.39	12.58
111	2007	362	1815	40.89	73.2	1.482	335.5	22.71	12.57
111	2007	362	1830	40.47	75.1	0.553	307.1	20.32	12.56
111	2007	362	1845	39.96	76.7	0.57	264.4	18.47	12.55
111	2007	362	1900	39.61	78	0.562	243.9	29.43	12.55
111	2007	362	1915	39.06	80.6	0.599	238.7	42.47	12.54
111	2007	362	1930	39.47	81.5	1.431	216	21.33	12.54
111	2007	362	1945	39.94	81.5	1.915	223.8	24.81	12.52
111	2007	362	2000	40.28	81.3	1.007	242	40.12	12.52
111	2007	362	2015	40.14	82	1.406	291.5	27.93	12.52
111	2007	362	2030	40.1	82.4	0.971	296.2	29.34	12.51
111	2007	362	2045	40.09	83.6	1.975	262.7	26.92	12.5
111	2007	362	2100	40.66	82.1	2.824	255.9	51.58	na
111	2007	362	2115	40.72	81.4	2.322	231.1	29.8	na
111	2007	362	2130	41.03	79.4	2.105	254.9	36.1	na
111	2007	362	2145	41.09	79.2	1.855	288.5	51.1	na
111	2007	362	2200	41.11	78.8	2.077	265.6	25.07	na
111	2007	362	2215	41.33	77.6	2.198	239.7	31.84	na
111	2007	362	2230	41.5	78	1.868	219.5	26.07	na
111	2007	362	2245	41.52	77.9	2.107	228.5	23.74	na
111	2007	362	2300	41.89	76.6	3.271	221.2	15.32	na
111	2007	362	2315	42.21	76.5	3.841	231.1	21.15	na
111	2007	362	2330	42.09	77.7	4.865	215.7	13.73	na
111	2007	362	2345	42.41	76.5	4.683	241.3	20.48	na
111	2007	362	2400	42.31	80.1	4.538	256.6	22.13	na
111	2007	363	15	41.61	82.4	5.912	238.3	13.07	na
111	2007	363	30	42.06	78.7	6.946	237.6	18.02	na
111	2007	363	45	42.33	80.3	5.673	248.1	17.99	na
111	2007	363	100	42.3	78.7	7.42	240.5	16.19	na
111	2007	363	115	42.44	78.7	7.69	238.8	14.04	na
111	2007	363	130	42.59	79.4	6.003	248.6	21.29	na
111	2007	363	145	42.77	79.7	6.736	244.3	18.7	na
111	2007	363	200	42.84	80.8	8.62	239.9	12.95	na
111	2007	363	215	42.68	82	9.64	236.2	14	na
111	2007	363	230	42.75	82.5	8.77	238.4	15.31	na
111	2007	363	245	42.93	82.2	7.76	239.4	15.64	na
111	2007	363	300	43.17	84.1	6.323	247.9	21.89	na
111	2007	363	315	43.21	85	7.29	238	15.25	na
111	2007	363	330	43.16	84.9	8.02	238.3	13.71	na
111	2007	363	345	43.25	85.4	8.36	238.6	15.35	na
111	2007	363	400	43.22	86.3	7.55	236.3	15.42	na
111	2007	363	415	43.15	88.2	7.1	242.3	17.2	na
111	2007	363	430	43.13	91.3	6.475	234	16.03	na
111	2007	363	445	43.34	92.7	6.918	239.2	16.36	na
111	2007	363	500	43.66	93.3	6.597	239.8	20.19	na
111	2007	363	515	44.14	93.9	7.3	236.7	22.65	na
111	2007	363	530	44.99	94.5	8.29	248.9	21.28	na
111	2007	363	545	45.67	94.5	8.4	262.7	26.1	na
111	2007	363	600	46.19	94.7	9.48	268	31.01	na
111	2007	363	615	46.71	95	9.6	284.9	23.23	na
111	2007	363	630	47.39	95.3	10.04	284	26.35	na

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	363	645	48.94	95	10.72	288.4	27.35	na
111	2007	363	700	48.66	95.2	8.3	306.9	27.88	na
111	2007	363	715	49.02	95.4	6.802	324.9	27.49	na
111	2007	363	730	49.82	95.4	7.63	313.5	31.42	na
111	2007	363	745	50.47	95.6	7.5	335.2	26.1	na
111	2007	363	800	51.22	95.5	8.32	349.2	28.25	na
111	2007	363	815	50.96	95.3	8.07	349.3	24.64	na
111	2007	363	830	49.97	95.2	7.81	352.1	27.88	na
111	2007	363	845	49.19	95.6	7.34	2.214	18.5	na
111	2007	363	900	49.42	96	5.84	3.391	25.24	na
111	2007	363	915	50.45	96	6.964	14.22	15.43	na
111	2007	363	930	51.16	95.3	7.53	23.32	16.42	na
111	2007	363	945	51.41	93.2	9.02	20.55	15.35	na
111	2007	363	1000	51.38	91.7	6.801	37.02	21.26	na
111	2007	363	1015	51.37	89.9	7.23	35.7	17.11	na
111	2007	363	1030	51.4	87.3	6.982	40.37	17.97	na
111	2007	363	1045	51.32	83	7.18	47.81	20.51	na
111	2007	363	1100	51.14	79.6	8.19	42.92	21.29	na
111	2007	363	1115	50.88	79.8	5.85	37.68	17.34	na
111	2007	363	1130	50.62	79.1	6.132	37.22	22.68	na
111	2007	363	1145	50.69	78.3	5.028	55.43	19.15	na
111	2007	363	1200	50.55	77.1	5.88	43.08	21.01	na
111	2007	363	1215	50.45	74.8	6.003	49.13	21.34	na
111	2007	363	1230	50.35	73.2	6.65	46.02	19.62	na
111	2007	363	1245	50.18	70.8	6.489	49.55	23.23	na
111	2007	363	1300	50.09	70.2	7.15	46.35	20.22	na
111	2007	363	1315	49.87	68.37	7.12	43.02	21.43	na
111	2007	363	1330	49.82	67.7	6.203	48.26	20.66	na
111	2007	363	1345	49.88	67.87	5.387	55.99	22.63	na
111	2007	363	1400	49.86	63.25	7.1	41.17	21.74	na
111	2007	363	1415	49.85	63.99	6.458	49.38	20.58	na
111	2007	363	1430	50.21	65.13	6.7	44.76	23.9	na
111	2007	363	1445	50.05	65.86	7.16	44.51	21.43	na
111	2007	363	1500	49.86	66.5	7.63	41.82	18.79	na
111	2007	363	1515	49.59	63.69	6.966	45.19	18.35	na
111	2007	363	1530	49.53	62.38	6.217	47.66	19.01	na
111	2007	363	1545	49.68	62.62	6.553	36.67	24.43	na
111	2007	363	1600	49.77	62.28	6.027	35.93	15.46	na
111	2007	363	1615	49.91	63.05	4.51	43.64	22.22	na
111	2007	363	1630	49.87	62.88	4.788	33.26	16.27	na
111	2007	363	1645	49.55	63.29	4.881	42.81	15.87	na
111	2007	363	1700	49.16	63.86	3.674	38.2	15.54	na
111	2007	363	1715	48.8	65.27	2.741	35.28	16.55	na
111	2007	363	1730	48.03	67.79	1.693	35.65	10.91	na
111	2007	363	1745	46.94	70.1	1.311	42.62	17.43	na
111	2007	363	1800	45.27	75.1	1.559	340.7	25.55	na
111	2007	363	1815	45.12	75.6	2.558	353.1	20.84	na
111	2007	363	1830	44.95	77.3	2.015	353.6	29.11	na
111	2007	363	1845	44.61	78.3	2.55	30.9	13.18	na
111	2007	363	1900	44.55	78	2.915	24.13	12.31	na
111	2007	363	1915	43.8	79.7	2.463	6.542	29.08	na
111	2007	363	1930	43.2	80.7	2.203	20.32	15.07	na
111	2007	363	1945	42.25	82.2	1.696	28.05	13.37	na
111	2007	363	2000	41.37	84.3	2.115	37.16	9.61	na
111	2007	363	2015	41.17	84.5	2.838	30.93	8.03	na
111	2007	363	2030	41.43	83.5	2.824	32.91	9.51	na
111	2007	363	2045	41.78	82	2.647	41.87	11.83	na
111	2007	363	2100	41.29	80.9	2.391	35.24	11.61	na
111	2007	363	2115	41.61	75.8	2.979	35.96	11.72	na
111	2007	363	2130	41.1	77	1.72	22.21	18.1	na

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	363	2145	40.21	76.2	2.147	28.2	12.13	na
111	2007	363	2200	40.17	73.7	2.201	37.35	11.2	na
111	2007	363	2215	40.8	69.17	3.503	33.54	11.28	na
111	2007	363	2230	41.16	65.72	4.305	28.39	14.96	na
111	2007	363	2245	41.26	64.68	3.291	44.95	16.33	na
111	2007	363	2300	41.01	64.98	3.598	44.91	15	na
111	2007	363	2315	40.7	64.77	3.608	42.25	15.17	na
111	2007	363	2330	40.3	65.54	3.12	46.35	13.11	na
111	2007	363	2345	39.8	67.29	3.104	35.83	14.37	na
111	2007	363	2400	39.36	67.39	3.424	36.98	11.22	na
111	2007	364	15	39.05	67.56	3.505	36.91	13.77	na
111	2007	364	30	38.92	67.33	3.185	34.08	15.47	na
111	2007	364	45	38.72	67.93	3.04	32.21	10.28	na
111	2007	364	100	38	68.5	3.277	31.51	11.14	na
111	2007	364	115	37.74	69.74	3.066	28.48	15.28	na
111	2007	364	130	37.08	70.2	2.842	31.38	10.59	na
111	2007	364	145	37.16	68.94	3.309	39.07	16.83	na
111	2007	364	200	37.29	68.58	2.814	43.24	14.18	na
111	2007	364	215	36.94	69.98	2.558	42.63	11.23	na
111	2007	364	230	36.36	70.7	2.518	34.97	11.78	na
111	2007	364	245	35.34	74.7	2.24	33.36	9.27	na
111	2007	364	300	34.32	77.6	2.07	31.49	10.44	na
111	2007	364	315	33.69	78.3	1.593	37.09	10.33	na
111	2007	364	330	32.98	81	1.897	20.78	7.21	na
111	2007	364	345	32.03	82.8	0.762	41.4	10.95	na
111	2007	364	400	31.78	84.2	2.018	35.11	8.88	na
111	2007	364	415	32.61	81.5	2.665	43.83	11.11	na
111	2007	364	430	33.72	78.1	2.616	44.09	12.74	na
111	2007	364	445	32.01	82.7	2.415	17.98	7.64	na
111	2007	364	500	31.1	84.3	1.214	11.63	6.636	na
111	2007	364	515	30.4	85.4	0.184	10.06	2.54	na
111	2007	364	530	29.89	86.7	0.52	31.66	10.93	na
111	2007	364	545	29.6	87.8	0.911	19.89	5.058	na
111	2007	364	600	29.29	88.4	0.879	22.86	9.18	na
111	2007	364	615	29	89.1	0.04	77.5	0.384	na
111	2007	364	630	28.84	89.4	0.731	7.06	18.57	na
111	2007	364	645	28.56	90	0.357	20.81	8.06	na
111	2007	364	700	28.67	90.4	0.613	41.02	9.11	na
111	2007	364	715	28.7	90.6	1.004	23.46	9.72	na
111	2007	364	730	28.58	90.8	0.381	45.63	13.95	na
111	2007	364	745	28.34	90.9	0.018	38.61	0	na
111	2007	364	800	28.5	91.5	0.637	54.91	18	na
111	2007	364	815	28.78	91.5	1.134	98.2	10.07	na
111	2007	364	830	29.68	90.3	1.435	107.5	14.14	na
111	2007	364	845	29.72	90	0.345	105.1	5.718	na
111	2007	364	900	29.84	89.6	0.381	78.7	3.741	na
111	2007	364	915	30	89.5	0.162	70.7	2.245	na
111	2007	364	930	30.36	89.6	0.252	118.9	9.3	na
111	2007	364	945	31.38	88.4	0.266	115.7	12.42	na
111	2007	364	1000	32.21	86.5	0.703	133.8	9.38	na
111	2007	364	1015	32.98	83.7	1.227	120.8	27.32	na
111	2007	364	1030	33.89	80.8	0.798	134	16.09	na
111	2007	364	1045	34.89	76.3	1.695	129.9	16.47	na
111	2007	364	1100	35.82	73	2.089	126.9	26.4	na
111	2007	364	1115	36.88	70.4	1.395	139	22.51	na
111	2007	364	1130	37.67	69.38	1.537	146.9	33.41	na
111	2007	364	1145	38.52	65.49	2.073	176.2	22.73	na
111	2007	364	1200	39.03	62.34	2.661	194.1	22.19	na
111	2007	364	1215	39.53	59.25	3.451	213.8	31.73	na
111	2007	364	1230	39.3	58.44	5.066	201.5	17.91	na

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	364	1245	39.44	57.37	3.827	207.5	19.52	na
111	2007	364	1300	39.88	53.42	4.486	229.5	19.74	na
111	2007	364	1315	39.93	54.25	3.986	222.4	21.35	na
111	2007	364	1330	40.04	54.42	3.422	209.5	24.53	na
111	2007	364	1345	40.19	54.32	3.182	206.6	38.63	na
111	2007	364	1400	40.06	54.25	3.672	184.8	43.87	na
111	2007	364	1415	39.98	54.72	4.919	161.6	21.86	na
111	2007	364	1430	39.98	54.09	4.557	167.9	26.1	na
111	2007	364	1445	40	53.28	4.589	179.2	30.4	na
111	2007	364	1500	40.29	54.22	3.841	190.2	28.42	na
111	2007	364	1515	40.33	54.09	4.287	195	30.16	na
111	2007	364	1530	40.12	54.25	4.808	184.3	27.69	na
111	2007	364	1545	40.09	54.99	3.835	177.3	25.86	na
111	2007	364	1600	40.02	55.56	3.374	165.4	26.51	na
111	2007	364	1615	39.99	55.52	4.285	180	27.92	na
111	2007	364	1630	39.66	55.66	4.931	181.3	24.5	na
111	2007	364	1645	39.23	55.19	4.823	193	22.96	na
111	2007	364	1700	38.99	54.62	4.293	183.5	28.5	na
111	2007	364	1715	38.85	54.55	4.133	184.8	27.1	na
111	2007	364	1730	38.65	54.45	4.325	191.6	23.38	na
111	2007	364	1745	38.5	55.39	3.638	179	31.71	na
111	2007	364	1800	38.36	56.23	2.578	164.1	29.55	na
111	2007	364	1815	38.27	56.53	2.891	166.1	32.69	na
111	2007	364	1830	38	58.81	3.817	178	24.23	na
111	2007	364	1845	37.24	65.97	3.992	173.9	23.81	na
111	2007	364	1900	36.46	68.19	4.178	193.2	21.95	na
111	2007	364	1915	36.3	71	3.868	193.9	22.03	na
111	2007	364	1930	35.87	74.4	3.473	182.2	24.49	na
111	2007	364	1945	35.44	76.5	2.785	166.3	24.54	na
111	2007	364	2000	35.1	80.4	3.295	172.5	26.39	na
111	2007	364	2015	34.63	83.5	4.029	189.3	30.03	na
111	2007	364	2030	34.51	84.7	4.432	173.1	25.34	na
111	2007	364	2045	34.46	85.8	4.563	168.8	23.66	na
111	2007	364	2100	34.38	86.7	4.48	165.7	24.47	na
111	2007	364	2115	34.5	87.7	4.996	179.1	24.11	na
111	2007	364	2130	34.56	88.6	5.385	175.8	27.05	na
111	2007	364	2145	34.75	89.3	4.716	168.8	25.82	na
111	2007	364	2200	34.88	89.9	4.401	162.5	30.11	na
111	2007	364	2215	34.96	90.9	4.311	173.8	24.64	na
111	2007	364	2230	35.04	91.6	4.627	176.3	25.37	na
111	2007	364	2245	35.21	92.3	4.706	192.1	29.7	na
111	2007	364	2300	35.48	92.8	6.652	195.6	18.16	na
111	2007	364	2315	35.82	92.9	8.12	205.3	17.89	na
111	2007	364	2330	36.1	93.6	7.65	196.2	27.6	na
111	2007	364	2345	36.78	93.7	5.501	185.9	26.46	na
111	2007	364	2400	37.29	93.6	4.476	175.6	25.9	na
111	2007	365	15	37.58	93.8	5.834	181.5	22.49	na
111	2007	365	30	37.94	93.9	5.54	187.6	23.53	na
111	2007	365	45	38.26	93.6	5.377	182.7	23.7	na
111	2007	365	100	38.57	93.6	5.991	189	23.66	na
111	2007	365	115	39.11	92.7	8.8	194.5	21.96	na
111	2007	365	130	39.19	92.2	7.54	192.7	19.32	na
111	2007	365	145	39.18	91.8	7.01	186.8	23.22	na
111	2007	365	200	39.08	91.8	5.542	180.8	28.99	na
111	2007	365	215	38.94	92.1	5.171	183.4	21.57	na
111	2007	365	230	38.83	92.3	3.999	179.2	26.31	na
111	2007	365	245	38.74	92.5	3.247	177.7	27.19	na
111	2007	365	300	38.67	92.8	3.225	168.1	27.26	na
111	2007	365	315	38.61	93	3.342	133.2	26.14	na
111	2007	365	330	38.4	93.1	3.509	128.8	27.04	na

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	365	345	38	93.2	2.886	126.3	28.4	na
111	2007	365	400	37.87	93.6	5.737	77.7	48.82	na
111	2007	365	415	38.01	93.7	7.09	53.87	21.37	na
111	2007	365	430	38.02	92.3	7.31	71.5	24.67	na
111	2007	365	445	36.24	92.2	7.1	90.8	21.42	na
111	2007	365	500	35.44	91.9	5.352	118.7	34.05	na
111	2007	365	515	35.04	92	6.201	129.6	38.32	na
111	2007	365	530	34.93	91.7	6.041	107.5	30.17	na
111	2007	365	545	34.86	91.4	5.163	116.6	32.58	na
111	2007	365	600	34.7	91.1	6.184	125.2	27.64	na
111	2007	365	615	34.8	90.9	5.252	116.5	28.17	na
111	2007	365	630	34.84	90.4	5.235	120.1	24.56	na
111	2007	365	645	34.89	90.2	3.763	115.3	28.99	na
111	2007	365	700	35.08	89.8	3.332	104.4	25.07	na
111	2007	365	715	35.21	89.6	3.779	68.74	30.13	na
111	2007	365	730	35.1	89.9	3.684	41.47	14.35	na
111	2007	365	745	35.02	90.2	3.938	53.56	23.35	na
111	2007	365	800	34.9	90.5	3.845	48.83	22.69	na
111	2007	365	815	34.86	90.6	3.722	32.07	17.15	na
111	2007	365	830	34.88	90.6	4.508	29.18	14.95	na
111	2007	365	845	34.98	90.4	5.082	30.6	16.29	na
111	2007	365	900	35.01	89.8	6.434	29.62	14.98	na
111	2007	365	915	35.17	89.4	6.41	30.88	18.67	na
111	2007	365	930	35.42	88.8	6.368	24.57	15.17	na
111	2007	365	945	35.91	87.9	6.243	23.12	19.96	na
111	2007	365	1000	36.62	86	6.759	26.89	18.03	na
111	2007	365	1015	37.55	81.4	8.33	32.24	20.32	na
111	2007	365	1030	38.27	78.6	9.14	29.62	18.86	na
111	2007	365	1045	39.01	74.5	9.4	27.97	18.09	na
111	2007	365	1100	39.64	71.4	10.44	25.95	18.18	na
111	2007	365	1115	40.38	67.21	10.71	34.32	15.38	na
111	2007	365	1130	40.97	62.66	12.09	39.29	19.08	na
111	2007	365	1145	41.32	62.05	11.98	38.15	20.85	na
111	2007	365	1200	41.61	59.54	12.07	41.23	18.42	na
111	2007	365	1215	41.7	58.23	12.1	35.45	18.57	na
111	2007	365	1230	42.04	56.88	11.09	38.15	17.79	na
111	2007	365	1245	42.48	55.78	10.86	45.6	20.97	na
111	2007	365	1300	42.93	53.7	11.89	39.89	16.7	na
111	2007	365	1315	43.11	51.26	11.38	44.23	22.47	na
111	2007	365	1330	43.28	50.89	10.19	44.3	20.7	na
111	2007	365	1345	43.4	49.25	12.4	49.95	22.1	na
111	2007	365	1400	43.65	48.88	12.1	40.3	21.66	na
111	2007	365	1415	43.75	49.92	10.87	46.67	17.3	na
111	2007	365	1430	43.86	49.68	12.34	35.74	19.23	na
111	2007	365	1445	43.93	49.78	10.06	41.14	17.83	na
111	2007	365	1500	43.7	50.45	11.37	34.64	20.43	na
111	2007	365	1515	43.95	49.31	10.1	46.49	19.04	na
111	2007	365	1530	44.21	47.67	8.99	39.9	17.87	na
111	2007	365	1545	43.94	48.71	11.51	40.52	23.76	na
111	2007	365	1600	43.92	45.9	11.39	46.24	26.14	na
111	2007	365	1615	43.91	46.13	10.24	48.12	19.69	na
111	2007	365	1630	43.69	47.24	10.45	46.37	17.44	na
111	2007	365	1645	43.52	47.04	9.25	44.51	17.96	na
111	2007	365	1700	43.26	48.11	8.8	39.81	19.48	na
111	2007	365	1715	42.86	48.98	8.09	43.18	16.85	na
111	2007	365	1730	42.32	50.69	7.69	48.4	17.86	na
111	2007	365	1745	41.69	50.96	6.41	51.05	19.49	na
111	2007	365	1800	41.39	51.57	6.336	57.05	18.38	na
111	2007	365	1815	40.81	52.27	4.855	64.43	18.96	na
111	2007	365	1830	40.36	52.68	4.319	55.42	23.37	na

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2007	365	1845	39.95	53.58	4.113	42.58	19.18	na
111	2007	365	1900	39.43	55.59	3.09	29.19	13.74	na
111	2007	365	1915	38.67	57.57	2.169	23.9	12.88	na
111	2007	365	1930	37.16	63.24	1.734	14.89	23.3	na
111	2007	365	1945	36.94	61.03	2.755	24.34	24.13	na
111	2007	365	2000	37.36	61.74	1.33	31.27	12.47	na
111	2007	365	2015	35.86	66.83	1.163	20.07	10.46	na
111	2007	365	2030	34.33	70.5	0.377	14.53	12.86	na
111	2007	365	2045	33.53	72.4	0.175	18.33	6.763	na
111	2007	365	2100	32.81	74.6	0.216	40.22	1.686	na
111	2007	365	2115	32.4	77.5	0.894	38.4	11.28	na
111	2007	365	2130	31.57	78.4	0.094	43.72	16.2	na
111	2007	365	2145	31.44	79.3	0.499	84.5	5.819	na
111	2007	365	2200	30.86	80.4	0.282	96	5.686	na
111	2007	365	2215	30.43	81.6	0.081	90.5	4.277	na
111	2007	365	2230	30.22	82.5	0.78	46.35	6.002	na
111	2007	365	2245	29.7	83.2	0.332	64.53	35.2	na
111	2007	365	2300	29.21	84.9	0.829	18.73	18.35	na
111	2007	365	2315	28.78	85.6	0.517	356.2	10.73	na
111	2007	365	2330	28.35	86.3	0.581	4.735	21.83	na
111	2007	365	2345	28.35	86.7	0.311	68.68	13.87	na
111	2007	365	2400	28.37	87.4	0.537	38.16	13.6	na
111	2008	1	15	28.35	87.9	0.412	46	14.9	12.5
111	2008	1	30	28.25	88.2	0.398	16.1	4.573	12.5
111	2008	1	45	28.29	88.7	0.494	101	8.15	12.49
111	2008	1	100	28.44	88.5	0.519	29.13	5.996	12.49
111	2008	1	115	27.95	89.4	0.027	103.3	2.279	12.48
111	2008	1	130	28.27	89.6	0.081	111.1	7.87	12.48
111	2008	1	145	28.37	89.3	0.398	130.8	13.61	12.48
111	2008	1	200	28.18	89.6	0.472	130.2	18.18	12.47
111	2008	1	215	28.04	89.5	0.38	102.6	25.71	12.47
111	2008	1	230	27.48	89.8	0.1	16.8	0.799	12.46
111	2008	1	245	27.03	90.3	0.429	10.12	34.78	12.46
111	2008	1	300	27.21	90.5	0.663	120.3	20.8	12.46
111	2008	1	315	27.17	90.7	0.536	106.4	20.89	12.45
111	2008	1	330	27.31	91	1.661	185.5	16.16	12.45
111	2008	1	345	27.57	90.8	0.211	131.9	26.73	12.45
111	2008	1	400	27.3	91	0.896	165.2	31.96	12.43
111	2008	1	415	27.31	91.2	0.387	137.8	33.03	12.44
111	2008	1	430	27.22	91.3	0.373	83.7	13.04	12.43
111	2008	1	445	27.17	91.2	na	na	na	12.44
111	2008	1	500	26.93	91.6	0.168	126.8	9.35	12.43
111	2008	1	515	26.81	91.7	0.203	157.5	6.999	12.42
111	2008	1	530	26.93	91.8	0.171	160.4	8.02	12.42
111	2008	1	545	26.64	92.1	0.201	159.6	16.24	12.42
111	2008	1	600	26.82	92.4	0.147	178.3	6.748	12.41
111	2008	1	615	27.48	92.9	1.852	180.3	12.79	12.41
111	2008	1	630	28.96	92.2	1.48	194	10.72	12.41
111	2008	1	645	30.05	91.9	2.828	187.9	9.39	12.41
111	2008	1	700	31.24	91.1	2.524	185.4	11.56	12.41
111	2008	1	715	32.23	90.1	0.856	185.1	19.39	12.41
111	2008	1	730	34.64	87.5	3.774	249.3	20.32	12.41
111	2008	1	745	38.77	77.4	8.37	238.2	16.5	12.41
111	2008	1	800	39.79	76.8	9.22	238.9	15.6	12.41
111	2008	1	815	40.06	77.3	8.37	243.4	17.64	12.42
111	2008	1	830	40.34	77.1	8.38	242.5	18.85	12.43
111	2008	1	845	40.74	77.4	8.41	243.7	21.25	12.43
111	2008	1	900	41.14	77.6	8.62	251	19.64	12.44
111	2008	1	915	41.67	77.5	9.32	251.1	21.57	12.44
111	2008	1	930	41.76	77.7	8.1	255.6	20.43	12.44

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	1	945	41.14	82.1	8.15	244.3	18.13	12.44
111	2008	1	1000	41.13	82.4	9.22	238.9	16.79	12.44
111	2008	1	1015	41.3	82	9.27	239	18.94	12.44
111	2008	1	1030	41.53	82.8	8.83	243.5	18.69	12.44
111	2008	1	1045	41.7	84.8	8.81	242.1	17.87	12.43
111	2008	1	1100	42.02	85	8.16	252	22.17	12.44
111	2008	1	1115	42.42	84.5	8.61	256.1	22.11	12.57
111	2008	1	1130	42.75	85.2	8.49	257.7	29.99	12.51
111	2008	1	1145	42.65	87.8	10.08	262.7	23.12	12.47
111	2008	1	1200	42.69	88.7	8.69	257.6	22.14	12.47
111	2008	1	1215	43.48	87.9	8.16	267.9	28.13	12.53
111	2008	1	1230	43.75	88.2	8.11	273.5	23.83	12.66
111	2008	1	1245	44.2	88	9.1	283.7	33.57	12.67
111	2008	1	1300	45.14	85.3	8.52	291.4	26.2	12.61
111	2008	1	1315	45.13	87.6	7.64	299.2	25.5	12.56
111	2008	1	1330	44.68	88.9	4.762	0.681	32.29	12.5
111	2008	1	1345	44.54	89.7	3.86	340.8	34.61	12.49
111	2008	1	1400	44.31	90.8	4.113	350.7	23.52	12.5
111	2008	1	1415	44.51	91.5	3.751	344.4	23.28	12.51
111	2008	1	1430	44.84	91.7	3.341	353.7	20.03	12.53
111	2008	1	1445	45.37	90.9	4.835	7.43	26.17	12.87
111	2008	1	1500	45.86	86.4	6.227	17.6	23.76	12.79
111	2008	1	1515	46.19	81.3	7.15	27.13	14.16	12.75
111	2008	1	1530	46.24	81.4	5.338	32.02	18.64	12.69
111	2008	1	1545	46.37	75.5	5.896	36.87	16.54	12.65
111	2008	1	1600	46.54	68.7	7.18	43.59	16.09	12.65
111	2008	1	1615	46.22	58.02	8.07	44.06	18.07	12.77
111	2008	1	1630	46.14	57.62	7.79	52	19.4	12.77
111	2008	1	1645	45.38	60.33	5.802	48.27	19.78	12.67
111	2008	1	1700	45.24	58.59	6.926	50.77	19.8	12.63
111	2008	1	1715	45.35	54.74	6.785	43.8	19.23	12.58
111	2008	1	1730	44.94	49.95	8.65	41.38	21.3	12.55
111	2008	1	1745	44.38	51.69	7.17	44.84	19.19	12.52
111	2008	1	1800	43.52	54.51	3.652	42.3	13.97	12.51
111	2008	1	1815	42.76	54.54	4.059	43.35	18.13	12.49
111	2008	1	1830	42.47	55.92	4.323	45.35	19.95	12.48
111	2008	1	1845	42.12	54.02	5.763	39.49	16.56	12.47
111	2008	1	1900	42.25	47.45	7.67	37.29	20.47	12.46
111	2008	1	1915	42.06	46.92	7.27	33.17	19.72	12.45
111	2008	1	1930	41.75	43.84	7.92	40.65	17.03	12.45
111	2008	1	1945	41.46	45.38	6.307	38.89	19.16	12.44
111	2008	1	2000	40.92	47.66	5.856	32.11	16.41	12.44
111	2008	1	2015	40.48	46.15	6.479	32.76	17.2	12.43
111	2008	1	2030	40.38	44.81	7.96	29.78	14.98	12.43
111	2008	1	2045	40.3	43.84	8.54	24.11	17.15	12.43
111	2008	1	2100	40.24	44.17	7.78	30.08	20.26	12.42
111	2008	1	2115	40.23	45.48	8.79	28.55	15.88	12.42
111	2008	1	2130	39.95	48.12	7.59	24.22	17.05	12.41
111	2008	1	2145	39.64	48.26	7.78	27.88	20.39	12.41
111	2008	1	2200	39.73	47.39	9.89	25.5	15.73	12.41
111	2008	1	2215	39.65	46.45	9.04	31.81	17.04	12.41
111	2008	1	2230	39.3	48.73	7.8	25.88	16.64	12.41
111	2008	1	2245	38.72	49.7	7.7	23.89	13.42	12.41
111	2008	1	2300	38.47	49.26	8.31	25.15	16.99	12.4
111	2008	1	2315	38.56	48.63	8.79	21.74	16.86	12.4
111	2008	1	2330	38.41	50.57	8.55	21.68	20.16	12.4
111	2008	1	2345	38.12	50.47	8.84	23.85	18.35	12.4
111	2008	1	2400	37.91	50.61	9.13	25.56	19.3	12.4
111	2008	2	15	37.56	51.98	8.25	23.19	18.99	12.39
111	2008	2	30	37.07	53.53	6.799	19.33	22.99	12.39

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	2	45	36.94	53.16	9.18	27.62	15.7	12.38
111	2008	2	100	36.68	54.64	9.42	20.91	15.11	12.39
111	2008	2	115	36.45	54.13	8.79	22.59	15.19	12.38
111	2008	2	130	36.23	55.24	7.73	22.25	22.23	12.37
111	2008	2	145	35.91	56.25	7.31	24.64	19.37	12.37
111	2008	2	200	35.77	55.61	7.6	22.43	16.19	12.37
111	2008	2	215	35.69	55.58	8.16	26	23.6	12.37
111	2008	2	230	35.42	57.09	6.233	16.97	19.4	12.37
111	2008	2	245	35.21	57.59	6.237	19.36	19.85	12.36
111	2008	2	300	35.1	57.35	7.45	22.89	20.13	12.35
111	2008	2	315	34.91	58.53	6.819	24.26	15.06	12.36
111	2008	2	330	34.77	57.82	8.53	26.16	15.67	12.36
111	2008	2	345	34.76	58.66	8.62	27.57	16.58	12.36
111	2008	2	400	34.73	58.63	8.2	27.62	17.81	12.35
111	2008	2	415	34.57	59.03	8.3	28.65	12.75	12.35
111	2008	2	430	34.36	59.66	8.71	29.52	16.94	12.35
111	2008	2	445	34.21	60.44	7.49	35.22	17.96	12.35
111	2008	2	500	33.93	61.34	6.031	27.57	15.28	12.35
111	2008	2	515	33.7	62.01	6.422	30.92	14.95	12.35
111	2008	2	530	33.62	61.94	6.164	28.06	18.37	12.34
111	2008	2	545	33.72	61.74	5.884	28.62	18.05	12.33
111	2008	2	600	33.97	60.44	6.138	43.22	21.04	12.33
111	2008	2	615	34.21	59.13	4.966	61.07	27.33	12.34
111	2008	2	630	34.11	58.73	3.404	97.6	27.81	12.34
111	2008	2	645	34.1	58.19	6.344	52.35	19.75	12.34
111	2008	2	700	34.16	57.19	5.242	50.72	23.87	12.33
111	2008	2	715	34.23	55.28	7	43.67	19.79	12.34
111	2008	2	730	33.86	55.41	7.02	48.22	21.83	12.34
111	2008	2	745	33.43	53.1	8	49.23	22.29	12.33
111	2008	2	800	33.06	52.66	8.02	53.73	23.45	12.33
111	2008	2	815	32.76	53.84	7.54	59.76	22.13	12.33
111	2008	2	830	32.46	55.24	5.812	47.1	20.71	12.33
111	2008	2	845	32.12	55.68	6.021	53.33	21.77	12.33
111	2008	2	900	31.83	56.11	7.31	52.22	22.39	12.33
111	2008	2	915	31.61	56.82	7.4	58.51	19.77	12.33
111	2008	2	930	31.44	57.69	7.02	61.66	25.05	12.32
111	2008	2	945	31.32	58.69	6.626	66.97	29.35	12.32
111	2008	2	1000	31.14	61.14	6.827	71	22.96	12.32
111	2008	2	1015	30.29	65.2	7.38	65.85	25.56	12.32
111	2008	2	1030	29.8	67.51	8.5	73.4	20.64	12.31
111	2008	2	1045	29.49	73.2	7.12	81.4	21.39	12.31
111	2008	2	1100	29.18	75.1	6.225	88.6	32.84	12.32
111	2008	2	1115	29.34	71	6.513	109	33.29	12.48
111	2008	2	1130	29.11	70.7	7.16	109.5	32.29	12.5
111	2008	2	1145	28.73	76.3	6.41	104.9	29.78	12.51
111	2008	2	1200	28.57	67.18	6.61	106.1	34.79	12.55
111	2008	2	1215	29.31	62.12	8.11	116.6	26.27	12.68
111	2008	2	1230	29.22	58.24	7.47	104.5	30.06	12.79
111	2008	2	1245	29.31	57.73	8.26	101.6	30.84	12.94
111	2008	2	1300	29.5	54.15	9.02	84.6	27	13.81
111	2008	2	1315	30.05	50.53	9.14	83.9	27.3	13.8
111	2008	2	1330	30.62	47.44	9.22	103.8	29.54	13.78
111	2008	2	1345	30.34	49.18	9.36	101.5	32.5	13.78
111	2008	2	1400	30.5	45.39	9.52	95.4	30.12	13.78
111	2008	2	1415	30.16	47.27	10.02	111.8	38.13	13.78
111	2008	2	1430	30.21	45.63	10.48	98.1	27.57	13.78
111	2008	2	1445	30.38	46.23	9.28	90.1	24.98	13.79
111	2008	2	1500	29.96	44.66	10.46	114.8	29.7	13.2
111	2008	2	1515	30.06	45.29	10.21	100.9	32.91	13.8
111	2008	2	1530	29.96	44.56	9.45	91.7	26.82	13.82

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	2	1545	29.71	45.43	10	81.1	23.79	13.06
111	2008	2	1600	29.68	45.16	9.47	103.3	23.62	13.05
111	2008	2	1615	29.62	44.72	10.01	104.7	34.58	13.38
111	2008	2	1630	29.05	44.89	9.94	92.1	25.89	13.14
111	2008	2	1645	28.6	46.83	9.93	93.7	22.23	12.88
111	2008	2	1700	28.12	47.04	9.24	100.5	29.89	12.82
111	2008	2	1715	27.8	44.83	9.36	104.5	30.12	12.78
111	2008	2	1730	27.59	46.44	8.88	113	26.99	12.74
111	2008	2	1745	27.5	47.65	6.569	109.8	30.29	12.72
111	2008	2	1800	27.53	45.48	8.46	99.1	30.28	12.71
111	2008	2	1815	27.3	45.68	9.4	101.2	27.77	12.69
111	2008	2	1830	26.91	47.52	9.6	109.2	29.84	12.68
111	2008	2	1845	26.34	48.56	9.39	106.8	29.19	12.66
111	2008	2	1900	25.85	49.77	8.56	92.9	33.43	12.65
111	2008	2	1915	25.52	48.5	8.59	98.6	25.55	12.64
111	2008	2	1930	24.91	49.24	9.19	103.2	32.9	12.63
111	2008	2	1945	24.22	45.82	10.01	103.9	30.65	12.61
111	2008	2	2000	23.43	42.71	10.06	99.4	27.18	12.61
111	2008	2	2015	22.98	43.28	9.42	97.9	29.57	12.59
111	2008	2	2030	22.63	42.88	7.85	98.1	27.78	12.58
111	2008	2	2045	22.27	42.91	7.36	104.9	38.07	12.57
111	2008	2	2100	21.78	42.74	8.88	97.9	30.7	12.56
111	2008	2	2115	21.36	42.44	10.25	99.2	31.8	12.56
111	2008	2	2130	20.9	42.31	11.18	109.3	26.58	12.55
111	2008	2	2145	20.6	42.07	10.28	103.6	32.84	12.54
111	2008	2	2200	20.23	42.91	9.39	106.2	30.84	12.53
111	2008	2	2215	19.81	42.31	9.11	108.4	28.53	12.52
111	2008	2	2230	19.39	41.44	9.35	102.7	27.79	12.52
111	2008	2	2245	19.04	42.22	9.09	97.6	27.3	12.51
111	2008	2	2300	18.74	41.58	8.39	104	29.04	12.51
111	2008	2	2315	18.5	41.18	8.24	99.4	28.43	12.49
111	2008	2	2330	18.08	42.69	6.331	98.6	29.12	12.49
111	2008	2	2345	17.8	41.88	8.6	73.3	23.81	12.48
111	2008	2	2400	17.64	42.45	10.01	75.1	22.01	12.47
111	2008	3	15	17.39	43.26	10.08	79.1	21.96	12.46
111	2008	3	30	17.24	41.15	9.41	86.6	23.64	12.47
111	2008	3	45	16.94	39.84	12.02	85	22.25	12.45
111	2008	3	100	16.55	42.25	9.69	75	23.31	12.45
111	2008	3	115	16.36	42.79	10.13	79.4	23.24	12.44
111	2008	3	130	16.17	41.48	9.74	79.4	23.21	12.44
111	2008	3	145	15.94	43.8	10.12	77.2	22.27	12.43
111	2008	3	200	15.69	46.45	8.1	79.2	22.38	12.43
111	2008	3	215	15.43	46.18	8.02	74.4	24.33	12.43
111	2008	3	230	15.21	46.15	7.46	77.3	22.72	12.41
111	2008	3	245	15.12	44.58	8.54	77.5	22.29	12.41
111	2008	3	300	15.1	45.49	7.05	80.4	19.81	12.4
111	2008	3	315	15.07	44.08	7.02	86.2	24.52	12.4
111	2008	3	330	14.99	44.62	7.03	89.5	28.14	12.4
111	2008	3	345	14.9	45.76	7.62	88.7	25.86	12.39
111	2008	3	400	14.85	46.33	6.18	89	29.74	12.38
111	2008	3	415	14.76	47.13	6.021	86.6	23.15	12.37
111	2008	3	430	14.69	47.77	5.826	83.3	26.46	12.37
111	2008	3	445	14.72	47.94	6.261	90.5	25.2	12.36
111	2008	3	500	14.72	47.84	6.309	84.5	26.13	12.36
111	2008	3	515	14.73	48	6.053	85.3	20.48	12.35
111	2008	3	530	14.68	48.71	5.759	91.3	22.97	12.35
111	2008	3	545	14.68	48.31	6.029	93.6	25.47	12.35
111	2008	3	600	14.69	47.94	7.23	85.4	25.52	12.34
111	2008	3	615	14.54	46.83	8.78	86.3	19.78	12.34
111	2008	3	630	14.21	48.17	6.446	89.5	27.38	12.32

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	3	645	13.89	49.45	6.384	91.8	30.62	12.32
111	2008	3	700	13.54	50.02	7.27	105.2	30.36	12.31
111	2008	3	715	13.19	51.63	5.701	104.9	26.64	12.31
111	2008	3	730	12.6	51.63	5.812	103.8	27.96	12.29
111	2008	3	745	12.05	52.3	5.326	109.1	33.62	12.28
111	2008	3	800	11.77	53.4	6.196	91.4	27.82	12.28
111	2008	3	815	11.68	53.44	5.957	90.7	29.96	12.27
111	2008	3	830	11.66	52.23	6.98	94.1	25.23	12.26
111	2008	3	845	11.76	52.06	6.519	94.1	29.25	12.26
111	2008	3	900	11.89	51.49	7.02	89	28.87	13.96
111	2008	3	915	12.02	50.92	7.83	89.4	22.89	14.17
111	2008	3	930	12.1	48.27	8.95	92.9	22.7	14.16
111	2008	3	945	12.31	47.6	7.82	94.6	26.53	14.15
111	2008	3	1000	12.32	45.02	8.75	100.8	31.13	14.15
111	2008	3	1015	12.15	45.05	10.08	104.3	26.09	13.22
111	2008	3	1030	12.62	44.95	8.11	93.2	29.09	13.09
111	2008	3	1045	13.18	43.67	9.28	101.2	29.97	14.14
111	2008	3	1100	13.47	42.09	8.4	102.5	30.32	14.14
111	2008	3	1115	13.88	40.58	8.99	95.8	23.43	14.12
111	2008	3	1130	14.4	41.62	9.1	97.8	23.56	14.11
111	2008	3	1145	14.82	39.47	9.25	90.4	24.84	14.1
111	2008	3	1200	15.13	37.73	9.5	80.1	21.91	14.09
111	2008	3	1215	15.08	37.76	9.82	88	24.9	14.08
111	2008	3	1230	15.41	36.28	10.25	92.7	27.63	14.08
111	2008	3	1245	15.71	34.97	10.55	92.9	28.3	14.08
111	2008	3	1300	16.32	32.19	9.52	83	27.29	14.07
111	2008	3	1315	16.44	32.59	10.21	96.5	26.13	14.06
111	2008	3	1330	16.86	31.35	10.4	79.2	26.6	14.06
111	2008	3	1345	17.06	31.68	9.79	85.2	26.07	14.06
111	2008	3	1400	17.31	30.71	10.8	98.9	27.03	14.05
111	2008	3	1415	18.03	29.5	8.34	85.7	27.52	14.05
111	2008	3	1430	18.14	30.34	10.49	79.9	29.42	14.04
111	2008	3	1445	18.95	30.14	8.43	94.5	31.23	14.04
111	2008	3	1500	18.93	30.04	10.43	85.9	26.77	14.04
111	2008	3	1515	18.94	28.39	10.41	89.2	29.92	14.04
111	2008	3	1530	19.52	28.93	8.59	107.6	29.74	14.04
111	2008	3	1545	19.52	29.1	8.28	109.8	29.94	13.09
111	2008	3	1600	19.72	29.5	8.17	105	26.43	13.07
111	2008	3	1615	19.89	29.06	8.17	96.6	29.37	14.05
111	2008	3	1630	19.78	28.7	8.73	87.9	24.99	13.56
111	2008	3	1645	19.79	29.87	8.12	93.5	29.69	13.02
111	2008	3	1700	19.95	29.43	6.43	88.7	28.15	12.83
111	2008	3	1715	19.36	29.63	7.77	80.9	25.75	12.77
111	2008	3	1730	18.96	31.75	7.47	81.6	27.72	12.73
111	2008	3	1745	18.69	31.04	5.205	93.3	33.3	12.7
111	2008	3	1800	18.54	30.91	6.39	88.8	28.16	12.68
111	2008	3	1815	18.43	30.44	4.933	98.1	27.37	12.67
111	2008	3	1830	18.28	30.51	4.422	94	27.87	12.64
111	2008	3	1845	18.22	29.98	5.302	97.1	27.81	12.63
111	2008	3	1900	18.12	29.34	5.328	91.4	29.78	12.61
111	2008	3	1915	17.95	30.75	4.609	102.3	34.51	12.61
111	2008	3	1930	17.72	31.79	3.898	104.3	25.23	12.6
111	2008	3	1945	17.46	33.87	4.412	104.4	26.78	12.58
111	2008	3	2000	17.38	35.82	4.25	82	24.79	12.57
111	2008	3	2015	17.11	38.47	3.751	107.2	29.48	12.56
111	2008	3	2030	16.77	40.21	4.129	103.2	31.87	12.56
111	2008	3	2045	16.52	41.09	3.666	105.5	30.92	12.55
111	2008	3	2100	16.24	42.6	3.301	107.9	29.84	12.53
111	2008	3	2115	15.95	43.27	3.289	102	31.26	12.53
111	2008	3	2130	15.75	43.71	3.62	90.8	22.44	12.52

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	3	2145	15.52	44.28	4.075	87.7	23.96	12.52
111	2008	3	2200	15.29	44.88	3.962	83	20.08	12.51
111	2008	3	2215	15.05	45.86	3.839	75.3	18.76	12.51
111	2008	3	2230	14.76	46.16	3.211	68.48	21.16	12.49
111	2008	3	2245	14.53	47.1	3.696	64.7	17.11	12.48
111	2008	3	2300	14.42	47.84	3.396	59.84	19.42	12.47
111	2008	3	2315	14.2	48.54	2.516	69.36	24.75	12.47
111	2008	3	2330	14.14	46.96	3.362	68.39	19.59	12.47
111	2008	3	2345	14.19	46.33	3.501	67.6	23.21	12.45
111	2008	3	2400	14.14	47.6	2.81	64.29	19.98	12.45
111	2008	4	15	13.86	48.88	1.726	36.06	28.33	12.45
111	2008	4	30	13.63	49.65	1.017	52.62	13.97	12.44
111	2008	4	45	13.53	51.09	1.228	86.2	19.47	12.43
111	2008	4	100	13.49	51.96	1.329	98.4	31.19	12.43
111	2008	4	115	13.27	54.45	1.092	23.94	15.42	12.42
111	2008	4	130	12.25	57.94	0.929	305.8	12.48	12.41
111	2008	4	145	11.53	61.8	0.472	359	33.12	12.4
111	2008	4	200	11.99	61.8	0.889	34.74	26.14	12.39
111	2008	4	215	11.52	64.22	1.68	9.37	15.67	12.39
111	2008	4	230	11.64	64.12	0.584	42.01	7.29	12.38
111	2008	4	245	11.27	65.2	0.419	287.5	3.153	12.37
111	2008	4	300	11.64	66.1	1.462	39.51	18.77	12.36
111	2008	4	315	11.85	64.79	1.839	23.04	18.19	12.36
111	2008	4	330	11.73	66.24	0.244	315.3	6.961	12.35
111	2008	4	345	11.77	66.44	na	na	na	12.35
111	2008	4	400	11.72	67.61	0.599	350.4	7	12.34
111	2008	4	415	12.1	68.05	0.134	319	6.36	12.34
111	2008	4	430	13.19	66.3	0.543	8.47	15.62	12.33
111	2008	4	445	13.91	63.47	1.335	5.231	24.75	12.32
111	2008	4	500	14.56	60.89	1.63	17.61	19.55	12.32
111	2008	4	515	14.82	59.54	1.426	1.048	22.15	12.32
111	2008	4	530	15.13	58.03	1.987	7.8	17.49	12.31
111	2008	4	545	15.72	56.66	2.584	9.89	14.8	12.31
111	2008	4	600	16.05	56.12	1.88	8.75	16.69	12.31
111	2008	4	615	16.56	55.41	2.655	26.72	13.44	12.31
111	2008	4	630	17.06	55.65	2.528	14.28	20.08	12.3
111	2008	4	645	17.42	57.76	2.969	1.164	19.01	12.29
111	2008	4	700	18.07	57.65	3.156	2.471	17.67	12.29
111	2008	4	715	18.89	59.22	3.172	3.765	15.58	12.29
111	2008	4	730	19.48	59.69	3.074	12.96	22.72	12.29
111	2008	4	745	20.36	59.56	4.899	12.74	15.54	12.29
111	2008	4	800	21.12	59.66	6.585	10.02	16.01	12.29
111	2008	4	815	21.55	59.52	7.36	3.501	19.46	12.29
111	2008	4	830	22.01	58.88	8.13	4.75	13.53	12.29
111	2008	4	845	22.28	59.69	6.92	3.75	20.54	12.28
111	2008	4	900	22.52	62.26	6.896	4.605	18.16	12.28
111	2008	4	915	22.97	60.78	6.998	16.74	18.67	12.29
111	2008	4	930	23.03	58.7	7.25	12.77	17.63	12.34
111	2008	4	945	23.87	56.05	7.99	17.81	16.45	13.98
111	2008	4	1000	24.34	54.58	9.2	19.77	16.02	13.96
111	2008	4	1015	24.76	52.8	9.41	13.06	20.22	13.28
111	2008	4	1030	25.27	51.65	9.77	11.69	16.61	13.11
111	2008	4	1045	26.02	48.26	9.72	17.51	20.13	13.94
111	2008	4	1100	26.53	46.72	10.51	17.81	20.24	13.93
111	2008	4	1115	26.92	43.77	11.85	13.32	18.76	13.92
111	2008	4	1130	27.18	42.79	12.23	13.21	16.67	13.91
111	2008	4	1145	27.61	41.95	11.27	14.53	20.29	13.9
111	2008	4	1200	28.27	41.11	11.96	16.72	20.4	13.89
111	2008	4	1215	28.7	40.81	12.67	27.7	15.01	13.88
111	2008	4	1230	29.09	40.64	12.42	18.94	17.01	13.87

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	4	1245	29.48	40.6	11.88	20.09	21.12	13.87
111	2008	4	1300	29.93	38.53	11.33	21.23	16.64	13.86
111	2008	4	1315	30.43	36.75	11.58	15.58	18.98	13.86
111	2008	4	1330	30.88	35.81	11.37	11.53	14.83	13.85
111	2008	4	1345	31.94	33.27	10.39	25.05	20.79	13.84
111	2008	4	1400	31.97	34.04	12.36	28.7	15.2	13.83
111	2008	4	1415	32.52	32.8	10.1	23.66	18.91	13.83
111	2008	4	1430	32.63	31.79	8.09	25.31	18.37	13.83
111	2008	4	1445	33.33	31.42	9.66	22.48	18.66	13.83
111	2008	4	1500	33.82	30.65	7.9	21.86	23.46	13.83
111	2008	4	1515	34.55	30.35	8.38	21.3	19.18	13.81
111	2008	4	1530	33.97	30.88	8.64	19.71	20.51	13.45
111	2008	4	1545	33.92	31.08	7.46	5.327	19.45	13.19
111	2008	4	1600	34.19	31.55	7.2	9.92	23.01	13.13
111	2008	4	1615	34.49	31.62	6.336	16.57	22.43	12.96
111	2008	4	1630	34.46	31.72	6.825	10.7	22.3	12.85
111	2008	4	1645	34.38	31.15	6.712	10.04	17.07	12.8
111	2008	4	1700	34.31	30.89	6.853	15.71	18.77	12.78
111	2008	4	1715	34.2	30.52	6.519	18.76	18.97	12.76
111	2008	4	1730	34.31	31.73	6.366	13.85	19.31	12.74
111	2008	4	1745	34.36	31.46	5.016	15.23	16.76	12.73
111	2008	4	1800	34.42	31.69	5.866	13.6	15.57	12.72
111	2008	4	1815	34.43	32.4	4.544	18.96	15.68	12.71
111	2008	4	1830	34.5	32.76	4.734	13.72	22.07	12.71
111	2008	4	1845	34.6	33.33	4.776	14.8	16.97	12.7
111	2008	4	1900	34.62	34.14	4.581	19.81	18.81	12.68
111	2008	4	1915	34.77	32.9	5.165	17.19	16.31	12.68
111	2008	4	1930	34.88	32.23	5.516	21.08	16.11	12.67
111	2008	4	1945	34.87	33.57	4.315	22.22	15.26	12.67
111	2008	4	2000	34.74	33.87	3.527	13.07	21.47	12.66
111	2008	4	2015	34.37	34.57	3.156	15.98	17.85	12.65
111	2008	4	2030	33.94	37.09	3.247	8.8	15.52	12.64
111	2008	4	2045	33.66	40.5	3.894	2.039	17.19	12.64
111	2008	4	2100	33.53	44.22	3.839	4.092	19.88	12.63
111	2008	4	2115	33.59	45.63	5.312	8.16	12.83	12.63
111	2008	4	2130	33.62	45.13	5.101	4.239	21.55	12.61
111	2008	4	2145	33.61	44.66	4.462	359.3	21.51	12.61
111	2008	4	2200	33.72	44.46	4.174	358.5	19.7	12.6
111	2008	4	2215	33.7	43.89	4.339	3.863	17.1	12.6
111	2008	4	2230	33.88	45.23	5.121	358.3	21.44	12.6
111	2008	4	2245	33.83	46.57	4.363	358.5	21.97	12.59
111	2008	4	2300	33.88	46.37	5.27	8.18	20.2	12.58
111	2008	4	2315	34.34	43.92	5.64	12.82	21.37	12.58
111	2008	4	2330	34.62	43.79	5.848	4.395	20.91	12.58
111	2008	4	2345	34.52	45.36	5.614	4.527	22.44	12.57
111	2008	4	2400	34.48	46.03	5.558	3.181	21.19	12.57
111	2008	5	15	34.46	47.24	6.225	5.057	18.51	12.57
111	2008	5	30	34.25	48.04	6.67	5.75	15.53	12.56
111	2008	5	45	33.93	47.84	6.553	9.06	19.86	12.56
111	2008	5	100	33.75	47.2	7.49	11.1	18.8	12.56
111	2008	5	115	33.32	47.14	6.813	11.74	22.83	12.56
111	2008	5	130	32.84	47.81	5.783	6.335	13.23	12.55
111	2008	5	145	32.45	47.44	4.748	9.53	17.6	12.55
111	2008	5	200	32.21	48.54	4.7	9.25	17.19	12.53
111	2008	5	215	32.01	49.59	4.587	11.77	18.06	12.53
111	2008	5	230	31.56	51.33	3.1	22.27	13.24	12.52
111	2008	5	245	30.87	52.11	2.427	7.48	18.34	12.51
111	2008	5	300	30.15	53.85	1.921	357.7	28.93	12.51
111	2008	5	315	29.44	54.96	2.036	9.12	15.46	12.5
111	2008	5	330	29.28	54.29	0.494	4.397	13.87	12.49

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	5	345	28.45	57.48	0.749	30.46	10.77	12.48
111	2008	5	400	28.24	55.57	2.62	23.84	17.17	12.47
111	2008	5	415	29.99	52.09	4.224	23.69	16.63	12.46
111	2008	5	430	30.8	51.75	4.131	31.53	12.52	12.47
111	2008	5	445	30.33	53.82	3.449	3.67	18.77	12.45
111	2008	5	500	29.94	54.12	3.632	6.371	14.76	12.45
111	2008	5	515	29.9	56.33	2.973	358.3	20.51	12.45
111	2008	5	530	29.49	58.78	2.778	350.1	23.8	12.44
111	2008	5	545	29.52	59.75	2.657	355.4	20.78	12.44
111	2008	5	600	29.5	59.15	2.739	9.05	16.2	12.44
111	2008	5	615	29.69	57.74	2.772	12.29	22.19	12.42
111	2008	5	630	29.59	58.72	2.6	12.33	10.96	12.43
111	2008	5	645	29.19	59.75	1.267	11.97	22.35	12.42
111	2008	5	700	27.94	62.13	0.318	333	6.306	12.41
111	2008	5	715	26.29	64.99	na	na	na	12.4
111	2008	5	730	25.11	68.62	na	na	na	12.39
111	2008	5	745	24.71	71.3	0.283	74	5.109	12.39
111	2008	5	800	24.66	73.4	0.167	79.1	9.68	12.38
111	2008	5	815	24.79	74	0.546	135	23.61	12.36
111	2008	5	830	24.84	74.8	0.293	83.8	11.45	12.36
111	2008	5	845	25.08	74.2	0.449	68.89	6.111	12.36
111	2008	5	900	25.45	73.7	na	na	na	12.68
111	2008	5	915	26.26	73.6	0.045	79	3.465	12.74
111	2008	5	930	28.82	70.8	0.342	78	7.73	14
111	2008	5	945	31.82	64.69	1.081	15.04	20.16	13.96
111	2008	5	1000	33.34	65.52	3.136	1.016	32.09	13.92
111	2008	5	1015	34.67	63.27	4.327	3.443	23.89	13.9
111	2008	5	1030	35.34	63.29	5.509	5.944	17.84	13.88
111	2008	5	1045	36	60.37	4.669	355.9	23.59	13.86
111	2008	5	1100	36.76	57.12	4.847	359.4	20.74	13.83
111	2008	5	1115	36.68	59.66	5.223	2.112	26.34	13.81
111	2008	5	1130	36.53	60.42	4.456	341.1	19.8	13.56
111	2008	5	1145	36.44	59.41	4.031	338.4	25.27	13.16
111	2008	5	1200	36.35	59.18	4.021	351.1	28.84	13.16
111	2008	5	1215	36.45	56.8	4.818	356	20.8	13.72
111	2008	5	1230	36.57	58.71	5.113	348.8	30.54	13.81
111	2008	5	1245	36.54	59.31	4.323	345.3	23.18	13.8
111	2008	5	1300	36.94	59.14	4.506	353.1	24.41	13.79
111	2008	5	1315	37.28	61.12	4.659	340.7	31.12	13.79
111	2008	5	1330	37.4	61.65	4.403	325.5	24.17	13.78
111	2008	5	1345	38.37	60.42	4.929	330.7	26.16	13.75
111	2008	5	1400	38.37	61.99	6.033	3.196	23.54	13.75
111	2008	5	1415	38.52	62.83	6.702	359	28.47	13.74
111	2008	5	1430	38.58	62.39	6.464	1.899	23.27	13.74
111	2008	5	1445	38.98	62.49	6.178	358.2	24.63	13.73
111	2008	5	1500	38.57	64.73	5.977	4.972	19.14	13.66
111	2008	5	1515	38.57	63.49	5.3	353.9	25.51	13.68
111	2008	5	1530	38.8	63.9	4.617	342.4	33.23	13.2
111	2008	5	1545	38.56	65.91	4.831	351.9	22.97	13.11
111	2008	5	1600	38.65	67.11	3.261	331.6	25.11	13
111	2008	5	1615	38.62	67.92	3.497	331.5	24.7	12.91
111	2008	5	1630	38.74	67.88	3.207	333.7	28.67	12.87
111	2008	5	1645	38.91	67.75	2.216	337.6	28.3	12.8
111	2008	5	1700	38.72	68.55	2.681	328.1	23.15	12.77
111	2008	5	1715	38.52	70.2	2.923	333.1	25.71	12.76
111	2008	5	1730	38.26	70.8	2.633	317.9	24.26	12.74
111	2008	5	1745	37.97	71.4	3.156	337.8	23.69	12.73
111	2008	5	1800	37.84	72.4	2.943	325.8	30.67	12.72
111	2008	5	1815	37.68	74.2	2.58	342.7	25.02	12.71
111	2008	5	1830	37.62	75	2.57	325.9	21.59	12.69

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	5	1845	37.73	73.5	3.036	319.1	31.33	12.69
111	2008	5	1900	37.7	73.7	2.518	305.2	30.06	12.68
111	2008	5	1915	37.39	75.3	2.393	314	36.08	12.67
111	2008	5	1930	37.42	75.5	2.77	321.6	36.37	12.67
111	2008	5	1945	37.58	75.6	2.808	350.2	36.09	12.66
111	2008	5	2000	37.65	75.8	1.756	30.7	12.97	12.65
111	2008	5	2015	37.24	76.5	1.092	5.815	29.44	12.65
111	2008	5	2030	36.98	77.4	1.293	334.2	37.34	12.64
111	2008	5	2045	37.16	77.8	1.978	17.95	20.28	12.64
111	2008	5	2100	37.37	77	1.7	14.56	28.51	12.63
111	2008	5	2115	37.6	77.1	1.004	14.02	20.64	12.63
111	2008	5	2130	37.62	77.1	1.445	25.17	14.43	12.63
111	2008	5	2145	37.64	78.7	2.365	26.66	14.15	12.61
111	2008	5	2200	37.54	80.2	1.685	327.1	21.94	12.61
111	2008	5	2215	37.36	82.1	1.784	329.5	37.97	12.61
111	2008	5	2230	37.25	84	2.663	28.35	19.51	12.61
111	2008	5	2245	36.95	85	1.814	8.46	21.24	12.6
111	2008	5	2300	36.85	86.2	1.724	17.73	20.87	12.6
111	2008	5	2315	36.82	87	1.704	27.39	11.22	12.59
111	2008	5	2330	36.72	87.3	1.768	5.15	32.25	12.59
111	2008	5	2345	36.68	85.1	2.776	24.77	18.66	12.59
111	2008	5	2400	36.55	79.5	3.571	16.77	14.44	12.58
111	2008	6	15	36.3	78.2	4.496	15.71	11.39	12.57
111	2008	6	30	35.76	79.9	4.331	5.157	17.56	12.57
111	2008	6	45	35.39	81.7	4.899	3.163	22.03	12.56
111	2008	6	100	35.01	83	4.921	7.33	18.65	12.56
111	2008	6	115	34.78	84	4.617	8.73	16.39	12.55
111	2008	6	130	34.66	84.5	4.567	9.5	16.28	12.55
111	2008	6	145	34.53	85.3	3.378	13.56	21.06	12.55
111	2008	6	200	34.45	85.4	3.322	7.84	18.41	12.53
111	2008	6	215	34.5	85.6	2.949	2.542	22.65	12.53
111	2008	6	230	34.55	85.2	3.455	10.47	24.28	12.53
111	2008	6	245	34.68	84.2	3.63	18.23	14.78	12.52
111	2008	6	300	34.71	84.1	2.558	11.61	18.72	12.52
111	2008	6	315	34.75	84.1	2.764	358.4	19.51	12.52
111	2008	6	330	34.81	84.9	2.395	345.7	23.43	12.51
111	2008	6	345	34.69	85.9	1.692	324.4	28.26	12.47
111	2008	6	400	34.76	85.8	3.021	349.2	23.53	12.5
111	2008	6	415	34.92	84.7	3.855	356.2	23.01	12.49
111	2008	6	430	35.01	84.2	3.191	358.1	21.4	12.49
111	2008	6	445	35.16	83.8	2.668	7.92	23.94	12.49
111	2008	6	500	35.27	83.7	1.976	0.409	17.76	12.48
111	2008	6	515	35.37	83.2	2.544	336.4	26.42	12.48
111	2008	6	530	35.56	82.2	3.112	346.8	20.51	12.47
111	2008	6	545	35.68	81.3	3.019	353.4	20.71	12.47
111	2008	6	600	35.91	80.1	3.453	357.6	17.85	12.47
111	2008	6	615	36.01	79.3	3.833	1.682	16.06	12.47
111	2008	6	630	36.07	78.9	3.352	358.1	17.9	12.46
111	2008	6	645	35.85	78.1	3.841	3.831	17.69	12.45
111	2008	6	700	35.82	77.2	3.386	358.7	21.61	12.45
111	2008	6	715	35.76	76.8	2.933	3.052	17.18	12.44
111	2008	6	730	35.97	77.1	2.651	5.914	18.2	12.44
111	2008	6	745	36.23	74.6	4.113	356.3	15.97	12.43
111	2008	6	800	36.66	73.3	3.801	2.625	16.95	12.43
111	2008	6	815	36.8	73.4	2.576	353.4	24.72	12.43
111	2008	6	830	36.84	73.3	3.432	345.8	25	12.42
111	2008	6	845	36.64	72.4	4.252	358.9	15.29	12.42
111	2008	6	900	36.65	72.6	3.896	346.4	23.95	12.59
111	2008	6	915	37.07	72.6	3.908	353.8	22.24	12.68
111	2008	6	930	37.26	73.6	4.015	359.8	17.61	12.68

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	6	945	37.71	73.3	5.441	2.933	19.28	12.72
111	2008	6	1000	38.48	72	7.19	4.509	13.97	13.08
111	2008	6	1015	38.52	71.5	6.632	0.376	21.47	13.06
111	2008	6	1030	38.92	69.66	5.578	1.022	25.44	13.08
111	2008	6	1045	39.58	68.49	5.401	9.97	20.71	13.34
111	2008	6	1100	40.6	66.28	5.058	5.64	26.01	13.69
111	2008	6	1115	41.38	66.74	4.748	356.5	30.48	13.69
111	2008	6	1130	41.28	65.66	4.778	328.6	32.35	13.68
111	2008	6	1145	40.82	68.07	4.814	349	24.6	13.44
111	2008	6	1200	40.93	67.03	4.327	1.685	23.63	13.69
111	2008	6	1215	41.31	66.66	3.876	358.4	27.49	13.16
111	2008	6	1230	41.41	68.3	4.309	321.6	28.28	13.17
111	2008	6	1245	40.85	68.3	5.644	337.4	24.68	13.44
111	2008	6	1300	40.55	69.84	5.179	338.1	24.53	13.16
111	2008	6	1315	40.46	70.9	4.986	344.4	21.41	13.09
111	2008	6	1330	40.24	70.2	4.816	342.7	30.76	13.03
111	2008	6	1345	40.62	70.1	3.013	316.4	35.72	12.93
111	2008	6	1400	40.51	70.6	3.461	329.4	27.55	12.89
111	2008	6	1415	40.4	72.4	4.148	330	27.92	12.89
111	2008	6	1430	40.15	72.8	3.874	337.8	28.36	12.88
111	2008	6	1445	40.25	72.7	4.669	352.8	22.89	12.87
111	2008	6	1500	40.33	72.3	4.001	349.3	26.16	12.85
111	2008	6	1515	40.53	74.1	4.72	342.7	26.19	12.87
111	2008	6	1530	40.67	75.9	4.381	340.7	21.06	12.87
111	2008	6	1545	40.74	76.7	4.742	341.7	24.34	12.8
111	2008	6	1600	40.8	76.9	3.32	324.5	27.69	12.75
111	2008	6	1615	40.89	77.7	3.13	323	29.41	12.73
111	2008	6	1630	40.98	79.2	3.152	329.4	30.22	12.72
111	2008	6	1645	40.95	79.9	3.491	334.7	33.49	12.71
111	2008	6	1700	40.91	80.2	2.228	330.4	33.46	12.7
111	2008	6	1715	40.92	80.4	2.868	299.5	30.8	12.69
111	2008	6	1730	41.02	80.7	2.822	330.3	33.65	12.68
111	2008	6	1745	40.89	81.5	3.052	343.2	22.85	12.67
111	2008	6	1800	40.72	82.3	2.969	338.7	31.42	12.67
111	2008	6	1815	40.6	82.9	2.596	340	25.06	12.67
111	2008	6	1830	40.49	83.4	2.282	348.7	24.61	12.65
111	2008	6	1845	40.46	83.7	1.859	344.4	22.59	12.65
111	2008	6	1900	40.48	84	1.893	342.2	23.56	12.64
111	2008	6	1915	40.47	84.2	2.265	353.2	27.74	12.63
111	2008	6	1930	40.62	84	2.588	347.3	26.98	12.63
111	2008	6	1945	40.78	83.8	2.33	353.8	26.58	12.62
111	2008	6	2000	41.03	83.1	3.233	0.254	19.59	12.61
111	2008	6	2015	41.37	82.5	3.181	344.1	25.24	12.61
111	2008	6	2030	41.47	82.6	2.806	339.7	28.73	12.6
111	2008	6	2045	41.17	83.4	2.961	358.2	22.87	12.59
111	2008	6	2100	41.04	84	1.639	318.2	24.19	12.59
111	2008	6	2115	40.84	84.9	2.058	13.05	23.98	12.58
111	2008	6	2130	40.89	85.1	2.135	17.59	14.4	12.57
111	2008	6	2145	41	85.5	1.244	18.82	22.54	12.57
111	2008	6	2200	41.14	85.6	0.495	18.7	11.86	12.55
111	2008	6	2215	41.06	85.6	0.054	272.2	4.953	12.55
111	2008	6	2230	40.81	86.2	0.147	127.7	7.45	12.55
111	2008	6	2245	40.92	86.1	0.336	168.2	9.19	12.54
111	2008	6	2300	40.78	86.2	0.158	164.5	4.961	12.53
111	2008	6	2315	40.8	86.3	0.367	175.1	30.42	12.52
111	2008	6	2330	40.82	86.3	0.109	303	12.42	12.52
111	2008	6	2345	40.67	86.4	0.321	277	21.28	12.5
111	2008	6	2400	40.68	86.7	1.062	275.8	28.4	12.5
111	2008	7	15	40.6	87	0.917	278.7	14.42	12.5
111	2008	7	30	40.19	87.5	1.559	264.6	19.72	12.49

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	7	45	39.71	87.9	0.223	285.6	10.64	12.49
111	2008	7	100	39.61	88.4	na	na	na	12.48
111	2008	7	115	39.56	88.6	0.088	227.8	4.838	12.47
111	2008	7	130	39.53	89.1	0.266	351.8	3.438	12.47
111	2008	7	145	39.66	89.1	na	na	na	12.46
111	2008	7	200	39.81	89.5	0.792	240.3	13.28	12.45
111	2008	7	215	39.95	89.2	0.065	307.7	11.21	12.45
111	2008	7	230	39.5	89.6	0.058	299.4	6.707	12.45
111	2008	7	245	39.19	89.7	0.288	274.5	9.18	12.44
111	2008	7	300	38.7	89.8	0.408	231.6	34.2	12.44
111	2008	7	315	38.33	89.9	0.277	221.8	1.533	12.43
111	2008	7	330	37.33	90.3	na	na	na	12.43
111	2008	7	345	36.65	90.3	na	na	na	12.42
111	2008	7	400	36.24	91	0.309	191.6	7.05	12.41
111	2008	7	415	35.92	91	na	na	na	12.41
111	2008	7	430	35.4	91.8	0.076	4.072	22.44	12.4
111	2008	7	445	35.39	91.7	na	na	na	12.4
111	2008	7	500	35.54	91.9	na	na	na	12.4
111	2008	7	515	36.11	92.7	0.098	141.1	4.928	12.4
111	2008	7	530	37.21	92.4	0.183	252.3	30.98	12.39
111	2008	7	545	37.26	92.6	0.278	243.7	5.275	12.4
111	2008	7	600	37.61	92.7	0.592	201.4	6.257	12.4
111	2008	7	615	37.9	92.6	0.027	192.4	1.312	12.39
111	2008	7	630	37.84	92.9	na	na	na	12.39
111	2008	7	645	38.15	93	0.018	18.91	0.144	12.39
111	2008	7	700	38.21	93.4	0.018	83	0.517	12.39
111	2008	7	715	38.75	93.4	0.384	182.8	18.91	12.39
111	2008	7	730	39.22	93.3	0.637	57.84	13.36	12.39
111	2008	7	745	39.43	93.3	1.68	256.7	62.37	12.39
111	2008	7	800	39.92	93.1	0.596	346.8	49.52	12.39
111	2008	7	815	40.21	93.3	0.11	23.66	8.35	12.39
111	2008	7	830	40.59	93.3	0.875	258.1	20.7	12.39
111	2008	7	845	40.78	93.2	0.71	320.2	26.98	12.39
111	2008	7	900	40.93	93.4	1.172	296.4	32.78	12.39
111	2008	7	915	41.29	93.3	0.2	298.8	16.2	12.39
111	2008	7	930	41.66	93.6	1.115	307	25.04	12.4
111	2008	7	945	42.94	92.8	2.933	341.5	23.31	12.69
111	2008	7	1000	44.18	90	3.92	352.2	28.56	12.96
111	2008	7	1015	44.78	87.2	4.115	343.6	20.62	13.04
111	2008	7	1030	44.94	86.3	2.688	324.6	42.73	13.06
111	2008	7	1045	44.89	85.5	2.595	329.5	22.64	13.04
111	2008	7	1100	45.47	83.6	2.941	346.4	23.57	13.15
111	2008	7	1115	46.53	80.8	2.965	319.9	33.13	13.13
111	2008	7	1130	47.11	79.1	3.44	325.9	24.23	13.14
111	2008	7	1145	47.13	78.2	4.039	343.5	25	13.14
111	2008	7	1200	47.14	78.3	4.669	333.2	28.08	13.6
111	2008	7	1215	47.24	77.5	3.853	324.7	25.36	13.22
111	2008	7	1230	47.25	76.9	4.218	344.1	28.49	13.1
111	2008	7	1245	47.58	76.8	3.265	337.6	27.76	13.09
111	2008	7	1300	47.97	75.9	4.035	340.7	28.84	13.08
111	2008	7	1315	48.31	74.8	3.759	328.1	27.53	13.27
111	2008	7	1330	48.58	74.5	4.619	327	24.65	13.4
111	2008	7	1345	48.59	74.3	4.54	337.3	22.93	13.58
111	2008	7	1400	49.45	72.3	5.125	348.6	27.68	13.56
111	2008	7	1415	51.19	71	5.677	354.6	25.11	13.56
111	2008	7	1430	50.88	70.1	5.06	347.4	28.09	13.56
111	2008	7	1445	51.03	68.94	5.056	334.5	30.07	13.54
111	2008	7	1500	52.16	67.27	4.482	330.3	28.67	13.53
111	2008	7	1515	51.53	69.37	5.334	343.1	26.84	13.53
111	2008	7	1530	51.15	70.6	5.3	337.8	24.47	13.53

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	7	1545	51.42	70.7	5.141	340	29.12	13.12
111	2008	7	1600	51.71	70.7	4.996	342.7	27.09	13.11
111	2008	7	1615	51.86	71.4	4.75	344.8	28.05	13.33
111	2008	7	1630	51.36	73	5.395	338.4	21.94	13.09
111	2008	7	1645	50.15	75.6	5.294	345.3	20.63	12.95
111	2008	7	1700	49.47	76.2	3.906	335.2	31.3	12.87
111	2008	7	1715	48.63	78.1	3.688	313.9	23.18	12.81
111	2008	7	1730	47.52	81.1	3.849	328.2	21.94	12.79
111	2008	7	1745	46.26	83.3	3.457	332.7	23.27	12.77
111	2008	7	1800	45.44	85	2.993	333	28.9	12.75
111	2008	7	1815	44.83	86.4	2.78	337.4	30.98	12.74
111	2008	7	1830	44.39	87.3	2.405	329.6	25.65	12.72
111	2008	7	1845	43.99	88	1.726	325	26.89	12.71
111	2008	7	1900	43.66	88.7	1.02	316.2	23.65	12.7
111	2008	7	1915	43.67	89.3	1.708	330.8	24.21	12.69
111	2008	7	1930	43.74	89.5	1.163	335.5	14.54	12.68
111	2008	7	1945	43.56	89.9	1.787	24.44	25.6	12.67
111	2008	7	2000	43.63	90	1.438	356.1	14.65	12.67
111	2008	7	2015	43.63	90	0.798	336.3	33.23	12.66
111	2008	7	2030	43.52	90.2	0.253	315.3	4.613	12.65
111	2008	7	2045	43.16	90.4	0.453	330.5	8.89	12.65
111	2008	7	2100	42.8	90.5	0.287	329.2	14.98	12.63
111	2008	7	2115	42.67	91	0.027	291.3	0.95	12.63
111	2008	7	2130	42.57	90.8	0.122	276.7	5.349	12.63
111	2008	7	2145	41.89	91	0.519	279.2	20.67	12.63
111	2008	7	2200	41.23	91.3	0.16	312.3	11.65	12.62
111	2008	7	2215	41.01	91.3	0.073	307.1	12.89	12.61
111	2008	7	2230	40.4	91.6	na	na	na	12.61
111	2008	7	2245	40.31	91.9	0.083	49.21	23.05	12.61
111	2008	7	2300	40.19	92.4	0.031	133.4	3.333	12.59
111	2008	7	2315	40.29	92.1	0.102	165.2	13.21	12.59
111	2008	7	2330	39.79	92.3	0.105	80.5	5.206	12.59
111	2008	7	2345	39	92.3	0.091	313.9	1.922	12.58
111	2008	7	2400	38.6	92.9	na	na	na	12.57
111	2008	8	15	38.93	92.9	0.029	151.9	1.688	12.57
111	2008	8	30	38.94	92.6	0.049	292.3	20.79	12.57
111	2008	8	45	38.34	93	0.009	111.5	0.006	12.56
111	2008	8	100	38.41	92.8	0.033	252.6	3.466	12.56
111	2008	8	115	38.07	93.3	0.036	131.1	1.418	12.56
111	2008	8	130	38.23	92.8	na	na	na	12.55
111	2008	8	145	38.84	94.8	1.38	329.3	20.27	12.55
111	2008	8	200	42.33	94	2.856	342.9	18.39	12.54
111	2008	8	215	43.68	92.8	3.019	349.3	25.31	12.55
111	2008	8	230	44.11	91.9	2.945	353.1	21.34	12.54
111	2008	8	245	44.32	90.5	4.252	3.051	21.27	12.55
111	2008	8	300	44.41	90.5	3.487	355.8	22	12.55
111	2008	8	315	44.62	90.2	3.418	12.57	23.08	12.55
111	2008	8	330	44.55	89.8	2.639	10.62	20.33	12.54
111	2008	8	345	44.3	90.1	2.006	24.47	16.25	12.54
111	2008	8	400	43.88	89.7	0.366	35.56	9.93	12.54
111	2008	8	415	42.68	89.9	0.065	265	1.188	12.53
111	2008	8	430	41.67	90.2	0.156	302.1	1.916	12.53
111	2008	8	445	42.39	91.8	2.469	344.4	18.78	12.52
111	2008	8	500	43.79	91.4	3.062	350.1	25.48	12.52
111	2008	8	515	44.2	90.9	2.965	343.8	28.92	12.52
111	2008	8	530	43.85	91	1.977	343.3	19.65	12.52
111	2008	8	545	43.67	91.2	1.91	344.2	22.74	12.52
111	2008	8	600	43.63	91.7	2.782	334.1	26.76	12.51
111	2008	8	615	43.73	91.4	2.737	355.2	21.14	12.51
111	2008	8	630	43.83	91.4	3.324	348	26.28	12.51

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	8	645	43.83	91.3	3.569	357.4	18.13	12.5
111	2008	8	700	44.04	91	3.565	350.7	24.72	12.5
111	2008	8	715	44.23	90.8	2.911	357.6	20.49	12.5
111	2008	8	730	44.34	90.4	2.381	2.097	18.89	12.49
111	2008	8	745	44.13	90.2	2.423	348.1	21.96	12.49
111	2008	8	800	43.64	90.8	2.534	342.9	22.98	12.48
111	2008	8	815	43.4	91.1	3.021	336.9	19.96	12.48
111	2008	8	830	43.3	91.4	2.921	335.8	22.15	12.48
111	2008	8	845	43.27	91.7	2.058	336.5	24.89	12.48
111	2008	8	900	43.54	91.7	1.435	338	25.07	12.75
111	2008	8	915	44.14	91.4	2.006	339.8	25.11	13.14
111	2008	8	930	44.95	90.2	3.803	334.1	22.95	13.68
111	2008	8	945	45.6	88.8	3.342	343.3	24.43	13.67
111	2008	8	1000	46.58	87	2.943	339.5	27.14	13.65
111	2008	8	1015	47.11	86.4	4.311	1.656	21.73	13.64
111	2008	8	1030	47.92	84.8	4.758	345.7	17.41	13.37
111	2008	8	1045	49.24	81.9	5.806	346.6	23	13.61
111	2008	8	1100	50.15	81.2	5.856	352.2	23.06	13.6
111	2008	8	1115	51.37	78.4	4.694	347.4	28.01	13.58
111	2008	8	1130	51.2	79.9	5.965	348.6	22.66	13.57
111	2008	8	1145	50.69	79.3	6.124	340.4	26.24	13.55
111	2008	8	1200	50.34	80.6	6.154	334.2	26.64	13.54
111	2008	8	1215	50.22	80.2	5.381	339.6	33.31	13.55
111	2008	8	1230	50.38	79.3	5.814	343.1	29.66	13.54
111	2008	8	1245	50.56	80.2	7.41	358.1	20.97	13.53
111	2008	8	1300	51.1	77	6.247	353.8	25.01	13.52
111	2008	8	1315	50.32	80.6	5.763	331.1	23.15	13.52
111	2008	8	1330	50.39	79.2	5.475	336	29.07	13.53
111	2008	8	1345	50.07	80.1	5.882	335.5	25.14	13.53
111	2008	8	1400	50.17	80.4	5.868	331.9	26.69	13.53
111	2008	8	1415	50.57	79.2	5.197	326.4	25.2	13.53
111	2008	8	1430	50.84	78.8	4.498	331.6	29.9	13.53
111	2008	8	1445	50.83	79.6	5.012	332.4	24.7	13.54
111	2008	8	1500	50.71	80	5.348	339.4	30.14	13.53
111	2008	8	1515	51.07	80.1	6.015	338	28.16	13.54
111	2008	8	1530	50.67	80.7	6.154	335	27.48	13.54
111	2008	8	1545	50.79	81.2	5.548	344.3	26.99	13.26
111	2008	8	1600	50.42	81.9	5.818	343.7	24.97	13.26
111	2008	8	1615	49.82	83.7	6.549	351.9	25.11	13.16
111	2008	8	1630	49.59	84.5	6.251	359.3	24.12	13.01
111	2008	8	1645	49.67	85.1	5.783	356.4	22.28	12.93
111	2008	8	1700	49.57	85.5	5.687	355.1	21.61	12.86
111	2008	8	1715	49.28	85.7	4.784	346.5	24.31	12.81
111	2008	8	1730	48.77	86.8	5.935	348.9	21.61	12.79
111	2008	8	1745	48.31	87.4	5.008	350	26.74	12.77
111	2008	8	1800	47.85	88.2	4.019	354.8	25.26	12.74
111	2008	8	1815	47.35	89	4.089	345.1	29.21	12.74
111	2008	8	1830	47.02	89.8	5.117	336.6	22.21	12.73
111	2008	8	1845	46.82	90.2	5.389	333.9	20.76	12.72
111	2008	8	1900	46.5	90.9	4.754	331.6	26.93	12.71
111	2008	8	1915	46.28	91.2	4.522	350.9	27.59	12.7
111	2008	8	1930	46.11	91.1	3.958	352	20.81	12.69
111	2008	8	1945	46.13	91.3	4.41	358.5	19.47	12.69
111	2008	8	2000	46.37	91	4.903	355.7	25.58	12.68
111	2008	8	2015	46.75	90.4	4.959	356.7	22.33	12.68
111	2008	8	2030	46.8	90.4	5.427	346.6	20.2	12.67
111	2008	8	2045	46.66	90.9	5.336	347.8	23.33	12.67
111	2008	8	2100	46.59	91.3	4.998	350.2	19.7	12.66
111	2008	8	2115	46.81	91.3	5.647	350.8	26.39	12.65
111	2008	8	2130	47.21	91.2	5.598	347.7	26.8	12.66

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	8	2145	47.46	91	5.342	346.3	26.87	12.65
111	2008	8	2200	47.64	90.9	6.795	343.1	25.75	12.65
111	2008	8	2215	48.03	90.7	6.845	343.5	23.34	12.65
111	2008	8	2230	48.32	90.2	6.781	342.6	29.63	12.65
111	2008	8	2245	48.45	90.3	6.366	344.6	29.79	12.64
111	2008	8	2300	48.25	90.6	6.279	341.9	28.13	12.64
111	2008	8	2315	48.04	90.5	6.392	342	24.81	12.64
111	2008	8	2330	48.02	90.6	6.763	338.3	25.92	12.64
111	2008	8	2345	48.04	90.6	6.354	337.8	20.95	12.63
111	2008	8	2400	47.97	90.8	6.587	339.2	29.67	12.63
111	2008	9	15	48.04	90.5	7.44	344.6	25.72	12.63
111	2008	9	30	48.04	90.3	5.536	339.8	28.62	12.63
111	2008	9	45	48.23	89.7	6.652	339.9	26.58	12.62
111	2008	9	100	48.4	89.3	6.944	342.9	25.51	12.62
111	2008	9	115	48.44	89.3	7.43	342.8	25.79	12.62
111	2008	9	130	48.54	89.2	7.66	344.6	29.11	12.62
111	2008	9	145	48.71	89	6.747	347.4	28.72	12.61
111	2008	9	200	48.73	89.1	7.03	338.9	25.11	12.61
111	2008	9	215	48.61	89.7	8.2	338	24.68	12.6
111	2008	9	230	48.71	89.8	9.29	338.4	23.74	12.61
111	2008	9	245	48.5	90.7	8.04	337.1	23.63	12.6
111	2008	9	300	48.45	91.4	7.67	340.2	30.45	12.6
111	2008	9	315	48.49	91.8	7.7	345	24.36	12.6
111	2008	9	330	48.52	92	7.47	336.1	31.78	12.6
111	2008	9	345	48.72	92.3	8.04	344.3	24.02	12.59
111	2008	9	400	48.92	92.6	8.75	342.6	24.97	12.58
111	2008	9	415	49.14	92.6	9.44	339.3	24.82	12.58
111	2008	9	430	49.25	92.6	9.14	336.9	27.36	12.59
111	2008	9	445	49.18	92.8	9.41	333	24.04	12.59
111	2008	9	500	49.07	93.2	8.14	334.5	28.25	12.57
111	2008	9	515	48.93	93.8	8.42	336.8	23.31	12.58
111	2008	9	530	48.45	94.5	8.19	339.4	32.54	12.57
111	2008	9	545	48.19	94.8	7.64	336.3	24.61	12.57
111	2008	9	600	48.14	95	7.73	335.5	30.24	12.57
111	2008	9	615	48.04	95.3	7.61	331	31.46	12.57
111	2008	9	630	47.88	95.3	6.65	331.1	26.87	12.56
111	2008	9	645	47.77	95.4	7.76	328.3	21.22	12.56
111	2008	9	700	47.5	95.6	6.89	326.2	31.13	12.55
111	2008	9	715	47.69	95.8	8.48	339.8	28.5	12.54
111	2008	9	730	48.02	95.8	7.62	332.8	33.05	12.55
111	2008	9	745	48.29	96	8.2	331.7	37.53	12.54
111	2008	9	800	48.45	96	9.02	335.1	23.2	12.54
111	2008	9	815	48.22	96	9.08	334.8	23.92	12.53
111	2008	9	830	48.25	96	8.08	329	23.23	12.53
111	2008	9	845	48.47	96.2	8.12	332.2	27.5	12.52
111	2008	9	900	48.58	96.1	9.01	331.8	28.08	12.52
111	2008	9	915	48.62	96.2	7.96	338.6	24.54	12.52
111	2008	9	930	48.78	96.3	8.43	330.8	28.44	12.52
111	2008	9	945	49	96.3	8.55	342.2	26.46	12.51
111	2008	9	1000	49.1	96.3	9.61	347	29.11	12.52
111	2008	9	1015	49.07	96.4	10.15	347.8	26.66	12.51
111	2008	9	1030	48.86	96.3	10.86	346.5	28.34	12.5
111	2008	9	1045	48.71	96.3	10.12	341.4	25.14	12.5
111	2008	9	1100	48.74	96.2	10.93	340.5	30.53	12.5
111	2008	9	1115	48.71	96.4	10.93	335.7	26.15	12.5
111	2008	9	1130	48.5	96.3	10.28	340.3	30.77	12.5
111	2008	9	1145	48.21	96.2	11.43	333.7	26.83	12.55
111	2008	9	1200	48.04	96.2	10.07	341	24.79	12.57
111	2008	9	1215	48.08	96.2	10.28	332	28.41	12.88
111	2008	9	1230	47.98	96.1	8.76	341.7	22.62	12.87

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	9	1245	48.27	96.3	9.9	340.6	31.01	12.89
111	2008	9	1300	48.5	96.2	8.32	346.9	22.06	13
111	2008	9	1315	48.66	96	8.26	355.7	22.33	13.19
111	2008	9	1330	48.46	95.8	9.13	346.5	24.56	13.13
111	2008	9	1345	48.09	95.6	7.91	341.1	21.6	13.18
111	2008	9	1400	48.82	94.7	8.36	357.8	23.58	13.11
111	2008	9	1415	49.5	93.2	6.579	351.7	29.16	13.14
111	2008	9	1430	54.34	42.94	8.08	8.21	33.12	13.54
111	2008	9	1445	62.55	37.95	14.79	18.88	22.87	13.51
111	2008	9	1500	63.12	30.62	13.8	32.76	20.64	13.48
111	2008	9	1515	62.44	32.92	16.47	30.09	20.51	13.46
111	2008	9	1530	62.02	31.68	14.44	28.56	18.54	13.46
111	2008	9	1545	61.13	30.58	13.97	32.79	19.92	13.13
111	2008	9	1600	60.07	33.15	12.4	39.44	17.22	13.13
111	2008	9	1615	59.99	34.53	9.42	40.46	18.99	13.2
111	2008	9	1630	59.73	29.94	10.62	42.54	18.66	13.07
111	2008	9	1645	58.97	29.04	10.49	39.6	19.86	12.9
111	2008	9	1700	58.23	26.2	12.27	35.44	20.07	12.84
111	2008	9	1715	57.68	27.23	10.42	32.57	19.04	12.81
111	2008	9	1730	57.1	29.61	8.99	27.08	15.56	12.79
111	2008	9	1745	56.49	30.31	8.29	32.1	15.88	12.77
111	2008	9	1800	55.92	31.42	7.98	31.34	21.84	12.76
111	2008	9	1815	55.15	29.75	8.08	18.81	17.82	12.75
111	2008	9	1830	54.88	29.12	10.93	27.82	15.67	12.73
111	2008	9	1845	54.5	30.22	9.88	29.48	15.27	12.73
111	2008	9	1900	54.12	28.88	12.95	28.95	17.53	12.72
111	2008	9	1915	53.68	30.46	10.38	34.38	17.97	12.71
111	2008	9	1930	53.14	32.36	7.58	33.03	18.73	12.7
111	2008	9	1945	52.3	35.04	4.357	33.54	17.52	12.69
111	2008	9	2000	51.34	36.48	5.03	18.72	18.24	12.68
111	2008	9	2015	51.17	37.15	7.44	29.19	14.37	12.68
111	2008	9	2030	51.04	39.8	7.37	29.57	16.21	12.67
111	2008	9	2045	50.64	38.76	6.197	34.49	19.87	12.66
111	2008	9	2100	50.72	38.53	7.42	36.09	17.36	12.65
111	2008	9	2115	50.35	40.47	5.927	23.37	18.11	12.65
111	2008	9	2130	50.07	40.47	6.132	24.1	16.09	12.64
111	2008	9	2145	50	37.83	7.43	28.91	18.18	12.64
111	2008	9	2200	49.97	38.16	6.879	28.39	13.96	12.63
111	2008	9	2215	49.5	39.24	6.718	25.04	13.89	12.62
111	2008	9	2230	48.98	39.34	5.679	20.43	16.68	12.61
111	2008	9	2245	48.58	39.67	5.497	14.72	16.1	12.61
111	2008	9	2300	48.27	40.71	5.705	21.64	18.06	12.6
111	2008	9	2315	48.18	40.24	5.461	18.63	14	12.59
111	2008	9	2330	47.71	40.91	4.927	19.28	21.7	12.58
111	2008	9	2345	46.91	44.73	3.07	344.8	20.77	12.57
111	2008	9	2400	45.41	47.54	3.9	12.61	13.47	12.57
111	2008	10	15	45.42	47.44	3.787	23.94	15	12.56
111	2008	10	30	44.92	47.41	2.766	3.959	24.06	12.55
111	2008	10	45	44.2	46.74	2.338	25.9	17.43	12.55
111	2008	10	100	44.64	46.18	3.849	34.88	11.55	12.53
111	2008	10	115	44.36	48.32	3.43	28	15.02	12.52
111	2008	10	130	42.81	49.33	3.61	17.41	10.83	12.51
111	2008	10	145	43.34	47.15	3.866	22.21	13.51	12.51
111	2008	10	200	43.4	44.78	3.444	16.26	20.4	12.5
111	2008	10	215	43.61	45.11	3.489	24.37	13.69	12.49
111	2008	10	230	43.38	41.96	4.011	28.26	14.69	12.49
111	2008	10	245	44.1	38.38	5.596	29.59	17.34	12.48
111	2008	10	300	43.91	39.65	4.563	30.46	15.01	12.47
111	2008	10	315	43.75	37.04	5.79	32.43	15.29	12.47
111	2008	10	330	43.63	37.81	4.941	36.41	16.95	12.46

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	10	345	43.43	37.84	5.804	33.38	17.46	12.46
111	2008	10	400	43.19	38.31	5.193	29.7	17.05	12.45
111	2008	10	415	42.81	38.68	5.127	29.43	13.4	12.45
111	2008	10	430	42.65	37.64	6.557	37.18	19.14	12.45
111	2008	10	445	42.85	35.97	8.15	37.31	17.17	12.45
111	2008	10	500	42.71	36.7	8.11	42.36	17.14	12.44
111	2008	10	515	42.36	37.78	7.48	43.66	13.05	12.44
111	2008	10	530	41.88	38.71	6.047	44.43	16.72	12.43
111	2008	10	545	41.6	40.02	6.505	41.21	19.58	12.44
111	2008	10	600	41.58	41.49	8.26	42.73	18.62	12.43
111	2008	10	615	41.25	42.53	6.722	54.48	16.74	12.43
111	2008	10	630	40.82	43.2	5.352	56.07	18.71	12.43
111	2008	10	645	40.32	44.17	2.741	54.53	23.4	12.42
111	2008	10	700	39.78	45.55	3.396	54.44	18.7	12.42
111	2008	10	715	39.69	46.12	4.365	62.36	18.3	12.41
111	2008	10	730	39.42	49.03	3.549	37.72	29.84	12.41
111	2008	10	745	38.62	49.34	3.152	50.21	26.35	12.41
111	2008	10	800	38.34	50.98	2.969	58.88	22.01	12.4
111	2008	10	815	37.79	52.56	3.535	358.3	17.42	12.4
111	2008	10	830	37.17	54.5	2.187	0.307	22.08	12.4
111	2008	10	845	37.05	55.58	1.748	19.59	16.56	12.4
111	2008	10	900	37.43	54.04	0.287	335.1	25.11	12.98
111	2008	10	915	38.33	54.27	1.72	292.8	25.19	13.33
111	2008	10	930	38.25	53.37	1.606	11.1	25.18	13.84
111	2008	10	945	39.19	51.52	3.092	18.04	23.64	13.81
111	2008	10	1000	40.13	50.14	4.129	30.29	17.73	13.81
111	2008	10	1015	40.73	50.07	4.182	38.52	16.37	13.79
111	2008	10	1030	41.33	48.39	5.221	58.08	19.13	13.78
111	2008	10	1045	41.94	47.92	5.935	53.67	26.08	13.74
111	2008	10	1100	42.63	47.02	4.893	70.4	24.99	13.73
111	2008	10	1115	43.42	46.14	5.35	62.89	23.91	13.71
111	2008	10	1130	43.62	46.3	4.921	79.9	23.97	13.7
111	2008	10	1145	43.97	45.33	5.264	80.2	24.04	13.7
111	2008	10	1200	44.16	44.56	4.297	81.4	33.37	13.69
111	2008	10	1215	44.34	44.29	4.327	54.36	27.33	13.69
111	2008	10	1230	44.79	42.75	3.551	44.86	30.95	13.68
111	2008	10	1245	45.34	41.71	3.592	48.28	31.95	13.67
111	2008	10	1300	45.67	41.68	4.297	14.15	26.28	13.64
111	2008	10	1315	46.15	40.24	4.22	27.82	29.98	13.64
111	2008	10	1330	46.54	38.62	5.6	28.14	24.68	13.62
111	2008	10	1345	47.02	37.75	4.587	38.74	27.98	13.62
111	2008	10	1400	47.28	35.17	5.199	26.47	30.05	13.62
111	2008	10	1415	47.95	34.17	4.198	59.42	28.77	13.61
111	2008	10	1430	48.51	33.94	3.769	65.58	29.83	13.61
111	2008	10	1445	48.93	34.87	3.698	62.7	37.32	13.6
111	2008	10	1500	49.04	32.8	3.545	60.26	48.9	13.59
111	2008	10	1515	49.6	33.63	3.438	59.22	33.25	13.59
111	2008	10	1530	49.61	31.63	4.049	61.86	38.97	13.58
111	2008	10	1545	49.61	32.43	3.463	69.21	40.06	13.39
111	2008	10	1600	49.15	31.73	3.378	58.13	34.24	13.11
111	2008	10	1615	48.77	31.69	3.457	59.14	23.08	13
111	2008	10	1630	48.76	33.84	1.413	140.6	40.94	12.91
111	2008	10	1645	48.41	33.9	1.549	146.8	18.92	12.85
111	2008	10	1700	47.86	51.05	1.677	257.1	89.5	12.81
111	2008	10	1715	45.74	59.49	2.526	302.8	18.13	12.78
111	2008	10	1730	44.74	62.6	1.855	323.1	23.66	12.76
111	2008	10	1745	44.17	64.88	1.537	336.4	17.82	12.74
111	2008	10	1800	43.49	67.09	0.378	306.2	10.17	12.73
111	2008	10	1815	42.93	69.27	0.694	302.9	17.64	12.72
111	2008	10	1830	42.82	69.48	0.212	236.7	17.74	12.71

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	10	1845	42.61	70.6	0.994	296.4	30.77	12.69
111	2008	10	1900	42.2	72.4	0.655	257.2	30.65	12.69
111	2008	10	1915	42.07	74.2	1.093	270.6	24.34	12.68
111	2008	10	1930	41.78	76.7	1.124	227.4	35.83	12.67
111	2008	10	1945	41.4	78.2	1.77	264.1	19.64	12.67
111	2008	10	2000	41.34	79.4	1.674	216.5	46.27	12.65
111	2008	10	2015	41.16	79.5	0.276	290.9	8.11	12.65
111	2008	10	2030	41.11	80.6	0.811	274.9	22.08	12.65
111	2008	10	2045	41.38	81.5	1.841	237.7	47.26	12.64
111	2008	10	2100	41.37	82.1	1.425	264.2	78.9	12.64
111	2008	10	2115	41.3	82.6	0.813	340	51.3	12.63
111	2008	10	2130	41.35	82.6	1.07	302.8	31.83	12.63
111	2008	10	2145	41.42	82.9	1.232	242.4	26.51	12.63
111	2008	10	2200	41.6	83.1	2.185	225.6	24.92	12.62
111	2008	10	2215	41.47	83.8	1.481	323.5	58.21	12.63
111	2008	10	2230	41.37	84.3	1.838	307.9	23.22	12.61
111	2008	10	2245	41.42	85.1	1.592	239.9	26.39	12.61
111	2008	10	2300	41.44	85.5	2.336	267.2	19.53	12.61
111	2008	10	2315	41.13	85.9	2.167	267.4	21.4	12.61
111	2008	10	2330	41.06	85.7	2.53	251.3	26.51	12.6
111	2008	10	2345	41.03	85.7	2.759	261.5	22.44	12.6
111	2008	10	2400	41.05	84.3	2.917	259.9	28.47	12.59
111	2008	11	15	40.93	84.7	3.086	261.3	24.72	12.58
111	2008	11	30	40.91	86.1	3.203	265	23.81	12.58
111	2008	11	45	40.84	86.9	3.434	260.6	31.79	12.58
111	2008	11	100	40.76	86.1	5.163	255.9	25.73	12.57
111	2008	11	115	39.94	82.7	3.076	283.1	32.96	12.57
111	2008	11	130	39.91	81.4	2.637	253.9	21.51	12.56
111	2008	11	145	40.3	82.1	2.967	252	20.13	12.56
111	2008	11	200	40.51	83.4	3.733	258.6	20.99	12.55
111	2008	11	215	40.67	84.7	4.246	238.8	23.13	12.55
111	2008	11	230	40.47	86.1	3.696	232.1	19.08	12.54
111	2008	11	245	40.47	86.5	3.471	216.3	28.96	12.54
111	2008	11	300	40.55	85.7	3.493	188	21.36	12.53
111	2008	11	315	40.59	83.8	4.76	198.9	16.65	12.52
111	2008	11	330	40.62	85.6	5.101	205.1	16.39	12.52
111	2008	11	345	40.58	83.5	5.056	204	16.37	12.51
111	2008	11	400	40.62	81.1	6.287	209.8	16.27	12.51
111	2008	11	415	40.51	84.1	5.949	199.5	30.13	12.5
111	2008	11	430	40.33	85.3	5.024	211.7	36.3	12.49
111	2008	11	445	40.47	86.8	5.483	217.1	16.89	12.49
111	2008	11	500	40.9	87.2	5.808	202.4	21.07	12.48
111	2008	11	515	41.14	87.6	5.27	204.6	16.68	12.48
111	2008	11	530	41.82	86.5	6.096	214.1	17.37	12.47
111	2008	11	545	42.54	85.6	7.29	214.9	16.07	12.47
111	2008	11	600	42.96	85	5.663	221.2	21.79	12.47
111	2008	11	615	43.17	85.3	4.192	207	24.85	12.46
111	2008	11	630	43.12	86.1	4.643	208.1	17.18	12.45
111	2008	11	645	43.26	86.9	3.531	190.9	31.26	12.45
111	2008	11	700	43.49	87.5	2.647	111.5	45.89	12.45
111	2008	11	715	43.86	88.2	3.088	197.1	36	12.45
111	2008	11	730	44.47	92.6	3.7	236.2	57.77	12.45
111	2008	11	745	46	93.2	4.784	55	52.35	12.45
111	2008	11	800	46.98	92.1	4.454	335.5	45.69	12.45
111	2008	11	815	47.48	92.1	5.755	307.5	58.8	12.45
111	2008	11	830	47.52	92.6	4.129	332.7	86.1	12.45
111	2008	11	845	47.63	93	3.694	283.2	68.68	12.44
111	2008	11	900	47.93	93.6	6.003	281.5	31.73	12.45
111	2008	11	915	48.39	94.4	6.966	294.7	37.67	12.44
111	2008	11	930	48.81	94.7	6.855	294.3	39.44	12.45

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	11	945	49.71	95.6	8.24	301.6	28.48	12.45
111	2008	11	1000	51.74	95.4	8.05	314.3	28.31	12.45
111	2008	11	1015	51.77	95.5	8.3	317.9	29.76	12.46
111	2008	11	1030	51.78	95.4	7.8	315	32.83	12.46
111	2008	11	1045	51.67	95.5	8.12	317.1	25.39	12.47
111	2008	11	1100	51.44	95.7	6.473	316.5	30.87	12.46
111	2008	11	1115	51.42	95.8	6.759	323.9	24.66	12.46
111	2008	11	1130	51.11	95.9	5.286	325.3	26.71	12.48
111	2008	11	1145	51.2	95.9	5.53	324.3	31.06	12.47
111	2008	11	1200	51.42	96.1	5.939	323.4	30.36	12.49
111	2008	11	1215	51.04	96	6.982	313.1	26.25	12.52
111	2008	11	1230	50.84	96.2	6.886	319.4	28.84	12.54
111	2008	11	1245	50.95	96.2	7.68	318.8	32.73	12.5
111	2008	11	1300	51.35	96.3	7.23	323.6	26.18	12.49
111	2008	11	1315	51.78	96.4	7.06	332.5	26.9	12.49
111	2008	11	1330	52.13	96.4	6.656	339.5	26.59	12.49
111	2008	11	1345	51.89	96.4	7.28	347.6	25.31	12.48
111	2008	11	1400	51.26	96.4	7.11	341.3	28.69	12.47
111	2008	11	1415	51.13	96.5	6.354	343.2	24.74	12.47
111	2008	11	1430	51.13	96.5	7.23	327	25.84	12.47
111	2008	11	1445	50.98	96.4	6.317	326.7	24.83	12.47
111	2008	11	1500	50.77	96.4	6.549	329.1	31.23	12.47
111	2008	11	1515	51.03	96.3	8.18	320.7	25.63	12.46
111	2008	11	1530	51.4	96.2	9.87	334.1	29.3	12.46
111	2008	11	1545	51.47	96	11.42	357.2	32.48	12.46
111	2008	11	1600	51.71	95.4	12.23	2.616	22.27	12.46
111	2008	11	1615	51.46	94.7	12.02	6.47	23.26	12.46
111	2008	11	1630	51.57	94.2	9.99	13.36	20.9	12.46
111	2008	11	1645	51.51	94.1	7.49	20.77	14.34	12.46
111	2008	11	1700	51.86	93.5	5.203	15.47	19.46	12.46
111	2008	11	1715	51.92	93.3	4.315	358.8	19.71	12.45
111	2008	11	1730	51.77	93.2	4.061	356.8	18.74	12.46
111	2008	11	1745	51.23	93	3.011	330.5	24.84	12.45
111	2008	11	1800	50.24	93	2.814	330.7	22.47	12.44
111	2008	11	1815	49.29	92.7	2.618	319.8	23.04	12.45
111	2008	11	1830	48.12	92.9	3.205	311.1	27.16	12.45
111	2008	11	1845	47.45	93	3.374	346.9	20.18	12.44
111	2008	11	1900	47.1	92.9	3.046	328.3	28.5	12.44
111	2008	11	1915	47	92.6	3.013	334.4	22.74	12.43
111	2008	11	1930	46.85	92.5	3.007	336	23.66	12.43
111	2008	11	1945	46.58	92.8	2.044	0.451	31.35	12.42
111	2008	11	2000	46.38	92.6	1.382	18.62	23.82	12.42
111	2008	11	2015	45.98	92.6	1.109	44.9	39.07	12.42
111	2008	11	2030	45.22	92.8	1.448	327.4	35.82	12.42
111	2008	11	2045	44.73	93.1	1.684	8.99	28.4	12.41
111	2008	11	2100	44.32	93.4	1.506	349.4	23.91	12.41
111	2008	11	2115	44.49	93.7	1.701	340.1	24.4	12.4
111	2008	11	2130	45.02	93.7	1.863	324.3	21.7	12.4
111	2008	11	2145	45.01	93.3	1.224	327.1	23.56	12.4
111	2008	11	2200	43.93	93.2	1.161	355	17.43	12.39
111	2008	11	2215	44.12	93.7	2.02	358.6	21.48	12.39
111	2008	11	2230	43.97	93	0.561	46.1	18.73	12.39
111	2008	11	2245	42.6	93.4	0.904	9.66	22.71	12.39
111	2008	11	2300	41.85	93.6	0.794	307.1	24.8	12.39
111	2008	11	2315	41.86	93.7	0.399	74	29.58	12.38
111	2008	11	2330	41.19	93.5	0	0	0	12.38
111	2008	11	2345	40.89	93.8	0.229	309.2	8.24	12.37
111	2008	11	2400	40.43	94.1	0.404	5.371	21.93	12.37
111	2008	12	15	40.12	94.1	0.371	342.6	11.14	12.37
111	2008	12	30	40.62	94.2	0.499	313	10.86	12.37

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	12	45	40.88	94.5	0.794	4.306	13.08	12.37
111	2008	12	100	40.69	94.7	1.412	28.61	19.59	12.37
111	2008	12	115	40.51	94.8	1.177	17.54	12.12	12.36
111	2008	12	130	40.32	94.5	0.704	7.52	18.87	12.36
111	2008	12	145	39.87	94.4	0.103	282	0.038	12.36
111	2008	12	200	39.57	94.8	0.018	109	0.058	12.36
111	2008	12	215	39.73	94.7	0.172	60.5	8.68	12.36
111	2008	12	230	39.2	94.6	1.07	13.63	8.16	12.35
111	2008	12	245	38.84	94.8	1.617	21.02	5.042	12.35
111	2008	12	300	38.96	95	2	24.75	9.6	12.35
111	2008	12	315	39.58	94.8	2.383	30.3	15.37	12.35
111	2008	12	330	40.2	93.2	2.796	36.01	9.74	12.35
111	2008	12	345	41.05	88.6	2.931	34.28	10.41	12.34
111	2008	12	400	41.57	83.4	3.07	37.67	12.96	12.34
111	2008	12	415	41.71	80.9	2.629	47.79	14.6	12.35
111	2008	12	430	41.77	78.5	3.469	47.18	15.39	12.34
111	2008	12	445	42.02	75.3	3.523	37.85	15.74	12.35
111	2008	12	500	42.31	72.7	3.682	38.35	11.13	12.34
111	2008	12	515	42.41	72.1	3.086	53.96	19.35	12.35
111	2008	12	530	42.16	72.5	2.772	37.49	12.18	12.35
111	2008	12	545	41.47	75.4	1.591	22.96	16.15	12.35
111	2008	12	600	40.2	79.3	0.911	26.71	22.59	12.35
111	2008	12	615	38.91	84.2	1	14.41	16.64	12.35
111	2008	12	630	38.51	85.2	1.457	48.51	13.64	12.34
111	2008	12	645	38.03	87.2	0.84	13.38	18.16	12.34
111	2008	12	700	37.71	88.3	1.396	34.1	19.11	12.33
111	2008	12	715	37.86	87.3	1.944	43.59	20.13	12.33
111	2008	12	730	39.18	81.5	2.55	33.09	12.39	12.33
111	2008	12	745	39.04	81.8	1.865	20.78	12	12.33
111	2008	12	800	38.6	82.5	2.117	13.61	12.6	12.33
111	2008	12	815	37.98	84	2.159	24.33	10.69	12.33
111	2008	12	830	38.25	81.9	2.888	37.07	11.1	12.33
111	2008	12	845	39.02	77.5	3.064	51.87	13.7	12.33
111	2008	12	900	39.36	76	2.975	42.36	18.31	12.41
111	2008	12	915	39.49	73.5	3.179	32.96	14.97	12.49
111	2008	12	930	39.98	71.2	3.267	41.39	19.04	12.89
111	2008	12	945	41.09	67.25	4.353	46.82	17.36	13.5
111	2008	12	1000	42.11	64.94	4.037	48.16	19.47	13.66
111	2008	12	1015	43.03	62.59	3.962	52.81	19.23	13.65
111	2008	12	1030	43.85	59.91	3.924	63.65	23.58	12.99
111	2008	12	1045	44.64	54.98	6.092	70.4	23.14	13.63
111	2008	12	1100	45.1	55.31	5.491	74.6	26.05	13.25
111	2008	12	1115	45.73	53.43	6.16	84.5	24.15	13.61
111	2008	12	1130	46.04	52.36	6.414	81.8	19.4	13.59
111	2008	12	1145	46.62	53.23	5.697	91.1	28.24	13.58
111	2008	12	1200	47.39	53.15	5.266	111.7	36.36	13.56
111	2008	12	1215	47.13	53.75	5.779	101.6	38.38	13.56
111	2008	12	1230	47.95	54.08	3.908	109.1	38.71	13.56
111	2008	12	1245	48.14	52.91	4.103	110	39.04	13.54
111	2008	12	1300	48.13	53.18	4.524	85.5	25.78	13.53
111	2008	12	1315	48.96	51.04	3.708	111.2	39.57	13.52
111	2008	12	1330	49.3	51.27	3.898	151	31.38	13.52
111	2008	12	1345	49.12	49.29	4.041	97.5	46.72	13.51
111	2008	12	1400	48.79	45.81	6.843	81.7	28.68	13.51
111	2008	12	1415	49.1	44.77	5.661	85.5	27.18	13.51
111	2008	12	1430	48.84	43.74	6.068	88.8	26.56	13.51
111	2008	12	1445	49.28	42.94	5.276	78.6	37.21	13.51
111	2008	12	1500	48.82	43.04	6.078	79.3	26.47	13.52
111	2008	12	1515	47.97	44.11	5.433	70.3	26.67	13.34
111	2008	12	1530	48.1	45.75	5.647	80.7	27.81	13.54

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	12	1545	47.43	45.52	6.074	66.38	25.19	13.27
111	2008	12	1600	47.15	44.65	5.397	85.1	24.47	13.2
111	2008	12	1615	46.65	46.55	5.403	67.75	17.11	13.08
111	2008	12	1630	46.4	47.26	5.09	71	20.07	13.02
111	2008	12	1645	46.48	48.17	5.27	77.2	24.01	12.94
111	2008	12	1700	45.99	48.31	5.171	70.7	19.77	12.86
111	2008	12	1715	45.6	49.08	5.431	71.5	27.24	12.82
111	2008	12	1730	45.02	50.49	4.919	67.72	19.94	12.8
111	2008	12	1745	44.64	51.76	4.442	70.6	17.66	12.78
111	2008	12	1800	44.35	52.83	3.493	83.2	22.47	12.76
111	2008	12	1815	44.12	54.7	2.294	85.4	21.8	12.74
111	2008	12	1830	43.56	55.38	1.981	81.1	32.37	12.73
111	2008	12	1845	43.16	57.16	1.567	85.8	25.5	12.73
111	2008	12	1900	42.44	59.14	1.304	36.93	15.56	12.71
111	2008	12	1915	41.62	61.92	0.735	56.45	11.35	12.71
111	2008	12	1930	40.58	67.55	0.653	18.46	7.07	12.69
111	2008	12	1945	40.16	65.57	1.654	28.6	12.83	12.67
111	2008	12	2000	40.45	64.13	1.761	73.4	14.9	12.67
111	2008	12	2015	40.68	63.3	1.353	77.6	32.97	12.67
111	2008	12	2030	40.61	63.9	1.203	65.39	15.43	12.66
111	2008	12	2045	40.02	66.58	0.364	68.71	5.134	12.65
111	2008	12	2100	39.08	70.3	0.131	83.5	1.527	12.65
111	2008	12	2115	38.55	70.8	1.326	76.9	4.545	12.64
111	2008	12	2130	37.81	73.7	0.79	58.3	8.45	12.63
111	2008	12	2145	37.08	76.4	0.258	59.83	10.62	12.63
111	2008	12	2200	37.15	76.6	0.369	77.2	7.63	12.62
111	2008	12	2215	37.08	76.6	0.694	76.4	7.13	12.61
111	2008	12	2230	36.94	77.2	0.218	78.6	5.453	12.61
111	2008	12	2245	36.69	76.9	0.669	93.6	7.19	12.61
111	2008	12	2300	36.85	76.6	1.072	81.3	9.85	12.6
111	2008	12	2315	36.46	77.3	0.945	75.7	8.64	12.59
111	2008	12	2330	36.25	77.3	0.658	78.9	7.2	12.59
111	2008	12	2345	36.1	79.1	0.349	76.2	5.774	12.58
111	2008	12	2400	35.18	80.5	0.343	22.97	15.59	12.58
111	2008	13	15	35.13	80.4	1.042	101.5	13.53	12.58
111	2008	13	30	35	80.3	0.308	88.1	4.606	12.58
111	2008	13	45	34.09	82.6	0.582	70	16.93	12.58
111	2008	13	100	34.27	82.2	1.022	94.5	17.24	12.56
111	2008	13	115	34.26	82.4	0.776	86.1	9.91	12.56
111	2008	13	130	34.64	79.7	1.606	105.8	20.33	12.56
111	2008	13	145	35.04	77.7	0.944	95.2	17.87	12.56
111	2008	13	200	34.64	78	0.375	97.9	8.51	12.55
111	2008	13	215	33.93	79.8	0.163	75.3	12.53	12.55
111	2008	13	230	33.17	81.8	0.316	27.35	2.552	12.55
111	2008	13	245	32.56	82.5	0.31	293.7	3.262	12.54
111	2008	13	300	32.11	83.6	0.067	35.62	0.038	12.53
111	2008	13	315	31.73	83.9	0.514	83.7	6.791	12.53
111	2008	13	330	31.3	84.8	0.51	28.57	6.81	12.52
111	2008	13	345	30.58	85.9	0.073	56.67	9	12.52
111	2008	13	400	30.44	86.2	1.076	84.2	6.946	12.52
111	2008	13	415	30.12	86.4	0.232	102.7	6.685	12.51
111	2008	13	430	29.64	87.4	0.222	41.22	4.773	12.51
111	2008	13	445	29.36	88.1	0.319	56.64	12.38	12.51
111	2008	13	500	29.21	88.5	1.25	87.8	8.88	12.5
111	2008	13	515	29.01	88.6	0.661	65.32	45.12	12.5
111	2008	13	530	28.62	89.2	0	0	0	12.5
111	2008	13	545	28.47	89.4	0.009	53.66	0	12.5
111	2008	13	600	28.13	90.3	0	0	0	12.49
111	2008	13	615	28.25	90.3	0.254	90.4	1.756	12.48
111	2008	13	630	28.08	90.5	0.286	90.8	4.11	12.48

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	13	645	28.19	90.6	0.378	118.4	9.84	12.48
111	2008	13	700	28.1	90.8	0.532	85.4	6.603	12.48
111	2008	13	715	28.23	90.8	0.561	74.9	9.78	12.47
111	2008	13	730	28.4	91	1.474	81.1	15.1	12.47
111	2008	13	745	28.97	90.9	0.973	92	16.26	12.47
111	2008	13	800	29.72	90.6	1.561	136.8	22.06	12.47
111	2008	13	815	30.02	90	1.913	116.1	18.34	12.47
111	2008	13	830	30.68	88.6	2.812	132.5	24.67	12.47
111	2008	13	845	31.49	87.7	2.593	124.3	21.18	12.47
111	2008	13	900	32.38	85.4	3.408	127.4	20.2	13.46
111	2008	13	915	33.4	82.3	3.954	126.9	26.73	13.92
111	2008	13	930	34.42	79.3	3.61	141.1	26.5	13.9
111	2008	13	945	35.31	76.5	4.077	151.7	26.41	13.88
111	2008	13	1000	36.38	73.2	4.526	147.7	31.42	13.87
111	2008	13	1015	37.42	68.14	5.6	156.3	28.3	13.85
111	2008	13	1030	38.29	64.69	6.35	164	22.57	13.06
111	2008	13	1045	39.33	61	5.655	166.9	33.59	13.82
111	2008	13	1100	39.99	59.78	7.32	166.5	24.74	13.79
111	2008	13	1115	40.79	56.43	6.479	164.6	30.2	13.78
111	2008	13	1130	41.41	56.23	7.28	173.7	28.14	13.75
111	2008	13	1145	42.26	53.58	6.831	183.7	28.02	13.73
111	2008	13	1200	42.89	49.82	6.962	178	31	13.7
111	2008	13	1215	43.32	48.34	8.1	185.5	29.64	13.69
111	2008	13	1230	43.4	47.64	9.05	182.4	22.49	13.69
111	2008	13	1245	43.25	47.71	8.89	189.7	25.08	13.67
111	2008	13	1300	43.65	47.24	7.86	193.4	24.42	13.67
111	2008	13	1315	44.39	43.66	6.976	183.5	30.71	13.66
111	2008	13	1330	44.34	45.16	6.485	197.7	25.65	13.65
111	2008	13	1345	44.08	52.42	6.767	233.9	20.64	13.64
111	2008	13	1400	43.5	53.8	6.614	244.2	17.18	13.64
111	2008	13	1415	43.29	59.93	7.39	241.6	21.95	13.64
111	2008	13	1430	43.22	56.21	8.13	230.6	22.15	13.64
111	2008	13	1445	43.34	61.47	9.36	218.8	18.78	13.64
111	2008	13	1500	42.77	69.47	9.32	212.9	18.45	13.65
111	2008	13	1515	42.05	71.2	9.15	209.7	19.92	13.66
111	2008	13	1530	42.34	67.36	9.34	212.3	19.76	13.67
111	2008	13	1545	42.26	66.76	9.84	212.7	20.32	13.69
111	2008	13	1600	42.46	68.06	9.15	213.6	19.4	13.41
111	2008	13	1615	42.38	67.59	10.01	209	19.89	13.05
111	2008	13	1630	42.38	66.42	10.39	199.9	21.68	13.03
111	2008	13	1645	42.4	67.76	10.54	184.8	24.57	12.91
111	2008	13	1700	42.14	68.03	10.54	197.5	19.98	12.83
111	2008	13	1715	42	67.47	9.56	196.4	26.68	12.8
111	2008	13	1730	41.71	69.24	9.45	198.2	21.37	12.77
111	2008	13	1745	41.51	70.4	9.27	194.8	18.99	12.76
111	2008	13	1800	41.38	70.7	9.19	193.4	19.45	12.75
111	2008	13	1815	41.4	71.8	8.53	193.5	21.18	12.73
111	2008	13	1830	41.35	73.6	9.83	192.3	21.84	12.72
111	2008	13	1845	41.36	74.9	7.94	192.6	23.96	12.71
111	2008	13	1900	41.38	76.1	7.05	198.7	19.84	12.71
111	2008	13	1915	41.45	77.6	9.55	198.5	17.61	12.69
111	2008	13	1930	41.6	78.7	10.82	211	17.54	12.69
111	2008	13	1945	41.75	78.6	11.09	204.6	18.66	12.69
111	2008	13	2000	41.71	76.5	11.28	203.4	20.87	12.68
111	2008	13	2015	41.63	76.2	10.93	199.6	18.06	12.67
111	2008	13	2030	41.47	75.9	11.03	200.5	19.8	12.67
111	2008	13	2045	41.42	74.3	11.48	193.8	22.93	12.66
111	2008	13	2100	41.35	74.1	10.88	198.9	15.08	12.66
111	2008	13	2115	41.25	74.4	11.01	198.3	25.16	12.66
111	2008	13	2130	41.21	73.9	11.02	203.4	19.11	12.65

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	13	2145	41.29	73.9	10.73	196.7	22.59	12.65
111	2008	13	2200	41.24	76.7	10.63	189.3	27.42	12.65
111	2008	13	2215	40.83	78.3	7.71	170.9	54.91	12.64
111	2008	13	2230	40.8	77.9	7.51	174.4	26.51	12.63
111	2008	13	2245	40.05	82.7	8.44	176.5	23.92	12.63
111	2008	13	2300	39.31	85.4	8.73	173.6	28	12.63
111	2008	13	2315	39.03	86.3	6.472	150.5	30.84	12.61
111	2008	13	2330	38.88	86.1	6.603	141.5	26.27	12.61
111	2008	13	2345	38.67	86.6	7.32	147.4	26.7	12.61
111	2008	13	2400	38.12	87.9	8.19	160.7	26.63	12.61
111	2008	14	15	37.63	88.7	9.06	157.7	29.86	12.59
111	2008	14	30	37.4	88.8	8.55	159.2	31.51	12.59
111	2008	14	45	36.5	89.3	8.88	156.4	25.86	12.58
111	2008	14	100	35.1	89.9	8.71	156.6	25.63	12.58
111	2008	14	115	34.6	90	7.53	152.9	30.84	12.56
111	2008	14	130	34.37	90.1	8.6	154.3	29.15	12.57
111	2008	14	145	34.31	90.2	7.78	153.9	27.72	12.55
111	2008	14	200	34.35	90.3	7.82	152.5	27.27	12.55
111	2008	14	215	34.37	90.4	7.87	151.4	32.19	12.55
111	2008	14	230	34.38	90.7	5.846	144.8	33.12	12.55
111	2008	14	245	34.36	90.6	7.47	147.7	29.85	12.53
111	2008	14	300	34.26	90.7	7.8	144.4	33.46	12.53
111	2008	14	315	34.17	90.9	7.19	143.9	31.02	12.53
111	2008	14	330	34.2	91	7.08	148.5	27.77	12.52
111	2008	14	345	34.22	91	6.809	148.9	31.39	12.52
111	2008	14	400	34.17	91.1	6.704	141.5	30.29	12.51
111	2008	14	415	34.01	91.2	6.676	134.6	24.92	12.51
111	2008	14	430	33.69	91.5	7.79	133.5	28.92	12.51
111	2008	14	445	33.56	91.6	8.68	153.5	25.45	12.51
111	2008	14	500	33.54	91.6	7.21	149.6	27.61	12.5
111	2008	14	515	33.5	91.5	7.55	132.1	33.33	12.51
111	2008	14	530	33.35	91.7	6.9	130.4	32.85	12.5
111	2008	14	545	33.27	91.8	6.414	139.5	27.23	12.49
111	2008	14	600	33.3	91.5	7.99	134.1	27.53	12.49
111	2008	14	615	33.3	91.5	6.942	128.4	24.45	12.49
111	2008	14	630	33.29	91.3	7.48	129.1	26.1	12.49
111	2008	14	645	33.31	91	8.78	129.1	22.63	12.49
111	2008	14	700	33.42	90.9	8.07	129.5	30.39	12.48
111	2008	14	715	33.41	91	8.91	131.3	26.62	12.48
111	2008	14	730	33.41	91.1	9.15	133.8	25.01	12.48
111	2008	14	745	33.53	91	8.81	131.8	20.76	12.47
111	2008	14	800	33.6	90.8	7.57	129.9	25.8	12.47
111	2008	14	815	33.6	90.7	8.35	126.4	29.98	12.48
111	2008	14	830	33.66	90.2	9	132.1	30.01	12.47
111	2008	14	845	33.78	90.4	6.74	120.9	25.09	12.48
111	2008	14	900	33.99	90.1	6.761	133.2	24.15	12.47
111	2008	14	915	34.2	89.8	6.702	129.4	23.03	12.47
111	2008	14	930	34.26	90.2	6.166	129.7	29.78	12.5
111	2008	14	945	34.54	89.1	7.43	125	26.81	12.78
111	2008	14	1000	34.65	88.9	7.3	129.5	27.52	12.8
111	2008	14	1015	34.83	88.8	6.386	133.4	25.04	12.84
111	2008	14	1030	35.09	88.1	6.7	138.6	29.48	13.02
111	2008	14	1045	35.57	85.7	6.607	125.9	25.21	13.2
111	2008	14	1100	35.63	85	6.39	123.8	26.04	13.11
111	2008	14	1115	36.16	83.3	5.898	120.6	28.96	13.29
111	2008	14	1130	35.97	83.8	6.902	119.8	27.29	13.14
111	2008	14	1145	36.18	82.7	5.302	121.2	30.24	13.16
111	2008	14	1200	36.14	82.8	5.957	118	32.94	13.22
111	2008	14	1215	36.04	82	6.472	120.1	26.3	13.24
111	2008	14	1230	36.19	81.8	6.102	123.6	28.03	13.12

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	14	1245	36.17	80.3	6.13	129.2	24.49	13.05
111	2008	14	1300	36.12	79.6	5.443	121.2	33.17	13.03
111	2008	14	1315	36.22	79	6.297	115.2	30.76	13.05
111	2008	14	1330	36	79.5	6.08	117.7	32.68	13.09
111	2008	14	1345	35.99	78.1	5.695	120.2	28.88	13.19
111	2008	14	1400	36.3	76.4	4.607	97	30.69	13.04
111	2008	14	1415	36.47	77.1	3.976	107.5	37.57	13.13
111	2008	14	1430	36.39	77.2	4.808	113.2	26.96	13.1
111	2008	14	1445	36.26	80.1	4.764	112	24.83	12.91
111	2008	14	1500	35.92	80.8	4.148	107.8	29.61	12.91
111	2008	14	1515	36.14	78.7	4.164	102.6	33.33	12.96
111	2008	14	1530	36.3	79.6	3.984	112.8	35.28	12.8
111	2008	14	1545	35.89	81.5	4.434	92.9	30.02	12.77
111	2008	14	1600	36.11	80.4	4.125	98	28.52	12.79
111	2008	14	1615	35.9	79.8	4.013	101.1	23.87	12.76
111	2008	14	1630	35.91	81	3.646	105.3	28.92	12.74
111	2008	14	1645	35.89	80.8	3.765	73.8	29.18	12.73
111	2008	14	1700	36	80.2	3.894	112.3	27.9	12.69
111	2008	14	1715	35.88	79.6	3.751	89.5	30.07	12.68
111	2008	14	1730	35.89	79.4	3.388	103.9	22.44	12.67
111	2008	14	1745	35.9	78.8	2.223	106.7	29.32	12.65
111	2008	14	1800	35.76	78.6	3.6	123	23.36	12.65
111	2008	14	1815	35.68	79.4	3.59	130.3	19.58	12.64
111	2008	14	1830	35.74	80	1.8	108.9	37.75	12.63
111	2008	14	1845	35.74	80.7	2.365	59.27	17.34	12.62
111	2008	14	1900	35.57	81.3	2.764	61.6	18.34	12.61
111	2008	14	1915	35.53	81.8	2.296	58.18	17.87	12.6
111	2008	14	1930	35.49	82.9	2.764	96.1	27.32	12.59
111	2008	14	1945	35.48	83.1	1.762	83.1	35.82	12.58
111	2008	14	2000	35.29	83.4	2.238	93	29.08	12.57
111	2008	14	2015	35.14	84.5	2.564	113.7	24.06	12.56
111	2008	14	2030	34.73	85.9	2.544	134.1	26.46	12.56
111	2008	14	2045	34.52	86.4	1.754	130.6	35.89	12.54
111	2008	14	2100	34.37	86.9	2.29	136.5	27	12.53
111	2008	14	2115	34.43	87.2	1.929	133.7	32.93	12.52
111	2008	14	2130	34.37	87.6	2.139	153.2	25.91	12.51
111	2008	14	2145	34.1	88.1	2.089	172.1	22.31	12.51
111	2008	14	2200	33.67	88.8	1.701	182.3	28.81	12.5
111	2008	14	2215	33.49	89.1	1.02	176.1	25.96	12.49
111	2008	14	2230	33.47	89.4	1.326	147.6	25.84	12.49
111	2008	14	2245	33.36	89.6	1.992	165.8	19.96	12.48
111	2008	14	2300	33.17	89.7	2.064	163.6	18.25	12.47
111	2008	14	2315	33.09	89.6	1.973	166.5	27.86	12.47
111	2008	14	2330	33.05	89.5	1.774	161	18.37	12.47
111	2008	14	2345	33.07	89.5	1.028	151.5	19.87	12.46
111	2008	14	2400	33.21	89.4	0.396	98.7	22.26	12.46
111	2008	15	15	33.27	89.1	0.536	65.43	17.19	12.46
111	2008	15	30	33.33	89.4	0.272	68.75	12.78	12.45
111	2008	15	45	33.46	89.4	1.197	62.23	23.52	12.45
111	2008	15	100	33.49	89.6	0.806	65.9	20.87	12.45
111	2008	15	115	33.56	89.8	0.724	74.8	18.34	12.45
111	2008	15	130	33.52	89.9	0	0	0	12.45
111	2008	15	145	33.6	90.2	0.841	105.5	17.72	12.45
111	2008	15	200	33.83	90.3	1.799	89.6	24.39	12.45
111	2008	15	215	33.74	90.7	1.008	51.88	30.49	12.45
111	2008	15	230	33.7	90.8	0.9	61.61	18.85	12.45
111	2008	15	245	33.71	91.1	1.29	88.4	18.97	12.45
111	2008	15	300	33.77	91.1	1.12	67.23	22.2	12.45
111	2008	15	315	33.85	91.5	2.125	47.04	21.15	12.44
111	2008	15	330	34.33	91.2	3.168	59.05	17.37	12.44

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	15	345	34.88	90.2	3.694	54.72	17.41	12.44
111	2008	15	400	35.08	89.1	3.817	47.48	20.02	12.44
111	2008	15	415	35.12	87	4.512	50.97	20.13	12.44
111	2008	15	430	34.97	85.1	4.722	60.81	21.67	12.44
111	2008	15	445	34.62	84.8	4.095	55.94	19.98	12.44
111	2008	15	500	34.4	84.3	4.272	54.97	18.32	12.43
111	2008	15	515	34.12	84.5	3.749	53.06	18.98	12.44
111	2008	15	530	33.68	85.6	3.207	49.72	18.71	12.44
111	2008	15	545	33.4	86.3	3.483	42.84	18.78	12.43
111	2008	15	600	33.2	86.5	3.189	47.83	22.63	12.43
111	2008	15	615	33.17	85.8	3.44	44.02	18.07	12.43
111	2008	15	630	33.55	84.5	3.525	48.83	18.61	12.42
111	2008	15	645	34.29	83.2	3.164	53.03	17.11	12.42
111	2008	15	700	34.53	81.8	3.493	46.43	18.69	12.42
111	2008	15	715	34.49	80.9	3.946	54.16	21.89	12.42
111	2008	15	730	34.22	81.1	3.801	53.15	18.28	12.42
111	2008	15	745	34.2	80	3.539	45.06	19.96	12.42
111	2008	15	800	34.19	79.6	3.942	41.05	18.63	12.42
111	2008	15	815	34.21	79.7	4.077	34.56	19.58	12.41
111	2008	15	830	34	79.5	4.403	38.4	17.21	12.41
111	2008	15	845	34.05	77.3	4.234	42.87	18.57	12.41
111	2008	15	900	34.23	76.3	4.204	42.6	19.81	12.41
111	2008	15	915	34.3	75.2	4.518	45.98	23.54	12.41
111	2008	15	930	34.32	73.8	4.486	48.89	21.68	12.41
111	2008	15	945	34.35	74.2	3.674	45.97	19.34	12.42
111	2008	15	1000	34.37	73.4	5.012	53.02	16.58	12.5
111	2008	15	1015	34.34	72.7	4.738	62.06	22.83	12.81
111	2008	15	1030	34.56	68.91	5.64	51.62	23.5	12.81
111	2008	15	1045	34.81	67.37	6.156	53.95	18.1	12.99
111	2008	15	1100	35.21	67.27	4.202	56.31	25.54	13.1
111	2008	15	1115	35.64	64.72	4.873	54.97	23.58	13.11
111	2008	15	1130	35.96	63.71	5.771	38.7	23.2	13.65
111	2008	15	1145	36.3	61.97	6.789	30.48	21.04	13.75
111	2008	15	1200	36.63	60.95	5.922	48.45	26.58	13.74
111	2008	15	1215	36.59	61.05	6.597	37.84	20.34	13.74
111	2008	15	1230	36.43	60.75	5.586	37.42	25.97	13.74
111	2008	15	1245	36.72	60.05	6.561	34.24	20.81	13.73
111	2008	15	1300	37.21	58.47	5.459	56.89	28.97	13.73
111	2008	15	1315	37.55	56.93	6.658	32.77	26.6	13.71
111	2008	15	1330	37.78	57.16	7.01	38.09	18.45	13.7
111	2008	15	1345	37.99	56.92	5.963	49.92	35.81	13.7
111	2008	15	1400	37.69	53.24	5.9	43.7	28.91	13.7
111	2008	15	1415	38.1	54.18	5.459	43.51	26.45	13.71
111	2008	15	1430	38.29	51.6	6.795	26.44	20.84	13.7
111	2008	15	1445	37.83	53.34	6.475	22.47	21.45	13.7
111	2008	15	1500	38.73	51.4	7.34	26.5	21.83	13.7
111	2008	15	1515	38.96	52.4	7.88	26.53	21.17	13.7
111	2008	15	1530	39.46	50.02	6.487	45.72	25.54	13.65
111	2008	15	1545	39.37	50.62	7.11	39.37	28.51	13.7
111	2008	15	1600	38.5	50.83	7.46	42.61	25.24	13
111	2008	15	1615	37.89	50.26	7.02	62.64	24.5	13
111	2008	15	1630	37.54	53.24	7.39	63.62	23.8	12.91
111	2008	15	1645	36.73	54.92	7.94	64.34	22.14	12.85
111	2008	15	1700	36.22	56.36	7.44	60.56	21.16	12.79
111	2008	15	1715	35.99	56.8	7.37	53.68	23.23	12.77
111	2008	15	1730	35.59	56.93	6.99	60.02	22.13	12.75
111	2008	15	1745	35.22	57.37	7.19	68.39	21.3	12.73
111	2008	15	1800	34.93	58.05	6.642	54.52	22.15	12.71
111	2008	15	1815	34.63	58.66	6.779	52.94	19.03	12.7
111	2008	15	1830	34.35	60	5.393	64.56	17.94	12.69

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	15	1845	34.09	61.44	4.311	56.36	21.32	12.67
111	2008	15	1900	33.89	62.34	5.362	52.24	16.93	12.66
111	2008	15	1915	33.81	63.22	6.366	56.52	19.67	12.66
111	2008	15	1930	33.73	64.29	6.462	53.05	16.05	12.64
111	2008	15	1945	33.8	65.46	6.501	49.5	18.47	12.64
111	2008	15	2000	33.77	66.7	6.124	56.99	19.7	12.63
111	2008	15	2015	33.78	67.74	7.09	55.29	18.92	12.62
111	2008	15	2030	34	67.34	8.18	61.71	22.42	12.61
111	2008	15	2045	33.91	67.57	8.25	59.23	19.49	12.61
111	2008	15	2100	33.74	67.81	7.67	54.87	22.12	12.61
111	2008	15	2115	33.63	67.94	6.289	55.85	21.91	12.61
111	2008	15	2130	33.57	68.54	6.211	50.02	21.13	12.6
111	2008	15	2145	33.49	67.47	7.22	55.49	19.97	12.6
111	2008	15	2200	33.58	67.07	6.888	56.43	20.58	12.59
111	2008	15	2215	33.61	67.37	7.89	61.17	19.43	12.58
111	2008	15	2230	33.5	69.75	8.01	60.66	20.42	12.58
111	2008	15	2245	33.63	67.74	7.8	71.8	24.45	12.57
111	2008	15	2300	33.81	68.17	7.22	67.33	22.87	12.57
111	2008	15	2315	33.74	68.98	6.618	74	20.69	12.57
111	2008	15	2330	33.58	70.5	5.693	79.1	24.81	12.57
111	2008	15	2345	33.25	72.5	6.025	94	22.65	12.56
111	2008	15	2400	32.77	74.1	5.262	82.4	24.67	12.56
111	2008	16	15	32.29	75.2	5.157	82.4	21.95	12.55
111	2008	16	30	31.92	74.8	5.183	78.8	23.72	12.54
111	2008	16	45	31.79	72.4	6.311	71.7	20.07	12.53
111	2008	16	100	31.57	72.6	5.876	80.4	18.88	12.53
111	2008	16	115	31.31	73	5.604	74.4	18.22	12.51
111	2008	16	130	31.07	72.5	5.314	77.1	23.01	12.51
111	2008	16	145	30.86	72.2	4.792	77.6	20.47	12.51
111	2008	16	200	30.72	70.7	6.436	79.9	20.06	12.5
111	2008	16	215	30.72	71.2	6.507	85.5	19.39	12.5
111	2008	16	230	30.37	74.3	6.197	97.2	25.54	12.49
111	2008	16	245	29.89	74.9	6.013	87.9	24.83	12.48
111	2008	16	300	29.65	74.6	6.289	84.3	24.02	12.47
111	2008	16	315	29.4	73.4	5.489	85.5	24.56	12.47
111	2008	16	330	29.09	72.2	4.52	87.6	21.17	12.46
111	2008	16	345	28.83	67.49	5.711	81.3	27.28	12.45
111	2008	16	400	28.8	66.12	7.34	84.4	24.37	12.45
111	2008	16	415	28.59	68	5.763	76.9	25.31	12.44
111	2008	16	430	28.41	68.93	6.104	75	21.76	12.44
111	2008	16	445	28.19	67.86	5.097	79.7	21.7	12.43
111	2008	16	500	28.14	66.52	5.159	85.1	20.95	12.42
111	2008	16	515	28.07	63.4	5.471	80.9	18.18	12.42
111	2008	16	530	27.84	62.3	4.154	76.9	18.24	12.41
111	2008	16	545	27.62	62.33	3.451	72.4	16.95	12.4
111	2008	16	600	27.4	62.24	3.527	81.8	22.31	12.4
111	2008	16	615	27.53	61.8	4.361	59.62	19.66	12.39
111	2008	16	630	27.71	62.17	5.096	61.91	18.2	12.38
111	2008	16	645	27.79	62.54	4.202	66.19	23.95	12.38
111	2008	16	700	28.15	62.7	3.535	51.85	18.46	12.38
111	2008	16	715	28.19	63.51	4.412	53.42	22.44	12.37
111	2008	16	730	28.03	63.51	5.258	60.75	17.03	12.37
111	2008	16	745	28	63.88	4.18	46.14	18.95	12.36
111	2008	16	800	27.83	64.42	3.787	56.78	16.99	12.36
111	2008	16	815	27.84	64.21	3.91	59.08	16.19	12.36
111	2008	16	830	27.9	62.84	4.301	67.25	21.75	12.36
111	2008	16	845	28.25	61.3	5.632	73.9	20.1	12.4
111	2008	16	900	28.8	60.59	5.125	78.5	19.44	13.28
111	2008	16	915	29.44	59.18	5.663	76.3	23.18	13.94
111	2008	16	930	30.21	56.57	5.469	72.7	22.13	13.91

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	16	945	30.93	50.57	6.462	83.1	19.96	13.89
111	2008	16	1000	31.56	47.55	6.863	78.3	27.31	13.87
111	2008	16	1015	32.12	44.73	7.38	77.8	22.4	13.87
111	2008	16	1030	32.78	42.18	6.99	91.9	26.94	13.04
111	2008	16	1045	32.95	41.27	7.39	91.6	23.43	13.06
111	2008	16	1100	33.32	39.77	9.95	102.6	24.16	13.49
111	2008	16	1115	33.46	39.03	9.93	99.7	25.11	13.83
111	2008	16	1130	33.8	38.96	8.51	95.6	24.85	13.82
111	2008	16	1145	34.15	38.66	9.58	105.7	27.39	13.81
111	2008	16	1200	34.77	36.34	9.78	96	27.04	13.8
111	2008	16	1215	34.77	36.17	9.89	86.5	28.74	13.79
111	2008	16	1230	34.68	36.1	9.2	85.4	26.14	13.79
111	2008	16	1245	34.98	35.4	9.13	78.4	25.73	13.79
111	2008	16	1300	35.21	34.56	8.77	87.2	24.31	13.78
111	2008	16	1315	35.62	33.56	9.94	78.7	25.81	13.77
111	2008	16	1330	36.34	31.55	7.33	89.7	31.07	13.77
111	2008	16	1345	36.62	32.35	7.31	82.9	27.67	13.76
111	2008	16	1400	36.93	33.22	8.49	92.6	27.33	13.76
111	2008	16	1415	37.22	34.16	7.46	70.5	28.09	13.75
111	2008	16	1430	36.88	34.59	8.07	60.68	25	13.75
111	2008	16	1445	37.14	33.96	7.95	54.86	22.69	13.75
111	2008	16	1500	37.49	34.09	8.34	68.61	27.46	13.75
111	2008	16	1515	37.24	34.86	9.61	72.4	19.91	13.75
111	2008	16	1530	37.35	35.3	9.95	55.9	18.78	13.75
111	2008	16	1545	37.51	34.19	8.98	54.43	24.96	13.15
111	2008	16	1600	37.5	35.2	9.55	68.14	18.49	13.15
111	2008	16	1615	37.3	36.91	9.63	65.72	22.18	13.77
111	2008	16	1630	37.66	36.14	8.71	84.5	21.2	13.46
111	2008	16	1645	37.82	36.54	7.82	92.3	26.67	12.99
111	2008	16	1700	37.54	37.17	7.56	70.4	28.18	12.85
111	2008	16	1715	36.72	37.94	6.664	69.54	22	12.81
111	2008	16	1730	36.33	38.14	7.24	72.6	23.4	12.78
111	2008	16	1745	36.04	38.48	7.23	83.7	22.55	12.76
111	2008	16	1800	35.66	39.12	5.687	88.6	31.58	12.73
111	2008	16	1815	35.31	39.53	5.659	96	23.94	12.72
111	2008	16	1830	34.99	40.9	5.193	81.5	16.48	12.71
111	2008	16	1845	34.61	41.54	5.381	76.7	20.06	12.69
111	2008	16	1900	34.33	42.61	4.057	82.9	22.38	12.68
111	2008	16	1915	33.94	44.02	4.414	102.1	22.06	12.67
111	2008	16	1930	33.81	43.25	4.573	122.5	38.23	12.67
111	2008	16	1945	33.48	44.86	4.736	126.9	25.4	12.65
111	2008	16	2000	32.94	44.32	4.96	128.6	28.15	12.64
111	2008	16	2015	32.55	44.02	4.027	113.2	33.29	12.63
111	2008	16	2030	32.13	44.73	3.678	110.9	30.85	12.63
111	2008	16	2045	31.86	46.11	2.814	104.7	28.09	12.62
111	2008	16	2100	31.4	47.08	3.356	83.8	27.58	12.62
111	2008	16	2115	31	48.09	2.999	96	30.74	12.61
111	2008	16	2130	30.58	48.73	2.774	117	39.37	12.59
111	2008	16	2145	30.22	48.49	2.721	114.4	29.16	12.59
111	2008	16	2200	30.18	48.26	2.868	102.8	24.66	12.58
111	2008	16	2215	29.96	48.86	2.348	92.6	22.64	12.58
111	2008	16	2230	29.47	49.93	2.064	125.6	19.5	12.57
111	2008	16	2245	29.09	51.48	1.853	110.3	32.87	12.56
111	2008	16	2300	28.73	53.22	1.661	83.4	40.38	12.56
111	2008	16	2315	28.2	53.76	1.309	64.78	45	12.55
111	2008	16	2330	27.89	55.77	1.878	60.86	41.1	12.53
111	2008	16	2345	27.55	56.25	1.555	102.2	52.81	12.53
111	2008	16	2400	27.32	55.85	1.485	120.7	30.37	12.52
111	2008	17	15	27.61	55.95	1.549	87.5	26.99	12.52
111	2008	17	30	27.29	57.42	1.517	142.6	25.43	12.51

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	17	45	27.03	58.2	1.255	128.1	25.62	12.5
111	2008	17	100	26.65	60.88	1.314	79.6	27.05	12.5
111	2008	17	115	25.63	66.01	1.419	24.92	7.86	12.49
111	2008	17	130	24.91	68.35	0.771	45.5	19.75	12.49
111	2008	17	145	24.91	68.62	0.856	104.3	34.12	12.47
111	2008	17	200	24.78	68.52	1.973	21.04	9.78	12.48
111	2008	17	215	24.49	69.26	0.584	48.72	12.79	12.46
111	2008	17	230	24.01	71.5	0.112	56.5	1.37	12.47
111	2008	17	245	23.84	72.9	0.54	66.35	27.89	12.46
111	2008	17	300	23.6	73.5	0.497	232	47.44	12.45
111	2008	17	315	23.52	75.1	0.383	48.2	13.63	12.45
111	2008	17	330	23.03	76	1.138	49.07	17.27	12.44
111	2008	17	345	22.81	76.4	na	na	na	12.43
111	2008	17	400	22.23	78.1	0.009	111.4	0.007	12.43
111	2008	17	415	22.56	78.3	0.68	125.4	21.31	12.43
111	2008	17	430	23.29	76.7	0.426	48.14	16.4	12.41
111	2008	17	445	23.56	77.5	0.426	37.72	10.25	12.41
111	2008	17	500	23.78	77.1	0.298	61.75	12.24	12.41
111	2008	17	515	23.71	76.7	0.067	84	1.18	12.4
111	2008	17	530	23.4	77.9	0.036	58.04	1.516	12.4
111	2008	17	545	23.15	78.6	na	na	na	12.39
111	2008	17	600	22.93	79	na	na	na	12.39
111	2008	17	615	22.99	79.5	0.082	13.07	0.358	12.38
111	2008	17	630	22.81	80.9	0.759	8	12.03	12.38
111	2008	17	645	22.87	82.2	na	na	na	12.37
111	2008	17	700	23.13	82	0.054	110.6	2.888	12.36
111	2008	17	715	23.58	80.9	0.518	155.5	20.6	12.36
111	2008	17	730	24	78.8	0.921	153	24.16	12.36
111	2008	17	745	24.44	78.4	0.682	45.31	25.51	12.35
111	2008	17	800	24.13	78	0.107	29.59	5.659	12.35
111	2008	17	815	23.86	78.5	0.162	39.73	9.47	12.34
111	2008	17	830	24.04	78.8	0.536	110.7	21.7	12.34
111	2008	17	845	24.67	77.1	1.323	130.5	21.49	12.34
111	2008	17	900	25.53	74.4	1.445	144.6	34.6	12.4
111	2008	17	915	26.46	71.4	1.474	157.5	33.64	12.38
111	2008	17	930	27.3	67.88	1.837	185	31.38	12.41
111	2008	17	945	28.25	65.13	2.389	165.1	35.58	12.49
111	2008	17	1000	29.03	61.23	3.87	183.5	23.75	12.92
111	2008	17	1015	29.55	57.17	4.45	184.5	23.87	13.19
111	2008	17	1030	30.45	55.26	3.934	194.7	24.87	13.94
111	2008	17	1045	30.96	56.27	3.442	195.1	27.83	13.93
111	2008	17	1100	31.4	56.76	4.405	202.3	24.16	13.91
111	2008	17	1115	32.18	55.58	3.942	207.6	25.96	13.89
111	2008	17	1130	33.51	54.44	3.914	228	28.39	13.88
111	2008	17	1145	34.39	54.37	4.587	228.7	27.48	13.84
111	2008	17	1200	34.73	56.34	5.316	243	21.24	13.81
111	2008	17	1215	34.54	57.74	4.625	235.2	27.63	13.81
111	2008	17	1230	34.21	59.08	5.062	231	17.43	13.81
111	2008	17	1245	34.38	59.41	3.99	251.3	26.65	13.55
111	2008	17	1300	34.48	59.82	4.609	224.2	21.41	13.58
111	2008	17	1315	34.73	59.02	5.01	229.3	22.68	13.31
111	2008	17	1330	34.87	57.98	4.891	238.1	22.02	13.2
111	2008	17	1345	35.31	56.94	4.405	243.3	23.05	13.08
111	2008	17	1400	35.36	56.71	4.281	240.8	21.38	13.08
111	2008	17	1415	35.6	56.21	4.671	244.4	22.07	13.12
111	2008	17	1430	35.9	56.07	4.001	260.3	25.76	13.1
111	2008	17	1445	35.89	56.51	4.774	245.8	20.93	13.03
111	2008	17	1500	36.05	56.34	3.839	265.4	29.47	12.99
111	2008	17	1515	36.16	56.34	4.097	239.2	26.23	12.93
111	2008	17	1530	36.37	56.61	4.301	230.1	16.91	12.99

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	17	1545	36.58	56.91	4.502	237	22.11	12.93
111	2008	17	1600	36.51	57.41	5.191	240.3	21.66	12.91
111	2008	17	1615	36.65	58.31	4.351	242.9	16.87	12.93
111	2008	17	1630	36.79	57.71	4.804	241.6	19.17	12.84
111	2008	17	1645	36.73	59.02	4.663	233.1	17.45	12.8
111	2008	17	1700	36.72	58.68	4.422	234.2	18.44	12.77
111	2008	17	1715	36.67	60.05	4.476	231.3	21.64	12.75
111	2008	17	1730	36.56	60.86	4.518	232.3	20.57	12.73
111	2008	17	1745	36.66	61.03	4.565	242.8	19.81	12.72
111	2008	17	1800	36.74	62.8	4.615	233.8	22.62	12.71
111	2008	17	1815	36.76	62.8	4.877	232.3	19.34	12.69
111	2008	17	1830	36.76	63.57	4.78	225.7	19.5	12.69
111	2008	17	1845	36.72	63.81	4.637	224.7	24.57	12.68
111	2008	17	1900	36.62	66.55	5.745	222.8	23.15	12.67
111	2008	17	1915	36.27	69.54	5.826	238	21.76	12.67
111	2008	17	1930	36.3	74.1	6.076	247.2	19.17	12.65
111	2008	17	1945	36.2	78	5.298	248.5	22.14	12.65
111	2008	17	2000	35.98	80.9	5.421	257	25.19	12.64
111	2008	17	2015	36.08	81.8	5.524	251.5	18.68	12.63
111	2008	17	2030	35.8	83.7	5.659	254.4	22.99	12.63
111	2008	17	2045	35.95	85.2	6.72	243.7	18.41	12.61
111	2008	17	2100	35.97	86.2	7.45	240.8	18.62	12.61
111	2008	17	2115	35.81	87	8.02	242.5	14.96	12.61
111	2008	17	2130	35.99	87.5	8.28	240.2	16.26	12.6
111	2008	17	2145	36.21	87.9	7.22	235.4	18.41	12.59
111	2008	17	2200	36.43	88	6.69	230.7	20.73	12.58
111	2008	17	2215	36.93	87.9	6.829	240.5	14.81	12.57
111	2008	17	2230	37.36	87.4	6.511	240.7	18.11	12.57
111	2008	17	2245	37.59	87.7	7.12	243.1	17.38	12.56
111	2008	17	2300	37.6	89	6.07	234.2	17.5	12.56
111	2008	17	2315	37.73	89.5	6.132	237.6	17.69	12.55
111	2008	17	2330	37.96	89.6	7.41	237.3	14.32	12.54
111	2008	17	2345	38.16	89.3	7.63	230.3	17.95	12.53
111	2008	17	2400	38.17	89.9	6.166	221.7	17.78	12.53
111	2008	18	15	38.46	91.1	6.154	226	17.91	12.52
111	2008	18	30	38.74	91.3	6.702	228.4	18.57	12.52
111	2008	18	45	38.92	91.5	7.08	230.6	19.66	12.51
111	2008	18	100	39.03	92	6.618	217.9	17.88	12.5
111	2008	18	115	39.23	92.2	6.744	215.3	17.96	12.49
111	2008	18	130	39.55	92.6	7.56	215.8	17.99	12.49
111	2008	18	145	39.95	92.6	6.39	214.8	19.39	12.48
111	2008	18	200	40.19	92.9	6.11	211.7	20.01	12.47
111	2008	18	215	40.38	93.2	6.261	209.1	22.39	12.47
111	2008	18	230	40.62	93.6	6.749	216.4	20.3	12.47
111	2008	18	245	40.89	94.1	6.382	217.7	23.49	12.47
111	2008	18	300	41.24	94.2	5.646	209.8	21.61	12.47
111	2008	18	315	41.53	94.4	5.578	200.7	20.83	12.46
111	2008	18	330	41.97	94.6	6.718	213	16.66	12.45
111	2008	18	345	42.67	95	6.082	229.8	25.44	12.46
111	2008	18	400	43.21	94.8	6.746	220.1	17.05	12.45
111	2008	18	415	43.69	94.8	5.284	209.2	25.28	12.45
111	2008	18	430	44.09	94.9	6.74	209.1	22.26	12.44
111	2008	18	445	44.51	94.9	6.299	223	19.99	12.45
111	2008	18	500	44.78	94.8	5.185	210.6	21.85	12.45
111	2008	18	515	44.87	94.9	3.897	272.8	90.9	12.45
111	2008	18	530	45.27	94.9	3.775	230.1	58.05	12.45
111	2008	18	545	45.24	94.9	3.666	249.7	47.25	12.45
111	2008	18	600	45.16	94.8	3.813	222.9	18.25	12.45
111	2008	18	615	44.98	95	2.044	214.8	26.5	12.45
111	2008	18	630	45.05	95	3.096	221.9	15.26	12.45

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	18	645	45.26	95.1	3.346	213.8	18.68	12.45
111	2008	18	700	45.35	95.2	2.481	224.8	27.86	12.45
111	2008	18	715	45.58	95.2	2.491	252.5	40.06	12.45
111	2008	18	730	45.8	95	1.352	23.82	13.74	12.45
111	2008	18	745	45.49	95.2	1.572	18.09	11.46	12.45
111	2008	18	800	45.44	95.3	2.01	24.76	14.15	12.45
111	2008	18	815	45.57	95.3	3.156	33.34	12.34	12.45
111	2008	18	830	45.61	95.4	3.628	43.42	18.46	12.45
111	2008	18	845	45.58	95.4	5.493	42.44	16.76	12.45
111	2008	18	900	44.59	94.9	5.562	59.45	19.76	12.44
111	2008	18	915	43.06	94.5	7.04	53.05	20.47	12.44
111	2008	18	930	41.97	94.3	7.33	58.53	17.82	12.46
111	2008	18	945	41.29	94	6.656	55.46	20.4	12.53
111	2008	18	1000	40.84	93.1	7.83	49.28	18.38	13.23
111	2008	18	1015	41.18	91.2	7.25	48.39	25.51	13.62
111	2008	18	1030	41.77	87.7	8.22	47.77	17.88	13.06
111	2008	18	1045	42.4	83.3	8.42	48.11	20.51	13.05
111	2008	18	1100	43.29	76.8	9.35	47.22	19.53	13.61
111	2008	18	1115	43.8	73.4	9.27	45.42	19.14	13.61
111	2008	18	1130	44.11	71.5	10.32	46.56	23.44	13.6
111	2008	18	1145	44.48	68.4	10.82	42.42	19.39	13.61
111	2008	18	1200	44.88	64.65	10.96	40.79	23.27	13.61
111	2008	18	1215	45.78	60.33	9.42	47.88	22.03	13.62
111	2008	18	1230	46.32	57.28	10.95	47.26	23.3	13.6
111	2008	18	1245	46.62	55.43	9.83	43.94	22.65	13.59
111	2008	18	1300	46.88	52.45	10.56	39.86	24.41	13.59
111	2008	18	1315	47.22	53.21	10.69	28.73	19.98	13.19
111	2008	18	1330	47.39	48.73	11.62	28.53	20.57	13.58
111	2008	18	1345	48.04	44.98	11.9	27.31	21.09	13.58
111	2008	18	1400	48.08	46.75	12.47	25.52	18.71	13.51
111	2008	18	1415	48.27	39.22	12.8	25.66	14.83	13.57
111	2008	18	1430	48.46	37.45	12.51	27.48	18.03	13.59
111	2008	18	1445	48.75	39.39	9.43	33.05	20.14	13.58
111	2008	18	1500	48.86	34.1	10.36	31.7	21.48	13.59
111	2008	18	1515	47.96	35.11	13.41	35.75	22.62	13.59
111	2008	18	1530	48.07	36.04	9.91	43.01	22.71	13.59
111	2008	18	1545	47.91	35.61	9	36.2	19.23	13.16
111	2008	18	1600	47.86	34.2	10.64	29.24	19.58	13.16
111	2008	18	1615	47.4	37.38	11.2	30.87	18.53	13.62
111	2008	18	1630	47.37	38.22	9.91	34.46	20.38	13.22
111	2008	18	1645	47.03	35.81	9.89	33.93	19.91	13
111	2008	18	1700	46.75	41.73	10.17	37.86	19.87	12.88
111	2008	18	1715	46.47	36.05	9.67	33.85	18.88	12.82
111	2008	18	1730	45.97	46.26	9.26	33.36	17.36	12.8
111	2008	18	1745	44.92	50.52	8.62	19.91	16.91	12.78
111	2008	18	1800	44.25	51.12	7.82	18.37	16.62	12.77
111	2008	18	1815	43.82	49.75	8.05	15.62	16.33	12.74
111	2008	18	1830	43.35	50.59	6.402	10.71	14.74	12.73
111	2008	18	1845	42.99	49.09	6.62	11.11	17.87	12.72
111	2008	18	1900	42.61	49.89	5.632	7.7	17.56	12.71
111	2008	18	1915	42.02	49.56	4.897	359.4	21.05	12.71
111	2008	18	1930	41.72	47.45	6.017	2.56	19.84	12.69
111	2008	18	1945	41.63	47.09	7.44	5.235	16.88	12.68
111	2008	18	2000	41.4	47.49	7.01	9.23	14.72	12.68
111	2008	18	2015	41.19	48.59	6.972	14.06	15.36	12.67
111	2008	18	2030	41.2	49.93	8.3	17.98	15.1	12.67
111	2008	18	2045	41	51.67	6.515	20.09	15.39	12.65
111	2008	18	2100	40.75	52.38	6.348	16.3	17.5	12.65
111	2008	18	2115	40.45	53.25	5.638	12.67	15.05	12.65
111	2008	18	2130	39.95	53.18	5.018	16.75	14.7	12.63

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	18	2145	39.54	52.85	4.841	22.42	13.63	12.64
111	2008	18	2200	39.62	44.94	5.695	28.47	16.33	12.63
111	2008	18	2215	39.51	44.54	4.986	43.19	19.33	12.62
111	2008	18	2230	38.84	42.1	3.757	45.62	18.56	12.61
111	2008	18	2245	38.49	38.52	4.657	41.83	17.98	12.61
111	2008	18	2300	38.25	34.4	5.219	37.16	20.49	12.61
111	2008	18	2315	38.08	33.4	5.151	36.95	16.95	12.6
111	2008	18	2330	37.63	34.77	4.649	34.25	14.64	12.6
111	2008	18	2345	36.99	35.38	4.051	35.7	12.86	12.59
111	2008	18	2400	36.53	38.86	3.833	27.06	13.51	12.58
111	2008	19	15	36.06	39.03	3.866	26.18	11.22	12.58
111	2008	19	30	35.83	38.19	4.571	33.18	18.27	12.58
111	2008	19	45	35.79	39.33	3.839	40.34	17.11	12.57
111	2008	19	100	35.4	38.79	2.834	53.28	21.18	12.57
111	2008	19	115	35.36	39.97	3.577	65.64	20.62	12.56
111	2008	19	130	35.2	40.87	2.782	67.56	20.96	12.56
111	2008	19	145	35.04	40.17	3.648	67.01	18.93	12.55
111	2008	19	200	34.87	40.23	4.915	69.55	19.24	12.55
111	2008	19	215	34.69	42.04	4.947	48.75	19.73	12.55
111	2008	19	230	34.45	42.04	4.625	54.68	18.64	12.55
111	2008	19	245	34.21	43.15	4.355	56.42	16.71	12.54
111	2008	19	300	33.87	43.48	3.88	44.54	21.32	12.53
111	2008	19	315	33.76	43.55	4.254	46.44	18.62	12.53
111	2008	19	330	33.67	43.95	3.65	54.31	20.74	12.53
111	2008	19	345	33.53	45.16	3.753	51.29	18.92	12.53
111	2008	19	400	33.32	45.33	4.091	58.77	19.43	12.52
111	2008	19	415	33.04	46.43	3.745	74.4	16.78	12.51
111	2008	19	430	32.76	47.44	3.781	71.8	22.81	12.52
111	2008	19	445	32.57	48.31	2.614	9.93	27.94	12.51
111	2008	19	500	32.39	48.75	2.133	347.9	17.8	12.51
111	2008	19	515	32.32	49.12	1.221	339.4	18.07	12.51
111	2008	19	530	32.14	50.62	0.774	15.98	11.68	12.5
111	2008	19	545	32.07	51.96	1.877	47.96	10.8	12.49
111	2008	19	600	31.99	51.23	1.869	37.34	12.22	12.49
111	2008	19	615	31.95	52.47	1.845	33.78	9.51	12.49
111	2008	19	630	31.64	54.75	0.544	41.47	9.3	12.48
111	2008	19	645	31.2	55.42	0.856	11.56	17.05	12.48
111	2008	19	700	31.24	53.78	1.332	42.64	13.42	12.47
111	2008	19	715	31.15	53.88	0.886	54.65	20.15	12.46
111	2008	19	730	30.97	54.55	0.777	79.2	9.16	12.46
111	2008	19	745	30.65	55.86	1.314	74.9	17.98	12.46
111	2008	19	800	30.05	58.31	1.371	326.3	39.2	12.45
111	2008	19	815	29.31	62.9	0.763	296.7	2.902	12.44
111	2008	19	830	28.82	63.54	0.194	298.7	5.277	12.44
111	2008	19	845	28.43	67.33	1.058	353.9	19.83	12.43
111	2008	19	900	28.64	65.72	1.426	338	22.27	12.43
111	2008	19	915	29.56	61.06	1.684	0.556	16.71	12.48
111	2008	19	930	30.67	55.8	1.788	352.7	21.12	12.67
111	2008	19	945	31.56	49.13	2.203	359.1	17.68	12.96
111	2008	19	1000	32.1	47.25	3.249	353.6	20.53	13.04
111	2008	19	1015	32.57	43.93	3.825	356.6	21.2	13.06
111	2008	19	1030	32.93	40.14	4.667	19.58	17.88	13.12
111	2008	19	1045	33.15	41.31	4.516	21.11	21.82	13.26
111	2008	19	1100	33.48	37.66	4.933	29.85	19.95	13.28
111	2008	19	1115	33.59	35.91	6.652	27.01	19.02	13.3
111	2008	19	1130	33.67	36.38	6.624	31.43	19.06	13.31
111	2008	19	1145	33.74	34.24	6.273	26.11	15.75	13.32
111	2008	19	1200	34.13	34.14	5.278	40.37	25.7	13.86
111	2008	19	1215	34.38	35.68	6.205	9.79	19.26	13.84
111	2008	19	1230	35.22	31.96	6.007	17.55	24.22	13.82

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	19	1245	34.82	31.92	7.01	13.62	16.96	13.81
111	2008	19	1300	35.26	30.35	6.144	17.87	24.48	13.81
111	2008	19	1315	35.12	31.01	5.564	39.03	21.74	13.81
111	2008	19	1330	35.24	30.38	6.513	16.54	15.26	13.81
111	2008	19	1345	35.72	31.45	5.922	25.29	18.23	13.81
111	2008	19	1400	35.81	32.02	5.685	32.62	15.17	13.81
111	2008	19	1415	36.17	30.98	4.407	17.5	22.79	13.81
111	2008	19	1430	36.32	31.61	5.536	32	22.49	13.8
111	2008	19	1445	36.28	35.37	6.738	7.86	21.08	13.8
111	2008	19	1500	36.57	37.07	5.233	16.21	20.31	13.81
111	2008	19	1515	36.53	33.82	6.176	27.01	20.38	13.31
111	2008	19	1530	36.46	32.92	7	28.71	17.74	13.07
111	2008	19	1545	36.2	33.99	6.386	36.05	22.23	12.99
111	2008	19	1600	36.2	34.96	6.293	39.07	19.72	12.85
111	2008	19	1615	35.77	37.61	7.6	26.65	14.67	12.8
111	2008	19	1630	35.54	38.35	5.85	32.2	18.2	12.77
111	2008	19	1645	35.46	38.42	5.747	30.73	17.1	12.75
111	2008	19	1700	35.26	39.79	6.08	26.55	14.73	12.73
111	2008	19	1715	35.2	40.16	5.602	25.78	19.52	12.72
111	2008	19	1730	35.13	42.14	4.935	30.12	17.57	12.71
111	2008	19	1745	35.1	42.24	4.216	33.23	20.24	12.69
111	2008	19	1800	35.02	43.01	3.146	34.66	21.56	12.68
111	2008	19	1815	34.88	44.25	2.935	8.61	22.39	12.67
111	2008	19	1830	34.75	45.12	2.179	341.3	28.97	12.67
111	2008	19	1845	34.65	45.56	2.53	338.2	20.43	12.65
111	2008	19	1900	34.69	46.67	3.225	340.7	22.76	12.65
111	2008	19	1915	34.78	49.85	3.876	353.7	26.39	12.64
111	2008	19	1930	34.78	49.95	4.234	351.9	21.46	12.63
111	2008	19	1945	34.78	50.32	4.067	350.6	21.61	12.63
111	2008	19	2000	34.82	50.55	4.399	6.638	18.48	12.61
111	2008	19	2015	34.94	49.41	4.349	12.28	14.79	12.61
111	2008	19	2030	34.96	50.89	4.561	14.04	18.21	12.61
111	2008	19	2045	34.94	50.89	5.487	14.97	15.25	12.6
111	2008	19	2100	34.88	50.15	5.034	17.39	16.35	12.59
111	2008	19	2115	34.87	51.39	4.917	21.19	16.73	12.59
111	2008	19	2130	34.81	51.32	4.698	16.15	16.87	12.58
111	2008	19	2145	34.8	50.92	5.882	16.7	15.79	12.57
111	2008	19	2200	34.73	51.26	4.651	11.87	18.61	12.57
111	2008	19	2215	34.73	51.62	5.822	6.668	14.37	12.56
111	2008	19	2230	34.72	51.06	5.244	16.38	14.21	12.55
111	2008	19	2245	34.6	50.65	5.02	12.23	14.97	12.55
111	2008	19	2300	34.5	51.76	3.984	10.91	21.31	12.54
111	2008	19	2315	34.47	52.09	4.295	21.19	15.96	12.52
111	2008	19	2330	34.37	52.36	3.853	13.01	14.8	12.52
111	2008	19	2345	34.34	50.65	4.295	28.95	18.58	12.51
111	2008	19	2400	34.35	50.85	4.154	31.86	19.65	12.5
111	2008	20	15	34.34	51.42	4.035	38.32	16.91	12.49
111	2008	20	30	34.23	51.62	3.265	41.96	19.76	12.48
111	2008	20	45	34.18	52.19	3.146	49.47	23.82	12.47
111	2008	20	100	34.02	51.99	2.8	47.85	22.1	12.47
111	2008	20	115	33.9	52.7	3.561	60.66	15.1	12.46
111	2008	20	130	33.77	52.26	4.734	61.44	22.39	12.46
111	2008	20	145	33.63	51.32	5.753	64.05	20.74	12.45
111	2008	20	200	33.47	52.26	4.464	57.83	20.77	12.45
111	2008	20	215	33.28	52.76	4.645	55.54	19.35	12.44
111	2008	20	230	33.15	51.86	5.244	65.64	17.59	12.44
111	2008	20	245	32.98	51.89	4.619	68.49	22.55	12.43
111	2008	20	300	32.82	52.19	4.194	57.15	21.67	12.43
111	2008	20	315	32.69	53.4	3.316	55.55	21.46	12.43
111	2008	20	330	32.57	53.63	3.616	66.85	19.16	12.42

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	20	345	32.45	53.23	4.121	66.64	20.34	12.43
111	2008	20	400	32.35	52.36	4.579	71.3	17.3	12.42
111	2008	20	415	32.25	53.4	4.444	76.4	20.3	12.41
111	2008	20	430	32.11	53.81	5.719	63.5	20.02	12.41
111	2008	20	445	31.94	55.68	3.96	73.8	22.32	12.41
111	2008	20	500	31.75	57.09	4.833	69.62	22.59	12.4
111	2008	20	515	31.07	63.55	8.25	80.2	29.13	12.4
111	2008	20	530	28.83	73.3	7.11	97	26.31	12.4
111	2008	20	545	27.37	81.3	6.807	95.7	23.47	12.4
111	2008	20	600	26.53	85.7	5.497	103.6	23.29	12.39
111	2008	20	615	26.24	86.5	4.039	103.4	25.52	12.38
111	2008	20	630	26.3	84.7	4.43	108.7	26.57	12.38
111	2008	20	645	26.29	81.5	4.966	112.6	28.13	12.37
111	2008	20	700	26.21	74	6.096	109.6	26.26	12.36
111	2008	20	715	26.12	71.3	6.495	118.6	28.3	12.36
111	2008	20	730	25.86	73.8	6.791	112.4	27.61	12.36
111	2008	20	745	25.12	70.7	7.85	105.2	24.79	12.35
111	2008	20	800	24.78	67.5	6.156	92.3	28.87	12.34
111	2008	20	815	24.68	66.9	6.269	82	23.87	12.35
111	2008	20	830	24.54	62.81	6.37	85.6	25.6	12.34
111	2008	20	845	24.53	58.82	7.06	86.9	22.4	12.33
111	2008	20	900	24.38	47.5	8.43	76.3	25.46	12.34
111	2008	20	915	24.03	44.58	9.11	67.06	21.94	12.37
111	2008	20	930	24.25	46.03	9.64	78.2	24.21	13.96
111	2008	20	945	23.94	43.21	9.43	80	24.37	13.95
111	2008	20	1000	23.5	40.62	10.09	77.3	24.24	13.95
111	2008	20	1015	23.25	39.71	11.43	70.4	20.41	13.95
111	2008	20	1030	23.25	36.03	11.21	76.1	22	13.23
111	2008	20	1045	22.81	38.04	11.17	72.3	23.51	13.15
111	2008	20	1100	22.85	36.09	10.51	62.48	22.79	13.96
111	2008	20	1115	23.06	34.25	10.85	62.8	22.77	13.96
111	2008	20	1130	23.05	34.99	10.12	71.9	20.52	13.96
111	2008	20	1145	23.26	33.81	10.01	75.8	23.12	13.95
111	2008	20	1200	23.23	31.23	11.41	71.9	23	13.95
111	2008	20	1215	22.99	28.65	11.59	74.7	22.5	13.95
111	2008	20	1230	23.51	29.16	9.68	66.12	24.23	13.95
111	2008	20	1245	23.12	29.59	12.03	48.26	22.49	13.95
111	2008	20	1300	23.32	28.55	11.68	71.8	20.38	13.96
111	2008	20	1315	23.38	27.51	12.25	50.37	23.47	13.95
111	2008	20	1330	23.15	27.55	11.1	60.67	24.61	13.96
111	2008	20	1345	23.41	26.58	11.97	59.41	24.4	13.95
111	2008	20	1400	23.47	26.98	11.04	58.77	22.05	13.96
111	2008	20	1415	24.01	27.31	9.93	47.74	24.29	13.95
111	2008	20	1430	24.04	27.41	10.65	61.68	19.9	13.95
111	2008	20	1445	23.88	26.07	10.44	57.26	21.41	13.96
111	2008	20	1500	24.2	25.07	11.3	53.87	22.11	13.96
111	2008	20	1515	24.02	25.44	10.17	58.35	21.41	13.96
111	2008	20	1530	23.9	26.14	10.91	48.83	18.4	13.96
111	2008	20	1545	23.67	27.25	10.32	52.34	22.93	13.39
111	2008	20	1600	23.7	27.11	9.88	46.06	23.37	13.24
111	2008	20	1615	23.86	27.45	9.38	63.14	19.47	13.98
111	2008	20	1630	23.34	27.75	11.08	48.49	20.81	13.98
111	2008	20	1645	23.19	28.12	9.82	54.27	24	13.14
111	2008	20	1700	22.89	29.79	10.22	42.24	23.14	12.89
111	2008	20	1715	22.47	27.78	10.12	60.4	25.59	12.8
111	2008	20	1730	22.12	28.62	8.92	62.73	18.98	12.76
111	2008	20	1745	21.73	28.66	8.72	74.1	25.85	12.72
111	2008	20	1800	21.18	28.93	9.27	55.94	19.03	12.7
111	2008	20	1815	20.98	28.49	8.93	48.22	17.7	12.68
111	2008	20	1830	20.81	30.07	7.98	52.76	19.15	12.66

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	20	1845	20.68	28.6	8.91	50.83	21.42	12.64
111	2008	20	1900	20.52	29.2	8.49	49.48	21.51	12.63
111	2008	20	1915	20.33	28.1	9.35	50.67	20.42	12.62
111	2008	20	1930	20.13	28.8	8.53	53.55	20.26	12.61
111	2008	20	1945	20.07	29.54	9.03	50.57	22.22	12.6
111	2008	20	2000	19.94	29.17	8.61	43.16	20.14	12.59
111	2008	20	2015	19.71	28.6	9.48	53.58	20.77	12.58
111	2008	20	2030	19.51	29.74	8.22	63.67	25.22	12.57
111	2008	20	2045	19.31	31.39	6.096	52.43	19.44	12.56
111	2008	20	2100	19.21	31.66	6.001	49.4	19.99	12.56
111	2008	20	2115	19.14	31.66	6.047	47.48	18.26	12.55
111	2008	20	2130	19.03	31.69	7.96	52.06	24.7	12.53
111	2008	20	2145	18.93	31.66	8.45	43.04	22.54	12.53
111	2008	20	2200	18.79	31.72	9.89	51.99	20.53	12.53
111	2008	20	2215	18.63	33.07	8.96	52.05	19.15	12.52
111	2008	20	2230	18.53	33.23	9.23	48.69	16.9	12.51
111	2008	20	2245	18.38	34.17	9.3	32.68	16.55	12.51
111	2008	20	2300	18.16	35.18	9.16	38.08	20.52	12.51
111	2008	20	2315	17.98	35.14	9.5	44.16	21.16	12.5
111	2008	20	2330	17.86	35.08	9.56	39.5	17.42	12.49
111	2008	20	2345	17.7	34.94	7.97	48.65	18.04	12.47
111	2008	20	2400	17.54	35.08	8	45.77	23.41	12.47
111	2008	21	15	17.49	34.24	9.14	41.52	18.86	12.47
111	2008	21	30	17.39	34.27	8.93	44.83	20.82	12.47
111	2008	21	45	17.26	34	9.84	42.17	16.57	12.45
111	2008	21	100	17.11	34.74	8.69	50.86	18.92	12.45
111	2008	21	115	17.07	35.61	9.28	42.8	21.3	12.44
111	2008	21	130	16.89	36.52	9.22	37.38	17.45	12.44
111	2008	21	145	16.73	37.26	8.57	42.3	24.29	12.43
111	2008	21	200	16.66	37.46	8.61	39.1	22.94	12.42
111	2008	21	215	16.54	38.84	7.6	37.28	19.95	12.42
111	2008	21	230	16.38	39.78	7.34	41.87	24.46	12.4
111	2008	21	245	16.24	40.28	7.12	41.44	17.59	12.4
111	2008	21	300	16.08	41.22	7.76	41.64	21.64	12.39
111	2008	21	315	15.99	41.09	9.57	36.76	21.1	12.38
111	2008	21	330	15.83	43	8.38	35.39	16.94	12.36
111	2008	21	345	15.62	42.87	8.4	38.8	17.04	12.35
111	2008	21	400	15.51	43.67	8.41	39.64	15.91	12.35
111	2008	21	415	15.34	44.14	6.888	44.43	19.54	12.33
111	2008	21	430	15.25	45.42	6.926	35.7	18.59	12.32
111	2008	21	445	15.11	45.45	7.06	36.79	17.29	12.31
111	2008	21	500	14.98	45.52	7.12	38.52	14.37	12.3
111	2008	21	515	14.89	46.09	6.616	39.4	18.65	12.3
111	2008	21	530	14.78	47.2	5.044	41.82	21.54	12.29
111	2008	21	545	14.65	47.13	5.244	37.89	19.67	12.28
111	2008	21	600	14.56	47.33	5.266	37.47	21.16	12.27
111	2008	21	615	14.49	46.73	5.671	44.87	21.42	12.27
111	2008	21	630	14.43	47	4.335	34.98	18.06	12.25
111	2008	21	645	14.34	47.53	4.18	43.72	19.35	12.25
111	2008	21	700	14.34	47.74	5.127	42.45	18.93	12.25
111	2008	21	715	14.34	48.24	5.092	34.48	18.64	12.24
111	2008	21	730	14.32	47.64	5.471	43.76	18.57	12.24
111	2008	21	745	14.3	49.14	4.375	43.02	16.94	12.24
111	2008	21	800	14.28	50.02	4.452	41.73	18.25	12.24
111	2008	21	815	14.23	50.32	4.075	39.89	21.07	12.23
111	2008	21	830	14.34	50.55	4.186	34.65	20.14	12.23
111	2008	21	845	14.67	49.71	4.025	43.76	22.83	12.29
111	2008	21	900	15.19	48.31	4.949	34.35	18.69	13.3
111	2008	21	915	15.61	47.3	6.186	34.77	17.01	14.15
111	2008	21	930	16.07	47.09	6.561	38.95	17.97	14.13

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	21	945	16.43	46.15	7.71	46.14	18.75	14.12
111	2008	21	1000	17	44.03	7.29	43.05	20.52	14.11
111	2008	21	1015	17.41	43.69	7.43	44.89	22.21	14.11
111	2008	21	1030	17.62	41.92	8.33	51.68	19.66	13.41
111	2008	21	1045	17.88	41.08	9.01	40.79	21.68	13.26
111	2008	21	1100	18.47	40.37	8.27	42.6	19.24	14.08
111	2008	21	1115	19.13	37.88	8.7	47.16	21.2	14.06
111	2008	21	1130	19.75	37.25	8.19	38.93	28.16	14.05
111	2008	21	1145	20.02	35.2	8.85	33.25	21.27	14.04
111	2008	21	1200	20.52	33.93	8.7	55.1	23.49	14.03
111	2008	21	1215	20.98	35.4	8.09	52.1	26.6	14.01
111	2008	21	1230	20.46	34.49	9.52	30.15	19.11	14.01
111	2008	21	1245	20.72	33.38	8.73	50.23	19.81	14.01
111	2008	21	1300	21.11	34.86	8.45	44.46	19.31	14.01
111	2008	21	1315	21.62	31.81	7.18	46.62	24.29	14
111	2008	21	1330	21.74	31.64	7.67	36.78	22.6	14
111	2008	21	1345	22.05	31.6	8.29	28.75	24.69	13.99
111	2008	21	1400	22.32	31.6	7.33	45.68	26.45	13.98
111	2008	21	1415	22.79	28.69	7.68	30.72	21.15	13.98
111	2008	21	1430	22.97	28.92	8.2	28.38	21.07	13.98
111	2008	21	1445	23.16	27.95	8.11	34.35	18.56	13.98
111	2008	21	1500	23.67	29.62	7.55	31.01	21.58	13.98
111	2008	21	1515	24.13	26.24	6.35	15.59	29.34	13.97
111	2008	21	1530	24.64	27.92	7.1	12.16	23.25	13.96
111	2008	21	1545	24.34	28.55	6.817	25.54	22.58	13.28
111	2008	21	1600	24.6	27.82	7.13	19.22	25.84	13.97
111	2008	21	1615	24.68	28.32	6.533	41.98	27.59	13.98
111	2008	21	1630	24.79	27.85	7.03	30.7	19.31	13.98
111	2008	21	1645	24.73	26.54	6.682	25.58	16.91	13.08
111	2008	21	1700	24.88	27.58	5.937	36.39	22.04	12.88
111	2008	21	1715	24.86	28.69	6.291	13.27	20.19	12.8
111	2008	21	1730	24.79	30.46	5.651	28.14	20.66	12.77
111	2008	21	1745	24.22	38.34	5.727	349.8	22.67	12.74
111	2008	21	1800	23.67	38.21	6.781	347.9	20.62	12.72
111	2008	21	1815	23.45	37.87	6.104	1.313	18.95	12.71
111	2008	21	1830	23.3	37.54	4.935	356.8	17.19	12.69
111	2008	21	1845	23.31	38.85	4.802	0.192	20.34	12.66
111	2008	21	1900	23.18	38.22	3.874	1.241	18.72	12.66
111	2008	21	1915	23.39	36.1	5.435	13.69	17.01	12.65
111	2008	21	1930	23.41	35.97	4.75	22.14	16.96	12.64
111	2008	21	1945	23.43	36.84	4.7	18.75	18.02	12.63
111	2008	21	2000	23.24	36.61	3.775	18.32	18.38	12.62
111	2008	21	2015	23.3	36.71	3.853	25.74	16.58	12.61
111	2008	21	2030	23.21	38.15	3.334	27.01	14.01	12.6
111	2008	21	2045	23.07	37.18	3.513	24.41	12.95	12.59
111	2008	21	2100	23.01	36.88	3.243	37.1	16.72	12.58
111	2008	21	2115	22.93	37.61	3.404	33.07	17.75	12.57
111	2008	21	2130	22.87	37.38	2.955	30.68	20.72	12.57
111	2008	21	2145	22.59	39.53	1.684	14.96	17.53	12.56
111	2008	21	2200	21.88	40.3	0.932	334	26.41	12.56
111	2008	21	2215	21.63	40.64	1.77	42.38	12.08	12.55
111	2008	21	2230	22.11	39.9	2.959	35.78	16.37	12.53
111	2008	21	2245	22.08	40.57	2.01	16.83	15.03	12.53
111	2008	21	2300	21.75	40.98	1.633	44.78	15.21	12.52
111	2008	21	2315	21.67	41.51	1.129	3.424	34.09	12.51
111	2008	21	2330	21.12	44.8	1.394	9.82	27.38	12.51
111	2008	21	2345	21.48	42.69	2.266	19.16	20.68	12.51
111	2008	21	2400	21.07	43.8	1.592	18.63	30.3	12.49
111	2008	22	15	20.86	45.84	1.36	21.58	17.42	12.48
111	2008	22	30	21.04	42.76	2.923	29.2	16.56	12.47

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	22	45	21.8	42.39	3.932	27.31	15.79	12.47
111	2008	22	100	22.06	41.38	4.202	21.26	15.19	12.47
111	2008	22	115	21.89	41.48	3.372	18.02	21.02	12.47
111	2008	22	130	21.68	42.15	2.959	3.705	18.07	12.45
111	2008	22	145	21.43	43.36	1.982	0.253	30.45	12.45
111	2008	22	200	21.12	43.9	2.673	10.01	19.2	12.44
111	2008	22	215	21.54	41.92	3.382	21.85	14.13	12.44
111	2008	22	230	21.83	40.81	3.408	27.56	12.38	12.43
111	2008	22	245	21.73	41.44	3.15	22.27	18.87	12.43
111	2008	22	300	21.73	43.42	2.701	19.38	17.29	12.41
111	2008	22	315	21.15	45.23	1.318	9.13	20.2	12.4
111	2008	22	330	20.81	45.84	2.286	4.438	15.64	12.4
111	2008	22	345	20.68	46.34	1.853	0.744	12.85	12.39
111	2008	22	400	20.14	48.32	0.042	20.16	3.202	12.37
111	2008	22	415	19.54	54.02	na	na	na	12.37
111	2008	22	430	18.87	56.77	na	na	na	12.35
111	2008	22	445	18.63	58.75	0.22	153.5	18.87	12.34
111	2008	22	500	18.24	59.7	0.257	145.8	7.02	12.32
111	2008	22	515	18.24	60.4	0.44	118.5	7.18	12.32
111	2008	22	530	18.02	62.08	na	na	na	12.3
111	2008	22	545	17.72	63.66	na	na	na	12.29
111	2008	22	600	17.57	66.05	1.273	151.8	12.71	12.28
111	2008	22	615	17.76	67.29	0.307	71.2	33.85	12.28
111	2008	22	630	18.12	69.61	0.961	8.64	44.68	12.27
111	2008	22	645	24.1	52.59	3.757	326	25.47	12.27
111	2008	22	700	27.36	46.62	4.685	334.6	21.92	12.27
111	2008	22	715	28.27	46.44	5.167	330.1	28.76	12.28
111	2008	22	730	28.78	47.54	5.115	319.9	25.66	12.28
111	2008	22	745	29.24	50.32	5.268	322.7	24.99	12.3
111	2008	22	800	29.89	52.69	6.271	328.1	21.75	12.3
111	2008	22	815	30.34	55.16	6.819	323.7	24.12	12.3
111	2008	22	830	30.84	56.9	6.062	323	30.51	12.31
111	2008	22	845	31.35	55.23	7.3	318.1	31.49	12.32
111	2008	22	900	31.72	55.43	5.852	324.8	27.5	12.33
111	2008	22	915	32.03	56.8	6.747	315.9	26.12	12.35
111	2008	22	930	32.67	56.36	8.05	326.4	20.58	12.55
111	2008	22	945	33.5	58.54	7.23	328.6	23.56	13.05
111	2008	22	1000	34.59	60	8.61	324.4	22.76	13.36
111	2008	22	1015	34.76	59.2	8.59	326.4	27.58	13.09
111	2008	22	1030	35.36	56.55	8.73	320.8	31.33	13.03
111	2008	22	1045	35.87	56.25	8.55	331.4	27.11	12.99
111	2008	22	1100	36.19	57.39	8.17	336.4	28.45	12.96
111	2008	22	1115	36.61	60.57	8.62	335.1	23.29	12.85
111	2008	22	1130	36.68	63.64	7.96	328.5	23.49	12.75
111	2008	22	1145	36.82	66.46	7.36	339.9	24.41	12.71
111	2008	22	1200	36.29	67.86	6.489	356.4	25.51	12.67
111	2008	22	1215	35.44	69.77	7.23	0.787	21.48	12.65
111	2008	22	1230	34.91	75.8	7.2	357	24.23	12.63
111	2008	22	1245	34.15	81.6	6.892	352.2	22.78	12.59
111	2008	22	1300	33.83	83.3	6.392	353.3	23.17	12.57
111	2008	22	1315	33.82	84.3	6.211	354.5	27.08	12.57
111	2008	22	1330	34.04	84.3	6.15	347	26.26	12.59
111	2008	22	1345	34.19	83.7	5.681	340	28.48	12.53
111	2008	22	1400	34.79	83.3	6.464	345.8	23.24	12.52
111	2008	22	1415	34.95	84.7	8.03	349.2	24.21	12.48
111	2008	22	1430	34.46	84.3	7.74	351.6	22.67	12.48
111	2008	22	1445	34.41	82.8	6.746	350	29.12	12.63
111	2008	22	1500	34.65	79.1	6.712	342.5	24.22	12.63
111	2008	22	1515	35.21	79.4	6.892	348.5	25.59	12.62
111	2008	22	1530	35.41	78.2	7.46	353	19.35	12.51

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	22	1545	35.61	78.2	6.718	343.3	21.73	12.49
111	2008	22	1600	35.79	80.6	6.894	351	23.99	12.47
111	2008	22	1615	35.5	83.4	6.591	347.6	26.26	12.44
111	2008	22	1630	35.17	85.1	6.047	345.9	21.37	12.43
111	2008	22	1645	35.22	85.5	5.999	349.6	20.26	12.43
111	2008	22	1700	35.35	85.3	5.497	346	28.29	12.41
111	2008	22	1715	35.43	86.3	4.391	340.1	24.39	12.41
111	2008	22	1730	35.51	86.8	5.358	345.9	22.94	12.4
111	2008	22	1745	35.72	87.1	5.57	358.2	18.62	12.4
111	2008	22	1800	35.82	88.3	5.141	357.1	17.66	12.39
111	2008	22	1815	35.93	88.9	5.612	348	27.08	12.39
111	2008	22	1830	35.96	89.5	5.288	4.201	20.15	12.39
111	2008	22	1845	36.19	89.7	6.241	348.3	21.64	12.39
111	2008	22	1900	36.41	89.2	7.6	358.8	16.22	12.39
111	2008	22	1915	36.41	89.2	7.28	354.5	18.84	12.39
111	2008	22	1930	36.36	89.2	6.894	352.2	22.44	12.39
111	2008	22	1945	36.35	89	7.04	351.8	18.87	12.38
111	2008	22	2000	36.39	88.5	6.561	359.6	18.81	12.38
111	2008	22	2015	36.52	87.1	6.966	1.417	17.19	12.38
111	2008	22	2030	36.73	85.6	7.74	5.059	17.33	12.38
111	2008	22	2045	36.73	84.9	7.79	5.892	18.9	12.37
111	2008	22	2100	36.74	84.7	7.3	5.246	17.8	12.37
111	2008	22	2115	36.67	84.7	6.736	8.65	14.49	12.37
111	2008	22	2130	36.65	84.4	6.749	2.725	19.42	12.37
111	2008	22	2145	36.52	84.1	4.873	15.63	21.68	12.37
111	2008	22	2200	36.51	81.8	7.08	12.35	18.56	12.37
111	2008	22	2215	36.39	81	6.769	13.96	16.82	12.37
111	2008	22	2230	36.17	81.2	5.834	15.57	17.02	12.37
111	2008	22	2245	36.03	81.3	5.568	4.203	14	12.37
111	2008	22	2300	35.84	81.8	5.453	10.85	12.15	12.37
111	2008	22	2315	35.73	81.4	6.17	13.08	15.34	12.37
111	2008	22	2330	35.69	81.3	5.88	12.9	15.84	12.37
111	2008	22	2345	35.47	81.6	4.49	8.11	15.8	12.36
111	2008	22	2400	35.25	82	4.136	15.33	18.29	12.36
111	2008	23	15	35.09	82.1	4.516	12.46	15.24	12.36
111	2008	23	30	34.88	82.7	4.919	14.58	15.12	12.35
111	2008	23	45	34.84	82.8	4.639	16.01	13.92	12.35
111	2008	23	100	34.76	83	4.593	17.31	14.73	12.35
111	2008	23	115	34.64	83	4.131	13.57	13.23	12.35
111	2008	23	130	34.76	83	3.849	4.601	20.46	12.35
111	2008	23	145	34.94	82.3	3.998	8.65	19.53	12.35
111	2008	23	200	35.11	81.9	4.49	11.5	14.14	12.35
111	2008	23	215	35.2	81.3	4.994	10.67	11.92	12.34
111	2008	23	230	35.25	80.7	4.52	8.12	18.82	12.35
111	2008	23	245	35.2	80.9	3.618	11.4	18.1	12.35
111	2008	23	300	35.18	80.3	3.737	13.33	12.62	12.35
111	2008	23	315	35.05	79.8	4.301	12.81	13.99	12.35
111	2008	23	330	34.92	80.1	3.64	12.92	17.18	12.35
111	2008	23	345	34.93	79	3.676	10.04	21.33	12.34
111	2008	23	400	34.95	78.1	4.009	31.13	15.03	12.34
111	2008	23	415	34.67	78.8	2.983	28.18	13.15	12.33
111	2008	23	430	34.29	78.7	2.915	36.33	15.97	12.33
111	2008	23	445	33.76	79.6	2.576	19.61	17.89	12.34
111	2008	23	500	32.95	81.4	2.443	22.92	20.63	12.33
111	2008	23	515	32.65	82	2.772	29.69	13.74	12.32
111	2008	23	530	32.17	82.8	2.528	42.75	16.75	12.32
111	2008	23	545	32.55	78.1	3.962	54.06	17.11	12.32
111	2008	23	600	32.7	73.2	3.7	62.08	21.41	12.31
111	2008	23	615	32.81	69.13	3.436	62.36	15.69	12.31
111	2008	23	630	33.24	65.14	5.528	71.7	19.7	12.31

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	23	645	33.19	64.1	5.576	75.2	19.02	12.31
111	2008	23	700	32.98	63.16	5.282	73.8	18.4	12.31
111	2008	23	715	32.85	63.57	3.745	59.64	20.23	12.3
111	2008	23	730	32.78	62.49	3.684	51.23	18.47	12.31
111	2008	23	745	32.31	59.75	4.268	52.5	20.18	12.3
111	2008	23	800	31.77	59.91	3.221	50.06	24.62	12.29
111	2008	23	815	31.36	60.72	2.689	38.32	20.74	12.29
111	2008	23	830	31.03	61.69	2.631	40.57	14.6	12.29
111	2008	23	845	30.99	59.95	3.219	39.62	14.89	12.39
111	2008	23	900	31.36	58.75	3.136	53	17.31	12.84
111	2008	23	915	31.79	57.84	3.737	49.04	16.11	13.85
111	2008	23	930	32.24	55.52	3.729	48.93	21.57	13.82
111	2008	23	945	32.61	53.54	4.675	53.22	23.32	13.82
111	2008	23	1000	32.91	50.49	5.389	47.81	21.81	13.8
111	2008	23	1015	33.11	48.95	5.943	54.64	22.54	13.79
111	2008	23	1030	33.7	48.81	5.6	51.53	26.61	13.34
111	2008	23	1045	33.6	50.08	6.386	47.57	19.62	13.05
111	2008	23	1100	34.39	48.57	6.519	65.27	22.53	13.78
111	2008	23	1115	34.66	47.43	5.945	55.33	29.28	13.77
111	2008	23	1130	34.91	46.15	7.4	36.2	19.6	13.76
111	2008	23	1145	35.14	46.35	7.15	37.95	18.94	13.74
111	2008	23	1200	35.43	41.96	7.17	46.98	27.68	13.74
111	2008	23	1215	35.92	39.99	6.712	49.27	21.97	13.73
111	2008	23	1230	36.11	39.08	5.828	64.29	31.24	13.73
111	2008	23	1245	36.53	35.1	5.925	57.9	26.57	13.71
111	2008	23	1300	36.88	34.56	7.57	29.07	19.65	13.71
111	2008	23	1315	37.17	33.09	7.47	43.5	20.77	13.71
111	2008	23	1330	37.38	31.64	8.49	46.88	21.82	13.7
111	2008	23	1345	38.04	31.04	7.14	25.36	21.85	13.71
111	2008	23	1400	38.52	28.33	8.75	21.87	25.02	13.71
111	2008	23	1415	38.7	25.18	9.33	27.81	23.29	13.7
111	2008	23	1430	39.48	23.27	7.24	27.78	24.89	13.71
111	2008	23	1445	39.51	22.27	8.47	28.91	21.47	13.71
111	2008	23	1500	39.97	22.57	7.68	38.7	22.83	13.71
111	2008	23	1515	39.9	23.84	7.91	36.45	23.22	13.71
111	2008	23	1530	39.91	22.47	7.82	50.86	24.01	13.71
111	2008	23	1545	39.74	22.57	8.1	46.52	20.79	13.16
111	2008	23	1600	39.88	21.86	7.14	41.04	26.87	13.72
111	2008	23	1615	39.66	23.97	8.13	43.51	23.86	13.73
111	2008	23	1630	39.65	22.74	6.98	42.59	17.86	13.35
111	2008	23	1645	39.25	22.1	8.37	43.37	22.07	13.05
111	2008	23	1700	38.97	23.1	7.11	42.03	18.83	12.89
111	2008	23	1715	38.67	22.77	7.51	43.83	19.23	12.84
111	2008	23	1730	38.46	23.01	4.804	46.79	22.42	12.81
111	2008	23	1745	37.98	24.18	6.092	44.77	21.66	12.79
111	2008	23	1800	37.32	25.25	4.899	40.37	16.89	12.77
111	2008	23	1815	36.72	26.22	4.526	40.5	16.75	12.75
111	2008	23	1830	36.27	26.83	4.847	34.94	15.75	12.73
111	2008	23	1845	36.03	24.92	5.707	43.12	16.37	12.72
111	2008	23	1900	35.79	25.19	5.097	48.9	17.53	12.72
111	2008	23	1915	35.37	25.56	5.467	52.77	23.21	12.7
111	2008	23	1930	34.96	27.47	4.76	46.08	20.54	12.69
111	2008	23	1945	34.47	27.04	4.168	40.1	18.99	12.68
111	2008	23	2000	34.02	29.18	3.223	30.5	11.62	12.67
111	2008	23	2015	33.3	30.08	2.282	23.23	18.17	12.66
111	2008	23	2030	32.14	33.37	0.901	340.2	11.95	12.65
111	2008	23	2045	30.49	44	0.841	53.98	7.11	12.64
111	2008	23	2100	29.11	48.19	1.267	39.17	9.41	12.63
111	2008	23	2115	28.29	46.98	1.584	31.19	5.998	12.62
111	2008	23	2130	28.93	40.52	1.845	46.54	17.29	12.61

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	23	2145	29.78	38.48	2.276	66.24	10.32	12.6
111	2008	23	2200	29.67	41.02	2.197	47.12	14.03	12.59
111	2008	23	2215	29.67	39.08	2.143	44.75	14.3	12.59
111	2008	23	2230	29.67	36.13	2.675	53.19	17	12.58
111	2008	23	2245	29.95	35.33	2.945	52.47	17.35	12.58
111	2008	23	2300	29.81	33.58	3.134	56.54	14.92	12.57
111	2008	23	2315	29.82	32.54	3.682	53.39	15.96	12.57
111	2008	23	2330	29.73	33.25	3.688	39.46	16.66	12.56
111	2008	23	2345	29.5	33.68	2.905	49.29	20.05	12.56
111	2008	23	2400	29.1	34.79	2.592	44.66	15.57	12.56
111	2008	24	15	28.71	35.86	3.12	32.86	20.12	12.56
111	2008	24	30	28.56	34.46	3.283	41.45	17.32	12.56
111	2008	24	45	28.61	34.09	3.481	45.14	20.23	12.55
111	2008	24	100	28.28	34.99	2.802	61.16	18.44	12.54
111	2008	24	115	27.8	36.83	2.203	81.3	19.27	12.55
111	2008	24	130	27.11	40.96	0.764	83.7	21.93	12.53
111	2008	24	145	26.11	43.74	1.338	5.203	31.38	12.53
111	2008	24	200	25.03	49.14	0.612	354.5	14.52	12.52
111	2008	24	215	24.06	53.74	0.845	348.9	36.72	12.52
111	2008	24	230	23.49	55.21	0.193	79.8	9.06	12.51
111	2008	24	245	23.34	57.06	1.651	128.5	16.97	12.5
111	2008	24	300	23.06	58.2	0.174	109.5	7.57	12.5
111	2008	24	315	22.24	63.67	0.989	348.6	20	12.49
111	2008	24	330	21.88	64.45	1.752	4.88	20.82	12.49
111	2008	24	345	21.78	64.61	1.396	21.57	17.99	12.48
111	2008	24	400	21.88	66.39	1.436	19.34	9.09	12.48
111	2008	24	415	22.38	62.51	1.813	12.93	11.19	12.47
111	2008	24	430	22.43	59.25	1.149	2.726	11.6	12.47
111	2008	24	445	22.76	53.28	2.034	28.59	16.64	12.47
111	2008	24	500	24.22	48.93	2.987	36.57	11.73	12.47
111	2008	24	515	24.25	49.83	2.234	26.77	15.04	12.47
111	2008	24	530	23.26	57.11	1.682	27.88	7.54	12.46
111	2008	24	545	22.17	61.39	0.693	33.75	9.6	12.45
111	2008	24	600	21.4	61.67	0.778	96.5	16.84	12.45
111	2008	24	615	21.18	63.07	0.252	111.9	6.446	12.45
111	2008	24	630	20.95	64.02	0.513	120.9	13.62	12.44
111	2008	24	645	20.7	65.56	0.902	103.1	17.2	12.44
111	2008	24	700	20.44	66.03	0.419	44.59	31.08	12.44
111	2008	24	715	19.89	67.4	0.281	94.8	10.06	12.43
111	2008	24	730	21.13	68.78	1.463	24.14	15.06	12.43
111	2008	24	745	20.56	68.88	0.408	69.13	6.358	12.43
111	2008	24	800	19.72	70.9	0.628	19.31	9.92	12.43
111	2008	24	815	19.34	72.4	0.975	55.76	18.76	12.43
111	2008	24	830	19.84	71.5	0.39	33.08	31.34	12.42
111	2008	24	845	19.9	71.5	0.29	7.45	9.91	12.47
111	2008	24	900	20.75	70.1	0.545	56.06	17.05	12.53
111	2008	24	915	21.86	69.79	0.247	16.09	15.17	13.66
111	2008	24	930	24.02	57.11	1.858	76.8	18.44	14.1
111	2008	24	945	26.15	51.5	2.753	96.1	20.42	14.07
111	2008	24	1000	27.86	48.51	2.232	100.8	25.6	14.02
111	2008	24	1015	28.88	47.73	2.882	108.4	32	14
111	2008	24	1030	28.93	47.36	3.501	126.7	28.83	13.99
111	2008	24	1045	29.52	47.82	3.823	126.4	23.59	13.98
111	2008	24	1100	30.03	45.47	4.488	133.3	30.68	13.95
111	2008	24	1115	30.29	43.03	3.656	110.8	39.19	13.94
111	2008	24	1130	30.43	42.99	3.954	124.7	30.4	13.92
111	2008	24	1145	30.77	43.02	3.177	117.4	53.32	13.91
111	2008	24	1200	30.84	44.39	2.953	95.1	42.7	13.91
111	2008	24	1215	31.17	43.08	3.102	153.7	52.44	13.89
111	2008	24	1230	31.25	42.95	2.899	134.7	43.56	13.89

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	24	1245	31.43	42.24	3.241	127.4	44.82	13.88
111	2008	24	1300	31.94	40.64	3.132	102.6	35.76	13.87
111	2008	24	1315	31.9	39.33	4.031	91.7	32.31	13.87
111	2008	24	1330	32.17	39.1	4.827	123.7	31.66	13.87
111	2008	24	1345	32.37	37.96	4.51	126.6	32.85	13.85
111	2008	24	1400	32.16	36.65	5.475	109	31.88	13.86
111	2008	24	1415	31.82	37.79	5.687	112.7	31.18	13.87
111	2008	24	1430	31.36	38.86	6.299	118.7	28.13	13.42
111	2008	24	1445	31.08	40.03	5.649	117	29.15	13.39
111	2008	24	1500	31.05	39.97	4.99	106.6	26.19	13.3
111	2008	24	1515	31.03	40.13	4.532	130.5	28.32	13.19
111	2008	24	1530	31.07	39.93	3.396	106.6	27.61	13.03
111	2008	24	1545	30.64	44.82	3.652	61.58	39.21	12.95
111	2008	24	1600	29.97	52.63	4.526	86.4	32.31	12.93
111	2008	24	1615	29.58	54.47	4.955	95.2	26.46	12.91
111	2008	24	1630	29.27	55.34	5.185	85.1	23.98	12.83
111	2008	24	1645	29.36	55.85	5.755	97.3	22.95	12.77
111	2008	24	1700	29.25	56.22	3.644	85.4	29.05	12.74
111	2008	24	1715	29.29	55.09	3.708	94.6	34.25	12.71
111	2008	24	1730	29.67	52.88	5.55	100	29.08	12.71
111	2008	24	1745	29.63	53.95	5.119	89.9	24.92	12.7
111	2008	24	1800	29.57	53.75	4.686	74.5	21.01	12.68
111	2008	24	1815	29.43	55.76	5.302	75.3	27.08	12.67
111	2008	24	1830	29.21	55.39	5.254	98.7	26.42	12.66
111	2008	24	1845	29.31	55.42	3.656	73.6	22.82	12.65
111	2008	24	1900	29.43	55.42	3.793	89.9	26.57	12.65
111	2008	24	1915	29.36	56.06	4.18	86.3	25.33	12.64
111	2008	24	1930	29.31	56.1	4.105	79.8	24.38	12.63
111	2008	24	1945	29.29	56.23	4.226	76.9	20.4	12.62
111	2008	24	2000	29.27	56.27	3.91	84.5	20.92	12.61
111	2008	24	2015	29.28	56.03	3.982	81.6	25.18	12.61
111	2008	24	2030	29.33	56.23	3.787	85.6	22.32	12.61
111	2008	24	2045	29.4	56.27	4.549	86.7	24.83	12.6
111	2008	24	2100	29.44	56.3	4.462	92.3	20.9	12.6
111	2008	24	2115	29.51	56.03	6.011	96.1	27.47	12.58
111	2008	24	2130	29.38	55.79	6.124	99.2	23.44	12.58
111	2008	24	2145	29.09	55.66	6.517	100.8	31.69	12.58
111	2008	24	2200	28.76	50.67	8.87	107.8	25.14	12.57
111	2008	24	2215	28.17	54.49	8.17	109.8	25.89	12.57
111	2008	24	2230	27.58	51.04	9.81	106.7	25.01	12.56
111	2008	24	2245	26.69	48.29	8.53	101.4	22.44	12.55
111	2008	24	2300	26.08	47.29	9.98	113.5	25.94	12.54
111	2008	24	2315	25.6	47.83	8.61	100.6	24.81	12.54
111	2008	24	2330	25.26	46.78	9.61	108	27.21	12.53
111	2008	24	2345	24.97	45.95	8.55	103.6	28.02	12.52
111	2008	24	2400	24.58	46.52	9.18	104.9	24.9	12.51
111	2008	25	15	24.24	47.63	8.43	104.9	27.52	12.5
111	2008	25	30	23.97	48.61	7.33	105.2	28.62	12.49
111	2008	25	45	23.77	47.84	8.17	104.4	25.66	12.49
111	2008	25	100	23.55	47.23	9.12	105.5	22.2	12.48
111	2008	25	115	23.31	49.48	7.29	105.1	22.99	12.47
111	2008	25	130	23.07	50.28	6.194	96.1	23.78	12.46
111	2008	25	145	22.89	49.92	7.37	100.3	22.61	12.46
111	2008	25	200	22.72	50.32	7.12	101.2	26.72	12.45
111	2008	25	215	22.52	51.73	7.33	97.5	23.08	12.45
111	2008	25	230	22.28	53.07	6.543	97.2	21.76	12.44
111	2008	25	245	22	54.04	6.255	92.7	26.47	12.44
111	2008	25	300	21.7	52.53	5.443	96	25.82	12.44
111	2008	25	315	21.57	52.03	4.947	86.8	25.22	12.43
111	2008	25	330	21.41	52.37	5.115	78.3	22.23	12.42

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	25	345	21.35	50.43	6.041	73.7	15.67	12.42
111	2008	25	400	21.28	50.5	4.885	82.6	23.07	12.42
111	2008	25	415	21.2	50.7	5.262	77.7	23.25	12.41
111	2008	25	430	21.1	51.81	4.081	65.99	22.7	12.41
111	2008	25	445	20.9	53.28	3.38	57.54	24.64	12.41
111	2008	25	500	20.71	54.05	4.637	72.5	25.38	12.4
111	2008	25	515	20.93	54.29	5.941	81.1	24.2	12.4
111	2008	25	530	20.82	54.93	5.445	79.6	24.63	12.4
111	2008	25	545	20.67	55.49	4.643	78.9	24.68	12.4
111	2008	25	600	20.5	55.3	5.058	77	21.82	12.4
111	2008	25	615	20.37	56.04	4.101	84.5	20.5	12.4
111	2008	25	630	20.08	57.27	3.457	55.25	18.81	12.39
111	2008	25	645	19.92	58.89	2.784	46.28	17.65	12.39
111	2008	25	700	20.33	59.79	2.637	30.62	15.12	12.38
111	2008	25	715	20.73	58.32	3.479	33.84	14.74	12.37
111	2008	25	730	20.14	59.22	2.88	35.82	18.4	12.37
111	2008	25	745	19.64	59.36	3.249	32.4	14.16	12.37
111	2008	25	800	19.58	58.75	3.72	35.57	16.86	12.37
111	2008	25	815	19.77	58.52	3.654	32.61	25.15	12.37
111	2008	25	830	19.9	58.99	3.761	40.4	19.2	12.36
111	2008	25	845	20.41	58.58	3.998	37.42	19.93	12.71
111	2008	25	900	20.88	57.98	3.225	27.38	20.39	13.18
111	2008	25	915	21.44	57.24	4.385	53.52	23.38	14.07
111	2008	25	930	22.27	55.22	4.061	44.98	31.42	14.05
111	2008	25	945	22.89	53.07	6.364	37.59	25.88	14.04
111	2008	25	1000	23.39	51.02	6.07	52.2	25.29	14.02
111	2008	25	1015	23.79	49.51	8.08	50.16	21.02	14
111	2008	25	1030	24.36	47.36	8.19	50.7	25.29	13.98
111	2008	25	1045	24.82	45.55	6.896	46.6	29.05	13.22
111	2008	25	1100	25.63	44.2	6.575	55.2	27.2	13.97
111	2008	25	1115	25.58	43.83	8.87	50.74	20.15	13.95
111	2008	25	1130	25.94	41.96	9.15	50.63	24.73	13.95
111	2008	25	1145	26.37	39.34	8.42	55.34	26.61	13.94
111	2008	25	1200	26.45	41.02	9.57	48.91	24.89	13.92
111	2008	25	1215	26.83	38.7	8.19	47.76	27.73	13.92
111	2008	25	1230	27.49	36.59	9.3	38.94	20.37	13.91
111	2008	25	1245	27.98	33.4	8.26	40.02	24.33	13.9
111	2008	25	1300	28.64	33.1	7.94	57.12	27.01	13.89
111	2008	25	1315	29.05	32.93	7.95	44.41	27.52	13.88
111	2008	25	1330	29.02	33.9	9.21	39.02	19.54	13.88
111	2008	25	1345	29.26	32.8	8.61	43.27	20.02	13.87
111	2008	25	1400	29.87	34.17	7.08	43.74	24.79	13.87
111	2008	25	1415	30.04	31.66	8.43	39.63	20.38	13.86
111	2008	25	1430	30.55	31.69	8.69	54.93	22.17	13.86
111	2008	25	1445	30.67	31.73	9.08	36.77	24.97	13.86
111	2008	25	1500	31.08	33.17	7.99	26.77	26.69	13.85
111	2008	25	1515	31.11	32.66	8.86	20.72	22.01	13.85
111	2008	25	1530	31.25	31.83	8.49	30.89	20.33	13.85
111	2008	25	1545	31.68	31.69	7.5	50.39	21.08	13.2
111	2008	25	1600	31.76	33.03	9.31	25.17	18.85	13.86
111	2008	25	1615	31.78	31.36	8.27	28.77	23.5	13.85
111	2008	25	1630	31.99	31.72	8.97	34.86	16.9	13.86
111	2008	25	1645	31.9	31.56	7.31	32.1	18.24	13.1
111	2008	25	1700	31.79	30.65	8.51	32.31	21.84	12.9
111	2008	25	1715	31.71	31.49	7.84	32.58	20.85	12.82
111	2008	25	1730	31.53	31.83	7.2	31.89	19.95	12.78
111	2008	25	1745	31.26	31.76	8.04	39.99	17.38	12.76
111	2008	25	1800	31.01	32.03	7.59	41.19	17.51	12.73
111	2008	25	1815	30.63	33.54	6.293	31.19	17.39	12.72
111	2008	25	1830	30.44	34.34	6.475	31.59	14.6	12.7

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	25	1845	30.34	35.89	5.34	29.79	14.87	12.68
111	2008	25	1900	30.05	34.65	5.27	33.81	14.41	12.67
111	2008	25	1915	30.08	35.25	5.763	35.07	14.45	12.66
111	2008	25	1930	29.91	35.22	5.689	32.54	17.84	12.65
111	2008	25	1945	29.84	35.15	5.848	28.89	14.9	12.64
111	2008	25	2000	29.66	34.62	5.512	24.16	19.58	12.63
111	2008	25	2015	29.63	35.19	5.51	28.28	19.07	12.62
111	2008	25	2030	29.48	34.85	4.696	31.18	16.85	12.61
111	2008	25	2045	29.21	36.09	3.96	17.7	19.74	12.61
111	2008	25	2100	28.83	35.52	3.432	14.93	25.93	12.6
111	2008	25	2115	28.56	37.47	2.92	349.3	26.6	12.6
111	2008	25	2130	28.29	37.33	4.152	10.63	19.41	12.58
111	2008	25	2145	28.34	37.13	4.681	12.63	16.06	12.58
111	2008	25	2200	28.22	37.33	4.79	11.65	17.96	12.57
111	2008	25	2215	27.89	37.14	4.202	1.428	17.33	12.57
111	2008	25	2230	27.64	36.57	4.148	4.926	15.88	12.56
111	2008	25	2245	27.46	36.1	3.809	9.89	15.06	12.56
111	2008	25	2300	27.56	36.43	4.518	16.73	17.97	12.55
111	2008	25	2315	27.52	34.99	4.976	20.91	14.82	12.54
111	2008	25	2330	27.3	34.22	4.345	21.99	12.16	12.54
111	2008	25	2345	27.03	35.8	3.791	20.78	14.34	12.53
111	2008	25	2400	26.59	35.83	3.309	16.18	16.63	12.52
111	2008	26	15	26.38	35.4	3.001	25.28	17.86	12.51
111	2008	26	30	26.05	36.47	2.538	24.84	17.91	12.51
111	2008	26	45	25.85	36.84	3.332	30.47	14.22	12.5
111	2008	26	100	25.58	39.42	3.342	15.51	15.08	12.5
111	2008	26	115	25.13	39.02	3.011	19.87	15.1	12.49
111	2008	26	130	25.12	39.46	3.626	17.82	13.65	12.49
111	2008	26	145	25.18	39.05	3.567	30.96	19.63	12.47
111	2008	26	200	24.85	38.18	3.408	26.23	19.08	12.47
111	2008	26	215	24.99	38.75	3.851	35.2	16.68	12.47
111	2008	26	230	24.94	39.99	3.594	30.91	21.4	12.46
111	2008	26	245	24.34	41.17	1.853	17.53	24.89	12.46
111	2008	26	300	24.16	40.13	1.6	23.74	33.01	12.45
111	2008	26	315	24.19	41.67	2.802	16.96	18.18	12.45
111	2008	26	330	23.55	41.94	1.919	24.08	24.12	12.44
111	2008	26	345	23.28	45.16	2.201	19.52	16.65	12.43
111	2008	26	400	22.76	45.46	2.528	27.48	30.35	12.42
111	2008	26	415	22.6	46.54	2.417	18.83	13.91	12.42
111	2008	26	430	22.61	45.4	1.792	21.37	33.88	12.41
111	2008	26	445	23.03	44.53	2.204	45.38	24.97	12.41
111	2008	26	500	23.42	43.86	2.175	27.98	23.49	12.4
111	2008	26	515	23.57	43.48	2.363	35.27	18.36	12.4
111	2008	26	530	23.75	44.22	1.834	31.81	14.54	12.39
111	2008	26	545	23.75	43.62	2.445	26.06	11.52	12.4
111	2008	26	600	23.99	41.94	2.721	33.84	14.79	12.4
111	2008	26	615	24.22	42.64	3.312	27	17.79	12.39
111	2008	26	630	24.38	41.8	3.092	36.67	15.12	12.4
111	2008	26	645	24.55	41.23	3.759	27.16	12.36	12.39
111	2008	26	700	24.72	40.43	3.08	50.22	26.45	12.39
111	2008	26	715	24.78	40.49	2.485	76.6	24.58	12.39
111	2008	26	730	24.74	40.36	3.07	34.95	17.89	12.39
111	2008	26	745	24.74	41.57	3.626	25.75	14.65	12.39
111	2008	26	800	24.78	41.03	2.671	38.06	19.18	12.38
111	2008	26	815	24.86	41.07	2.268	51.76	22.05	12.38
111	2008	26	830	24.94	41.13	1.688	79.9	16.73	12.37
111	2008	26	845	24.99	41.16	1.899	49.51	32.13	12.38
111	2008	26	900	25.09	41.6	2.562	47.71	19.51	12.38
111	2008	26	915	25.18	40.59	3.31	28.97	18.63	12.41
111	2008	26	930	25.37	39.45	3.191	49.84	23.49	12.45

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	26	945	25.74	39.12	3.229	63.91	24.11	12.8
111	2008	26	1000	26.14	38.31	3.064	41.01	21.71	13.81
111	2008	26	1015	26.65	38.51	3.376	38.59	26.71	13.41
111	2008	26	1030	27.28	36.56	2.669	59.07	36.79	13.93
111	2008	26	1045	27.49	35.32	2.415	62.89	40.75	13.92
111	2008	26	1100	28.43	34.85	2.685	49.37	41.91	13.9
111	2008	26	1115	29.09	33.98	1.706	149.7	69.33	13.89
111	2008	26	1130	29.93	34.57	1.586	118.8	64.72	13.89
111	2008	26	1145	29.75	36.05	2.639	100.4	45.53	13.87
111	2008	26	1200	30.57	35.88	1.706	136.9	46.82	13.86
111	2008	26	1215	30.74	35.91	2.153	234.2	61.57	13.85
111	2008	26	1230	31.32	36.25	2.989	233.1	61.9	13.84
111	2008	26	1245	30.82	36.18	3.581	301.6	32.17	13.83
111	2008	26	1300	30.91	36.55	3.845	279.5	32.16	13.83
111	2008	26	1315	31.16	36.68	4.295	288	29.16	13.83
111	2008	26	1330	31.57	34.74	4.41	286.7	35.03	13.82
111	2008	26	1345	31.46	37.88	4.671	255.3	26.23	13.81
111	2008	26	1400	31.05	37.58	4.542	262.2	28.21	13.81
111	2008	26	1415	30.55	40.63	5.165	277.7	21.58	13.82
111	2008	26	1430	30.38	42.98	4.091	278.7	26.57	13.84
111	2008	26	1445	30.1	44.25	5.002	295.5	27.76	13.85
111	2008	26	1500	29.92	44.25	4.631	284.3	30.29	13.17
111	2008	26	1515	29.69	44.99	4.363	284.6	26.62	13.19
111	2008	26	1530	29.97	45.76	4.911	297.1	29.3	13.88
111	2008	26	1545	30.21	46.8	4.514	289	34.76	13.87
111	2008	26	1600	30.36	46.03	4.228	300.3	26.61	13.88
111	2008	26	1615	30.62	45.43	3.448	285.1	37.25	13.87
111	2008	26	1630	30.66	46.4	3.628	271.8	28.6	13.14
111	2008	26	1645	30.23	47.77	3.664	271.8	32.55	13.01
111	2008	26	1700	29.98	47.91	3.215	267.6	34.24	12.88
111	2008	26	1715	29.74	49.58	3.372	270.8	23.86	12.8
111	2008	26	1730	29.59	49.38	2.785	265.8	26.83	12.76
111	2008	26	1745	29.57	50.52	2.643	272.4	26.82	12.73
111	2008	26	1800	29.51	50.8	2.848	269	25.39	12.71
111	2008	26	1815	29.32	51.84	1.804	288.7	26.62	12.7
111	2008	26	1830	29.23	52.24	1.141	291.5	24.78	12.69
111	2008	26	1845	29.27	52.17	1.672	265	22.82	12.67
111	2008	26	1900	29.2	53.58	0.953	266.7	19.68	12.66
111	2008	26	1915	29.19	54.79	2.205	230.5	28.29	12.65
111	2008	26	1930	29.42	54.86	2.475	205.5	23.6	12.65
111	2008	26	1945	29.41	54.72	1.242	224.2	23.95	12.63
111	2008	26	2000	29.29	55.66	1.396	198.1	27.15	12.63
111	2008	26	2015	29.04	55.97	1.947	186.2	29.15	12.62
111	2008	26	2030	28.99	56.33	2.028	201.9	27.22	12.62
111	2008	26	2045	29.06	57.61	1.833	162.8	28.81	12.61
111	2008	26	2100	28.91	58.48	2.332	163.1	25.95	12.61
111	2008	26	2115	29.1	57.91	1.952	165.6	25.92	12.6
111	2008	26	2130	29.13	58.75	1.628	147.6	23.63	12.6
111	2008	26	2145	29.06	58.91	2.205	127.3	19.84	12.59
111	2008	26	2200	29.2	58.08	2.453	116.6	23.62	12.58
111	2008	26	2215	29.11	58.11	2.526	122.2	19.39	12.58
111	2008	26	2230	29.09	58.81	1.784	127.2	28.74	12.57
111	2008	26	2245	29.03	59.08	1.328	120.7	23.31	12.57
111	2008	26	2300	29.16	59.05	1.569	125.3	26.96	12.57
111	2008	26	2315	29.13	59.25	2.566	134.3	26.46	12.57
111	2008	26	2330	28.93	59.78	2.469	141.5	26.81	12.55
111	2008	26	2345	28.74	59.95	2.294	144.4	23.85	12.56
111	2008	26	2400	28.75	60.02	2.259	125.2	26.83	12.55
111	2008	27	15	28.71	60.49	2.199	131.3	28.9	12.54
111	2008	27	30	28.6	61.06	2.828	149.8	24.19	12.54

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	27	45	28.58	61.09	3.241	145.9	25.72	12.53
111	2008	27	100	28.58	61.29	3.583	148.4	22.81	12.53
111	2008	27	115	28.54	61.29	3.483	150.2	22.96	12.52
111	2008	27	130	28.46	61.59	3.745	148.9	30.73	12.51
111	2008	27	145	28.47	61.73	3.692	158.3	25.76	12.52
111	2008	27	200	28.42	62.63	3.277	144.5	30.39	12.51
111	2008	27	215	28.41	63.47	3.851	161	23.71	12.5
111	2008	27	230	28.51	64.31	3.471	161.5	19.77	12.5
111	2008	27	245	28.81	64.71	4.043	166.7	24.27	12.49
111	2008	27	300	29.11	64.98	4.166	160.6	24.27	12.49
111	2008	27	315	29.31	65.52	3.586	158.1	30.97	12.49
111	2008	27	330	29.52	65.68	3.731	166.6	21.2	12.48
111	2008	27	345	29.8	65.65	3.483	159.8	25.84	12.48
111	2008	27	400	29.97	65.35	4.347	163.1	24.41	12.48
111	2008	27	415	30.11	64.61	4.242	160.4	25.57	12.47
111	2008	27	430	30.16	64.1	4.589	176.7	24.35	12.46
111	2008	27	445	30.18	63.63	4.492	170.1	21.8	12.47
111	2008	27	500	30.31	63.66	3.829	156	25.32	12.45
111	2008	27	515	30.45	63.94	3.964	156.4	29.41	12.45
111	2008	27	530	30.52	64.71	4.367	151.2	27.7	12.45
111	2008	27	545	30.63	64.5	4.27	150	26.57	12.44
111	2008	27	600	30.76	64.34	4.168	151.1	26.55	12.44
111	2008	27	615	30.9	65.54	3.682	150.9	28.7	12.44
111	2008	27	630	30.9	68.86	4.194	147.2	26.53	12.44
111	2008	27	645	30.88	71.5	5.602	149.6	30.4	12.43
111	2008	27	700	30.76	72.9	5.36	151.2	30.59	12.42
111	2008	27	715	30.68	74.3	4.829	145	35.64	12.43
111	2008	27	730	30.55	75.1	5.663	144.6	30.64	12.42
111	2008	27	745	30.41	75.7	5.522	141.5	27.5	12.42
111	2008	27	800	30.36	76	4.728	135.5	29.57	12.41
111	2008	27	815	30.31	76.2	4.456	133.9	27.12	12.41
111	2008	27	830	30.32	75.8	5.09	129.7	24.33	12.41
111	2008	27	845	30.3	75.5	4.996	125.9	27.13	12.41
111	2008	27	900	30.26	75.4	4.472	129.8	34.77	12.41
111	2008	27	915	30.23	74.4	5.006	131.5	31.96	12.4
111	2008	27	930	30.29	73	6.124	144.8	23.72	12.41
111	2008	27	945	30.56	71.9	5.745	146.8	35.3	12.42
111	2008	27	1000	30.76	71.9	5.03	131	28.97	12.45
111	2008	27	1015	30.66	71.5	5.767	140.3	31.91	12.5
111	2008	27	1030	30.72	71	5.852	148	28.36	12.56
111	2008	27	1045	30.89	70.2	5.103	149.3	26.52	12.63
111	2008	27	1100	30.89	69.15	6.767	139.9	35.56	12.79
111	2008	27	1115	31.22	68.18	6.789	135.1	30.56	13
111	2008	27	1130	31.73	66.77	5.83	136.1	36.15	13.36
111	2008	27	1145	32.21	65.36	5.828	147.1	41.97	13.85
111	2008	27	1200	32.53	64.82	6.622	138	31.02	13.83
111	2008	27	1215	32.62	65.16	6.44	136.4	24.78	13.82
111	2008	27	1230	33.01	63.85	5.989	131.3	30.82	13.81
111	2008	27	1245	33.93	62.41	5.719	133.7	35.1	13.81
111	2008	27	1300	34.63	61.1	6.497	125.8	26.8	13.79
111	2008	27	1315	35	61.76	8.17	122.7	31.34	13.78
111	2008	27	1330	35.17	61.29	7.61	112.4	26.75	13.78
111	2008	27	1345	35.62	59.18	7.5	138.9	32.96	13.76
111	2008	27	1400	35.98	57.8	7.6	149.4	31.79	13.77
111	2008	27	1415	35.92	57.9	8.08	109.8	28.25	13.75
111	2008	27	1430	36.45	53.95	7.08	123	31.02	13.75
111	2008	27	1445	36.12	54.45	8.22	118.6	25.13	13.76
111	2008	27	1500	37.02	51.61	6.529	129.4	34.1	13.77
111	2008	27	1515	37.54	51.14	7.55	116.5	33.18	13.75
111	2008	27	1530	37.67	52.81	7.31	118.2	29.45	13.2

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	27	1545	36.63	55.29	6.92	132.4	27.17	13.07
111	2008	27	1600	36.12	56.97	6.259	123.9	32.02	12.89
111	2008	27	1615	35.43	60.28	6.994	145.2	31.83	12.82
111	2008	27	1630	34.88	60.31	6.398	140.4	27.58	12.79
111	2008	27	1645	34.69	65.38	7.25	148.5	32.99	12.76
111	2008	27	1700	33.49	71.4	6.906	143.4	22.88	12.75
111	2008	27	1715	32.47	77.6	6.869	143.9	27.6	12.72
111	2008	27	1730	32.04	76.8	6.978	125.8	33.4	12.71
111	2008	27	1745	32.35	72.3	6.994	127.6	32.05	12.69
111	2008	27	1800	32.88	69.92	6.96	118.4	34.21	12.68
111	2008	27	1815	33.08	69.08	6.088	131.3	30	12.67
111	2008	27	1830	33.05	68.51	6.944	124.5	31	12.67
111	2008	27	1845	32.96	68.78	6.966	130.3	22.95	12.66
111	2008	27	1900	32.79	69.01	6.652	130.8	36.8	12.65
111	2008	27	1915	32.46	69.72	7.68	125.5	29.42	12.64
111	2008	27	1930	32.31	70.2	7.13	124.5	27.93	12.63
111	2008	27	1945	32.3	69.92	6.384	123.6	33	12.63
111	2008	27	2000	32.27	69.51	6.166	124.2	35.13	12.62
111	2008	27	2015	32.29	69.55	6.583	124.4	30.61	12.61
111	2008	27	2030	32.3	68.38	7.43	125.5	30.09	12.61
111	2008	27	2045	32.24	68.11	7.5	124	30.13	12.61
111	2008	27	2100	32.15	68.17	7.73	130.6	36.1	12.6
111	2008	27	2115	32.05	67	8.04	136.5	25.94	12.59
111	2008	27	2130	31.89	66.16	6.537	137	35.58	12.58
111	2008	27	2145	31.72	64.96	9.3	127	31.95	12.58
111	2008	27	2200	31.32	65.53	7.09	133.1	31.07	12.57
111	2008	27	2215	31.28	64.66	6.742	125.5	35.27	12.56
111	2008	27	2230	31.28	64.96	6.742	126.9	25.28	12.55
111	2008	27	2245	31.24	63.59	7.55	130.1	30.4	12.55
111	2008	27	2300	30.99	62.99	8.03	127.9	35.24	12.55
111	2008	27	2315	30.56	63.32	7.52	125.3	24.9	12.54
111	2008	27	2330	30.21	63.6	6.46	116.7	28.79	12.52
111	2008	27	2345	29.98	64.14	7.2	123.5	31.43	12.51
111	2008	27	2400	29.66	64.24	7.35	134.5	30.53	12.51
111	2008	28	15	29.37	65.25	6.215	126.3	32.27	12.5
111	2008	28	30	29.03	66.55	5.33	131.9	32.33	12.5
111	2008	28	45	28.78	67.26	5.191	116.6	30.53	12.49
111	2008	28	100	28.7	67.76	5.461	117.5	26.83	12.47
111	2008	28	115	28.68	66.35	5.548	110.1	27.17	12.46
111	2008	28	130	28.82	65.82	6.563	114.8	26.85	12.45
111	2008	28	145	28.6	66.69	5.064	104.9	24.13	12.45
111	2008	28	200	28.43	66.99	5.117	107.5	33.04	12.44
111	2008	28	215	28.22	67.33	4.613	109.9	22.7	12.43
111	2008	28	230	28.09	67.36	5.034	93.8	22.37	12.42
111	2008	28	245	28.09	66.52	5.856	102.9	26.42	12.42
111	2008	28	300	28.01	67.53	4.573	95	29.28	12.41
111	2008	28	315	27.87	66.89	5.816	103.9	23.81	12.4
111	2008	28	330	27.78	67.66	5.64	104.1	30.07	12.4
111	2008	28	345	27.61	68.2	4.708	102.9	27.17	12.39
111	2008	28	400	27.47	68.91	4.625	95.5	26.04	12.38
111	2008	28	415	27.45	69.37	5.667	93.7	22.78	12.38
111	2008	28	430	27.54	69.38	5.618	99.7	19.43	12.37
111	2008	28	445	27.66	69.14	6.462	100.1	24.09	12.37
111	2008	28	500	27.62	70	5.084	100.7	27.72	12.36
111	2008	28	515	27.48	70.3	4.724	102.1	26.13	12.36
111	2008	28	530	27.61	69.11	5.606	101.8	20.88	12.36
111	2008	28	545	27.72	69.11	5.195	86.4	24.24	12.36
111	2008	28	600	27.86	69.04	6.392	79.1	21.91	12.35
111	2008	28	615	27.9	68.47	6.732	80.4	20.05	12.36
111	2008	28	630	28.02	68.5	6.614	88.6	26.56	12.35

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	28	645	28.05	67.96	6.475	84	29.32	12.35
111	2008	28	700	28.15	68.13	6.738	83.7	22.89	12.35
111	2008	28	715	28.18	67.87	6.934	74.6	24.31	12.35
111	2008	28	730	28.17	66.62	7.8	79.5	21.97	12.35
111	2008	28	745	28.26	65.82	7.12	89.3	26.12	12.35
111	2008	28	800	28.32	65.88	7.54	94.2	25.68	12.34
111	2008	28	815	28.25	66.09	7.16	91.3	27.22	12.34
111	2008	28	830	28.28	66.22	7.7	90.2	23.25	12.34
111	2008	28	845	28.39	66.35	7.3	98.9	22.29	12.95
111	2008	28	900	28.55	65.68	7.82	102.2	25.93	13.15
111	2008	28	915	28.94	64.75	7.92	101.3	22.68	13.92
111	2008	28	930	29.26	64.18	8.9	94.1	23.93	13.89
111	2008	28	945	29.53	61.73	9.05	90.3	22.49	13.9
111	2008	28	1000	29.91	59.54	9.7	100.4	27.07	13.88
111	2008	28	1015	30.36	58	9.12	100.6	27.76	13.89
111	2008	28	1030	30.65	56.32	10.7	98.8	23.85	13.87
111	2008	28	1045	30.96	55.44	10.04	98.8	21.79	13.14
111	2008	28	1100	31.38	54.64	9.61	101.1	30.06	13.86
111	2008	28	1115	32.07	53.17	8.24	107.4	26.05	13.85
111	2008	28	1130	32.71	51.96	9.5	102.5	23.44	13.84
111	2008	28	1145	32.93	51.19	8.8	92.8	26.64	13.83
111	2008	28	1200	33.16	48.84	9.91	81.9	24.4	13.81
111	2008	28	1215	33.98	48.2	8.8	96.1	28.67	13.81
111	2008	28	1230	34.16	46.42	9.56	78.7	23.52	13.79
111	2008	28	1245	34.78	45.28	8.86	85.9	25.42	13.79
111	2008	28	1300	35.53	43.57	8.71	93.2	29.54	13.78
111	2008	28	1315	36.07	43.13	8.27	96.5	25.49	13.78
111	2008	28	1330	36.34	42.9	9.43	92.7	26.21	13.77
111	2008	28	1345	36.91	41.26	7.4	83.5	27.22	13.75
111	2008	28	1400	37.16	42.7	9.05	75.9	27.39	13.75
111	2008	28	1415	37.46	40.12	9.48	91.8	23.46	13.75
111	2008	28	1430	38.21	40.35	9.3	96.5	23.03	13.74
111	2008	28	1445	38.53	39.08	7.7	88.7	26.16	13.75
111	2008	28	1500	39.15	37.81	6.942	77.6	28.63	13.73
111	2008	28	1515	39.94	36.97	7.66	100.1	29.79	13.72
111	2008	28	1530	39.61	36.5	8.46	88	26.09	13.73
111	2008	28	1545	39.48	36.53	7.83	75.9	24.03	13.49
111	2008	28	1600	39.88	35.76	7.33	98.4	25.55	13.73
111	2008	28	1615	39.99	36.66	7.85	95.7	23.17	13.72
111	2008	28	1630	39.98	36.46	6.543	86.8	28.47	13.73
111	2008	28	1645	39.56	36.83	7.48	89.2	24.22	13.1
111	2008	28	1700	39.41	37.06	6.509	79.6	28.83	12.92
111	2008	28	1715	39.16	37.77	7.33	75.8	20.52	12.84
111	2008	28	1730	38.84	38.44	6.267	71.4	20.58	12.8
111	2008	28	1745	38.53	39.51	6.896	71.7	21.95	12.79
111	2008	28	1800	38.06	40.22	7.28	65.47	21.69	12.76
111	2008	28	1815	37.55	41.02	6.551	71.4	22.24	12.75
111	2008	28	1830	37.17	41.83	5.566	79.8	18.48	12.73
111	2008	28	1845	36.79	42.3	6.344	81.1	18.34	12.71
111	2008	28	1900	36.59	43.51	6.211	74.8	20.79	12.71
111	2008	28	1915	36.23	44.39	4.571	81.8	24.8	12.69
111	2008	28	1930	36.07	44.79	4.589	84.2	24.95	12.67
111	2008	28	1945	35.76	45.76	3.326	57.64	24.39	12.66
111	2008	28	2000	35.15	47.17	3.37	64.2	20.81	12.66
111	2008	28	2015	34.82	48.24	2.88	48.24	22.48	12.65
111	2008	28	2030	34.36	48.81	3.839	57.59	20.74	12.63
111	2008	28	2045	34	49.95	3.015	69.35	15.29	12.63
111	2008	28	2100	33.66	51.06	2.931	59.66	18.41	12.63
111	2008	28	2115	33.34	50.72	3.064	56.7	21.06	12.62
111	2008	28	2130	33.21	50.69	4.053	54.63	17.63	12.61

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	28	2145	32.97	51.47	3.154	68.62	20.21	12.61
111	2008	28	2200	32.73	52.21	4.192	54.36	18.11	12.59
111	2008	28	2215	32.39	52.91	2.58	62.4	25.21	12.59
111	2008	28	2230	31.99	53.88	2.703	71.3	15.45	12.58
111	2008	28	2245	31.5	55.52	2.191	50.28	16.42	12.57
111	2008	28	2300	31.19	56.23	1.483	42.83	29.17	12.57
111	2008	28	2315	30.74	57.74	2.365	69.78	29.92	12.56
111	2008	28	2330	30.25	59.72	2.048	19.11	17.14	12.55
111	2008	28	2345	29.54	62.03	0.721	55.54	11.98	12.55
111	2008	28	2400	29.11	63.14	3.152	29.04	9.72	12.54
111	2008	29	15	29.63	61.6	2.989	41.71	17.79	12.54
111	2008	29	30	30.3	60.29	1.738	62.06	73.2	12.53
111	2008	29	45	29.55	63.1	1.281	322.7	46.36	12.52
111	2008	29	100	28.88	64.18	1.53	39.83	14.05	12.52
111	2008	29	115	29.05	63.98	2.34	65.7	12.19	12.52
111	2008	29	130	29.06	64.55	1.905	48.56	24.23	12.51
111	2008	29	145	28.52	65.63	0.643	42.08	48.16	12.5
111	2008	29	200	27.95	67.07	0.459	146.3	23.9	12.5
111	2008	29	215	27.63	67.47	0.893	111.8	19.86	12.5
111	2008	29	230	27.51	68.25	0.657	35.71	16.66	12.49
111	2008	29	245	26.62	70.1	0.565	346.4	9.49	12.48
111	2008	29	300	26.18	71.4	0.248	341.7	27.83	12.47
111	2008	29	315	25.87	73.5	1.635	28.73	5.67	12.47
111	2008	29	330	26.05	72.8	1.743	29.5	14.04	12.46
111	2008	29	345	27.32	68.45	2.516	39.96	13.81	12.46
111	2008	29	400	27.7	67.48	2.492	36.32	12.22	12.45
111	2008	29	415	27.68	67.58	2.095	44.56	14.62	12.45
111	2008	29	430	26.99	70.8	2.604	17.65	10.02	12.45
111	2008	29	445	27.26	68.92	3.126	42.1	15.78	12.44
111	2008	29	500	27.56	68.72	3.434	37.14	14.35	12.43
111	2008	29	515	27.49	67.95	2.741	39.01	19.41	12.43
111	2008	29	530	27.16	68.98	0.531	148.9	27.89	12.43
111	2008	29	545	25.92	72.9	1.254	336.3	25.05	12.42
111	2008	29	600	25.17	75.3	1.791	27.82	7.19	12.42
111	2008	29	615	24.68	76.6	1.174	15.18	11.93	12.41
111	2008	29	630	24.41	77.4	0.707	1.681	6.88	12.4
111	2008	29	645	25.04	77	1.872	30.03	15.85	12.4
111	2008	29	700	26.57	72.9	2.637	33.06	9.84	12.39
111	2008	29	715	27.21	70.2	2.297	27.8	16.42	12.38
111	2008	29	730	26.22	72.1	1.642	18.82	19.18	12.38
111	2008	29	745	26.02	72.6	1.449	17.38	16.26	12.37
111	2008	29	800	26.17	72.6	2.486	15.72	18.05	12.37
111	2008	29	815	26.7	71.3	2.927	25.97	18.69	12.36
111	2008	29	830	27.22	70.5	2.784	29.11	19.88	12.37
111	2008	29	845	27.99	69.62	2.558	31.19	22.58	13.31
111	2008	29	900	28.5	68.47	4.176	28.13	13.49	13.1
111	2008	29	915	29	66.19	3.837	31.58	22.29	13.14
111	2008	29	930	30.12	62.57	3.862	28.89	22.88	13.94
111	2008	29	945	30.91	59.92	3.878	27.8	19.85	13.93
111	2008	29	1000	31.24	59.58	2.83	13.83	26.1	13.94
111	2008	29	1015	32.29	56.73	3.384	25.74	23.41	13.9
111	2008	29	1030	33.46	54.37	3.289	32.88	24.9	13.87
111	2008	29	1045	34.57	52.83	4.049	15.51	22.32	13.85
111	2008	29	1100	35.49	50.65	4.129	9	23.84	13.83
111	2008	29	1115	36.24	49.44	4.418	4.701	31.09	13.81
111	2008	29	1130	36.66	51.84	4.337	335.9	26.79	13.79
111	2008	29	1145	36.96	50.3	4.113	308.9	34.41	13.78
111	2008	29	1200	37.73	49.97	4.907	4.628	26.04	13.76
111	2008	29	1215	38.55	49.5	5.693	352.9	21.77	13.73
111	2008	29	1230	38.44	51.31	4.966	337.9	22.64	13.14

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	29	1245	38.09	54.65	4.248	337.5	25.92	13.11
111	2008	29	1300	37.77	56.06	4.843	346.1	25.14	13.12
111	2008	29	1315	37.91	57.23	5.105	348.2	23	13.2
111	2008	29	1330	37.97	59.01	4.25	348.8	24.27	13.16
111	2008	29	1345	38.09	58.31	4.877	356.7	23.93	13.19
111	2008	29	1400	38.46	55.53	4.796	348.4	24.32	13.13
111	2008	29	1415	38.52	55.59	4.47	331.9	21.66	12.95
111	2008	29	1430	38.01	57.7	4.742	335.3	22.96	12.93
111	2008	29	1445	38.41	58.57	4.802	335.5	27.57	13.19
111	2008	29	1500	38.22	62.96	5.213	334.2	25.41	12.93
111	2008	29	1515	37.77	64.23	3.755	334.2	29.21	12.84
111	2008	29	1530	37.81	66.61	4.899	334.4	22.47	12.84
111	2008	29	1545	37.86	68.65	4.744	329	28.93	12.89
111	2008	29	1600	38.06	71.5	4.698	340.8	26.08	12.96
111	2008	29	1615	38.32	71.8	4.657	336.7	31.1	12.99
111	2008	29	1630	38.64	72.6	4.498	319.8	24.65	13.09
111	2008	29	1645	38.56	73.7	4.178	307.9	24.32	12.93
111	2008	29	1700	38.47	73.5	3.898	301.6	26.36	12.84
111	2008	29	1715	38.52	73.3	3.676	309.2	25.38	12.77
111	2008	29	1730	38.58	74.1	3.428	302.9	29	12.75
111	2008	29	1745	38.55	75.3	3.023	280.2	27.83	12.73
111	2008	29	1800	38.5	76.8	2.275	283.7	24.7	12.72
111	2008	29	1815	38.44	77.7	2.022	259.8	23.66	12.71
111	2008	29	1830	38.2	78.6	1.377	262.9	21.77	12.7
111	2008	29	1845	38.11	79.4	1.338	242.7	40.43	12.69
111	2008	29	1900	38.32	79.8	1.763	207.6	21.71	12.68
111	2008	29	1915	38.54	79.6	1.929	201.8	24.73	12.67
111	2008	29	1930	38.82	79.6	1.534	201.2	30	12.67
111	2008	29	1945	39.05	79.7	1.717	203.5	24.28	12.67
111	2008	29	2000	39.18	80.4	2.355	222.2	21.87	12.66
111	2008	29	2015	39.22	80.9	2.195	218.1	24.82	12.65
111	2008	29	2030	39.19	81.7	2.308	205.6	19.11	12.65
111	2008	29	2045	39.23	82.3	1.933	198.8	24.63	12.64
111	2008	29	2100	39.26	83	1.41	200.2	25.31	12.64
111	2008	29	2115	39.34	83.6	1.468	212.5	19.99	12.63
111	2008	29	2130	39.31	84.4	1.798	228.1	25.37	12.63
111	2008	29	2145	39.31	85.6	2.471	226.5	31.66	12.62
111	2008	29	2200	39.71	86.4	2.451	233.1	26.88	12.61
111	2008	29	2215	40.14	86.8	2.164	254.3	26.08	12.61
111	2008	29	2230	40.12	87.2	2.152	265.6	27.77	12.61
111	2008	29	2245	39.83	87.8	1.243	277.1	43.66	12.6
111	2008	29	2300	39.36	88.2	1.254	287.4	28.17	12.59
111	2008	29	2315	39.16	88.9	1.552	283.5	25.44	12.58
111	2008	29	2330	39.39	89.4	2.108	313.9	21.64	12.58
111	2008	29	2345	39.91	89.2	2.383	328.9	24.66	12.58
111	2008	29	2400	40.04	89.3	2.825	330.5	30.11	12.57
111	2008	30	15	39.89	89.5	2.675	326.4	22.06	12.57
111	2008	30	30	39.76	89.6	2.298	339.8	28.63	12.56
111	2008	30	45	39.74	89.7	2.941	324.9	24.19	12.55
111	2008	30	100	39.6	89.7	2.256	306.8	31.87	12.55
111	2008	30	115	39.33	89.9	2.079	308.8	24.93	12.54
111	2008	30	130	39.14	90.2	2.011	313.1	22.57	12.53
111	2008	30	145	39.2	90.6	2.494	314.6	26.3	12.52
111	2008	30	200	39.62	90.8	2.086	310.7	31.47	12.51
111	2008	30	215	40.03	90.5	2.113	331.3	32.73	12.51
111	2008	30	230	40.32	90.2	0.82	280.3	38.23	12.5
111	2008	30	245	40.25	89.8	2.512	257.7	19.75	12.49
111	2008	30	300	40.07	89.8	0.744	293.2	20.59	12.49
111	2008	30	315	39.6	90	1.08	246.3	19.61	12.49
111	2008	30	330	39	90.7	2.84	213.9	22.68	12.48

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	30	345	38.89	90.9	1.314	345.2	56.14	12.47
111	2008	30	400	38.48	91.3	1.466	198	23.5	12.47
111	2008	30	415	38.51	91.6	1.181	205	19.66	12.47
111	2008	30	430	38.58	92.2	1.204	301.5	18.2	12.45
111	2008	30	445	39.77	92.1	1.599	328.7	23.26	12.45
111	2008	30	500	41.24	90.9	2.43	320.4	23.85	12.45
111	2008	30	515	42.29	87.5	3.128	336.3	36.99	12.45
111	2008	30	530	42.95	84	3.32	337.5	45.15	12.45
111	2008	30	545	43.06	82.4	2.417	316.9	35.09	12.45
111	2008	30	600	42.98	80.9	3.994	316.9	27.7	12.45
111	2008	30	615	43.4	78.9	5.473	309.7	22.38	12.45
111	2008	30	630	43.65	77.8	6.18	318	26.2	12.45
111	2008	30	645	44.16	75.9	7.28	324.8	26.67	12.45
111	2008	30	700	44.57	74.6	6.922	330.3	24.38	12.45
111	2008	30	715	44.91	74.7	6.406	331.5	27.19	12.45
111	2008	30	730	45.03	75.5	7.08	326.6	26.11	12.45
111	2008	30	745	45.48	74.2	6.416	329.6	28.39	12.45
111	2008	30	800	45.52	81.4	9.61	332.4	25.9	12.45
111	2008	30	815	44.94	83.4	9.27	336.1	27.27	12.45
111	2008	30	830	44.65	84.5	9.89	334.3	24.84	12.45
111	2008	30	845	44.07	87.8	8.02	324.1	26.47	12.44
111	2008	30	900	43.86	89.1	9.15	330.1	26	12.44
111	2008	30	915	43.66	90	7.46	338.8	30.18	12.43
111	2008	30	930	43.57	91.1	7.51	344.4	26.59	12.44
111	2008	30	945	43.56	91.3	7.17	348.2	23.51	12.43
111	2008	30	1000	43.31	91.5	7.14	339.3	22.6	12.43
111	2008	30	1015	43.38	91.8	7.34	343.1	20.18	12.43
111	2008	30	1030	43.79	91.5	8.42	340.6	23.61	12.43
111	2008	30	1045	44.22	90.4	9.83	341.3	24.22	12.43
111	2008	30	1100	44.51	89	10.47	340.6	25.11	12.43
111	2008	30	1115	44.59	88.1	11.56	340.9	23.48	12.43
111	2008	30	1130	44.17	88.5	11.38	356.4	19.57	12.44
111	2008	30	1145	44.65	87.2	10.18	354.1	20.32	12.47
111	2008	30	1200	46.34	83.3	12.34	4.61	20.73	12.65
111	2008	30	1215	45.19	74	16.72	25.26	19.12	12.56
111	2008	30	1230	43.91	77.5	13.66	20.71	19.23	12.52
111	2008	30	1245	43.09	68.7	12.15	23.88	19.51	12.54
111	2008	30	1300	43.02	64.72	13.45	32.58	17.97	12.58
111	2008	30	1315	42.91	34.18	17.77	29.9	16.98	13.06
111	2008	30	1330	42.85	35.29	18.63	19.75	16.8	13.61
111	2008	30	1345	42.84	28.79	17.5	31.23	24.39	13.6
111	2008	30	1400	42.61	30.4	15.53	33.64	18.31	13.61
111	2008	30	1415	43.08	31.24	13.23	27.69	19.66	13.61
111	2008	30	1430	42.47	31.44	15.73	18.31	13.66	13.63
111	2008	30	1445	42.33	31.3	15.23	17.75	20.11	13.63
111	2008	30	1500	42.34	28.69	16.41	20.16	15.97	13.65
111	2008	30	1515	42.75	27.49	14.85	23.3	14.8	13.64
111	2008	30	1530	42.53	27.02	14.01	21.22	19.21	13.65
111	2008	30	1545	42.61	26.21	13.39	23.16	18.61	13.65
111	2008	30	1600	42.47	25.01	14.94	17.21	21.07	13.46
111	2008	30	1615	41.9	22.4	15.67	29.52	20.42	13.09
111	2008	30	1630	41.51	23.23	15.64	26.03	14.91	12.93
111	2008	30	1645	41.15	21.83	14.97	33.59	18.4	12.85
111	2008	30	1700	40.94	22.77	14.2	25.71	23.48	12.8
111	2008	30	1715	40.57	23.91	12.71	23.34	19	12.77
111	2008	30	1730	40.27	24.48	10.15	34.43	18.66	12.76
111	2008	30	1745	40.03	22.97	10.99	34.77	23.25	12.74
111	2008	30	1800	39.71	24.11	9.44	40.6	18.65	12.72
111	2008	30	1815	39.18	26.19	7.46	34.41	17.24	12.71
111	2008	30	1830	38.82	24.05	8.29	27.33	17.31	12.69

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	30	1845	38.41	24.65	6.94	14.84	18.09	12.68
111	2008	30	1900	38.37	23.88	7.74	22.41	18.58	12.67
111	2008	30	1915	38.35	25.86	9.34	23.19	15.06	12.65
111	2008	30	1930	38.1	26.03	9.49	21.23	19.72	12.65
111	2008	30	1945	37.84	24.42	9.91	22.91	15.11	12.63
111	2008	30	2000	37.65	23.65	9.65	24.13	15.28	12.63
111	2008	30	2015	37.25	22.74	8.75	20.2	14.75	12.63
111	2008	30	2030	37.06	22.21	10.77	26.11	14.3	12.61
111	2008	30	2045	36.71	22.68	8.19	27.56	15.86	12.61
111	2008	30	2100	36.37	23.48	7.04	25.63	18.09	12.6
111	2008	30	2115	35.96	24.12	5.896	22.35	21.24	12.59
111	2008	30	2130	35.67	24.96	5.187	17.13	19.26	12.58
111	2008	30	2145	35.64	24.49	6.775	32.75	16.29	12.57
111	2008	30	2200	35.28	25.16	5.709	23.03	16.72	12.57
111	2008	30	2215	35.18	24.36	6.523	31.05	21.33	12.56
111	2008	30	2230	34.71	26.16	3.815	23.13	13.67	12.55
111	2008	30	2245	34.24	27.3	4.534	34.58	16.58	12.55
111	2008	30	2300	34.34	23.15	7.73	40.36	19.26	12.54
111	2008	30	2315	34.2	23.72	6.15	26.89	16.44	12.52
111	2008	30	2330	33.88	23.99	5.437	32.15	17.25	12.51
111	2008	30	2345	33.64	25.36	5.437	29.97	18.34	12.51
111	2008	30	2400	33.36	25.6	5.777	31.44	16.31	12.5
111	2008	31	15	33.13	25.63	4.764	31.88	14.71	12.5
111	2008	31	30	32.86	26	5.588	28.93	15.77	12.49
111	2008	31	45	32.58	27.07	5.415	17.42	14.1	12.47
111	2008	31	100	32.47	26.3	6.124	25.98	18.27	12.47
111	2008	31	115	32.37	26.3	6.233	27.6	16.03	12.46
111	2008	31	130	32.15	26.34	6.154	29.13	14.31	12.45
111	2008	31	145	32.05	27.14	5.465	30.01	18	12.45
111	2008	31	200	31.7	28.11	4.422	38.72	13.64	12.44
111	2008	31	215	31.18	29.49	4.299	26.53	14.73	12.43
111	2008	31	230	30.77	29.59	3.864	26.49	15.4	12.42
111	2008	31	245	30.56	30.09	4.26	28.62	15.86	12.41
111	2008	31	300	30.46	29.89	3.751	27.19	17.09	12.4
111	2008	31	315	30.3	30.09	3.729	40.18	21.24	12.4
111	2008	31	330	30.11	29.86	5.01	31.12	16.84	12.38
111	2008	31	345	30.1	29.42	4.518	29.58	16.99	12.38
111	2008	31	400	29.99	29.93	4.756	39.26	14.58	12.37
111	2008	31	415	29.85	29.09	6.422	43.21	17.01	12.36
111	2008	31	430	29.74	29.42	5.364	46.27	16.31	12.35
111	2008	31	445	29.52	29.66	4.246	57.31	19.64	12.36
111	2008	31	500	29.34	29.93	3.916	55.84	23.17	12.35
111	2008	31	515	29.09	30.16	3.471	55.41	22.55	12.34
111	2008	31	530	29.03	29.79	4.599	47	18.21	12.34
111	2008	31	545	28.78	31.03	3.158	27.15	23.24	12.33
111	2008	31	600	28.13	32.74	1.701	355.3	26.7	12.33
111	2008	31	615	28.05	31.67	3.231	42	23.84	12.33
111	2008	31	630	27.96	33.98	2.151	31.95	37.52	12.32
111	2008	31	645	27.77	34.79	2.062	24.92	34.63	12.31
111	2008	31	700	27.66	35.09	2.121	54.04	19.25	12.31
111	2008	31	715	27.8	34.52	1.943	65.34	27.3	12.31
111	2008	31	730	27.29	34.53	2.123	50.56	27.77	12.3
111	2008	31	745	27	34.56	2.915	61.31	17.48	12.3
111	2008	31	800	27.02	33.89	2.284	49.57	24.74	12.3
111	2008	31	815	26.99	35.67	2.363	42.28	15.13	12.3
111	2008	31	830	27.09	36.17	2.283	36.31	16.89	12.31
111	2008	31	845	27.39	34.79	3.396	45.95	16.63	13.36
111	2008	31	900	27.78	34.05	3.616	48.75	18.87	13.42
111	2008	31	915	28.37	32.91	4.51	59.09	17.68	13.94
111	2008	31	930	29.1	32.11	3.904	55.72	23	13.93

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	31	945	29.34	31.8	5.32	71.6	20.32	13.92
111	2008	31	1000	29.9	29.82	6.38	89.9	22.02	13.91
111	2008	31	1015	30.25	30.52	6.09	95.1	23.79	13.9
111	2008	31	1030	30.48	30.42	5.989	86.1	25.79	13.88
111	2008	31	1045	30.97	31.36	5.304	109.1	36.27	13.1
111	2008	31	1100	31.28	30.89	5.35	114.9	24.39	13.68
111	2008	31	1115	31.73	29.55	4.8	104.7	34.78	13.86
111	2008	31	1130	31.82	29.68	5.211	119	32.08	13.85
111	2008	31	1145	32.18	31.46	4.823	117.4	34.97	13.82
111	2008	31	1200	32.24	32.56	4.947	90.4	25.39	13.81
111	2008	31	1215	32.34	31.79	4.943	130	35.91	13.81
111	2008	31	1230	32.61	31.55	4.885	102	26.93	13.8
111	2008	31	1245	32.96	31.68	4.264	130.4	41.28	13.8
111	2008	31	1300	33.14	31.98	4.54	129.9	32.71	13.79
111	2008	31	1315	33.45	30.74	4.833	119	37.08	13.77
111	2008	31	1330	33.62	30.24	4.73	151.3	35.7	13.77
111	2008	31	1345	33.72	30.14	4.285	117.5	37.2	13.77
111	2008	31	1400	34.44	30.71	4.436	138.6	38.29	13.76
111	2008	31	1415	34.59	29.91	3.815	117	38.73	13.76
111	2008	31	1430	35.03	29.44	3.653	103.3	56.98	13.76
111	2008	31	1445	35.26	28.9	4.136	84.7	38.99	13.76
111	2008	31	1500	35.77	28.53	3.813	101.1	44.3	13.75
111	2008	31	1515	36.11	28.43	4.325	164.2	38.78	13.75
111	2008	31	1530	36.26	27.13	3.715	156.8	55.44	13.75
111	2008	31	1545	36.72	26.15	3.253	126.3	44.94	13.75
111	2008	31	1600	36.61	26.19	4.293	127.2	30.94	13.19
111	2008	31	1615	36.74	26.69	3.89	136.7	27.96	13.2
111	2008	31	1630	36.83	26.32	3.912	134.4	24.48	13.01
111	2008	31	1645	37.16	26.49	3.493	139	38.85	12.91
111	2008	31	1700	37.26	26.49	3.32	158.2	35.24	12.86
111	2008	31	1715	36.77	26.56	2.951	137.2	36.07	12.82
111	2008	31	1730	36.98	26.76	3.521	128.9	33.24	12.78
111	2008	31	1745	36.46	27.7	3.388	140.2	26.22	12.76
111	2008	31	1800	35.9	27.93	3.577	154.5	30.96	12.74
111	2008	31	1815	35.14	28.3	3.71	164.3	25.08	12.72
111	2008	31	1830	34.64	29.57	2.417	147.8	24.08	12.71
111	2008	31	1845	34.2	30.62	1.913	140.7	27.76	12.69
111	2008	31	1900	33.89	31.66	1.277	140.2	23.74	12.68
111	2008	31	1915	33.61	32.33	1.841	138	24.53	12.66
111	2008	31	1930	33.16	33.94	1.73	168.1	40.06	12.65
111	2008	31	1945	32.82	38.26	2.201	217.3	20.23	12.64
111	2008	31	2000	32.07	41.85	1.145	253.5	26.12	12.63
111	2008	31	2015	31.03	46.65	0	0	0	12.62
111	2008	31	2030	30.78	48.62	0.515	135.2	33.08	12.61
111	2008	31	2045	30.53	48.76	0.997	104.5	16.7	12.6
111	2008	31	2100	29.9	52.78	0.698	94.2	13.31	12.58
111	2008	31	2115	29.17	55.43	0.485	78.1	20.98	12.58
111	2008	31	2130	28.65	56.33	1.028	90	15.54	12.57
111	2008	31	2145	28.84	56.91	0.922	89	17.43	12.56
111	2008	31	2200	28.23	58.52	0.027	91.1	4.129	12.56
111	2008	31	2215	28.17	57.24	0.425	146.2	24.35	12.55
111	2008	31	2230	28.9	55.47	0.075	132.3	5.208	12.54
111	2008	31	2245	29.23	51.14	0.716	129.4	17.44	12.54
111	2008	31	2300	29.63	50.51	0.871	118	21.53	12.53
111	2008	31	2315	29.69	50.94	1.037	115.5	19.26	12.54
111	2008	31	2330	29.9	48.43	1.263	112.4	22.89	12.53
111	2008	31	2345	30.25	44.87	2.616	151.1	21.03	12.52
111	2008	31	2400	30.44	45.07	2.227	172.3	22.64	12.52
111	2008	32	15	30.63	45.74	2.132	186.8	21.06	12.52
111	2008	32	30	30.68	46.41	3.062	179.2	22.4	12.52

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	32	45	30.62	49.56	2.723	181.7	20.73	12.51
111	2008	32	100	30.51	49.29	2.775	169.9	27.62	12.51
111	2008	32	115	30.45	47.69	3.656	169.4	21.52	12.51
111	2008	32	130	30.15	48.69	3.753	181.1	21.28	12.5
111	2008	32	145	29.75	49.06	3.233	175.2	26.46	12.5
111	2008	32	200	29.55	49.36	3.797	168.5	25.13	12.5
111	2008	32	215	29.35	49.2	4.373	167.7	24.08	12.49
111	2008	32	230	29.21	50.5	3.606	162.9	19.85	12.48
111	2008	32	245	29.04	50.7	3.507	171	23.99	12.47
111	2008	32	300	28.95	51.54	3.154	161.2	24.38	12.47
111	2008	32	315	28.64	52.61	2.727	150.4	22.34	12.46
111	2008	32	330	28.33	53.35	2.85	146.9	23.12	12.46
111	2008	32	345	28.24	55.4	3.455	162.8	23.09	12.45
111	2008	32	400	28.16	57.71	3.134	155	24.22	12.45
111	2008	32	415	28.16	59.99	3.152	165.6	18.25	12.44
111	2008	32	430	28.3	61.87	3.592	173.2	21.1	12.44
111	2008	32	445	28.61	64.34	3.751	175.5	25.67	12.42
111	2008	32	500	29.3	65.92	3.195	176.2	25.83	12.42
111	2008	32	515	29.95	66.82	3.32	163.3	26.91	12.42
111	2008	32	530	30.26	68	3.795	162.3	25.17	12.41
111	2008	32	545	30.52	69.44	4.675	180.7	23.62	12.41
111	2008	32	600	30.62	70.7	4.875	180.4	28.79	12.41
111	2008	32	615	30.61	71.8	5.068	178	21.62	12.4
111	2008	32	630	30.7	72.3	6.172	181.5	24.23	12.4
111	2008	32	645	30.84	72.5	5.937	183.4	27.03	12.39
111	2008	32	700	31.03	72.1	6.98	195.9	21.26	12.38
111	2008	32	715	31.03	72.4	7.08	187.7	22.67	12.38
111	2008	32	730	31.13	72.2	6.785	201	22.99	12.37
111	2008	32	745	31.78	72.6	6.867	197.5	19.61	12.37
111	2008	32	800	32.44	73.7	7.83	196.4	19.22	12.37
111	2008	32	815	32.8	74.6	8.36	191.2	21.51	12.37
111	2008	32	830	33.69	74.1	9.24	195.5	22.18	12.37
111	2008	32	845	35.08	72.6	9.46	209.7	21.55	12.37
111	2008	32	900	35.63	72.5	9.23	216.8	23.01	12.37
111	2008	32	915	35.8	73.3	8.12	209	22.6	12.37
111	2008	32	930	35.79	73.7	9.11	201.7	18.48	12.37
111	2008	32	945	36.05	73.3	9.43	202.4	19.76	12.37
111	2008	32	1000	36.29	73.2	10.47	201.5	22.54	12.38
111	2008	32	1015	36.38	73.3	9.98	202.1	19.7	12.37
111	2008	32	1030	36.36	75.7	8.6	202	21.26	12.37
111	2008	32	1045	35.98	81.3	9.61	195.2	20.61	12.37
111	2008	32	1100	35.42	84.8	8.46	188.1	24.8	12.37
111	2008	32	1115	35.2	86.9	7.97	192.5	27.79	12.37
111	2008	32	1130	35.14	88	7.91	194.9	25.34	12.37
111	2008	32	1145	35.05	89.1	8.77	188.9	22.79	12.37
111	2008	32	1200	34.95	89.9	8.65	184	25.91	12.4
111	2008	32	1215	35.07	90.2	7.98	172	26.21	12.37
111	2008	32	1230	35.11	90.8	7.64	171.7	29.12	12.35
111	2008	32	1245	35.06	91.9	8.67	188.4	25.94	12.37
111	2008	32	1300	35.17	92.5	9.27	180.6	25.27	12.37
111	2008	32	1315	35.28	92.6	10.2	183.7	22.46	12.37
111	2008	32	1330	35.52	93	10.08	191.9	23.65	12.37
111	2008	32	1345	36.02	93	7.63	182.6	24.84	12.37
111	2008	32	1400	36.34	93	8.9	187.1	21.21	12.37
111	2008	32	1415	36.7	93	9.88	195.6	21.2	12.37
111	2008	32	1430	37.12	92.7	11.27	194.7	27.87	12.36
111	2008	32	1445	37.33	92.7	8.63	191.4	22.88	12.37
111	2008	32	1500	37.59	93	7.77	189.4	27.3	12.37
111	2008	32	1515	37.83	93	7.84	187.8	26	12.37
111	2008	32	1530	37.81	93.1	6.333	168.8	33.33	12.37

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	32	1545	37.8	93.2	7.13	171	25.51	12.37
111	2008	32	1600	38.02	93.5	9.12	192.1	23.57	12.37
111	2008	32	1615	38.21	93.7	8.77	187.3	24.58	12.37
111	2008	32	1630	38.38	93.9	7.57	182.3	21.36	12.37
111	2008	32	1645	38.51	94	7.24	182.7	26.6	12.37
111	2008	32	1700	38.93	94.2	7.37	173.5	31.4	12.37
111	2008	32	1715	39.77	94.3	4.907	167.3	46.35	12.37
111	2008	32	1730	39.99	94.3	8.3	171.8	26.12	12.37
111	2008	32	1745	40.32	94.3	5.731	179.5	34.4	12.37
111	2008	32	1800	40.57	94.6	6.225	187.2	26.67	12.37
111	2008	32	1815	40.69	94.7	6.209	183.6	26.92	12.37
111	2008	32	1830	40.88	95	4.617	182.2	32.61	12.37
111	2008	32	1845	41.65	95.3	4.593	164.7	23.09	12.37
111	2008	32	1900	42.26	95.2	4.403	180.2	31.46	12.37
111	2008	32	1915	42.64	95.3	4.262	186.6	26.24	12.37
111	2008	32	1930	45.9	96.2	5.342	217.5	25.86	12.37
111	2008	32	1945	47.41	95.7	8.16	237.2	17.58	12.38
111	2008	32	2000	46.4	95.7	7.38	245.4	19.55	12.39
111	2008	32	2015	47.1	96.1	8.75	257.7	20.74	12.39
111	2008	32	2030	48.12	96	9.29	262.4	21.82	12.39
111	2008	32	2045	48.18	96	8.93	261.8	26.95	12.39
111	2008	32	2100	48.69	96.2	9.05	271.1	39.38	12.4
111	2008	32	2115	50.27	96.2	13.54	321.2	29.7	12.4
111	2008	32	2130	49.54	95.6	9.74	322.2	27.74	12.4
111	2008	32	2145	47.95	95.4	7.4	317.9	34.33	12.4
111	2008	32	2200	47.1	95.5	6.14	302.7	26.34	12.4
111	2008	32	2215	47.05	95.4	7.21	314	26.99	12.4
111	2008	32	2230	46.47	95.1	6.747	322.2	25.62	12.4
111	2008	32	2245	46	94.4	7.22	323	26.04	12.39
111	2008	32	2300	45.31	93.9	6.428	315.3	25.82	12.39
111	2008	32	2315	44.92	93.3	7.43	324.5	26.24	12.38
111	2008	32	2330	45.12	91.7	9.69	342.5	30.81	12.38
111	2008	32	2345	44.75	91.8	8.88	352	16.48	12.38
111	2008	32	2400	44.57	91.9	9.58	359.1	19.6	12.38
111	2008	33	15	44.98	89.6	8.99	6.192	23.06	12.38
111	2008	33	30	45.31	83.2	11.47	17.84	19.07	12.38
111	2008	33	45	44.98	80.2	12.62	20.75	20.95	12.37
111	2008	33	100	44.2	79.6	12.95	19.21	17.53	12.37
111	2008	33	115	43.54	79.3	12.66	24.76	13.2	12.37
111	2008	33	130	42.83	78.5	12.62	18.14	16.66	12.37
111	2008	33	145	42.18	77.8	13.3	25.76	16.7	12.37
111	2008	33	200	41.79	77.9	11.86	24.17	15.92	12.36
111	2008	33	215	41.54	77.9	10.65	24.75	18.49	12.36
111	2008	33	230	41.32	78.3	10.77	21.75	15.54	12.36
111	2008	33	245	41.22	76.9	11.43	19.36	18.49	12.36
111	2008	33	300	41.22	75.7	12.43	17.53	14.85	12.35
111	2008	33	315	41.04	75.9	11.6	15.1	16.28	12.35
111	2008	33	330	40.77	75.1	12.29	15.49	15.07	12.35
111	2008	33	345	40.71	74.3	11.18	21.53	16.4	12.35
111	2008	33	400	40.66	72.8	10.47	20.99	16.33	12.35
111	2008	33	415	40.44	73.4	10.07	19.97	15.18	12.34
111	2008	33	430	40.13	73.4	9.23	17.84	17.49	12.33
111	2008	33	445	39.94	72.5	9.66	21.3	16.35	12.33
111	2008	33	500	39.82	72.2	8.39	18.49	14.39	12.33
111	2008	33	515	39.35	73.8	7.17	14.49	17.3	12.33
111	2008	33	530	39.09	73.2	9.26	18.28	16.18	12.33
111	2008	33	545	38.82	72.2	10.04	13.4	17.49	12.33
111	2008	33	600	38.63	71.3	11.27	15.78	14.21	12.32
111	2008	33	615	38.39	71	10.18	15.69	15.84	12.32
111	2008	33	630	38.21	70.8	10.41	17.51	16.37	12.32

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	33	645	37.93	71.1	9.83	12.17	15.73	12.32
111	2008	33	700	37.71	71	9.16	13.16	17.13	12.31
111	2008	33	715	37.61	70.5	10.04	18.01	18.1	12.31
111	2008	33	730	37.37	70.8	7.75	13.69	14.16	12.31
111	2008	33	745	37.27	69.87	8.88	15.91	15.42	12.31
111	2008	33	800	37.28	70.1	8.8	13.31	16.75	12.31
111	2008	33	815	37	70.6	8.02	15.76	14.74	12.3
111	2008	33	830	36.97	70.4	8.47	8.49	17.17	12.31
111	2008	33	845	37.29	69.17	8.77	19.1	18.8	12.81
111	2008	33	900	37.57	68.63	10.98	18.09	15.54	13.09
111	2008	33	915	37.91	67.76	10.82	17.81	16.89	13.65
111	2008	33	930	38.24	67.12	10.33	13.71	15.89	13.33
111	2008	33	945	38.63	65.64	9.69	21.79	18.67	13.32
111	2008	33	1000	39.08	64.5	9.23	13	19.27	13.68
111	2008	33	1015	39.58	63.97	10.38	20.51	16.22	13.67
111	2008	33	1030	40.38	61.19	10.79	24.42	14.09	13.66
111	2008	33	1045	41	59.88	10.91	31.96	19.43	13.08
111	2008	33	1100	41.52	59.17	10.64	36.96	21.92	13.08
111	2008	33	1115	41.83	58.17	10.81	38.74	19.99	13.67
111	2008	33	1130	42.39	57.86	10.97	43.83	19.2	13.65
111	2008	33	1145	42.84	58.02	10.31	41.01	22.09	13.64
111	2008	33	1200	43.35	56.45	10.14	37.91	22.19	13.25
111	2008	33	1215	43.42	56.65	10.86	44.12	21.91	13.62
111	2008	33	1230	43.13	57.48	10.18	47.96	22.35	13.64
111	2008	33	1245	42.79	57.65	10.94	42.72	24.36	13.64
111	2008	33	1300	43.19	56.31	9.15	53.93	23.07	13.65
111	2008	33	1315	43.54	56.38	11.44	64.1	21.51	13.63
111	2008	33	1330	43.43	57.62	8.24	49.9	24.66	13.64
111	2008	33	1345	43.48	56.44	10.25	49.27	21.6	13.63
111	2008	33	1400	43.4	56.31	10.26	53.36	26.12	13.63
111	2008	33	1415	43.34	56.98	10.07	52.31	20.69	13.63
111	2008	33	1430	43.44	56.21	8.98	55.59	19.46	13.65
111	2008	33	1445	44.36	55.04	9.44	40.41	20.92	13.64
111	2008	33	1500	43.67	57.08	9.22	43.54	24.14	13.64
111	2008	33	1515	43.1	58.35	10.45	31.51	18.38	13.65
111	2008	33	1530	43.07	57.58	8.31	55.67	22.33	13.64
111	2008	33	1545	43.26	57.25	8.52	39.63	21.57	13.22
111	2008	33	1600	42.75	58.52	8.87	37.08	18.93	13.14
111	2008	33	1615	43.3	57.55	7.66	34.44	23.73	13.27
111	2008	33	1630	43	58.15	6.448	38.49	19.84	13.01
111	2008	33	1645	42.48	59.06	8.02	47.91	22.31	12.93
111	2008	33	1700	42.18	59.36	6.817	44.16	17.24	12.89
111	2008	33	1715	42.32	60.26	7.63	39.55	20.48	12.87
111	2008	33	1730	41.9	60.5	6.325	57.76	21.29	12.82
111	2008	33	1745	41.24	62.14	6.93	52.7	18.48	12.79
111	2008	33	1800	40.99	62.21	5.516	44.35	22.64	12.77
111	2008	33	1815	40.46	63.32	4.943	53.11	24.41	12.76
111	2008	33	1830	39.91	63.83	4.5	55.41	22.54	12.75
111	2008	33	1845	39.44	65.1	3.529	45.48	19.61	12.73
111	2008	33	1900	39.08	66.14	3.529	44.94	19.72	12.72
111	2008	33	1915	38.82	66.31	4.573	48.87	18.75	12.71
111	2008	33	1930	38.49	67.05	3.684	38.34	21.83	12.69
111	2008	33	1945	38.06	68.06	3.757	26.51	12.77	12.69
111	2008	33	2000	37.59	68.7	3.479	19.63	15.5	12.68
111	2008	33	2015	36.86	69.94	2.084	332.2	20.65	12.66
111	2008	33	2030	35.87	72.9	0.86	335.9	20.32	12.66
111	2008	33	2045	34.63	75.4	0.725	345.9	15.79	12.65
111	2008	33	2100	34.62	75.7	2.427	3.833	21.32	12.64
111	2008	33	2115	35.27	73.9	3.247	20.5	15.58	12.63
111	2008	33	2130	35.53	73.4	3.013	30.63	16.31	12.63

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	33	2145	35.25	73.8	2.516	45.39	16.82	12.63
111	2008	33	2200	34.66	75	1.308	68.26	21.9	12.61
111	2008	33	2215	33.25	78.3	0.428	14.69	9.1	12.61
111	2008	33	2230	32	81.1	0.799	358.7	12.35	12.61
111	2008	33	2245	31.21	83.2	0.967	0.855	16.79	12.6
111	2008	33	2300	31.12	83.7	1.058	354	25.83	12.59
111	2008	33	2315	30.65	85.4	1.239	342.1	11.65	12.58
111	2008	33	2330	31.85	82.7	2.838	0.093	19.94	12.58
111	2008	33	2345	32.56	80.4	3.046	7.37	11.32	12.57
111	2008	33	2400	32.86	80.1	2.498	5.795	19.93	12.58
111	2008	34	15	32.96	79.7	2.747	24.19	20.28	12.57
111	2008	34	30	33.24	79	2.554	36.83	14.33	12.57
111	2008	34	45	32.88	79.6	2.036	52.05	15.43	12.56
111	2008	34	100	32.36	80.1	1.72	34.96	17.17	12.56
111	2008	34	115	30.89	82.6	0.831	20.37	15.17	12.55
111	2008	34	130	30.09	83.8	0.255	343.3	4.192	12.56
111	2008	34	145	29.22	85.3	na	na	na	12.55
111	2008	34	200	28.75	86.4	na	na	na	12.54
111	2008	34	215	28.28	87.3	na	na	na	12.53
111	2008	34	230	27.97	88	0.105	353.2	2.406	12.53
111	2008	34	245	27.76	88.8	na	na	na	12.52
111	2008	34	300	27.73	89.5	na	na	na	12.52
111	2008	34	315	27.58	89.7	na	na	na	12.51
111	2008	34	330	27.47	90.3	0.049	124.7	2.772	12.51
111	2008	34	345	27.6	90.4	0.11	118.3	2.21	12.51
111	2008	34	400	27.41	90.5	na	na	na	12.51
111	2008	34	415	27.35	90.7	0.153	112.1	5.544	12.51
111	2008	34	430	27.08	90.7	na	na	na	12.49
111	2008	34	445	27.03	91	0.137	99.4	1.666	12.5
111	2008	34	500	26.79	90.9	na	na	na	12.5
111	2008	34	515	26.44	91.3	na	na	na	12.49
111	2008	34	530	26.39	91.5	0.009	67.58	0.008	12.5
111	2008	34	545	26.46	91.6	na	na	na	12.49
111	2008	34	600	26.27	91.7	0.144	84.7	2.582	12.48
111	2008	34	615	26.23	91.6	0.171	123	6.52	12.48
111	2008	34	630	25.97	92	na	na	na	12.48
111	2008	34	645	25.85	92	na	na	na	12.47
111	2008	34	700	25.62	92.3	na	na	na	12.48
111	2008	34	715	25.65	92.5	na	na	na	12.48
111	2008	34	730	25.64	92.6	na	na	na	12.47
111	2008	34	745	25.82	92.3	na	na	na	12.46
111	2008	34	800	25.37	92.6	0.12	89	2.69	12.46
111	2008	34	815	25.65	92.9	1.255	89.8	21.88	12.46
111	2008	34	830	26.05	92.9	0.559	73	6.26	12.47
111	2008	34	845	26.64	92.7	na	na	na	12.8
111	2008	34	900	27.46	92.9	na	na	na	13.33
111	2008	34	915	29.32	92.2	na	na	na	13.97
111	2008	34	930	30.98	91.1	0.371	51.35	7.17	13.95
111	2008	34	945	32.25	89.7	0.872	15.35	16.07	13.93
111	2008	34	1000	33.12	86.4	1.79	16.6	11.24	13.9
111	2008	34	1015	34.55	80.7	1.664	14.85	20.69	13.88
111	2008	34	1030	35.92	74.1	2.183	26.19	19.38	13.86
111	2008	34	1045	36.77	70.9	2.709	25.5	22.38	13.84
111	2008	34	1100	37.74	66.83	2.648	27.83	29.53	13.83
111	2008	34	1115	38.86	62.13	3.029	56.67	38.31	13.8
111	2008	34	1130	40.14	59.88	3.199	70.5	48.08	13.78
111	2008	34	1145	40.71	59.07	3.666	56.01	41.16	13.75
111	2008	34	1200	40.81	59.27	4.399	33.27	20.12	13.72
111	2008	34	1215	41.37	58.96	5.235	35.78	18.69	13.7
111	2008	34	1230	41.84	57.52	4.629	24.38	25.73	13.69

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	34	1245	42.27	54.97	3.896	19.3	33.55	13.68
111	2008	34	1300	42.93	52.96	4.158	43.84	33.58	13.67
111	2008	34	1315	43.47	52.93	5.423	4.559	25.45	13.66
111	2008	34	1330	43.8	54.27	4.224	16.09	27.34	13.65
111	2008	34	1345	44.25	57.55	5.018	344.8	28.28	13.64
111	2008	34	1400	43.94	59.81	5.242	321	24.04	13.64
111	2008	34	1415	44.14	57.6	5.344	320.1	29.43	13.64
111	2008	34	1430	44.78	56.4	5.052	310.6	28.09	13.63
111	2008	34	1445	43.76	60.28	6.513	338.7	24.99	13.64
111	2008	34	1500	42.94	62.93	6.565	339	21.41	13.64
111	2008	34	1515	43.19	60.63	6.634	336.1	26.76	13.64
111	2008	34	1530	43.39	61.73	5.81	333.2	24.93	13.65
111	2008	34	1545	43.51	62.7	5.86	330.5	30.84	13.65
111	2008	34	1600	43.18	61.93	6.184	337.2	25.53	13.65
111	2008	34	1615	43.62	60.8	5.02	336.8	32.75	13.2
111	2008	34	1630	43.7	62.2	5.03	338.6	22.95	13
111	2008	34	1645	43.59	63.54	5.165	353.6	21.64	12.9
111	2008	34	1700	43.85	62.24	5.314	359.1	17.87	12.84
111	2008	34	1715	43.64	63.41	4.456	348	18.17	12.81
111	2008	34	1730	43.1	65.25	3.632	337.5	22.93	12.78
111	2008	34	1745	42.38	65.68	3.114	337	20.72	12.76
111	2008	34	1800	41.44	68.43	2.076	333.6	22.84	12.74
111	2008	34	1815	40.75	69.01	1.727	335.8	18.64	12.73
111	2008	34	1830	40.19	69.89	1.444	337.2	17.51	12.72
111	2008	34	1845	39.88	70.1	1.449	355.4	23.43	12.7
111	2008	34	1900	39.36	71.6	1.506	355.8	21.88	12.69
111	2008	34	1915	38.64	74.7	1.416	339.4	14.7	12.68
111	2008	34	1930	38.37	76.9	1.756	2.908	15.25	12.67
111	2008	34	1945	37.99	77.5	1.716	358.2	20.77	12.65
111	2008	34	2000	37.47	78.9	0.938	346.3	17.29	12.65
111	2008	34	2015	37	81.1	1.399	19.49	13.84	12.64
111	2008	34	2030	37.24	81.1	2.316	26.41	11.93	12.63
111	2008	34	2045	37.46	80.8	1.652	20.9	16.07	12.63
111	2008	34	2100	37.22	81.2	2.286	36.58	12.68	12.62
111	2008	34	2115	37.6	80.3	2.737	35.71	14.64	12.61
111	2008	34	2130	37.16	80.8	1.332	323.2	16.45	12.61
111	2008	34	2145	36.48	82.1	0.649	24.25	6.052	12.6
111	2008	34	2200	35.65	83.7	0.644	8.84	12.59	12.6
111	2008	34	2215	35.26	84.3	0.167	353.7	0.463	12.59
111	2008	34	2230	34.89	85	0.243	16.93	19.79	12.59
111	2008	34	2245	34.59	85.7	0.029	43.8	0.847	12.58
111	2008	34	2300	34.5	86.4	0.036	78	4.517	12.57
111	2008	34	2315	34.64	86.6	na	na	na	12.57
111	2008	34	2330	34.7	86.9	0.299	78.5	10.31	12.57
111	2008	34	2345	35.15	87	0.685	112.7	12.88	12.56
111	2008	34	2400	35.12	87.5	0.352	96.8	6.196	12.56
111	2008	35	15	34.99	87.6	0.118	81.4	2.165	12.56
111	2008	35	30	35.42	87.3	0.686	84.1	8.64	12.56
111	2008	35	45	35.16	87.7	1.321	293	11.46	12.55
111	2008	35	100	35.24	88.4	0.772	84.7	27.81	12.55
111	2008	35	115	35.16	88.3	0.506	355.8	15.52	12.55
111	2008	35	130	34.9	88.5	0.363	27.37	12.98	12.55
111	2008	35	145	34.81	89	0.77	129.1	28.61	12.54
111	2008	35	200	35.87	85.1	1.864	145.6	22.66	12.54
111	2008	35	215	36.36	81	1.99	156.8	18.36	12.53
111	2008	35	230	36.23	78.9	2.342	175.1	21.18	12.53
111	2008	35	245	36.11	77.5	2.666	169.3	32.52	12.53
111	2008	35	300	35.69	77.2	2.326	173.3	20.67	12.53
111	2008	35	315	35.55	76.4	3.183	171.5	21.96	12.52
111	2008	35	330	35.24	76.6	2.425	154.3	18.23	12.52

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	35	345	34.55	78.1	2.143	139.9	15.09	12.52
111	2008	35	400	34.12	78.9	2.359	149.7	22.79	12.52
111	2008	35	415	33.86	79.6	2.135	162	23.79	12.51
111	2008	35	430	33.57	80.1	2.454	154.3	19.18	12.51
111	2008	35	445	33.34	80	2.354	142.9	21.03	12.5
111	2008	35	500	33.26	79.1	2.429	157.5	23.36	12.49
111	2008	35	515	33.03	78.7	2.794	163.8	20.64	12.49
111	2008	35	530	32.84	78.5	2.252	155.3	26.52	12.49
111	2008	35	545	32.67	78.1	1.902	148.3	28.47	12.49
111	2008	35	600	32.28	78.8	2.206	162	22.59	12.48
111	2008	35	615	32.12	79.1	2.54	164.9	21.89	12.48
111	2008	35	630	31.96	79.4	2.532	155.8	23.8	12.48
111	2008	35	645	31.88	79.6	0.94	121.2	32.84	12.48
111	2008	35	700	31.92	79.8	1.242	161.5	21.87	12.47
111	2008	35	715	32.57	78.1	0.997	109.5	43.74	12.47
111	2008	35	730	32.93	78.5	1.032	147.5	31.06	12.47
111	2008	35	745	32.38	78.9	1.875	155.7	35.51	12.47
111	2008	35	800	32.53	78.1	1.543	146.5	31.52	12.47
111	2008	35	815	33.06	76.8	2.097	131.5	32.26	12.47
111	2008	35	830	33.39	76.1	2.16	149.9	31.39	12.48
111	2008	35	845	33.66	75.2	2.687	162.2	24.96	12.47
111	2008	35	900	34.02	74.1	3.15	155.4	24.47	12.47
111	2008	35	915	34.34	73.3	3.372	151.3	27.22	12.47
111	2008	35	930	34.69	72.3	4.041	166.3	24.36	12.48
111	2008	35	945	35.09	71.2	4.031	168.3	25.3	12.49
111	2008	35	1000	35.55	69.98	4.222	167	25.34	12.56
111	2008	35	1015	35.81	69.18	3.41	155.4	24.71	12.51
111	2008	35	1030	35.98	68.61	3.779	148.9	27.03	12.51
111	2008	35	1045	36.16	68.54	3.586	140.7	25.9	12.49
111	2008	35	1100	35.98	72.2	3.543	151.9	25.17	12.49
111	2008	35	1115	35.06	77.3	3.146	175.5	25.33	12.5
111	2008	35	1130	34.62	79.8	3.003	159.4	24.62	12.51
111	2008	35	1145	34.41	82.1	2.913	170.4	31.54	12.51
111	2008	35	1200	34.52	82.9	3.299	152.8	21.58	12.55
111	2008	35	1215	34.68	83.9	3.66	160.6	26.05	12.55
111	2008	35	1230	34.9	84.3	4.184	172.2	20.23	12.61
111	2008	35	1245	35.23	83.8	4.742	172.4	25.28	12.74
111	2008	35	1300	35.46	84.4	4.099	170.6	32.55	12.73
111	2008	35	1315	35.78	84.4	4.166	180.7	32.85	12.71
111	2008	35	1330	35.96	84.6	5.044	181.6	25.81	12.71
111	2008	35	1345	36.2	84.8	5.306	189.7	20.56	12.74
111	2008	35	1400	36.51	84.5	4.287	183.7	27.07	12.72
111	2008	35	1415	36.59	84	5.594	192.7	23.24	12.67
111	2008	35	1430	36.79	82.9	5.828	195.5	22.84	12.61
111	2008	35	1445	37.02	83.1	5.211	188.6	23.28	12.61
111	2008	35	1500	37.3	82.4	4.675	192.7	23.39	12.61
111	2008	35	1515	37.64	81.1	5.048	179.3	25.26	12.61
111	2008	35	1530	37.89	80.2	4.863	190.1	27.9	12.6
111	2008	35	1545	38.18	78.6	4.839	190.5	24.48	12.57
111	2008	35	1600	38.53	77.9	5.33	200.5	18.6	12.57
111	2008	35	1615	38.88	76.9	5.111	201.2	22.68	12.55
111	2008	35	1630	38.84	76.5	5.88	204.3	22.19	12.52
111	2008	35	1645	38.86	77	5.562	199.1	22.08	12.52
111	2008	35	1700	39.11	77.1	5.213	196.8	27.5	12.51
111	2008	35	1715	39.16	77.9	5.644	203.5	17.6	12.5
111	2008	35	1730	38.94	77.7	6.519	201	21.16	12.5
111	2008	35	1745	39.03	77.5	5.231	196.9	23.38	12.5
111	2008	35	1800	39.06	77.6	5.63	197.6	24.97	12.49
111	2008	35	1815	38.98	77.8	6.229	202.8	19.46	12.49
111	2008	35	1830	38.94	77.8	5.804	205.5	21.86	12.49

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	35	1845	38.89	77.8	6.078	201.3	19.67	12.49
111	2008	35	1900	38.93	77.8	6.34	210.3	20.07	12.49
111	2008	35	1915	38.93	78.4	6.61	209.5	21	12.49
111	2008	35	1930	39.01	78.9	7.39	201.1	15.79	12.48
111	2008	35	1945	39.09	79.2	6.829	203.9	22.82	12.48
111	2008	35	2000	39.28	79.7	7.09	203	20.72	12.48
111	2008	35	2015	39.48	79.8	6.217	197.5	21.93	12.47
111	2008	35	2030	39.54	79.8	6.356	199.5	22.02	12.48
111	2008	35	2045	39.66	80	5.856	193.7	21.78	12.48
111	2008	35	2100	39.66	80.1	4.808	193.5	27.95	12.48
111	2008	35	2115	39.67	80.2	5.072	194	20.03	12.47
111	2008	35	2130	39.67	80.1	4.621	190.8	24.39	12.47
111	2008	35	2145	39.9	78.9	5.443	200.4	23.2	12.47
111	2008	35	2200	40.24	78	6.442	203.9	22.27	12.47
111	2008	35	2215	40.4	78.3	6.517	204.4	17.92	12.47
111	2008	35	2230	40.49	80.8	6.638	208.3	20.17	12.47
111	2008	35	2245	40.44	82.8	6.408	204.8	20.33	12.47
111	2008	35	2300	40.35	83.5	6.605	201.8	22.68	12.47
111	2008	35	2315	40.4	84.3	6.873	210	18.09	12.46
111	2008	35	2330	40.16	86.6	6.815	213.3	18.02	12.45
111	2008	35	2345	40.06	87.6	5.874	208.9	19.41	12.45
111	2008	35	2400	40.03	88.4	6.021	210.4	20.38	12.45
111	2008	36	15	39.96	88.7	6.017	218.6	19.81	12.45
111	2008	36	30	39.96	89	5.507	213	17.39	12.45
111	2008	36	45	40.07	89.2	5.451	212.2	18.78	12.45
111	2008	36	100	40.23	89.4	5.669	223.7	19.67	12.45
111	2008	36	115	40.29	89.8	6.815	227.2	18.97	12.45
111	2008	36	130	40.36	90.3	7.1	229	17.16	12.44
111	2008	36	145	40.53	90.4	5.923	229.3	21.02	12.44
111	2008	36	200	40.77	90.5	5.761	223.5	18.66	12.44
111	2008	36	215	40.97	90.4	5.709	208.4	17.38	12.44
111	2008	36	230	40.95	90.7	5.193	218.7	22.73	12.44
111	2008	36	245	41.33	90.5	4.706	210.8	20.16	12.43
111	2008	36	300	41.77	90	5.098	213.2	17.61	12.43
111	2008	36	315	42.03	89.7	5.056	214.7	19.59	12.43
111	2008	36	330	42.27	89.4	5.503	232.5	18.87	12.43
111	2008	36	345	42.44	89.5	5.995	226.8	19.62	12.42
111	2008	36	400	42.44	89.7	6.035	235	19.27	12.43
111	2008	36	415	42.24	90.1	6.573	237.5	17.99	12.42
111	2008	36	430	42.05	90.7	6.417	240	14.55	12.42
111	2008	36	445	42.15	90.5	4.466	237.4	17.71	12.43
111	2008	36	500	42.14	90.6	4.029	240.2	14.7	12.42
111	2008	36	515	42.27	90.8	3.882	231.6	15.17	12.41
111	2008	36	530	42.45	90.8	5.163	242	14.79	12.41
111	2008	36	545	42.47	90.9	4.307	253.4	22.59	12.41
111	2008	36	600	42.33	91.1	3.1	260.7	18.2	12.41
111	2008	36	615	42.26	91.6	3.225	262.6	20.42	12.4
111	2008	36	630	42.52	91.8	3.866	263.9	19.21	12.4
111	2008	36	645	42.48	92.3	3.644	264.1	29.61	12.4
111	2008	36	700	42.73	92.7	4.544	275.3	25.34	12.4
111	2008	36	715	43.14	93	5	285.2	22.56	12.4
111	2008	36	730	43.32	93.4	5.054	301.3	23.47	12.4
111	2008	36	745	43.64	93.4	4.121	294.8	24.33	12.39
111	2008	36	800	43.72	93.8	3.964	289.3	28.29	12.39
111	2008	36	815	44.02	93.8	3.944	290.2	23.76	12.39
111	2008	36	830	44.36	93.7	4.293	297.5	25.89	12.39
111	2008	36	845	44.44	93.5	5.256	300.6	27.11	12.38
111	2008	36	900	44.52	93.4	5.066	317.7	27.66	12.39
111	2008	36	915	45.18	92.2	5.739	332.1	29.9	12.41
111	2008	36	930	45.47	91	6.757	342.5	25.75	12.43

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	36	945	45.7	89.5	6.342	333.4	23.23	12.63
111	2008	36	1000	45.83	88.4	7.64	346.3	19.91	12.97
111	2008	36	1015	46.63	86.6	7.29	339	27.36	13.22
111	2008	36	1030	46.25	87.3	7.36	342	23.03	12.98
111	2008	36	1045	45.54	88.7	7.7	341.8	22.48	12.96
111	2008	36	1100	45.21	88.9	6.573	341.1	22.86	12.92
111	2008	36	1115	44.88	89.3	5.646	340.8	25.59	12.84
111	2008	36	1130	44.58	89.7	5.755	342.5	28.18	12.79
111	2008	36	1145	44.23	90.4	5.096	347.2	29.45	12.76
111	2008	36	1200	44.26	90.4	4.41	20.86	17.7	12.73
111	2008	36	1215	44.55	90.2	3.232	315.5	29.24	12.71
111	2008	36	1230	44.83	89.8	3.163	294.3	30.94	12.71
111	2008	36	1245	45.32	88.7	4.097	335.2	28.96	13
111	2008	36	1300	45.33	88.3	5.034	351.3	23.04	12.95
111	2008	36	1315	45.44	88.3	4.553	4.263	21.62	12.93
111	2008	36	1330	45.99	87.4	3.009	352.3	24.78	12.85
111	2008	36	1345	46.44	87.3	2.487	331.6	23.85	12.85
111	2008	36	1400	46.93	86.1	2.21	329.6	29.35	12.88
111	2008	36	1415	47.04	85.8	2.46	330.7	21.77	12.77
111	2008	36	1430	47.04	85.8	3.312	349.2	19.02	12.73
111	2008	36	1445	47.33	85.5	3.019	344.4	30.39	12.7
111	2008	36	1500	47.8	85	2.85	7.7	24.82	12.68
111	2008	36	1515	48.37	84.6	3.122	346.7	39.2	12.68
111	2008	36	1530	48.26	86.8	2.419	318.7	22.14	12.7
111	2008	36	1545	47.68	88.1	2.936	333.9	17.67	12.66
111	2008	36	1600	46.99	89.3	2.753	319.1	24.98	12.65
111	2008	36	1615	46.9	88.9	3.874	309.8	30.88	12.66
111	2008	36	1630	46.82	88.2	5.119	344.3	29.11	12.64
111	2008	36	1645	46.92	87.9	5.985	347.9	23.97	12.62
111	2008	36	1700	46.78	87.9	6.734	344.2	21.47	12.61
111	2008	36	1715	47.03	87.6	4.976	14.72	18.42	12.61
111	2008	36	1730	47.65	87.4	5.135	353.1	21.09	12.6
111	2008	36	1745	48.54	86.1	6.057	8.5	21.48	12.58
111	2008	36	1800	49.49	84.9	6.255	24.22	19.35	12.58
111	2008	36	1815	50.08	84.5	5.538	21.89	16.29	12.57
111	2008	36	1830	50.25	84.2	4.899	30.67	14.87	12.56
111	2008	36	1845	50.39	84.1	4.661	13.44	15.23	12.55
111	2008	36	1900	50.23	84.2	3.344	26.02	22.8	12.54
111	2008	36	1915	50.09	84.4	1.488	18.1	24.36	12.53
111	2008	36	1930	48.87	84.9	2.665	314.6	18.31	12.52
111	2008	36	1945	45.93	88	3.17	335.1	22.25	12.51
111	2008	36	2000	44.94	89.7	3.533	348	25.49	12.5
111	2008	36	2015	44.9	90.2	2.452	7.9	23.79	12.49
111	2008	36	2030	44.83	90.7	0.902	43.02	33.52	12.48
111	2008	36	2045	44.78	90.6	0.871	330.4	20.47	12.47
111	2008	36	2100	44.8	90.6	0.689	69.15	8.74	12.46
111	2008	36	2115	44.71	91.1	1.308	347.2	24.24	12.45
111	2008	36	2130	44.95	91.1	1.828	15.58	10.76	12.45
111	2008	36	2145	45.84	91.4	2.598	12.57	18.5	12.44
111	2008	36	2200	47.22	90.2	3.666	16.25	13.19	12.43
111	2008	36	2215	48.14	88.9	4.174	12.67	19.09	12.43
111	2008	36	2230	48.71	87.8	3.982	8.33	23.23	12.42
111	2008	36	2245	48.68	88.1	2.085	349	16.26	12.42
111	2008	36	2300	48.04	89	2.504	0.576	17.64	12.42
111	2008	36	2315	47.57	89.5	2.028	6.044	18.76	12.41
111	2008	36	2330	47.67	89.6	3.148	1.789	23.75	12.41
111	2008	36	2345	47.82	89.6	2.455	11.54	17.44	12.4
111	2008	36	2400	47.38	89.9	0.637	350.1	20.75	12.39
111	2008	37	15	46.9	90.3	1.488	267.6	44.97	12.4
111	2008	37	30	46	90.7	0.677	323.7	24.43	12.39

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	37	45	45.34	91.3	2.31	6.792	27.75	12.39
111	2008	37	100	45.28	91.9	2.832	7.65	12.38	12.38
111	2008	37	115	45.37	92	3.088	7.58	9.17	12.38
111	2008	37	130	45.42	92.1	1.659	0.821	16.68	12.38
111	2008	37	145	45.35	92.2	1.565	353.7	26.88	12.39
111	2008	37	200	45.16	92.3	0.627	33.48	11.32	12.37
111	2008	37	215	44.83	92.3	1.308	255	23.24	12.37
111	2008	37	230	44.21	92.5	0.057	305.3	3.167	12.37
111	2008	37	245	44.01	92.8	2.32	306	19.1	12.37
111	2008	37	300	44.09	93.4	3.775	346.7	27.13	12.36
111	2008	37	315	44.92	93.5	3.493	346.5	22.1	12.36
111	2008	37	330	45.3	93.4	1.605	23.72	32.45	12.36
111	2008	37	345	45.31	93.3	0.376	24.75	45.99	12.36
111	2008	37	400	45	93.3	0.199	191.8	3.072	12.36
111	2008	37	415	44.84	93.5	0.23	217.6	16.8	12.35
111	2008	37	430	44.87	93.4	0.289	130.6	11.04	12.36
111	2008	37	445	44.65	93.6	2.269	303.4	11.01	12.36
111	2008	37	500	44.44	93.4	3.291	294.6	26.26	12.35
111	2008	37	515	43.6	93.6	1.666	284	26.63	12.35
111	2008	37	530	43.01	93.6	2.083	275.3	20.45	12.36
111	2008	37	545	42.43	93.7	1.928	266.8	20.44	12.35
111	2008	37	600	42.07	93.8	0.61	276	19.9	12.35
111	2008	37	615	42.25	94.2	0.063	241.9	12.24	12.34
111	2008	37	630	42.39	94.2	0.598	191.5	7.64	12.34
111	2008	37	645	42.6	94.5	0.767	273.3	16.63	12.34
111	2008	37	700	43.09	94.3	2.081	267	25.95	12.34
111	2008	37	715	42.91	94.3	1.923	281.4	25.93	12.33
111	2008	37	730	42.82	94.7	2.359	271.8	22.85	12.33
111	2008	37	745	43.6	94.9	2.774	299.6	34.76	12.33
111	2008	37	800	44.22	94.8	2.209	285.9	30.3	12.33
111	2008	37	815	44.83	94.7	2.985	280.8	32.88	12.33
111	2008	37	830	44.96	94.7	3.283	306.9	28.65	12.33
111	2008	37	845	45.57	94.8	4.387	322.5	32.22	12.33
111	2008	37	900	46.22	94.5	6.342	324.3	22.26	12.34
111	2008	37	915	46.61	94.3	4.774	326.4	30.46	12.34
111	2008	37	930	46.82	94.2	5.314	335.1	27.29	12.34
111	2008	37	945	47.06	93.8	6.293	352.1	25.98	12.34
111	2008	37	1000	47.05	93.6	5.848	337.4	27.57	12.34
111	2008	37	1015	46.84	93.7	6.724	330.1	23.55	12.34
111	2008	37	1030	46.98	93.5	6.497	343.3	21.23	12.4
111	2008	37	1045	47.34	92.9	6.698	343.2	24.13	12.43
111	2008	37	1100	47.69	92.7	6.928	343.4	26.37	12.43
111	2008	37	1115	48.69	91.3	6.99	353.4	23.19	12.69
111	2008	37	1130	49.88	89.6	7.08	355.6	21.17	12.98
111	2008	37	1145	52.06	85.7	7.95	3.22	21.46	13.1
111	2008	37	1200	53.37	83.5	7.53	4.979	19.39	13.13
111	2008	37	1215	54	82	6.035	13.91	16.9	13.04
111	2008	37	1230	54.47	81.3	5.022	357.2	19.05	13
111	2008	37	1245	54.81	79.9	4.7	353.9	18.49	13.02
111	2008	37	1300	55.55	77.6	3.531	335.3	27.49	13.06
111	2008	37	1315	55.15	79.1	4.063	328.6	22.87	13.07
111	2008	37	1330	54.35	79.2	4.321	335.4	27.7	13.04
111	2008	37	1345	53.87	79.5	4.051	329.5	25.33	13.03
111	2008	37	1400	54.96	77.3	3.946	324.8	25.45	13.13
111	2008	37	1415	55.75	76.1	4.551	329	22.52	13.02
111	2008	37	1430	55.9	76.3	4.395	339.1	24.68	12.98
111	2008	37	1445	55.69	75.5	3.892	337.3	28.31	12.94
111	2008	37	1500	54.92	76.3	4.46	335.2	21.92	12.82
111	2008	37	1515	55.12	76.6	4.297	348.8	23.09	12.81
111	2008	37	1530	57.88	71.9	4.287	345.9	26.67	12.79

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	37	1545	60.66	68.52	3.698	328.2	23.5	12.8
111	2008	37	1600	59.8	73.2	3.239	276.4	39.26	12.77
111	2008	37	1615	56.85	77.2	3.783	314	26.27	12.73
111	2008	37	1630	55.88	76.5	3.563	320.3	27.03	12.73
111	2008	37	1645	54.65	77.9	2.793	0.476	31.12	12.71
111	2008	37	1700	54.97	77.4	1.54	342.6	39.5	12.7
111	2008	37	1715	55.2	76.9	1.315	300.3	27.3	12.69
111	2008	37	1730	54.98	77.3	0.829	281.3	18.84	12.67
111	2008	37	1745	54.42	76.8	2.267	278.2	22.3	12.66
111	2008	37	1800	52.74	78.8	1.636	305.2	30.61	12.66
111	2008	37	1815	52.16	80.4	1.464	290.7	34.71	12.65
111	2008	37	1830	52.03	80.3	2.11	314.6	34.11	12.64
111	2008	37	1845	51.79	79.9	2.213	289.4	30.8	12.63
111	2008	37	1900	51.09	80.3	2.593	242.5	21.57	12.62
111	2008	37	1915	50.3	80.9	0.636	263.7	21.8	12.62
111	2008	37	1930	49.9	81.7	1.007	293.3	30.45	12.61
111	2008	37	1945	49.73	82.5	2.719	187.5	26.28	12.6
111	2008	37	2000	49.87	82.7	1.96	190.4	26.81	12.6
111	2008	37	2015	50.21	82.6	3.446	175.1	27.02	12.58
111	2008	37	2030	50.43	83.1	3.557	222.3	23.51	12.58
111	2008	37	2045	49.61	84.5	2.856	235.5	34.5	12.57
111	2008	37	2100	49.29	85.2	2.546	207.6	19.13	12.56
111	2008	37	2115	49.24	85.5	3.036	207.6	16.9	12.55
111	2008	37	2130	49.2	86.9	4.512	198.9	23.08	12.55
111	2008	37	2145	49.1	88	4.184	184.5	29.87	12.54
111	2008	37	2200	48.19	89.4	4.182	187.2	25.52	12.54
111	2008	37	2215	47.73	90.1	4.285	167.1	23.44	12.53
111	2008	37	2230	47.47	90.6	4.452	174.8	21.75	12.52
111	2008	37	2245	47.09	90.9	3.946	184.3	28.18	12.52
111	2008	37	2300	46.96	91.2	4.816	198.4	23.85	12.51
111	2008	37	2315	47.01	91.2	4.692	222.3	21	12.5
111	2008	37	2330	46.61	91.4	5.012	211.7	15.75	12.5
111	2008	37	2345	45.95	91.5	3.855	206.9	25.07	12.5
111	2008	37	2400	45.2	91.8	4.875	195.2	18.52	12.49
111	2008	38	15	45.01	91.9	4.706	209.1	20.61	12.49
111	2008	38	30	44.97	92	4.303	199.6	18.43	12.48
111	2008	38	45	45.1	92.1	4.472	199.4	20.23	12.47
111	2008	38	100	45.22	92	4.536	205.8	18.77	12.47
111	2008	38	115	45.45	91.8	4.154	194.5	19.88	12.46
111	2008	38	130	45.5	92	4.784	202.7	17.44	12.46
111	2008	38	145	45.59	91.8	4.567	186.7	22.02	12.45
111	2008	38	200	45.43	91.9	5.05	195.3	17.19	12.45
111	2008	38	215	45.35	92.1	3.307	205.5	26.92	12.44
111	2008	38	230	45.42	92.2	3.575	216.7	29.25	12.44
111	2008	38	245	45.64	92	3.215	191.3	28.21	12.43
111	2008	38	300	45.52	91.9	2.93	157.7	30.4	12.43
111	2008	38	315	45.02	89.7	6.378	109.1	28.33	12.42
111	2008	38	330	40.58	91.8	12.57	102	28.66	12.42
111	2008	38	345	39.49	92.7	9.74	122.2	31.12	12.41
111	2008	38	400	40.06	92.3	8.89	128.6	28.83	12.39
111	2008	38	415	40.22	91.8	7.68	109.5	28.4	12.39
111	2008	38	430	40.18	91.6	5.721	123.5	28.1	12.38
111	2008	38	445	39.83	91	5.751	125.4	27.24	12.38
111	2008	38	500	39.37	91.1	5.503	120.5	30.66	12.37
111	2008	38	515	38.94	90.9	5.123	130.5	28.58	12.37
111	2008	38	530	38.33	90.5	6.132	134.4	30.73	12.36
111	2008	38	545	37.91	90.1	5.576	139.7	32.3	12.35
111	2008	38	600	37.71	89.9	4.553	132.8	27.38	12.35
111	2008	38	615	37.45	90.2	3.837	129.9	27.78	12.35
111	2008	38	630	37.23	90.2	4.774	145	23.45	12.33

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	38	645	37.11	89.9	4.486	153.8	25.25	12.33
111	2008	38	700	37.04	89.8	3.517	132	33.06	12.33
111	2008	38	715	36.94	89.3	4.679	140.7	17.22	12.32
111	2008	38	730	36.65	89.4	2.678	152.8	31.38	12.32
111	2008	38	745	36.42	89.5	2.914	140	24.83	12.31
111	2008	38	800	36.48	89.6	2.227	127.8	29.59	12.3
111	2008	38	815	36.46	89.6	2.836	142.5	28.63	12.31
111	2008	38	830	36.7	89.2	1.439	122.7	31.46	12.31
111	2008	38	845	36.84	88.9	1.808	77.5	23.2	12.3
111	2008	38	900	36.95	88.7	2.467	105.5	24.69	12.3
111	2008	38	915	37.21	88.5	2.628	62.82	40.92	12.3
111	2008	38	930	37.22	88.7	2.699	48.19	17.63	12.29
111	2008	38	945	37.31	88.5	2.479	68.93	26.25	12.29
111	2008	38	1000	37.42	88.7	2.705	34.89	25.18	12.29
111	2008	38	1015	37.54	88.4	2.572	10.38	22.05	12.3
111	2008	38	1030	37.57	88.5	2.325	19.63	23.79	12.32
111	2008	38	1045	37.67	88.3	1.027	314.8	19.69	12.33
111	2008	38	1100	37.86	88.6	1.22	338.2	30.65	12.36
111	2008	38	1115	38.47	88.9	0.892	114.4	54.32	12.46
111	2008	38	1130	39.61	87.5	1.77	192.6	33.95	12.73
111	2008	38	1145	41.31	85.4	1.627	181.1	44.79	13.69
111	2008	38	1200	43.21	80.8	1.715	263.3	84.8	13.65
111	2008	38	1215	43.82	78.2	3.93	300.3	28.77	13.63
111	2008	38	1230	43.12	79.1	5.05	298	23.52	13.62
111	2008	38	1245	43.46	78.3	4.456	311.3	29.23	13.26
111	2008	38	1300	43.95	75.4	3.878	341.5	28.95	13.1
111	2008	38	1315	43.91	75.3	4.504	348.5	26.71	13.13
111	2008	38	1330	43.16	77.7	4.621	327.2	23.32	13.14
111	2008	38	1345	41.92	79.8	5.338	340.5	18.97	12.86
111	2008	38	1400	41.11	81.5	4.412	346.8	23.34	12.78
111	2008	38	1415	40.48	84.3	5.981	333.4	23.62	12.77
111	2008	38	1430	40.13	85.5	5.727	335.2	20.77	12.79
111	2008	38	1445	40.64	84.8	4.299	337.6	24.83	12.79
111	2008	38	1500	41.86	79.3	5.117	348.1	24.42	13.03
111	2008	38	1515	43.32	72	4.565	350.1	23.28	13.07
111	2008	38	1530	45.52	51.73	6.863	25.47	30.29	13.27
111	2008	38	1545	46.89	50.49	7.94	49.01	21.9	12.91
111	2008	38	1600	46.68	49.82	6.019	32.47	19.78	12.91
111	2008	38	1615	47.16	45.03	6.716	38.35	26.86	12.89
111	2008	38	1630	46.85	45.6	6.245	30.4	21.07	12.82
111	2008	38	1645	47.09	42.32	5.991	28	19.73	12.82
111	2008	38	1700	47.8	42.52	7.85	21.36	18.98	12.77
111	2008	38	1715	47.14	41.78	8.25	31.06	20.2	12.74
111	2008	38	1730	46.54	43.82	9.07	37.26	15.5	12.72
111	2008	38	1745	46.03	45.13	8.3	31.75	14.21	12.7
111	2008	38	1800	45.74	45.53	6.7	29.88	15.61	12.69
111	2008	38	1815	45.34	46.7	5.459	25.99	16.88	12.68
111	2008	38	1830	44.83	47.81	6.172	40.57	20.85	12.66
111	2008	38	1845	44.44	47.57	6.011	38.35	17.73	12.66
111	2008	38	1900	44.15	49.11	4.718	47.55	16.63	12.64
111	2008	38	1915	43.65	50.42	4.379	45.18	15.7	12.64
111	2008	38	1930	43.1	53.01	3.046	20.75	17.28	12.63
111	2008	38	1945	42.49	53.95	2.886	44.44	15.28	12.61
111	2008	38	2000	42.37	55.99	3.448	73.1	23.82	12.61
111	2008	38	2015	41.87	60.25	3.154	90	18.01	12.6
111	2008	38	2030	41.51	61.99	4.22	93.9	27.77	12.59
111	2008	38	2045	40.88	63.8	1.99	67.95	20.26	12.57
111	2008	38	2100	40.02	66.21	0.711	100.7	18.8	12.57
111	2008	38	2115	39.13	69.83	0.855	64.33	11.24	12.56
111	2008	38	2130	38.35	72.5	0.422	169.8	46.68	12.55

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	38	2145	37.43	74.7	0.997	2.559	49.84	12.54
111	2008	38	2200	36.12	77.7	0.399	72.7	14.49	12.53
111	2008	38	2215	35.55	79.7	1.215	9.56	48.37	12.52
111	2008	38	2230	34.72	81.4	0.562	15.48	15.29	12.51
111	2008	38	2245	34.12	83.2	0.525	48.51	14.85	12.51
111	2008	38	2300	34.2	84.1	0.86	113.8	37.84	12.5
111	2008	38	2315	34.63	83.8	0.7	86.8	11.28	12.49
111	2008	38	2330	35.2	83.3	0.618	108.6	18.69	12.49
111	2008	38	2345	35.7	82.8	1.118	95.5	24.95	12.48
111	2008	38	2400	36.35	82.3	0.899	95.8	16	12.48
111	2008	39	15	36.78	83.5	2.265	147.8	33.79	12.47
111	2008	39	30	37.19	85.2	3.592	207.9	23	12.47
111	2008	39	45	37.17	85.9	2.189	216.8	24.88	12.47
111	2008	39	100	37.16	86.4	2.292	240.2	33.77	12.47
111	2008	39	115	37.15	86.7	2.218	186.6	26.53	12.47
111	2008	39	130	37.05	87	2.629	170.2	24.55	12.47
111	2008	39	145	36.97	87.1	2.78	185.1	43.98	12.45
111	2008	39	200	36.94	86.9	2.936	212.8	24.13	12.45
111	2008	39	215	36.84	86.9	2.95	175.4	36.4	12.45
111	2008	39	230	36.76	86.8	2.761	182.3	27.49	12.45
111	2008	39	245	36.74	86.7	2.254	172.2	26.94	12.44
111	2008	39	300	36.68	86.6	2.564	151.4	27.44	12.43
111	2008	39	315	36.59	86.6	2.397	175.1	22.46	12.43
111	2008	39	330	36.51	86.8	1.943	160	25.34	12.43
111	2008	39	345	36.34	87	2.353	161.4	25.77	12.43
111	2008	39	400	36.34	87	2.342	132.8	28.91	12.41
111	2008	39	415	36.39	87	2.309	124.3	21.97	12.41
111	2008	39	430	36.39	87	2.516	139.2	23.85	12.4
111	2008	39	445	36.37	86.8	3.678	150	22.14	12.4
111	2008	39	500	35.9	87.3	4.428	149.3	22.89	12.39
111	2008	39	515	35.75	87.5	3.777	145.4	30.43	12.39
111	2008	39	530	35.71	87.6	3.485	139.3	27.75	12.38
111	2008	39	545	35.69	87.9	3.569	146.6	23.14	12.37
111	2008	39	600	35.58	88	3.853	131	27.6	12.37
111	2008	39	615	35.02	88.3	3.66	132.3	35.35	12.36
111	2008	39	630	34.57	88.9	4.19	148.2	26.33	12.36
111	2008	39	645	34.34	89.4	4.025	147.9	32.1	12.35
111	2008	39	700	34.39	89.3	4.593	125.4	25.13	12.35
111	2008	39	715	34.63	89.4	3.453	109.9	26.81	12.33
111	2008	39	730	34.82	88.8	4.236	110.2	26.59	12.33
111	2008	39	745	34.5	88.9	3.638	133.1	21.18	12.33
111	2008	39	800	34.3	88.8	4.097	132.3	26.9	12.32
111	2008	39	815	34.15	89.1	4.752	132.9	27.75	12.31
111	2008	39	830	34.28	88.8	4.643	131.1	26.12	12.31
111	2008	39	845	34.3	89	3.86	132.3	29.58	12.31
111	2008	39	900	34.35	88.9	4.206	126.8	20.71	12.31
111	2008	39	915	34.49	88.6	3.89	131.1	23.42	12.31
111	2008	39	930	34.56	88.6	3.922	141	30.77	12.31
111	2008	39	945	34.61	88.5	4.025	140.9	29.03	12.31
111	2008	39	1000	34.79	88.5	3.349	135.1	25.56	12.33
111	2008	39	1015	35.16	88.1	3.283	116.2	25.94	12.35
111	2008	39	1030	35.42	87.1	3.999	109.3	24.51	12.4
111	2008	39	1045	35.46	87	4.776	114.8	25.98	12.47
111	2008	39	1100	35.69	86.6	4.272	119	29.64	12.59
111	2008	39	1115	36.01	85	4.496	114	29.15	12.59
111	2008	39	1130	35.95	85.6	4.933	113.9	27.06	12.82
111	2008	39	1145	36.05	84.4	5.169	122.6	27.34	12.88
111	2008	39	1200	36.34	83.1	4.7	108.3	25.98	13.03
111	2008	39	1215	36.83	82.5	4.853	112.7	26.27	13.16
111	2008	39	1230	36.97	82.5	5.006	129.6	28.81	13.15

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	39	1245	37.65	79.7	4.456	122.9	28.03	13.21
111	2008	39	1300	37.68	80.2	4.488	104.7	30.83	13.12
111	2008	39	1315	37.76	78.9	3.592	106.1	31.41	13.19
111	2008	39	1330	38.13	79.4	2.505	71.6	53.55	13.23
111	2008	39	1345	38.79	75.7	2.926	125.2	30.74	13.69
111	2008	39	1400	39.38	74.1	3.343	125.6	35.02	13.64
111	2008	39	1415	39.71	72.1	4.015	119.3	25.29	13.21
111	2008	39	1430	39.98	70.8	5.505	111.1	26.26	13.69
111	2008	39	1445	40.26	69.51	5.006	110.4	31.55	13.69
111	2008	39	1500	40.51	64.92	4.899	74.7	27.25	13.68
111	2008	39	1515	41.05	63.07	4.778	100.2	30.27	13.67
111	2008	39	1530	41.68	60.13	3.912	85.5	33.92	13.67
111	2008	39	1545	42.35	58.42	4.498	70.4	31.51	13.19
111	2008	39	1600	42.15	56.55	4.039	66.5	30.57	13.14
111	2008	39	1615	42.87	51.69	5.975	75.2	24.85	13.11
111	2008	39	1630	42.97	53.57	7.05	82.3	23.18	13.09
111	2008	39	1645	43.04	53.23	5.616	77.6	30.82	13
111	2008	39	1700	43.06	49.88	5.616	81.1	21.88	12.93
111	2008	39	1715	43.36	49.82	5.119	97.3	23.5	12.85
111	2008	39	1730	42.99	50.62	4.591	86.8	29.44	12.79
111	2008	39	1745	42.61	52.36	3.72	88.4	26.38	12.75
111	2008	39	1800	41.98	53.93	3.513	112.1	27.42	12.73
111	2008	39	1815	41.29	55.64	2.413	122.1	28.61	12.71
111	2008	39	1830	40.52	56.59	2.529	122.4	21.9	12.69
111	2008	39	1845	40.13	57.2	1.865	93.7	24.45	12.68
111	2008	39	1900	39.59	58.34	1.455	64.84	18.57	12.67
111	2008	39	1915	38.92	59.75	0.871	65.3	13.47	12.65
111	2008	39	1930	38.04	61.49	0.083	9.83	18.74	12.64
111	2008	39	1945	36.84	66.02	0.164	116.2	24.69	12.63
111	2008	39	2000	36.13	69.21	0.143	68.06	4.359	12.61
111	2008	39	2015	35.54	71.1	0.59	62.9	9.27	12.6
111	2008	39	2030	34.44	73.7	0.101	349.4	3.054	12.59
111	2008	39	2045	33.77	76.1	na	na	na	12.58
111	2008	39	2100	33.37	78.5	na	na	na	12.56
111	2008	39	2115	33.54	78.3	na	na	na	12.56
111	2008	39	2130	34.17	75.5	1.155	84	5.144	12.56
111	2008	39	2145	35.36	73.5	0.974	78.8	6.585	12.55
111	2008	39	2200	35.46	73.9	0.065	67.2	2.125	12.55
111	2008	39	2215	36.02	72	0.414	95.5	6.924	12.55
111	2008	39	2230	36.23	73	0.058	301	1.135	12.54
111	2008	39	2245	35.99	75	na	na	na	12.53
111	2008	39	2300	35.99	76.1	0.271	23.92	4.12	12.53
111	2008	39	2315	35.79	75.4	na	na	na	12.53
111	2008	39	2330	35.12	76	na	na	na	12.52
111	2008	39	2345	33.93	78.4	0.065	49.4	0.733	12.52
111	2008	39	2400	33.14	80.6	0.192	356.2	12.48	12.51
111	2008	40	15	32.35	81.9	na	na	na	12.5
111	2008	40	30	31.76	83.6	0.123	13.15	1.104	12.49
111	2008	40	45	31.21	84.6	0.171	25.75	8.4	12.48
111	2008	40	100	30.77	85.6	0.283	42.13	19.63	12.48
111	2008	40	115	30.39	86.4	0.212	69.65	2.781	12.47
111	2008	40	130	30.11	86.5	0.018	79.5	0.028	12.47
111	2008	40	145	29.88	87	0.23	82.7	4.862	12.45
111	2008	40	200	29.57	87.5	0.009	223.1	0	12.45
111	2008	40	215	29.11	87.8	na	na	na	12.45
111	2008	40	230	28.79	88.3	0.033	95.3	2.578	12.44
111	2008	40	245	28.55	88.9	na	na	na	12.43
111	2008	40	300	28.46	89.4	0.026	86.1	0.892	12.43
111	2008	40	315	28.36	89.5	na	na	na	12.43
111	2008	40	330	28.3	89.9	0.009	110.4	0.007	12.42

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	40	345	28.28	89.9	na	na	na	12.41
111	2008	40	400	28.41	90.3	0.009	128	0	12.41
111	2008	40	415	28.9	90.3	0.027	106	1.099	12.4
111	2008	40	430	29.22	89.9	na	na	na	12.4
111	2008	40	445	29.41	90	0.009	105.8	0.006	12.4
111	2008	40	500	29.68	90	na	na	na	12.39
111	2008	40	515	29.89	89.7	0.018	138.9	1.051	12.39
111	2008	40	530	30.09	89.2	0.009	128.6	0	12.39
111	2008	40	545	29.68	89.5	na	na	na	12.38
111	2008	40	600	29.52	89.7	na	na	na	12.38
111	2008	40	615	29.77	89.8	na	na	na	12.38
111	2008	40	630	29.81	89.6	na	na	na	12.38
111	2008	40	645	29.74	89.6	na	na	na	12.38
111	2008	40	700	29.68	89.7	na	na	na	12.37
111	2008	40	715	29.72	90	na	na	na	12.36
111	2008	40	730	30.1	89.8	0.08	17.1	0.943	12.36
111	2008	40	745	30.02	90.1	na	na	na	12.35
111	2008	40	800	30.08	90.1	0.086	86.6	4.072	12.35
111	2008	40	815	30.36	90.1	0.215	129.7	10.56	12.35
111	2008	40	830	30.75	89.9	0.018	138.9	0.273	12.33
111	2008	40	845	31.17	89.9	0.353	159.6	12.44	12.34
111	2008	40	900	32.02	89.1	0.374	131	18.27	12.33
111	2008	40	915	32.58	88.4	0.403	147.6	13.29	12.33
111	2008	40	930	33.4	87.3	0.537	127.2	17.03	12.44
111	2008	40	945	34.73	84.2	1.415	176.1	27.88	12.6
111	2008	40	1000	36.5	79.7	1.221	195.4	28.58	12.93
111	2008	40	1015	37.99	72	2.918	214.8	24.75	13.21
111	2008	40	1030	38.63	68.41	3.805	210	21.24	13.11
111	2008	40	1045	39.44	63.14	3.71	223.3	20.82	13.79
111	2008	40	1100	39.55	62.8	3.805	232	25.11	13.07
111	2008	40	1115	39.58	63.5	4.343	238.4	19.36	13.11
111	2008	40	1130	39.94	63.8	4.043	235.7	25.84	13.2
111	2008	40	1145	39.86	67.58	5.306	242	20.73	13.16
111	2008	40	1200	39.84	67.75	4.563	232	25.67	13.19
111	2008	40	1215	40.41	63.73	4.081	254	23.78	13.15
111	2008	40	1230	40.45	65.67	3.718	254.1	22	13.08
111	2008	40	1245	40.36	67.41	3.616	235.5	26.92	13.03
111	2008	40	1300	40.06	67.31	4.476	241.3	22.19	12.85
111	2008	40	1315	39.85	69.72	5.034	247.5	18.26	12.81
111	2008	40	1330	39.68	70.9	5.27	268.1	27.45	12.81
111	2008	40	1345	39.56	69.66	5.155	273.2	21.81	12.85
111	2008	40	1400	39.97	69.59	4.897	260.8	23.91	12.89
111	2008	40	1415	40.3	69.59	4.548	250.6	25.39	12.85
111	2008	40	1430	40.38	68.92	5.044	240.5	17.24	12.86
111	2008	40	1445	40.44	70.6	5.157	241.4	17.15	12.8
111	2008	40	1500	40.65	71.7	3.954	251.8	25.78	12.73
111	2008	40	1515	40.71	74	4.679	243.4	23.42	12.72
111	2008	40	1530	40.66	75.3	5.532	241.5	17.14	12.72
111	2008	40	1545	40.68	75.9	5.435	236.8	19.82	12.72
111	2008	40	1600	40.74	76.1	4.833	231.1	18.4	12.73
111	2008	40	1615	40.92	76.3	4.647	235.7	19.99	12.69
111	2008	40	1630	40.8	76.6	4.704	226.2	18.54	12.66
111	2008	40	1645	40.73	78.6	5.296	228.9	20.22	12.65
111	2008	40	1700	40.44	81.4	4.877	222.9	19.9	12.64
111	2008	40	1715	40.13	83.6	5.338	218.9	17.24	12.63
111	2008	40	1730	39.89	85.3	4.295	214.4	21.8	12.61
111	2008	40	1745	39.94	85.6	4.015	209.2	22.03	12.61
111	2008	40	1800	39.94	86.7	4.54	218	19.04	12.59
111	2008	40	1815	39.79	88.3	4.949	209	20.68	12.59
111	2008	40	1830	39.76	89.1	4.488	201.9	27.03	12.57

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	40	1845	39.79	89.3	3.886	201.4	28.52	12.57
111	2008	40	1900	39.87	89.3	4.422	214.2	23.39	12.56
111	2008	40	1915	39.86	89	6.257	231.1	14.49	12.55
111	2008	40	1930	39.84	89.1	6.501	229.8	16.31	12.54
111	2008	40	1945	40.14	88.7	5.415	223.5	19.2	12.53
111	2008	40	2000	40.38	88.7	3.397	215.4	28.1	12.52
111	2008	40	2015	40.54	88.7	3.233	198.2	24.19	12.52
111	2008	40	2030	40.55	88.7	2.336	211.4	22.97	12.51
111	2008	40	2045	40.22	89.2	2.161	203.9	22.54	12.5
111	2008	40	2100	39.78	89.8	1.046	196	25.82	12.49
111	2008	40	2115	39.84	90.1	1.517	197.4	20.96	12.48
111	2008	40	2130	39.99	90.2	0.16	188.3	9.08	12.46
111	2008	40	2145	39.78	90.3	0.444	104.7	14.39	12.46
111	2008	40	2200	39.03	90.7	0.864	103.4	29.5	12.45
111	2008	40	2215	38.45	91.1	1.015	104.7	14.35	12.44
111	2008	40	2230	38.17	91.6	0.591	95.1	16.86	12.43
111	2008	40	2245	37.98	91.7	0.589	138.1	25.44	12.43
111	2008	40	2300	37.63	92.2	0.469	99	10.82	12.41
111	2008	40	2315	37.32	92.8	1.255	162.6	16.05	12.41
111	2008	40	2330	37.16	92.4	na	na	na	12.4
111	2008	40	2345	36.84	92.8	na	na	na	12.39
111	2008	40	2400	36.98	93.2	1.277	9.9	11.56	12.38
111	2008	41	15	37.29	93.1	0.77	24.18	11.66	12.39
111	2008	41	30	37.48	93.6	0.847	302.4	68.56	12.37
111	2008	41	45	38.3	93.9	3.239	64.03	17.99	12.37
111	2008	41	100	40.04	92	10.26	34.65	19.25	12.37
111	2008	41	115	41.03	89.8	11.9	30.82	15.8	12.37
111	2008	41	130	40.96	88.8	10.83	30.78	16.29	12.37
111	2008	41	145	40.8	88.5	5.878	30.23	17.78	12.36
111	2008	41	200	40.7	88.5	4.059	31.38	16.35	12.36
111	2008	41	215	40.64	88.8	3.598	58.74	31.77	12.36
111	2008	41	230	39.85	89.4	2.706	104.2	30.17	12.36
111	2008	41	245	39.19	89.7	0.881	113.5	17.16	12.36
111	2008	41	300	38.77	90.3	0.297	127.3	8.91	12.35
111	2008	41	315	38.35	90.6	na	na	na	12.35
111	2008	41	330	37.79	90.9	na	na	na	12.35
111	2008	41	345	37.26	91.4	na	na	na	12.34
111	2008	41	400	36.93	91.7	na	na	na	12.33
111	2008	41	415	36.55	91.9	na	na	na	12.33
111	2008	41	430	36.32	92.2	na	na	na	12.32
111	2008	41	445	36.1	92.8	na	na	na	12.32
111	2008	41	500	36.42	92.6	na	na	na	12.31
111	2008	41	515	35.9	92.7	na	na	na	12.31
111	2008	41	530	35.5	93	na	na	na	12.3
111	2008	41	545	35.72	93.7	1.009	347.9	10.36	12.3
111	2008	41	600	36.11	93.2	0.437	340.6	8.51	12.29
111	2008	41	615	35.25	93	0.579	339.6	9.79	12.29
111	2008	41	630	35.19	94	1.546	340.7	14.12	12.28
111	2008	41	645	35.49	93.9	1.877	341.8	13.86	12.28
111	2008	41	700	35.99	94.1	2.697	341	20.11	12.28
111	2008	41	715	36.38	94.1	2.774	344.8	18.78	12.28
111	2008	41	730	36.66	94.1	2.536	342.1	25.58	12.28
111	2008	41	745	36.76	94	2.788	337.6	18.98	12.27
111	2008	41	800	37.16	93.6	3.68	339.8	26.01	12.27
111	2008	41	815	37.59	93.4	3.976	333.3	20.9	12.27
111	2008	41	830	38.27	93.1	4.264	329.2	24.69	12.41
111	2008	41	845	39.14	92	4.939	333.7	28.7	13.19
111	2008	41	900	40.29	90.3	5.207	323	21.84	13.74
111	2008	41	915	41.3	88.2	4.887	325.7	29.28	12.95
111	2008	41	930	40.96	85.9	5.375	333.1	26.14	12.75

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	41	945	40.81	82.7	5.594	344.8	26.41	12.69
111	2008	41	1000	41.05	77.6	5.862	359.7	30.8	12.65
111	2008	41	1015	41.67	73	5.753	1.107	30.54	12.61
111	2008	41	1030	42.07	69.52	7.64	14.99	17.55	12.59
111	2008	41	1045	42.2	69.39	9.34	1.752	18.61	12.57
111	2008	41	1100	42.01	66.61	11.4	12.11	15.64	12.65
111	2008	41	1115	42	63.03	11.77	20.11	19.08	13.05
111	2008	41	1130	42.14	60.88	14.35	22.58	17.7	13.12
111	2008	41	1145	42.04	62.12	14	22.42	15.64	13.22
111	2008	41	1200	41.56	59.37	10.13	22.25	19.23	13.13
111	2008	41	1215	41.82	54.58	10.95	19.14	17.16	13.67
111	2008	41	1230	43.08	44.1	11.93	23.84	21.72	13.64
111	2008	41	1245	43.35	45.33	13.29	35.13	19.7	13.18
111	2008	41	1300	43.11	41.85	16.1	24.96	18.44	13.25
111	2008	41	1315	43.11	45.2	14.17	23.55	18.4	13.17
111	2008	41	1330	42.91	42.02	14.42	28.55	18.01	13.56
111	2008	41	1345	43.6	39.6	11.07	42.99	22.72	13.61
111	2008	41	1400	43.81	34.62	10.9	36.89	20.14	13.6
111	2008	41	1415	43.57	27.99	11.96	33.31	16.88	13.14
111	2008	41	1430	43.69	24.84	17.01	22.7	14.92	13.61
111	2008	41	1445	43.34	26.71	17.63	26.28	17.87	13.6
111	2008	41	1500	43.17	25.58	16.27	27.18	18.01	13.24
111	2008	41	1515	43.03	27.05	14.66	23.05	22.86	13.41
111	2008	41	1530	42.18	27.18	13.01	25	18.36	13.07
111	2008	41	1545	41.28	33.41	11.52	24.61	21.47	12.88
111	2008	41	1600	40.06	31.14	14.34	15.1	18.65	12.95
111	2008	41	1615	40.04	30.91	13.96	20.24	17.78	12.82
111	2008	41	1630	39.56	30.27	15.71	16.96	17.81	12.82
111	2008	41	1645	39.72	32.75	14.88	29.96	18.29	12.85
111	2008	41	1700	38.92	40.02	14.55	25.68	19.13	12.79
111	2008	41	1715	37.63	36.57	15.23	19.23	20.99	12.73
111	2008	41	1730	36.95	61.72	17.03	25.78	21.89	12.71
111	2008	41	1745	32.83	67.55	12.2	45.29	21.49	12.69
111	2008	41	1800	32.57	62.06	11.64	36.97	18.8	12.67
111	2008	41	1815	32.76	60.43	13.6	43.56	17.88	12.66
111	2008	41	1830	30.15	89.4	13.89	55.09	22.72	12.64
111	2008	41	1845	27.43	72.4	13.23	66.24	22.18	12.63
111	2008	41	1900	28.36	63.29	12.06	68	19.6	12.61
111	2008	41	1915	28.61	56.93	10.58	61.52	23.38	12.6
111	2008	41	1930	28.59	49.23	11.65	54.31	20.22	12.58
111	2008	41	1945	27.81	45.68	15.01	55.21	20.25	12.58
111	2008	41	2000	26.97	44.67	14.45	52.94	19.09	12.56
111	2008	41	2015	26.68	45.41	12.46	41.92	20.74	12.55
111	2008	41	2030	25.57	57.81	15.5	46.23	20.93	12.54
111	2008	41	2045	24.16	37.64	12.05	63.82	20.69	12.53
111	2008	41	2100	24.28	34.93	14.19	56.35	18.99	12.52
111	2008	41	2115	23.8	36.97	11.85	65.45	24.83	12.51
111	2008	41	2130	23.02	38.35	10.33	65.26	22.09	12.5
111	2008	41	2145	22.29	38.05	11.57	67.09	24.52	12.5
111	2008	41	2200	21.5	36.51	10.76	65.34	23.77	12.49
111	2008	41	2215	20.59	35.77	11.54	62.8	24.94	12.48
111	2008	41	2230	19.99	37.65	12.25	73.7	23.73	12.47
111	2008	41	2245	19.76	35.91	9.71	58.37	28.26	12.46
111	2008	41	2300	19.1	28.9	12.61	68.47	23.16	12.46
111	2008	41	2315	18.24	28.2	12.66	56.29	23.55	12.45
111	2008	41	2330	17.53	27.03	13.86	52.84	19.86	12.44
111	2008	41	2345	17.06	26.26	15.13	51.17	20.92	12.43
111	2008	41	2400	16.32	26.76	12.5	59.68	17.12	12.43
111	2008	42	15	15.98	28.37	13.6	57.31	21.29	12.42
111	2008	42	30	15.51	29.68	12.8	64.87	20.43	12.41

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	42	45	15.16	28.2	11.15	68.59	25.49	12.4
111	2008	42	100	14.79	28.21	13.23	54.01	19.97	12.4
111	2008	42	115	14.3	28.58	13.89	60.7	20.56	12.39
111	2008	42	130	13.86	31.19	12.16	56.49	23.01	12.39
111	2008	42	145	13.58	32.1	12.98	47.96	20.73	12.37
111	2008	42	200	13.42	30.79	13.62	51.12	20.59	12.37
111	2008	42	215	13.25	33.38	10.04	57.83	21.36	12.36
111	2008	42	230	13.04	35.22	10.35	47.47	22.3	12.36
111	2008	42	245	12.66	37.1	12.14	46.08	17.57	12.35
111	2008	42	300	12.41	35.99	11.36	43.43	19.57	12.35
111	2008	42	315	12.12	34.52	12.67	52.38	20.58	12.34
111	2008	42	330	11.82	33.38	12.53	46.88	18.54	12.33
111	2008	42	345	11.74	33.45	10.1	50.8	22.3	12.33
111	2008	42	400	11.6	33.71	11.32	46.42	21.51	12.32
111	2008	42	415	11.47	33.88	9.54	54.18	20.88	12.32
111	2008	42	430	11.36	32.77	10.47	50.48	21.86	12.31
111	2008	42	445	11.29	31.63	10.73	45.74	21.49	12.31
111	2008	42	500	11.19	31.97	11.6	55.26	17.89	12.31
111	2008	42	515	11.09	33.01	10.26	40.77	24.65	12.29
111	2008	42	530	11.06	32.71	10.32	46.96	16.56	12.29
111	2008	42	545	11.03	33.21	10.21	47.67	19.33	12.3
111	2008	42	600	10.95	34.49	9.17	47.93	19.47	12.28
111	2008	42	615	10.88	35.5	7.02	49.38	24.21	12.28
111	2008	42	630	10.62	34.76	12.22	43.68	18.83	12.27
111	2008	42	645	10.5	35.86	10.14	43.76	18.8	12.26
111	2008	42	700	10.4	36.6	9.04	45.41	20.6	12.26
111	2008	42	715	10.52	35.66	10.6	41.04	20.07	12.26
111	2008	42	730	10.27	36.77	11.1	50.05	21.55	12.26
111	2008	42	745	10.33	36.94	9.83	39.23	17.93	12.26
111	2008	42	800	10.21	37.64	10	33.65	16.63	12.24
111	2008	42	815	10.25	38.15	10.07	36.92	24.58	12.24
111	2008	42	830	10.45	37.24	10.11	35.76	17.39	12.76
111	2008	42	845	10.85	36.87	9.3	38.93	18.15	14.19
111	2008	42	900	11.23	35.9	10.01	37.69	19.91	14.18
111	2008	42	915	11.57	35.16	9.81	48.32	20.07	14.18
111	2008	42	930	11.98	35.02	10.54	47.86	21.22	14.16
111	2008	42	945	12.36	34.69	10.31	43.99	25.78	14.16
111	2008	42	1000	12.79	34.75	11.79	39.64	18.52	14.15
111	2008	42	1015	13.02	34.01	11.46	43.47	20.16	14.14
111	2008	42	1030	13.32	33.61	13	42.68	21.54	14.14
111	2008	42	1045	13.91	33.4	11.72	39.1	24.99	14.14
111	2008	42	1100	14.48	33.1	11.15	33.83	20.88	13.27
111	2008	42	1115	14.73	32.66	13.17	41.43	19.79	14.11
111	2008	42	1130	15.28	33.43	11.56	47.7	21.3	14.11
111	2008	42	1145	15.87	32.7	11.58	44.73	19.84	14.08
111	2008	42	1200	16.17	32.46	12.25	45.09	19.43	14.08
111	2008	42	1215	16.82	31.89	11.75	53.83	27.8	14.07
111	2008	42	1230	17.44	32.62	10.46	45.08	24.47	14.06
111	2008	42	1245	18.23	32.32	10.12	47.13	23.2	14.05
111	2008	42	1300	18.74	31.45	10.49	44.54	21.55	14.04
111	2008	42	1315	19.15	31.34	11.98	38.49	17.86	14.02
111	2008	42	1330	19.6	31.01	10.88	41.23	21.7	14.02
111	2008	42	1345	20.18	31.71	12.49	46.67	20.82	14.02
111	2008	42	1400	20.56	30.77	12.37	35.5	20.69	14.02
111	2008	42	1415	20.85	29.53	13	41.23	21.95	14
111	2008	42	1430	20.97	28.89	13.47	38.07	19.99	13.99
111	2008	42	1445	21.54	29.56	12.59	34.8	18.02	14
111	2008	42	1500	21.89	29.13	11.03	45.08	20.21	13.99
111	2008	42	1515	22.07	30.13	11.86	40.74	21.31	13.99
111	2008	42	1530	22.72	29.96	10.39	40.89	23.16	13.99

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	42	1545	22.59	29.29	10.39	39.24	19.21	13.98
111	2008	42	1600	23.09	28.59	10.32	36.03	20.61	13.98
111	2008	42	1615	22.88	28.85	11.45	46.22	21.46	13.98
111	2008	42	1630	23.03	29.49	9.77	44.98	17.94	13.04
111	2008	42	1645	23.16	30.13	9.23	45.79	23.76	12.85
111	2008	42	1700	23.3	28.95	8.28	44.63	21.74	12.78
111	2008	42	1715	23	30.9	10.6	37.21	18.92	12.73
111	2008	42	1730	23.2	29.93	7.59	47.33	19.01	12.7
111	2008	42	1745	22.96	30.7	8.15	40.49	17.9	12.68
111	2008	42	1800	22.71	31.44	8.31	46.15	19.86	12.66
111	2008	42	1815	22.32	32.17	8.26	45.02	21.87	12.64
111	2008	42	1830	21.86	32.31	8.78	43.74	20.74	12.63
111	2008	42	1845	21.67	33.59	7.49	44.93	21.09	12.62
111	2008	42	1900	21.51	33.86	8.33	46.85	15.54	12.6
111	2008	42	1915	21.29	35.13	7.57	50.41	21.38	12.58
111	2008	42	1930	21.09	35.94	4.82	51.04	19.12	12.58
111	2008	42	1945	20.85	36.91	6.146	56.85	19.88	12.55
111	2008	42	2000	20.67	37.35	6.025	50.63	24.52	12.55
111	2008	42	2015	20.41	37.55	7.1	64.12	21.45	12.54
111	2008	42	2030	20.25	39.1	5.642	44.07	20.27	12.53
111	2008	42	2045	20.14	39.5	6.761	48.62	20.78	12.52
111	2008	42	2100	19.94	40.91	6.926	53.37	22.48	12.51
111	2008	42	2115	19.67	41.51	5.987	61.37	21.15	12.51
111	2008	42	2130	19.44	42.62	6.194	58.68	22.92	12.51
111	2008	42	2145	19.22	42.62	6.559	51.53	20.69	12.49
111	2008	42	2200	19.05	43.56	5.852	47.73	19.27	12.48
111	2008	42	2215	18.91	43.9	5.858	48.5	20.05	12.47
111	2008	42	2230	18.78	44.5	5.725	54.52	21.66	12.47
111	2008	42	2245	18.62	45.1	5.636	52.82	19.75	12.46
111	2008	42	2300	18.55	45.88	5.705	49.29	20.89	12.45
111	2008	42	2315	18.38	46.55	5.326	55.01	21.29	12.45
111	2008	42	2330	18.25	46.78	5.316	50.39	21.82	12.44
111	2008	42	2345	18.13	46.98	5.628	58.58	20.53	12.43
111	2008	42	2400	17.95	47.52	5.318	60.35	18.63	12.43
111	2008	43	15	17.8	47.85	5.481	52.02	18.83	12.43
111	2008	43	30	17.76	48.32	6.122	51.05	17.94	12.41
111	2008	43	45	17.63	49.09	4.796	51.43	16.95	12.4
111	2008	43	100	17.51	49.63	4.994	54.67	18.18	12.4
111	2008	43	115	17.42	49.66	5.437	46.14	18.02	12.4
111	2008	43	130	17.31	50.17	4.677	50.31	19.41	12.39
111	2008	43	145	17.19	50.47	4.603	48.17	20.55	12.37
111	2008	43	200	17.05	51.04	4.037	44.95	23.81	12.37
111	2008	43	215	16.93	51.45	4.553	56.27	19.77	12.36
111	2008	43	230	16.85	51.65	4.057	58.32	18.77	12.35
111	2008	43	245	16.89	51.61	4.718	55.52	18.18	12.35
111	2008	43	300	16.9	52.15	4.045	58.85	20.72	12.33
111	2008	43	315	16.9	52.62	2.766	59.49	20.91	12.33
111	2008	43	330	16.98	52.65	4.53	48.79	18.82	12.32
111	2008	43	345	17.06	53.02	3.761	48.22	21.9	12.32
111	2008	43	400	17.07	53.52	3.6	59.23	16.57	12.31
111	2008	43	415	17.18	53.82	4.208	68.68	22.53	12.31
111	2008	43	430	17.21	54.49	4.138	73.2	14.43	12.3
111	2008	43	445	17.26	55.03	3.065	56.63	23.76	12.29
111	2008	43	500	17.24	55.8	3.12	67.6	18.27	12.29
111	2008	43	515	17.26	56.1	3.126	44.06	18.34	12.29
111	2008	43	530	17.18	56.57	3.251	32.51	16.74	12.28
111	2008	43	545	17.01	57.44	3.052	40.17	14.33	12.28
111	2008	43	600	16.91	57.08	3.585	44.07	16.37	12.27
111	2008	43	615	17.04	56.67	4.029	43.33	18	12.27
111	2008	43	630	17.22	55.77	3.807	38.86	25.15	12.27

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	43	645	17.26	55.7	3.608	44.64	20.68	12.26
111	2008	43	700	17.62	54.96	3.743	60.86	24.27	12.26
111	2008	43	715	17.66	55.03	2.89	54.87	22.61	12.25
111	2008	43	730	17.69	55.26	2.701	57.1	19.57	12.25
111	2008	43	745	17.78	55.06	2.447	47.79	21.72	12.24
111	2008	43	800	17.25	57.28	2.468	49.09	18.91	12.24
111	2008	43	815	17.29	56.27	2.614	34.47	23.87	12.24
111	2008	43	830	17.57	55.3	3.783	72.1	21.86	12.77
111	2008	43	845	17.78	55.53	3.972	75.8	19.4	13.01
111	2008	43	900	18.04	55.53	4.877	90.9	24.21	13.01
111	2008	43	915	18.49	55.73	4.762	110.6	32.14	13.12
111	2008	43	930	18.78	54.72	4.659	91.7	30.06	13.45
111	2008	43	945	19.71	53.11	4.323	103.3	37.34	14.05
111	2008	43	1000	20.46	49.79	4.111	89.3	35.11	14.03
111	2008	43	1015	21.14	48.78	4.053	113	32.55	14.02
111	2008	43	1030	21.44	48.51	4.353	112.3	32.46	14
111	2008	43	1045	21.84	48.2	4.242	90.9	31.95	13.99
111	2008	43	1100	22.48	46.45	3.1	152.2	58.64	13.98
111	2008	43	1115	23.19	45.08	3.559	106.5	49	13.96
111	2008	43	1130	23.35	44.14	3.119	107.3	49.08	13.94
111	2008	43	1145	24.02	42.26	2.864	84.3	44.58	13.92
111	2008	43	1200	24.04	43.13	2.205	74.4	59.55	13.92
111	2008	43	1215	24.31	43.23	3.121	333.4	41.17	13.92
111	2008	43	1230	24.25	48.55	4.446	302.4	28.1	13.91
111	2008	43	1245	24.53	46.44	4.53	267.4	30.58	13.91
111	2008	43	1300	24.42	48.52	4.138	333.8	30.94	13.91
111	2008	43	1315	24.11	47.89	4.275	333.3	27.31	13.94
111	2008	43	1330	24.08	48.32	5.528	347.8	29.46	13.92
111	2008	43	1345	23.79	49.09	5.141	6.52	23.02	13.92
111	2008	43	1400	24.18	47.22	3.118	359.7	41.37	13.92
111	2008	43	1415	25.12	45.04	3.249	283.2	34.73	13.92
111	2008	43	1430	24.68	48.63	3.839	309.6	28.46	13.06
111	2008	43	1445	23.69	52.68	2.884	277.1	39.19	13.04
111	2008	43	1500	23.92	55.06	2.745	298.1	40.84	13.55
111	2008	43	1515	24.12	56.84	3.191	334.2	34.26	13.13
111	2008	43	1530	23.68	63.97	3.88	322.6	27.84	12.98
111	2008	43	1545	22.19	76.4	4.613	322.7	22.33	12.82
111	2008	43	1600	21.44	83.2	4.72	340.7	21.35	12.8
111	2008	43	1615	21.44	85.1	3.211	327.2	30.63	12.8
111	2008	43	1630	21.73	85.4	2.759	307.8	29.65	12.76
111	2008	43	1645	21.86	85.6	1.286	289.4	33.65	12.7
111	2008	43	1700	21.96	86.6	0.415	193.2	11.45	12.67
111	2008	43	1715	22.18	87.2	1.996	212.6	38.13	12.65
111	2008	43	1730	22.04	87.7	2.868	187.4	19.87	12.64
111	2008	43	1745	22.24	88.1	4.051	197.4	21.37	12.63
111	2008	43	1800	22.31	88.1	2.909	215.8	34.75	12.62
111	2008	43	1815	22.37	88.4	2.525	227.7	28.98	12.6
111	2008	43	1830	22.27	89.5	3.725	220.8	18.68	12.59
111	2008	43	1845	22.26	90	4.194	199.6	20.36	12.58
111	2008	43	1900	22.41	90.7	4.688	199.3	22.06	12.57
111	2008	43	1915	22.79	91	3.988	199	26.15	12.57
111	2008	43	1930	23.01	91.2	3.962	193.7	24.23	12.56
111	2008	43	1945	23.03	91.2	2.999	149	27.37	12.56
111	2008	43	2000	22.98	91.7	3.739	148.7	24.25	12.55
111	2008	43	2015	22.89	92.2	3.303	153.1	30.25	12.54
111	2008	43	2030	22.85	92.7	4.049	172.2	20.18	12.54
111	2008	43	2045	22.96	92.9	3.833	170.6	28.61	12.53
111	2008	43	2100	23.15	93.3	4.293	170.9	19.97	12.52
111	2008	43	2115	23.55	93.5	4.037	180.2	26.01	12.52
111	2008	43	2130	24.12	93.5	4.585	189.9	25.83	12.52

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	43	2145	24.77	93.6	5.05	201.5	19.9	12.51
111	2008	43	2200	25.16	93.9	4.688	199.7	18.13	12.51
111	2008	43	2215	25.7	94.2	4.915	198.1	23.42	12.5
111	2008	43	2230	26.91	95.1	4.299	207.9	24.52	12.51
111	2008	43	2245	29.99	94.7	7.73	230.5	15.53	12.5
111	2008	43	2300	30.74	94.5	6.634	234	18.07	12.5
111	2008	43	2315	31.02	94.1	7.72	239.4	14.96	12.5
111	2008	43	2330	31.16	93.8	8.05	237.3	18.04	12.5
111	2008	43	2345	31.2	93.7	8.1	227.8	19.35	12.5
111	2008	43	2400	31.3	93.3	9.39	232.5	18.14	12.49
111	2008	44	15	31.43	93.1	7.6	223.3	17.94	12.49
111	2008	44	30	31.61	93.1	9.21	222.8	19.28	12.5
111	2008	44	45	31.95	93.2	8.94	217.6	14.99	12.49
111	2008	44	100	32.24	93.2	8.16	208.9	23.26	12.48
111	2008	44	115	32.74	93.3	8.56	212.7	16.81	12.48
111	2008	44	130	33.12	93.3	8.91	211.2	19.85	12.47
111	2008	44	145	33.37	93.4	8.35	203.5	21.88	12.47
111	2008	44	200	33.45	93.7	6.781	217.4	24.94	12.47
111	2008	44	215	33.86	93.8	7.09	191.4	24.4	12.46
111	2008	44	230	34.41	94	6.495	179.4	31.8	12.45
111	2008	44	245	34.9	94.3	4.631	165.2	31.3	12.45
111	2008	44	300	36.54	94.3	6.491	203.2	63.76	12.44
111	2008	44	315	37.75	94.7	6.948	202.1	48.93	12.44
111	2008	44	330	38.99	93.9	5.556	208.4	31.2	12.43
111	2008	44	345	39.28	93.7	3.896	197.1	23.53	12.43
111	2008	44	400	38.93	93.9	2.618	186.7	23.89	12.43
111	2008	44	415	38.87	94.2	4.081	197.7	23.05	12.42
111	2008	44	430	40.47	94.7	5.25	228.1	19.63	12.41
111	2008	44	445	41.6	94.3	5.217	234.2	16.01	12.41
111	2008	44	500	41.86	94.4	4.194	239.7	22.12	12.41
111	2008	44	515	42.01	94.1	2.669	252	24.67	12.41
111	2008	44	530	41.62	94.8	1.829	271.1	32.7	12.4
111	2008	44	545	44.19	94.9	3.59	316.2	27.33	12.4
111	2008	44	600	45.44	94.3	4.109	328.5	34.06	12.39
111	2008	44	615	46.35	93.3	6.684	312	31.87	12.4
111	2008	44	630	46.77	92.2	7.09	306	24.93	12.4
111	2008	44	645	46.84	91.7	8.42	300.8	27.24	12.4
111	2008	44	700	47.11	90.9	8.68	300.4	23.19	12.4
111	2008	44	715	47.18	90.5	8.32	299.7	26.57	12.4
111	2008	44	730	47.23	90.4	8.28	296.3	27.07	12.4
111	2008	44	745	47.18	90.6	7.74	292.3	27.97	12.39
111	2008	44	800	47.29	90.7	8.51	295.3	27.12	12.4
111	2008	44	815	47.51	90.3	8.99	296.1	26.06	12.4
111	2008	44	830	47.63	90.8	8.84	293.8	26.54	12.4
111	2008	44	845	47.66	91.4	9.37	290.9	27.82	12.39
111	2008	44	900	47.67	91.8	10.14	301.4	23.14	12.39
111	2008	44	915	47.66	92.8	10.26	302.4	28.4	12.39
111	2008	44	930	48.86	93.1	10.97	307.2	26.23	12.39
111	2008	44	945	48.9	93.4	8.68	313.5	28.42	12.38
111	2008	44	1000	48.11	94.1	9.22	313.9	25.9	12.38
111	2008	44	1015	47.96	94.4	8.42	302.3	27.71	12.39
111	2008	44	1030	47.87	94.5	8.15	299.2	26.58	12.38
111	2008	44	1045	47.92	94.8	9.47	306.3	24.68	12.38
111	2008	44	1100	48.55	95	10.21	301.4	24.65	12.38
111	2008	44	1115	49.05	95	10.26	311.5	28.63	12.38
111	2008	44	1130	48.78	94.9	9.81	311.4	20.83	12.37
111	2008	44	1145	48.51	95.2	9.08	309.3	23.54	12.37
111	2008	44	1200	48.5	95.2	8.55	313.5	25.66	12.36
111	2008	44	1215	48.36	95.3	8.47	296.5	30.47	12.37
111	2008	44	1230	48.48	95.8	8.27	307	28.06	12.37

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	44	1245	49.01	95.7	8.43	297.8	23.15	12.37
111	2008	44	1300	49.02	95.8	8.93	295.1	27.82	12.36
111	2008	44	1315	49.14	95.9	9.93	319.2	33.32	12.36
111	2008	44	1330	49.83	95.9	7.9	318.9	27.37	12.36
111	2008	44	1345	50.91	95.9	9.22	317.6	25.25	12.36
111	2008	44	1400	50.89	95.6	7.79	313.7	25.46	12.36
111	2008	44	1415	49.9	95.7	5.721	309.7	32.11	12.36
111	2008	44	1430	51.82	96.2	6.749	320.5	31.27	12.36
111	2008	44	1445	51.86	95.9	5.165	310.7	25.79	12.36
111	2008	44	1500	50.61	96	3.784	358.3	36.19	12.36
111	2008	44	1515	51.02	96.3	4.43	65.24	63.08	12.36
111	2008	44	1530	51.87	96.5	3.044	277.5	96.5	12.36
111	2008	44	1545	53.35	96.4	3.547	288.3	42.99	12.36
111	2008	44	1600	53.36	96.5	3.148	304.1	33.19	12.36
111	2008	44	1615	53.69	96.5	4.16	279.3	24.6	12.44
111	2008	44	1630	52.95	96.5	5.028	315.8	30.04	12.52
111	2008	44	1645	52.01	96.5	5.485	328.5	30.37	12.52
111	2008	44	1700	50.72	96.4	6.988	11.88	24.64	12.44
111	2008	44	1715	51.35	96.6	4.621	84.5	23.34	12.39
111	2008	44	1730	51.41	96.5	6.46	98.3	25.34	12.38
111	2008	44	1745	50.1	96.1	6.41	106.4	23.27	12.36
111	2008	44	1800	47.8	95.7	7.4	99.5	25.43	12.36
111	2008	44	1815	46.18	95.6	6.883	100.7	25.27	12.36
111	2008	44	1830	45.62	95.6	7.36	103.2	27.84	12.35
111	2008	44	1845	44.92	95.3	7.76	107	23.21	12.34
111	2008	44	1900	44.22	94.7	8.55	111.3	23.05	12.34
111	2008	44	1915	43.6	94.4	7.78	115	26.61	12.33
111	2008	44	1930	43.1	94	7.75	103.6	26.06	12.33
111	2008	44	1945	42.59	93.6	6.597	109.3	24.9	12.33
111	2008	44	2000	42.27	91.5	7.54	99.7	26.61	12.32
111	2008	44	2015	41.87	90	7.91	122.2	28.72	12.32
111	2008	44	2030	41.2	89.2	7.43	119.5	27.01	12.31
111	2008	44	2045	40.67	88.4	7.58	104.9	26.03	12.31
111	2008	44	2100	40.14	86.5	8.03	99	29.95	12.3
111	2008	44	2115	39.73	85.3	8.13	111.8	27.26	12.31
111	2008	44	2130	39.54	84.3	7.33	112.6	25.35	12.29
111	2008	44	2145	39.58	84.1	6.555	85	23.65	12.29
111	2008	44	2200	39.5	83.9	6.523	72.8	20.84	12.29
111	2008	44	2215	39.42	83.4	6.573	73.2	25.3	12.29
111	2008	44	2230	39.32	83.1	6.763	66.31	20.74	12.29
111	2008	44	2245	38.95	82.6	7.92	78.7	20.96	12.28
111	2008	44	2300	38.65	83.3	7.26	80.2	26.35	12.28
111	2008	44	2315	38.36	82.7	7.08	83.6	29.46	12.28
111	2008	44	2330	38.2	82.5	6.918	93.6	23.26	12.28
111	2008	44	2345	38.02	83.4	6.789	95.9	24.39	12.27
111	2008	44	2400	37.77	84.6	4.951	94.1	25.68	12.26
111	2008	45	15	37.72	83.3	5.788	75.3	16.92	12.27
111	2008	45	30	37.83	80.5	7.34	74.6	22.57	12.27
111	2008	45	45	37.79	80.2	7.2	84.7	23.57	12.27
111	2008	45	100	37.5	79.7	7.73	96.8	22.42	12.26
111	2008	45	115	37.27	79.1	6.938	90.5	22.57	12.25
111	2008	45	130	37.04	79.1	8.39	94.2	24.44	12.25
111	2008	45	145	36.62	79.4	7.25	97.1	24.09	12.25
111	2008	45	200	36.24	80.2	8.88	102.3	24.08	12.25
111	2008	45	215	35.84	78.3	9.15	103.8	22.87	12.25
111	2008	45	230	35.7	74.6	9.81	110.9	21.7	12.25
111	2008	45	245	35.49	74.4	10.03	114.1	25.68	12.25
111	2008	45	300	35.15	73.1	10.21	107	27.55	12.25
111	2008	45	315	34.96	72.1	10.86	103	28.98	12.25
111	2008	45	330	34.89	71.3	9.37	101.1	24.38	12.24

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	45	345	34.87	70.7	8.52	97	25.33	12.24
111	2008	45	400	34.63	70.1	8.03	98.8	26.51	12.23
111	2008	45	415	34.28	72.1	8.24	98.2	29	12.23
111	2008	45	430	33.78	71.2	10.28	99.7	24.49	12.24
111	2008	45	445	33.58	69.61	9.27	105.4	27.43	12.24
111	2008	45	500	33.52	66.26	9.21	103.1	27.06	12.23
111	2008	45	515	33.4	61.98	8.57	107.8	21.84	12.23
111	2008	45	530	32.83	59.46	11.11	109.3	24.74	12.23
111	2008	45	545	32.32	60.33	9.99	101.4	23.66	12.22
111	2008	45	600	31.87	59.83	8.74	99.4	25.64	12.23
111	2008	45	615	31.27	56.58	12.17	109.8	28.62	12.22
111	2008	45	630	30.85	55.75	10.74	111.2	23.5	12.22
111	2008	45	645	30.49	56.65	10.28	104.4	24.67	12.22
111	2008	45	700	30.22	56.65	10.05	105.6	26.64	12.21
111	2008	45	715	29.93	56.96	10.92	106	24.25	12.21
111	2008	45	730	29.65	56.99	9.28	108.2	26	12.21
111	2008	45	745	29.18	58.91	8.68	103.3	25.01	12.21
111	2008	45	800	28.77	59.64	8.53	100.8	21.43	12.21
111	2008	45	815	28.52	59.41	7.53	97	24.27	12.2
111	2008	45	830	28.39	59.72	9.12	102.4	27.97	12.2
111	2008	45	845	28.38	58.31	9.6	97.6	24.54	12.21
111	2008	45	900	28.44	54.86	9.89	100.6	27.2	12.24
111	2008	45	915	29.06	48.76	10.73	97.4	24.7	12.91
111	2008	45	930	30.04	44.91	10.64	101.3	24.57	13.78
111	2008	45	945	30.6	43.56	11.22	99.2	24.47	13.76
111	2008	45	1000	30.98	43.76	11.25	101.2	20.74	13.76
111	2008	45	1015	31.29	43.25	11.38	91.3	24	13.75
111	2008	45	1030	31.48	43.65	12.23	99.5	25.36	13.76
111	2008	45	1045	32	43.05	10.85	98.7	29.95	13.75
111	2008	45	1100	32.26	43.82	10.49	93.2	25.96	12.98
111	2008	45	1115	32.54	44.25	11.64	92.3	22.12	13.76
111	2008	45	1130	33.24	42.48	10.27	98.4	24.5	13.75
111	2008	45	1145	33.37	41.6	10.83	86.9	26.83	13.73
111	2008	45	1200	33.75	40.9	10.46	88.3	28.19	13.73
111	2008	45	1215	34.26	38.69	10.25	89.2	24.28	13.73
111	2008	45	1230	34.52	38.78	9.65	97.2	27.72	13.71
111	2008	45	1245	34.78	38.72	9.73	76.4	24.32	13.71
111	2008	45	1300	35.07	38.95	8.65	78.4	28.64	13.71
111	2008	45	1315	35.43	40.29	8.66	65.5	25.6	13.71
111	2008	45	1330	35.74	39.58	8.3	57.67	21.65	13.71
111	2008	45	1345	36.4	38.58	8.28	64.84	32.5	13.7
111	2008	45	1400	37	37.07	7.58	78.6	32.22	13.69
111	2008	45	1415	37.64	40.52	7.26	75.5	31.65	13.69
111	2008	45	1430	37.35	38.68	8.24	52.79	26	13.68
111	2008	45	1445	37.16	39.28	7.47	54.41	22.73	13.68
111	2008	45	1500	37.85	39.31	7.81	57.9	33.63	13.68
111	2008	45	1515	37.71	37.71	8.49	56.7	21.43	13.68
111	2008	45	1530	37.99	35.96	7.72	61.11	30.57	13.68
111	2008	45	1545	38.66	36.33	6.734	78.3	28.76	13.68
111	2008	45	1600	38.83	38.14	7.28	65.86	23.46	13.69
111	2008	45	1615	39.08	37.57	6.732	73.6	23.19	13.55
111	2008	45	1630	39.05	36.36	7.45	82.8	25.52	13.08
111	2008	45	1645	39.25	38.53	7	71.8	27.64	12.92
111	2008	45	1700	38.85	37.63	7.07	65.36	27.17	12.83
111	2008	45	1715	39.11	37.4	6.313	75.9	24.45	12.79
111	2008	45	1730	38.86	38.44	6.47	63.32	25.33	12.76
111	2008	45	1745	38.52	40.98	5.844	66.86	24.25	12.75
111	2008	45	1800	38.09	39.08	5.638	59.93	22.51	12.73
111	2008	45	1815	37.95	40.02	4.391	58.27	20.48	12.72
111	2008	45	1830	37.44	41.59	3.017	59.97	16.63	12.71

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	45	1845	36.96	43.37	1.573	46.72	22.67	12.69
111	2008	45	1900	36.16	45.58	2.117	41.53	19.45	12.68
111	2008	45	1915	36.14	46.36	2.26	37.11	19.06	12.67
111	2008	45	1930	36.13	46.93	2.759	43.79	17.74	12.65
111	2008	45	1945	35.48	49.92	1.889	18.73	56.43	12.65
111	2008	45	2000	34.3	53.64	2.349	266.4	30.52	12.64
111	2008	45	2015	33.89	53.6	2.127	58.6	23.48	12.62
111	2008	45	2030	33.95	54.54	2.024	57.24	12.44	12.62
111	2008	45	2045	33.39	54.58	1.972	38.92	17.8	12.61
111	2008	45	2100	33.58	56.56	2.199	15.16	12.68	12.6
111	2008	45	2115	33.22	57.23	2.149	43.27	14.61	12.6
111	2008	45	2130	32.49	57.7	1.13	84.9	48.08	12.59
111	2008	45	2145	32.44	62.16	1.473	35.01	42.91	12.58
111	2008	45	2200	30.83	66.79	1.028	359	38.48	12.57
111	2008	45	2215	29.89	70	0.468	330.1	7.5	12.57
111	2008	45	2230	29.64	70.6	0.931	102	26.24	12.55
111	2008	45	2245	29.38	73.4	0.768	13.5	28.97	12.55
111	2008	45	2300	29.11	73.6	0.688	60.95	8.34	12.54
111	2008	45	2315	28.61	75.6	0.613	359.7	23.47	12.54
111	2008	45	2330	28.33	77	0.357	315.9	24.05	12.53
111	2008	45	2345	28.44	75.9	1.12	61.89	68.25	12.53
111	2008	45	2400	28.24	77.5	0.666	76.8	40.9	12.51
111	2008	46	15	28.22	78.5	0.622	9.16	39.97	12.52
111	2008	46	30	27.91	79.2	1.089	349	77.4	12.52
111	2008	46	45	28.45	78.4	0.945	293.4	53.72	12.51
111	2008	46	100	28.05	80.3	1.031	20.27	10.55	12.51
111	2008	46	115	28.43	79.6	0.575	38.33	15.5	12.51
111	2008	46	130	28.95	78.1	0.06	260.9	2.63	12.51
111	2008	46	145	28.87	77.6	0.009	338	0.006	12.5
111	2008	46	200	28.68	78.9	0.142	356.8	7.83	12.5
111	2008	46	215	28.62	78.8	0.499	259.9	9.16	12.49
111	2008	46	230	28.64	79.2	1.173	286.6	32.25	12.49
111	2008	46	245	29.04	79	1.576	352.8	29.43	12.49
111	2008	46	300	29.07	79.4	0.441	323.4	13.22	12.48
111	2008	46	315	29.21	80.3	2.097	6.763	13.64	12.48
111	2008	46	330	30.47	78.8	2.878	357.4	14.59	12.48
111	2008	46	345	30.93	79.2	3.168	3.4	15.72	12.48
111	2008	46	400	31.24	78	3.32	351.6	17.41	12.48
111	2008	46	415	31.67	77.2	3.281	343.1	20.13	12.48
111	2008	46	430	32.21	74.4	4.424	351	22.73	12.48
111	2008	46	445	32.69	73.2	4.52	354.1	17.41	12.48
111	2008	46	500	33.18	72.3	4.623	351.5	21.21	12.48
111	2008	46	515	33.66	71.7	5.495	356.5	18.36	12.49
111	2008	46	530	33.92	71.6	5.993	355	19.62	12.49
111	2008	46	545	34.11	72.5	5.223	354.1	18.6	12.5
111	2008	46	600	34.51	71	5.953	346	22.28	12.49
111	2008	46	615	34.8	71.2	5.687	347	18.41	12.49
111	2008	46	630	35.16	71	5.773	343.8	19.41	12.49
111	2008	46	645	35.35	73.1	5.459	340.2	22.78	12.49
111	2008	46	700	35.62	74	5.745	345.6	19.29	12.49
111	2008	46	715	36.04	74	5.246	351.2	17.41	12.49
111	2008	46	730	36.06	74	5.536	342.8	18.46	12.49
111	2008	46	745	36.31	73.5	5.651	353.2	20.87	12.49
111	2008	46	800	36.68	73.5	6.162	345.2	23.73	12.49
111	2008	46	815	37.14	73.1	6.779	353.9	19.33	12.49
111	2008	46	830	37.65	71.9	7.37	353.4	18.94	12.61
111	2008	46	845	37.91	70.9	8.27	354.3	21.93	13.79
111	2008	46	900	37.96	70	9.43	358.3	23.05	13.76
111	2008	46	915	37.99	69.77	10.53	0.74	19.76	13.75
111	2008	46	930	38.25	68.79	9.36	359.1	19.23	13.75

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	46	945	38.3	66.88	10.02	359.1	19.8	13.74
111	2008	46	1000	38.13	66.61	10.51	351.8	24.76	13.73
111	2008	46	1015	38.34	66.38	10.81	354.7	20.86	13.73
111	2008	46	1030	38.26	67.25	9.74	359.9	19.39	13.08
111	2008	46	1045	37.74	67.88	9.33	8.28	17.12	13.08
111	2008	46	1100	38.14	65.67	8.04	8.16	14.67	13.74
111	2008	46	1115	39.49	62.52	8.49	4.615	20.49	13.72
111	2008	46	1130	40.73	57.43	8.76	3.362	21.53	13.69
111	2008	46	1145	42.25	56.72	7.77	6.96	17.94	13.67
111	2008	46	1200	42.49	54.84	8.43	3.533	18.49	13.67
111	2008	46	1215	41.8	59.86	6.954	349	25.34	13.68
111	2008	46	1230	41.17	61.8	5.975	348.8	23.3	13.69
111	2008	46	1245	40.25	63.88	6.873	342.4	22.9	13.55
111	2008	46	1300	40.52	61.54	7.31	354	17.31	13.7
111	2008	46	1315	41.42	57.72	7.57	357.2	19.83	13.68
111	2008	46	1330	42.34	54.74	8.43	356.8	20.87	13.68
111	2008	46	1345	43.43	49.62	8.06	2.828	20.39	13.66
111	2008	46	1400	44.44	51.89	9.39	5.506	18.23	13.64
111	2008	46	1415	44.74	50.82	9.28	6.108	19.38	13.64
111	2008	46	1430	45.29	49.95	8.43	9.08	18.37	13.63
111	2008	46	1445	45.61	46.53	9.42	2.939	20.41	13.63
111	2008	46	1500	45.96	46.47	10.61	21.96	17.54	13.63
111	2008	46	1515	45.85	46.7	10.73	26.1	21.11	13.57
111	2008	46	1530	45.68	47.24	10.87	21.37	17.18	13.44
111	2008	46	1545	45.68	47.24	10.25	20.39	20.82	13.36
111	2008	46	1600	45.72	46.33	9.89	19.39	18.35	13.22
111	2008	46	1615	46.08	45.36	8.94	31.16	20.85	13.22
111	2008	46	1630	46.03	45.8	11.86	26.33	19.6	13.26
111	2008	46	1645	45.63	46.47	10.32	29.37	18.5	13.09
111	2008	46	1700	45.34	47.2	10.64	33.24	20.88	13.02
111	2008	46	1715	45.43	47.1	11.09	34.8	21.48	12.96
111	2008	46	1730	45.39	47.57	10.6	36.93	19.3	12.85
111	2008	46	1745	45.62	47.91	9	27.27	18.03	12.79
111	2008	46	1800	45.51	47.41	8.51	35.35	17.74	12.77
111	2008	46	1815	45.32	46.77	10.14	35.54	18.94	12.74
111	2008	46	1830	44.99	46.9	8.7	31.73	18.09	12.73
111	2008	46	1845	44.48	46.74	9.64	35.39	16.71	12.72
111	2008	46	1900	43.95	46.53	9.43	48.92	19.69	12.7
111	2008	46	1915	43.49	47.24	7.69	43.1	17.61	12.69
111	2008	46	1930	43.02	48.35	8.62	44.49	20.31	12.68
111	2008	46	1945	42.63	48.69	8.27	44.29	21.67	12.67
111	2008	46	2000	42.23	49.13	7.51	38.34	22.38	12.67
111	2008	46	2015	41.77	49.09	6.885	43.33	18.81	12.65
111	2008	46	2030	41.38	50.07	6.221	37.98	17.95	12.65
111	2008	46	2045	41.06	52.18	5.967	38.33	17.17	12.64
111	2008	46	2100	40.73	54.09	5.767	41.86	19.01	12.63
111	2008	46	2115	40.36	55.02	5.407	48.71	20.63	12.63
111	2008	46	2130	39.91	56.53	4.468	54.87	19.51	12.62
111	2008	46	2145	39.52	55.76	4.728	55.5	19.78	12.61
111	2008	46	2200	39.65	58.24	6.39	60.98	20.38	12.61
111	2008	46	2215	38.38	61.92	6.215	65.98	15.23	12.61
111	2008	46	2230	37.6	60.02	6.517	67.53	20	12.6
111	2008	46	2245	36.98	58.31	7.13	76.8	22.56	12.59
111	2008	46	2300	36.27	53.96	7.12	71.2	20.9	12.59
111	2008	46	2315	35.65	52.19	7.23	77.6	21.68	12.58
111	2008	46	2330	35.16	52.09	6.684	71.5	19.77	12.58
111	2008	46	2345	34.88	52.43	6.317	70.7	20.08	12.57
111	2008	46	2400	34.54	50.05	6.688	86.1	25.26	12.56
111	2008	47	15	33.58	46.63	9.56	85.2	21.27	12.56
111	2008	47	30	32.87	46.13	7.54	73.3	21.57	12.55

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	47	45	32.25	43.85	8.23	73.4	20.88	12.55
111	2008	47	100	31.64	45.33	7.5	70.9	21.17	12.54
111	2008	47	115	31.13	46.87	6.434	66.12	19.52	12.54
111	2008	47	130	30.76	48.82	7.49	70.5	17.7	12.53
111	2008	47	145	30.4	48.01	7.14	73.8	20.76	12.52
111	2008	47	200	30.01	46.88	8.68	80.8	23.14	12.51
111	2008	47	215	29.5	48.72	7.91	81.6	21.15	12.51
111	2008	47	230	29.17	49.9	6.251	82.7	24.85	12.51
111	2008	47	245	28.96	49.33	7.02	86	25.42	12.49
111	2008	47	300	28.7	50.47	7.18	88	28.14	12.49
111	2008	47	315	28.34	51.54	6.827	87.7	29.3	12.49
111	2008	47	330	27.89	49.33	6.936	75.6	23.13	12.48
111	2008	47	345	27.43	51.14	7.38	77.2	19.89	12.48
111	2008	47	400	27.16	53.65	5.753	85.2	25.37	12.47
111	2008	47	415	26.87	53.39	6.394	93	27.38	12.46
111	2008	47	430	26.46	52.52	6.793	103.5	27.3	12.46
111	2008	47	445	25.9	48.03	7.3	97.5	27.5	12.45
111	2008	47	500	25.44	43.1	9.7	90.6	26.63	12.45
111	2008	47	515	25.09	45.08	8.14	78.1	20.66	12.45
111	2008	47	530	24.87	46.49	6.63	74.2	19.87	12.44
111	2008	47	545	24.69	47.5	5.836	75.8	18.98	12.44
111	2008	47	600	24.42	48.07	4.962	80.2	20.71	12.44
111	2008	47	615	24.29	49.14	5.908	75.6	19.6	12.42
111	2008	47	630	24.1	50.28	5.405	70.4	18.67	12.42
111	2008	47	645	23.86	51.26	3.614	76.2	20.85	12.42
111	2008	47	700	23.7	52.63	3.908	80.4	23.1	12.41
111	2008	47	715	23.48	50.39	4.138	104.1	27.96	12.41
111	2008	47	730	23.32	49.01	4.546	101.9	24.66	12.41
111	2008	47	745	23.13	50.79	3.594	78.8	24.44	12.4
111	2008	47	800	22.98	50.69	3.36	108.3	24.31	12.4
111	2008	47	815	23.01	51.19	2.83	78	25.7	12.4
111	2008	47	830	23.42	49.75	3.118	57.62	23.23	12.99
111	2008	47	845	24	49.72	3.031	86.4	25.45	13.19
111	2008	47	900	24.31	48.81	4.097	80.6	26.15	14
111	2008	47	915	24.41	48.41	4.861	71.1	24.93	13.99
111	2008	47	930	24.04	49.14	5.832	76.9	23.67	13.98
111	2008	47	945	25.49	45.78	4.766	94	28.49	13.97
111	2008	47	1000	25.52	47.25	5.908	101.8	24.41	13.95
111	2008	47	1015	25.08	47.52	5.584	91.7	27.22	13.95
111	2008	47	1030	25.34	45.88	4.609	101.7	37.99	13.95
111	2008	47	1045	25.83	46.15	4.482	98.4	40.77	13.94
111	2008	47	1100	25.87	44.2	5.34	103	29.06	13.92
111	2008	47	1115	26.06	42.62	4.839	87.3	32.98	13.92
111	2008	47	1130	26.57	43.9	5.139	85.8	31.55	13.91
111	2008	47	1145	26.73	43.53	4.536	81.6	50.14	13.9
111	2008	47	1200	27.27	44.26	3.984	98	45.41	13.89
111	2008	47	1215	27.67	44.09	3.685	98.6	51.14	13.87
111	2008	47	1230	28.25	42.08	3.829	107.1	46.46	13.85
111	2008	47	1245	27.96	45.56	4.683	42.67	35.88	13.84
111	2008	47	1300	27.96	43.28	5.677	49.66	55.66	13.84
111	2008	47	1315	28.92	39.86	5.673	117.1	58.66	13.83
111	2008	47	1330	28.92	40.74	4.325	89.3	41.67	13.77
111	2008	47	1345	29.58	39.29	5.223	93.4	36.53	13.83
111	2008	47	1400	29.87	34.67	6.894	75.5	45.86	13.81
111	2008	47	1415	29.38	36.75	6.755	47.95	32.4	13.81
111	2008	47	1430	29.76	35.34	5.92	68.17	27.61	13.81
111	2008	47	1445	29.91	36.48	5.669	62.03	31.08	13.82
111	2008	47	1500	30.35	35.04	3.97	70.1	44.89	13.81
111	2008	47	1515	31.28	37.75	5.314	81.6	31.64	13.81
111	2008	47	1530	30.96	34.63	4.772	63.02	48.48	13.8

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	47	1545	31.49	33.39	5.447	78.3	38.87	13.79
111	2008	47	1600	32.28	33.12	4.772	84.4	48.53	13.79
111	2008	47	1615	32.45	33.89	4.861	100	48.15	13.79
111	2008	47	1630	31.89	34.49	5.211	69.14	40.64	13.24
111	2008	47	1645	32.47	34.29	3.644	95.6	63.28	12.95
111	2008	47	1700	32.2	33.52	4.746	47.26	30.42	12.83
111	2008	47	1715	32.25	33.82	5.177	40.41	31.82	12.78
111	2008	47	1730	32.14	34.03	4.78	52.5	49.84	12.75
111	2008	47	1745	31.81	32.89	6.352	42.13	19.31	12.72
111	2008	47	1800	31.59	33.73	4.978	55.6	34.03	12.7
111	2008	47	1815	31.43	34.87	4.109	80.8	21.98	12.68
111	2008	47	1830	30.7	36.61	3.579	75.3	19.11	12.67
111	2008	47	1845	30.18	38.29	2.5	95.5	30.37	12.65
111	2008	47	1900	29.81	38.66	2.842	70.1	23.07	12.64
111	2008	47	1915	29.45	39.67	2.465	78.5	21.05	12.61
111	2008	47	1930	29.25	40.58	2.039	67.84	21.84	12.61
111	2008	47	1945	29.17	41.22	2.264	79.8	19	12.6
111	2008	47	2000	28.86	42.53	0.651	48.83	15.41	12.58
111	2008	47	2015	27.99	46.42	0.263	342.7	3.994	12.57
111	2008	47	2030	27.66	45.48	1.318	79.6	9.08	12.56
111	2008	47	2045	27.98	47.6	1.208	58.43	28.57	12.55
111	2008	47	2100	27.06	49.91	0.896	76.2	15.56	12.53
111	2008	47	2115	27.01	49.61	0.575	94.8	20.42	12.53
111	2008	47	2130	26.9	54.41	0.944	52.11	27.57	12.51
111	2008	47	2145	26.53	53.8	1.458	120.1	24.09	12.51
111	2008	47	2200	26.41	55.48	0.616	79.4	7.68	12.5
111	2008	47	2215	25.43	58.16	0.175	111.4	6.939	12.5
111	2008	47	2230	25.11	60.61	0.467	57.4	8.85	12.49
111	2008	47	2245	24.74	62.05	0.567	324.7	50.47	12.48
111	2008	47	2300	24.46	62.79	0.71	327.7	20.26	12.48
111	2008	47	2315	24.28	63.29	0.455	77.9	13.53	12.46
111	2008	47	2330	24.36	63.23	0.311	91.2	8.87	12.46
111	2008	47	2345	24.18	66.48	0.172	50.72	10.88	12.45
111	2008	47	2400	23.62	67.33	0.545	109.8	8.83	12.45
111	2008	48	15	23.54	68.17	0.257	316.6	38.29	12.44
111	2008	48	30	23.68	69.31	0.626	154.3	32.96	12.44
111	2008	48	45	24.2	68.07	0.772	23.55	59.49	12.43
111	2008	48	100	24.28	65.08	1.479	183.3	16.85	12.43
111	2008	48	115	25.52	61.79	3.048	178.4	29.5	12.42
111	2008	48	130	25.42	63.87	0.617	341	59.46	12.42
111	2008	48	145	25.13	65.04	0.278	226.7	11.31	12.41
111	2008	48	200	24.67	69.56	1.221	29.45	12.37	12.41
111	2008	48	215	23.78	71.5	1.553	32.99	20.28	12.4
111	2008	48	230	23.38	72.4	0.603	83.3	5.798	12.4
111	2008	48	245	22.89	74	0.356	62.77	13.7	12.4
111	2008	48	300	22.85	74.9	0.212	73.5	19.21	12.4
111	2008	48	315	22.71	75.7	1.442	138.6	11.63	12.39
111	2008	48	330	22.67	76.7	0.746	121.7	21.07	12.39
111	2008	48	345	22.83	76.9	0.409	91.8	21.13	12.37
111	2008	48	400	23.27	77.3	0.13	44.66	16.01	12.38
111	2008	48	415	25.21	75.5	1.913	256.3	33.54	12.37
111	2008	48	430	28.74	68.33	3.189	307.5	22.6	12.37
111	2008	48	445	29.92	67.52	3.344	303.8	27.01	12.37
111	2008	48	500	30.45	67.38	3.231	304.8	29.92	12.38
111	2008	48	515	30.65	67.38	3.378	326.4	23.92	12.38
111	2008	48	530	30.63	62.88	3.134	336.4	21.6	12.39
111	2008	48	545	30.56	61.57	2.616	335.5	20	12.4
111	2008	48	600	30.58	62	2.234	336.9	26.12	12.4
111	2008	48	615	30.54	63.94	2.116	319.4	26.87	12.4
111	2008	48	630	30.72	64.58	3.428	316.1	23.23	12.39

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	48	645	30.94	65.42	2.639	323.2	22.31	12.4
111	2008	48	700	31.07	66.52	3.14	309.8	26.57	12.4
111	2008	48	715	31.14	65.85	3.279	310.2	28.36	12.4
111	2008	48	730	31.33	65.38	3.376	315.1	25.53	12.41
111	2008	48	745	31.35	66.25	4.005	305	20.47	12.41
111	2008	48	800	31.47	66.69	3.644	304.6	30.3	12.41
111	2008	48	815	31.78	66.32	4.001	308.5	19.1	12.42
111	2008	48	830	32.52	64.71	3.972	306.7	28.16	12.59
111	2008	48	845	33.48	62.96	4.553	303.8	33.81	13.28
111	2008	48	900	34.11	62.49	4.859	312.6	26.65	13.36
111	2008	48	915	34.63	62.18	5.336	309.4	24.1	13.51
111	2008	48	930	34.83	62.61	5.691	308.7	22.96	13.84
111	2008	48	945	35.59	61.54	6.527	303	27.09	13.83
111	2008	48	1000	35.98	61.44	6.68	298.6	27.38	13.81
111	2008	48	1015	36.27	60.2	6.233	295.5	25.54	13.81
111	2008	48	1030	36.72	60.29	6.638	291.7	26.46	13.8
111	2008	48	1045	37.52	60.09	7.53	288.6	25.91	13.79
111	2008	48	1100	37.03	61.19	6.807	298.4	23.33	13.78
111	2008	48	1115	37.13	62.12	6.563	290.3	28.84	13.77
111	2008	48	1130	37.28	62.59	7.8	299.4	27.14	13.77
111	2008	48	1145	37.7	59.95	6.847	312.8	25.02	13.75
111	2008	48	1200	37.64	60.45	8.16	317.5	28.95	13.75
111	2008	48	1215	38.16	61.69	7.23	307.6	26.62	13.74
111	2008	48	1230	38.45	62.16	7.95	305.9	28.57	13.74
111	2008	48	1245	38.83	61.75	6.821	306.4	29.2	13.73
111	2008	48	1300	39.18	63.26	5.85	293.9	24.8	13.73
111	2008	48	1315	38.99	65.1	7.2	313.2	26.25	13.73
111	2008	48	1330	38.95	67.24	5.713	303.7	26.45	13.74
111	2008	48	1345	39.26	67.31	5.691	313.6	31.73	13.74
111	2008	48	1400	39.33	69.05	5.88	299.1	27.17	13.47
111	2008	48	1415	39.5	69.39	5.929	296.2	28.11	13.27
111	2008	48	1430	39.48	69.99	5.876	297.9	22.26	12.97
111	2008	48	1445	39.51	71.5	4.44	286.3	27.08	12.94
111	2008	48	1500	39.43	72.5	4.565	284.7	34.05	12.89
111	2008	48	1515	39.42	73.3	5.042	277.2	23.46	12.93
111	2008	48	1530	39.87	72.8	5.145	287.2	22.86	13.06
111	2008	48	1545	40.07	73	4.528	295.8	28.17	12.99
111	2008	48	1600	40.36	73.4	4.526	280.5	23.26	13.04
111	2008	48	1615	40.49	74.5	4.833	272.9	23.46	13.04
111	2008	48	1630	40.09	76	5.207	267.6	21.18	12.93
111	2008	48	1645	40.19	75.5	4.941	261.6	22.95	13.04
111	2008	48	1700	40.27	76.7	5.32	252.5	18.04	12.98
111	2008	48	1715	39.99	77.8	5.37	249.8	20.3	12.87
111	2008	48	1730	39.78	78.4	5.677	256	20.71	12.79
111	2008	48	1745	39.63	79.6	5.61	252.5	18.85	12.75
111	2008	48	1800	39.55	81.2	5.37	251.8	18.24	12.73
111	2008	48	1815	39.72	82.8	5.032	251.9	23.51	12.72
111	2008	48	1830	40.04	84.2	5.594	258.1	22.17	12.71
111	2008	48	1845	40.43	85.3	5.397	249.4	27.75	12.69
111	2008	48	1900	40.56	86.1	5.927	239.5	19.06	12.68
111	2008	48	1915	40.63	86.8	5.574	244.4	17.43	12.67
111	2008	48	1930	40.88	87.7	6.688	238.2	18.74	12.66
111	2008	48	1945	40.77	88.5	5.675	242.4	18.2	12.66
111	2008	48	2000	40.75	89.1	6.39	238.6	17.1	12.66
111	2008	48	2015	40.97	89.5	6.275	237.6	17.06	12.65
111	2008	48	2030	41.18	90	4.798	244	20.05	12.65
111	2008	48	2045	41.41	90.8	4.671	245.1	21.72	12.64
111	2008	48	2100	41.72	91.3	5.121	247.1	20.1	12.63
111	2008	48	2115	42.18	91.7	5.777	252.9	24.94	12.64
111	2008	48	2130	42.74	91.4	6.942	251.4	22.5	12.63

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	48	2145	43.03	91.4	7	255	24.3	12.62
111	2008	48	2200	43.62	91.4	6.936	263.4	29.33	12.62
111	2008	48	2215	44.12	90.5	7.38	269.5	28.29	12.63
111	2008	48	2230	43.87	91.3	7.87	271.2	23.81	12.62
111	2008	48	2245	43.97	91.6	7.15	277	27.01	12.62
111	2008	48	2300	44.23	92.3	6.414	276.3	22.82	12.61
111	2008	48	2315	44.6	92.7	5.53	291	32.66	12.61
111	2008	48	2330	45.5	92.6	7.58	288	28.41	12.61
111	2008	48	2345	46.21	92.4	7.26	299.7	30.34	12.6
111	2008	48	2400	47.04	92.3	8.87	295.1	29.23	12.61
111	2008	49	15	47.8	92.4	9.84	300.3	28.52	12.61
111	2008	49	30	48.19	92.6	11.54	299.8	27.23	12.6
111	2008	49	45	48.27	92.3	11.23	301	25.96	12.59
111	2008	49	100	48.09	92.4	9.86	296.8	27.89	12.59
111	2008	49	115	48.14	92.6	10.95	298.8	25.21	12.59
111	2008	49	130	48.22	92.8	10.22	299.8	28.48	12.58
111	2008	49	145	48.48	92.8	10.14	296.5	26.01	12.58
111	2008	49	200	48.2	93.4	9.92	296.4	29.57	12.58
111	2008	49	215	48.43	93.6	9.25	297.8	31.53	12.58
111	2008	49	230	48.98	93.5	10.13	303.9	33.6	12.57
111	2008	49	245	49.02	93.8	10.04	305.7	29.16	12.57
111	2008	49	300	49.14	94	10.48	303.8	27.62	12.57
111	2008	49	315	49.09	94.3	10.01	307.4	29.23	12.56
111	2008	49	330	49.06	94.5	8.64	309.2	31.44	12.56
111	2008	49	345	49.21	94.5	9.64	304.9	27.07	12.56
111	2008	49	400	49.35	94.2	8.03	328	32.46	12.55
111	2008	49	415	49.13	94.6	7.41	301.9	35.97	12.55
111	2008	49	430	49.4	94.5	8.08	304.7	30.19	12.54
111	2008	49	445	49.28	94.6	9.45	297.3	29.81	12.54
111	2008	49	500	49.32	94.9	9.51	302.7	23.11	12.54
111	2008	49	515	49.14	95.2	9.05	298.2	28.64	12.54
111	2008	49	530	49.21	95.1	9.17	296.1	26.96	12.53
111	2008	49	545	49.32	95.3	8.89	299.4	30.57	12.53
111	2008	49	600	49.12	95.3	8.43	298.9	27.16	12.53
111	2008	49	615	48.88	95.6	7.7	294.8	29.45	12.52
111	2008	49	630	49.53	95.9	8.38	305.6	27.1	12.52
111	2008	49	645	50.08	95.9	9.35	309.7	26.58	12.52
111	2008	49	700	49.64	95.8	8.1	311.7	28.98	12.52
111	2008	49	715	49.51	96	8.1	333	26.36	12.52
111	2008	49	730	49.67	96	7.5	322.9	32.05	12.52
111	2008	49	745	49.79	96	9.72	315.7	28.54	12.52
111	2008	49	800	49.95	96.2	10.16	306.6	23.42	12.52
111	2008	49	815	50.29	96.1	10.83	303.1	24.41	12.52
111	2008	49	830	50.87	96.1	10.66	320.2	37.53	12.52
111	2008	49	845	50.4	96	11.73	330.4	34.48	12.51
111	2008	49	900	50.3	95.9	9.29	331.6	23.38	12.51
111	2008	49	915	49.87	95.8	8.95	329.5	27.55	12.51
111	2008	49	930	49.59	95.8	8.76	327.2	26.31	12.51
111	2008	49	945	49.46	96.1	9.29	327.1	26.12	12.51
111	2008	49	1000	49.89	96.1	10.18	328.6	26.32	12.5
111	2008	49	1015	49.4	96	9.56	325.1	22.82	12.5
111	2008	49	1030	49.56	96.1	9.47	332.4	23.05	12.52
111	2008	49	1045	49.34	96.2	9.88	339.7	24.9	12.52
111	2008	49	1100	48.89	96.3	10.1	341.3	28.8	12.5
111	2008	49	1115	48.89	96.3	10.08	340.3	27.67	12.52
111	2008	49	1130	48.83	96.1	10.18	347.9	24.69	12.5
111	2008	49	1145	49.58	96.1	9.99	345.5	23.49	12.52
111	2008	49	1200	50.32	95.5	10.53	347.3	22.07	12.56
111	2008	49	1215	49.93	94.8	9.21	352.2	20.62	12.53
111	2008	49	1230	49.95	94.9	10.67	358	18.21	12.59

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	49	1245	50.17	94.6	8.19	348.2	25.96	12.68
111	2008	49	1300	49.57	94.5	7.92	350.2	25.64	12.73
111	2008	49	1315	49.07	94.6	7.21	351.3	26.84	12.62
111	2008	49	1330	48.69	94.7	6.497	333.6	26.3	12.6
111	2008	49	1345	48.71	94.8	6.325	325.9	27.52	12.77
111	2008	49	1400	48.62	94.9	6.37	322.1	26.02	12.81
111	2008	49	1415	48.52	95.1	6.962	323.5	24.68	12.87
111	2008	49	1430	48.72	95.7	7.6	326.7	27.63	12.88
111	2008	49	1445	49.14	95.7	9.48	339.4	33.58	12.92
111	2008	49	1500	48.75	95.6	9.34	333.7	22.4	12.94
111	2008	49	1515	48.2	95.7	8.95	335.6	28.49	12.8
111	2008	49	1530	47.93	96	8.38	328.7	26.85	12.78
111	2008	49	1545	47.86	95.9	8.49	337.4	26.21	12.76
111	2008	49	1600	47.89	96.2	8.44	333.6	28.64	12.71
111	2008	49	1615	48.12	96.2	8.66	332.4	27.74	12.68
111	2008	49	1630	48.02	96.2	8.25	344.5	26.21	12.66
111	2008	49	1645	47.61	96.3	8.69	349.2	25.84	12.62
111	2008	49	1700	47.87	96.4	9.5	10.2	26.05	12.59
111	2008	49	1715	48.51	96.4	9.6	9.58	31.09	12.57
111	2008	49	1730	48.3	96.4	7.59	350.9	21.68	12.57
111	2008	49	1745	47.47	96.4	5.757	357.8	21.59	12.56
111	2008	49	1800	47.6	96.5	3.577	33.29	30.02	12.54
111	2008	49	1815	48.09	96.5	2.482	21.5	37.81	12.52
111	2008	49	1830	48.26	96.5	2.791	19.16	42.48	12.52
111	2008	49	1845	48.25	96.5	3.133	52.85	45.68	12.51
111	2008	49	1900	48.34	96.5	2.393	61.02	23.13	12.5
111	2008	49	1915	48.45	96.5	3.203	59.17	28.4	12.49
111	2008	49	1930	48.69	96.5	4.013	32.16	14.36	12.49
111	2008	49	1945	49.1	96.4	7.2	23.59	16.89	12.49
111	2008	49	2000	49.3	95.5	7.13	49.66	23.96	12.48
111	2008	49	2015	48.68	81.5	11.66	50.48	22.47	12.48
111	2008	49	2030	47.51	80.8	8.62	54.9	24.29	12.48
111	2008	49	2045	47.01	79.8	7.14	61.76	24.77	12.48
111	2008	49	2100	46.53	82.2	4.607	74.3	22.63	12.46
111	2008	49	2115	46.16	83.8	2.921	83	26.27	12.47
111	2008	49	2130	45.83	85	3.654	71.5	22.73	12.46
111	2008	49	2145	45.76	84.4	4.287	15.56	23.66	12.47
111	2008	49	2200	45.75	84.6	5.127	25.9	17.43	12.46
111	2008	49	2215	45.62	84.6	4.113	5.788	31.41	12.45
111	2008	49	2230	45.63	80.6	5.769	27.3	21.29	12.45
111	2008	49	2245	45.62	77.7	5.411	33.07	18.12	12.45
111	2008	49	2300	45.32	72.8	8.78	30.29	19.59	12.45
111	2008	49	2315	44.94	73.4	8	34.35	16.23	12.44
111	2008	49	2330	44.58	72.9	7.93	31.82	16.74	12.44
111	2008	49	2345	44.04	71.9	7.81	33.51	14.99	12.44
111	2008	49	2400	43.61	71.6	8.21	36.56	16.41	12.44
111	2008	50	15	42.99	70.4	7.44	40.83	20.85	12.43
111	2008	50	30	42.35	67.1	8.04	43.87	17.63	12.43
111	2008	50	45	41.9	63.29	8.07	43.42	20.32	12.43
111	2008	50	100	41.64	62.69	9.27	48.43	16.61	12.43
111	2008	50	115	41.01	64.73	6.89	43	17.27	12.42
111	2008	50	130	40.48	62.19	6.533	40.23	18.05	12.42
111	2008	50	145	40	61.62	5.874	50.44	20.67	12.41
111	2008	50	200	39.43	62.83	4.831	41.2	17.5	12.41
111	2008	50	215	38.92	62.29	5.455	35.36	16.42	12.4
111	2008	50	230	38.6	62.9	5.644	27.47	15.94	12.4
111	2008	50	245	38.36	61.49	5.844	43.39	19.21	12.39
111	2008	50	300	38.17	59.45	6.053	40.44	18.83	12.39
111	2008	50	315	38.06	58.58	6.285	31.03	17.82	12.39
111	2008	50	330	37.79	58.89	5.473	32.51	17.2	12.39

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	50	345	37.54	58.52	5.514	28.8	16.83	12.38
111	2008	50	400	37.32	58.49	5.922	27.27	14.77	12.38
111	2008	50	415	37.09	60.23	4.061	21.97	13.63	12.38
111	2008	50	430	36.15	63.45	2.479	4.172	15.38	12.37
111	2008	50	445	35.84	63.22	3.924	6.651	13.08	12.37
111	2008	50	500	35.43	64.59	3.636	358.7	18.75	12.37
111	2008	50	515	35.22	63.99	4.627	357.2	14.5	12.36
111	2008	50	530	35.54	63.22	5.661	6.297	14.5	12.35
111	2008	50	545	35.56	64.09	5.248	3.915	14.51	12.36
111	2008	50	600	35.35	65.13	4.549	0.63	15.2	12.36
111	2008	50	615	35.1	66.1	4.027	2.534	13.68	12.36
111	2008	50	630	34.82	66.47	4.22	3.095	11.17	12.35
111	2008	50	645	35.07	66.37	4.434	2.883	15.42	12.35
111	2008	50	700	34.96	67.47	4.218	1.088	14.71	12.35
111	2008	50	715	34.98	68.54	3.455	359.2	17.3	12.34
111	2008	50	730	34.62	71.6	3.112	347.2	20.2	12.34
111	2008	50	745	34.64	73.1	3.283	354.4	21.32	12.34
111	2008	50	800	34.97	72.5	3.483	353.3	24.52	12.35
111	2008	50	815	35.68	70.7	4.418	349.8	19.33	12.35
111	2008	50	830	36.65	68.95	5.191	357	16.42	13.18
111	2008	50	845	37.46	67.34	6.221	3.793	17.02	13.78
111	2008	50	900	38.09	63.48	8.56	3.278	16.67	13.76
111	2008	50	915	38.53	56.98	9.77	12.44	16.09	13.69
111	2008	50	930	38.83	49.77	9.54	9.55	20.36	13.75
111	2008	50	945	38.88	48.06	11.68	16.51	20.43	13.73
111	2008	50	1000	38.93	44.51	10.99	11.29	18.24	13.73
111	2008	50	1015	38.87	49.23	13.39	15.95	20.69	13.71
111	2008	50	1030	38.78	47.02	12.98	14.53	22.74	13.71
111	2008	50	1045	38.79	44.37	13.14	16.36	18.64	13.71
111	2008	50	1100	38.83	47.15	13.6	5.376	22.28	13.71
111	2008	50	1115	38.93	46.72	13.77	5.62	17.2	13.71
111	2008	50	1130	38.78	43.67	13.51	2.176	22.21	13.69
111	2008	50	1145	39.2	33.39	13.66	2.673	16.8	13.69
111	2008	50	1200	38.92	32.05	14.01	10.25	18.65	13.69
111	2008	50	1215	39.36	31.11	13.12	13.76	20.08	13.69
111	2008	50	1230	39.24	29.6	14.95	15.94	16.08	13.67
111	2008	50	1245	39.07	28.86	15.31	15.96	18.69	13.68
111	2008	50	1300	39.35	27.69	14.39	24.22	18.26	13.67
111	2008	50	1315	39.82	29.27	11.66	20.2	17.46	13.67
111	2008	50	1330	39.82	30.37	12.9	16.37	14.85	13.67
111	2008	50	1345	39.69	29.73	14.16	19.21	18.07	13.68
111	2008	50	1400	40.32	28.06	12.47	12.36	25.19	13.67
111	2008	50	1415	40.49	29.3	13.05	23.36	20.17	13.59
111	2008	50	1430	40.22	29.26	15.1	19.21	20.27	13.17
111	2008	50	1445	39.25	28.43	14.03	21.39	22.59	13.13
111	2008	50	1500	40.19	30.34	13.67	22.71	17.02	13.42
111	2008	50	1515	40.22	31.74	15.94	11.96	16.93	13.21
111	2008	50	1530	40.24	28.66	14.53	21.26	19.66	13.21
111	2008	50	1545	39.8	30.87	14.09	22.35	16.75	13.05
111	2008	50	1600	40.43	28.76	11.72	16.03	22.04	13.04
111	2008	50	1615	40.78	28.63	13.17	21.36	20.51	13.09
111	2008	50	1630	40.71	29.67	14.38	22.6	18	13.08
111	2008	50	1645	40.54	29.03	16.16	16.89	15.85	12.99
111	2008	50	1700	40.06	29.6	13.99	31.22	17.22	13
111	2008	50	1715	39.93	33.75	14.34	22.85	19.74	12.84
111	2008	50	1730	39.38	32.42	12.32	24.3	18.02	12.79
111	2008	50	1745	39.59	34.05	11.86	19.15	18.79	12.75
111	2008	50	1800	39.19	33.45	11.89	12.27	15.85	12.73
111	2008	50	1815	39.09	35.46	8.84	20.75	17.74	12.71
111	2008	50	1830	38.84	37.27	11.5	17.68	17.41	12.7

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	50	1845	38.39	41.69	11.19	15.7	18.01	12.69
111	2008	50	1900	38.02	42.36	8.52	12.79	17.79	12.68
111	2008	50	1915	38.2	37.01	8.81	22.58	17.7	12.66
111	2008	50	1930	38.02	38.65	9.96	25.7	16.69	12.65
111	2008	50	1945	37.95	36.27	10.19	17.6	14.51	12.65
111	2008	50	2000	38.16	35.73	9.75	20.7	18.29	12.64
111	2008	50	2015	38.12	39.15	6.66	38.8	15.89	12.64
111	2008	50	2030	37.68	37.31	6.926	44.39	22.34	12.63
111	2008	50	2045	37.1	36.57	8.7	38.18	18.79	12.63
111	2008	50	2100	36.96	32.96	9.98	32.8	18.39	12.61
111	2008	50	2115	36.63	30.61	12.19	43.82	22.13	12.61
111	2008	50	2130	36.21	37.85	9.06	45.71	22.45	12.61
111	2008	50	2145	35.16	39.03	9.1	50.84	22.71	12.6
111	2008	50	2200	34.21	36.61	8.95	46.46	20.5	12.59
111	2008	50	2215	33.59	33.37	10.51	43.29	20.98	12.59
111	2008	50	2230	32.95	33.63	10.72	46.25	17.44	12.57
111	2008	50	2245	32.31	34.44	10.33	51.43	22.15	12.57
111	2008	50	2300	31.81	34.2	11.69	49.54	19.35	12.56
111	2008	50	2315	31.42	35.98	9.68	49.76	19.01	12.55
111	2008	50	2330	30.91	37.29	7.55	55.47	20.7	12.54
111	2008	50	2345	30	53.38	8.08	65.85	25.04	12.54
111	2008	50	2400	29.09	53.65	8.17	59.58	21.15	12.53
111	2008	51	15	28.57	51.77	7.62	64.91	19.94	12.52
111	2008	51	30	28.29	47.95	7.62	55.44	21.79	12.51
111	2008	51	45	28.12	44	7.91	57.68	25.49	12.51
111	2008	51	100	28	43.57	8.29	46.43	21.09	12.5
111	2008	51	115	27.74	45.58	4.823	59.53	19.23	12.5
111	2008	51	130	27.35	41.45	6.348	70.2	20.39	12.49
111	2008	51	145	27	39.48	5.759	63.16	24.77	12.49
111	2008	51	200	26.78	38.41	5.955	48.64	20.79	12.48
111	2008	51	215	26.56	37.54	7.17	53.42	20.66	12.47
111	2008	51	230	26.31	33.88	7.49	55.71	20.2	12.46
111	2008	51	245	25.98	35.09	5.618	46.21	20.55	12.46
111	2008	51	300	25.68	35.43	4.847	44.95	22.98	12.46
111	2008	51	315	25.48	36.3	5.3	60.14	22.05	12.45
111	2008	51	330	25.21	37.31	4.823	58.99	17.82	12.45
111	2008	51	345	24.97	39.12	4.361	49.48	17.5	12.44
111	2008	51	400	24.7	40.66	3.408	42.8	15.98	12.44
111	2008	51	415	24.59	42.91	3.928	39.04	16.64	12.44
111	2008	51	430	24.46	44.89	3.793	41.62	17.03	12.42
111	2008	51	445	24.37	44.95	4.403	45.28	19.04	12.42
111	2008	51	500	24.26	46.09	4.049	48.48	20.93	12.42
111	2008	51	515	24.14	47.4	3.7	36.47	19.5	12.42
111	2008	51	530	23.98	47.2	3.692	32.05	15.19	12.41
111	2008	51	545	23.76	50.89	2.905	17.37	16.08	12.41
111	2008	51	600	23.32	51.76	2.532	13.73	14.24	12.4
111	2008	51	615	22.74	54.38	2.408	11.15	16.11	12.4
111	2008	51	630	22.75	52.1	5.163	6.155	15.13	12.4
111	2008	51	645	23.56	47.64	6.974	16.6	20.65	12.38
111	2008	51	700	23.91	44.65	6.916	25.65	17.26	12.39
111	2008	51	715	24.08	43.55	7.56	35.64	19.1	12.38
111	2008	51	730	23.97	40.97	8.68	43.03	19.74	12.39
111	2008	51	745	23.87	40.19	10.02	39.83	19.47	12.38
111	2008	51	800	23.7	41.84	9.77	39.22	20.3	12.38
111	2008	51	815	23.71	41.84	8.71	40.73	21.35	12.46
111	2008	51	830	24.07	41.8	6.412	41.05	22.81	13.99
111	2008	51	845	24.42	42.2	7.58	31.95	17.14	13.98
111	2008	51	900	24.9	39.86	10.37	27.49	16.67	13.97
111	2008	51	915	25.3	40.79	8.26	34.41	22.44	13.96
111	2008	51	930	25.62	39.95	9.79	38.87	17.2	13.96

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	51	945	25.83	38.81	9.38	42.39	20.29	13.94
111	2008	51	1000	26.21	37.33	8.54	43.1	22.96	13.93
111	2008	51	1015	26.62	36.63	12.04	17	20.12	13.93
111	2008	51	1030	26.28	35.99	12.93	30.78	17.44	13.88
111	2008	51	1045	26.56	35.96	12.42	31.1	20.61	13.93
111	2008	51	1100	27.12	35.72	9.99	33.41	24.66	13.22
111	2008	51	1115	27.28	37.53	10.42	33.76	18.48	13.47
111	2008	51	1130	27.76	36.39	10.99	21.14	19.9	13.9
111	2008	51	1145	27.85	37.46	11.4	9.23	18.73	13.89
111	2008	51	1200	27.99	36.08	12.19	24	22.65	13.88
111	2008	51	1215	28.09	36.55	9.14	39.12	20.04	13.87
111	2008	51	1230	29	34.98	8.84	26.87	18.75	13.87
111	2008	51	1245	29.46	34.14	8.99	41.81	24.37	13.86
111	2008	51	1300	29.37	32.13	10.6	32.86	27.21	13.85
111	2008	51	1315	29.15	32.26	11.74	32.62	20.79	13.85
111	2008	51	1330	29	28.71	11.58	20.66	22.87	13.86
111	2008	51	1345	30.04	27.3	10.06	35.89	21.59	13.86
111	2008	51	1400	30.49	26.5	9.39	49.2	24.13	13.84
111	2008	51	1415	30.51	24.19	10.37	53.42	23.61	13.83
111	2008	51	1430	30.42	27.4	9.99	40.91	23.14	13.83
111	2008	51	1445	30.77	27.13	9	54.86	23.68	13.84
111	2008	51	1500	31.13	26.16	7.93	59.31	26.2	13.84
111	2008	51	1515	31.32	23.35	7.39	46.61	24.73	13.83
111	2008	51	1530	31.39	23.99	9.01	53.99	21.48	13.83
111	2008	51	1545	31.74	23.45	7.29	69.35	22.33	13.83
111	2008	51	1600	31.91	25.13	6.618	59.65	22.97	13.83
111	2008	51	1615	31.75	25.46	6.386	74.6	26.69	13.83
111	2008	51	1630	31.42	23.75	5.989	48.78	24.56	13.51
111	2008	51	1645	30.65	25.59	6.511	35.5	20.08	13.55
111	2008	51	1700	30.84	26.7	4.051	68.08	33.84	13.04
111	2008	51	1715	30.7	26.37	5.445	56.29	29.7	12.97
111	2008	51	1730	30.49	26.2	4.555	56.18	27.86	12.82
111	2008	51	1745	30.46	25.59	4.714	59.48	22.24	12.75
111	2008	51	1800	30.37	26.26	3.1	46.23	24.71	12.72
111	2008	51	1815	30.41	26.6	3.934	40.84	22.24	12.7
111	2008	51	1830	30.34	26.8	3.62	49.99	21.46	12.68
111	2008	51	1845	30.29	27.48	2.784	54.25	20.58	12.66
111	2008	51	1900	30.22	28.68	1.93	49.01	24.06	12.65
111	2008	51	1915	30.19	28.85	1.645	53.96	24.45	12.64
111	2008	51	1930	30.24	28.95	2.182	23.73	43.2	12.63
111	2008	51	1945	30.27	27.91	1.954	59.1	23	12.62
111	2008	51	2000	30.26	28.52	2.393	69.52	34.76	12.61
111	2008	51	2015	30.21	29.32	1.867	61.93	37.32	12.6
111	2008	51	2030	30.18	29.22	2.588	96.5	22.53	12.59
111	2008	51	2045	30.02	31.5	3.334	102.3	21.77	12.59
111	2008	51	2100	29.82	32.74	3.451	95.9	22.25	12.58
111	2008	51	2115	29.64	34.08	3.255	81	24.19	12.57
111	2008	51	2130	29.56	34.82	2.727	69.52	17.66	12.57
111	2008	51	2145	29.42	35.52	2.673	71	21.11	12.56
111	2008	51	2200	29.28	36.16	2.477	73.2	17.26	12.56
111	2008	51	2215	29.22	37.2	2.401	78.1	17.22	12.55
111	2008	51	2230	29.05	38.51	2.234	72.9	18.45	12.55
111	2008	51	2245	28.76	40.92	1.119	63.77	13.77	12.54
111	2008	51	2300	28.51	41.05	1.508	45.77	12.91	12.53
111	2008	51	2315	28.56	39.95	2.439	58.11	17.46	12.52
111	2008	51	2330	28.73	39.14	3.656	76.9	25.5	12.52
111	2008	51	2345	28.59	36.56	4.256	95.8	25.71	12.51
111	2008	51	2400	28.24	33.78	4.105	101.9	24.88	12.51
111	2008	52	15	27.93	32.57	4.244	97.9	24.68	12.5
111	2008	52	30	27.69	34.32	4.146	107.7	22.8	12.5

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	52	45	27.39	34.12	4.446	106.6	23.98	12.49
111	2008	52	100	27.25	36.76	5.373	100.9	23.05	12.48
111	2008	52	115	26.72	41.83	5.383	124	26.14	12.48
111	2008	52	130	26.14	43.67	3.98	126.3	27.59	12.48
111	2008	52	145	25.68	41.5	4.291	125.1	27.23	12.46
111	2008	52	200	25.42	42.1	4.561	129.3	29.18	12.45
111	2008	52	215	25.06	41.8	3.898	115	29.26	12.45
111	2008	52	230	24.79	40.16	4.462	108.4	25.26	12.44
111	2008	52	245	24.5	39.66	4.305	103.3	23.73	12.44
111	2008	52	300	24.27	39.29	5.322	98.8	24.54	12.43
111	2008	52	315	24.08	41	4.694	100.1	25.72	12.43
111	2008	52	330	23.83	41.54	4.595	91.3	22.97	12.41
111	2008	52	345	23.61	41.94	5.542	85	23.33	12.41
111	2008	52	400	23.4	41.6	4.645	80.2	24.12	12.4
111	2008	52	415	23.21	40.97	5.427	81.6	21.3	12.4
111	2008	52	430	23.07	39.69	6.724	77.2	20.72	12.4
111	2008	52	445	22.87	40.03	6.15	78.4	25.19	12.38
111	2008	52	500	22.5	40.9	6.126	84.7	24.8	12.38
111	2008	52	515	22.13	42.34	6.871	72	17.56	12.38
111	2008	52	530	21.71	43.78	6.533	80.2	17.9	12.37
111	2008	52	545	21.42	44.62	5.437	80.5	21.86	12.36
111	2008	52	600	21.19	45.53	5.242	78.5	18.11	12.36
111	2008	52	615	21.03	46.78	5.719	76.6	26.24	12.36
111	2008	52	630	20.88	47.14	5.612	78.3	19.72	12.35
111	2008	52	645	20.69	47.98	4.738	80.9	19.67	12.35
111	2008	52	700	21.01	47.52	3.821	70.3	23.28	12.34
111	2008	52	715	20.61	49.19	5.111	75.4	16.72	12.34
111	2008	52	730	20.33	50.37	3.753	73	21.81	12.33
111	2008	52	745	20.29	50.9	3.392	69.61	21.04	12.33
111	2008	52	800	20.16	51.8	4.23	72.6	17.29	12.33
111	2008	52	815	20.48	52.34	4.363	72.5	14.92	12.43
111	2008	52	830	20.95	51.1	4.544	71	24.03	14.06
111	2008	52	845	21.57	51.06	5.624	69.88	22.03	14.03
111	2008	52	900	22.02	49.08	5.248	63.13	22.18	14.02
111	2008	52	915	22.38	48.54	5.733	79.5	27.25	14
111	2008	52	930	22.91	47.84	4.857	65.33	23.43	14
111	2008	52	945	23.14	46.32	6.1	49.93	22.18	13.98
111	2008	52	1000	23.33	46.32	5.04	59.93	24.99	13.97
111	2008	52	1015	23.62	45.61	5.999	52.76	26.36	13.97
111	2008	52	1030	24.16	44.14	5.882	71.8	24.42	13.96
111	2008	52	1045	24.41	44.47	5.284	55.24	26.09	13.95
111	2008	52	1100	24.5	43.06	6.479	59.54	25.11	13.15
111	2008	52	1115	24.61	39.88	6.477	78.4	22.17	13.16
111	2008	52	1130	25.6	38.74	6.243	73.9	39.58	13.93
111	2008	52	1145	25.92	33.24	7.19	71.7	29.18	13.91
111	2008	52	1200	26.83	31.77	6.491	94.9	30.68	13.89
111	2008	52	1215	26.95	33.71	6.755	90.3	27.28	13.89
111	2008	52	1230	27.04	34.44	6.003	90.8	30.7	13.88
111	2008	52	1245	27.36	34.37	5.044	87.8	35.04	13.87
111	2008	52	1300	27.02	35.85	6.837	37.22	23.9	13.86
111	2008	52	1315	26.99	32.26	7.01	48.64	23.24	13.86
111	2008	52	1330	27.61	32.19	6.41	82.9	24.32	13.86
111	2008	52	1345	28.81	31.46	6.281	100.7	24.58	13.86
111	2008	52	1400	28.23	34.54	5.032	57.62	43.25	13.84
111	2008	52	1415	29.38	31.39	5.532	87.6	30.66	13.84
111	2008	52	1430	29.78	30.08	5.626	93.2	33.61	13.83
111	2008	52	1445	29.56	30.79	5.425	43.1	33.48	13.82
111	2008	52	1500	30.2	30.22	6.605	74	32.08	13.82
111	2008	52	1515	30.58	27.17	6.37	88.7	26.88	13.82
111	2008	52	1530	31.19	26.93	5.785	93	34.44	13.81

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	52	1545	31.06	28.4	5.199	55.27	33.31	13.81
111	2008	52	1600	31.28	28.27	4.476	74.5	38.31	13.81
111	2008	52	1615	31.13	28.8	6.323	48.11	29.34	13.81
111	2008	52	1630	30.93	28.87	5.888	26.49	20.82	13.09
111	2008	52	1645	31.28	27.46	5.947	46.44	25.68	12.89
111	2008	52	1700	31.68	27.33	5.572	82.7	31.61	12.81
111	2008	52	1715	31.47	26.86	4.73	45.8	34.46	12.77
111	2008	52	1730	31.74	26.9	5.046	54.71	30.52	12.75
111	2008	52	1745	31.09	27.1	4.774	51.75	26.73	12.72
111	2008	52	1800	30.86	26.86	4.351	25.05	25.74	12.71
111	2008	52	1815	30.7	28.34	4.007	48.51	18.11	12.69
111	2008	52	1830	29.97	29.85	3.662	30.76	22.81	12.67
111	2008	52	1845	29.61	31.09	2.933	61.08	20.9	12.65
111	2008	52	1900	29.34	31.76	1.99	89.1	24.78	12.64
111	2008	52	1915	29.12	32.5	2.073	98.7	25.28	12.63
111	2008	52	1930	28.69	35.19	1.644	135.4	19.45	12.61
111	2008	52	1945	28.26	35.46	2.145	147	28.39	12.59
111	2008	52	2000	28.1	35.93	1.12	126.8	24.25	12.58
111	2008	52	2015	27.89	36.46	0.587	143.3	17.9	12.57
111	2008	52	2030	27.06	43.98	0.009	136.7	0	12.56
111	2008	52	2045	26.15	46.53	na	na	na	12.56
111	2008	52	2100	26.11	46.43	0.503	75.1	6.22	12.54
111	2008	52	2115	25.92	48.58	0.314	75.7	2.566	12.53
111	2008	52	2130	25.59	52.16	na	na	na	12.52
111	2008	52	2145	25.96	52.36	0.084	131	3.56	12.52
111	2008	52	2200	26.48	52.1	0.087	103.9	6.957	12.52
111	2008	52	2215	27.05	49.35	0.018	167.6	1.729	12.5
111	2008	52	2230	26.85	52.46	na	na	na	12.5
111	2008	52	2245	26.9	51.79	0.222	7.24	0.48	12.5
111	2008	52	2300	27.09	51.79	na	na	na	12.5
111	2008	52	2315	27.33	46.96	0.435	280.3	8.71	12.5
111	2008	52	2330	27.67	43.27	0.762	229.5	19.65	12.49
111	2008	52	2345	28.5	40.12	0.842	242.1	22.29	12.49
111	2008	52	2400	28.63	35.99	0.915	206.2	13.69	12.49
111	2008	53	15	29.03	35.79	2.421	223.3	17.17	12.49
111	2008	53	30	29.03	36.46	2.312	224.3	16.18	12.49
111	2008	53	45	29.01	37.9	2.355	218.1	17.03	12.48
111	2008	53	100	29.1	40.35	2.749	210.3	12.42	12.47
111	2008	53	115	29.1	44.74	2.488	286.8	62.87	12.48
111	2008	53	130	29.25	48.29	1.168	333.3	21.28	12.47
111	2008	53	145	29.73	48.66	2.759	324.9	25.84	12.47
111	2008	53	200	30.05	49.13	3.354	323.7	28.33	12.47
111	2008	53	215	30.21	49.13	3.97	319.8	28.63	12.46
111	2008	53	230	30.3	50.17	3.773	317.2	28.4	12.46
111	2008	53	245	29.28	69.27	6.795	343.3	22.55	12.45
111	2008	53	300	26.93	84.9	5.405	326.3	21.36	12.44
111	2008	53	315	26.28	88.8	3.714	315.3	30.73	12.44
111	2008	53	330	26.24	90.5	4.293	291.6	26.09	12.44
111	2008	53	345	26	91.2	3.164	308.5	31.67	12.43
111	2008	53	400	25.77	92.1	3.731	303.7	23.17	12.42
111	2008	53	415	25.99	92.7	3.221	286.4	21.72	12.41
111	2008	53	430	26.24	93.1	3.98	274.7	27.98	12.41
111	2008	53	445	26.05	93.3	3.555	291	25.97	12.4
111	2008	53	500	25.49	93.9	3.93	291.6	27.55	12.4
111	2008	53	515	25.68	94.3	3.088	269.5	23.44	12.4
111	2008	53	530	25.75	94.1	4.206	280.2	22.43	12.38
111	2008	53	545	25.53	94.3	3.898	285.7	27.28	12.38
111	2008	53	600	25.06	94.5	4.613	287	31.69	12.38
111	2008	53	615	25.08	94.8	3.315	283.4	28.74	12.38
111	2008	53	630	24.9	94.8	2.184	287.7	30.38	12.38

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	53	645	24.69	95	0.15	242.5	19.76	12.37
111	2008	53	700	24.84	95.2	0.704	206.9	9.16	12.37
111	2008	53	715	25.15	95.2	3.318	195.8	20.75	12.36
111	2008	53	730	25.18	95.2	3.676	202.6	17.1	12.36
111	2008	53	745	25.27	95.4	3.672	213.6	19.93	12.36
111	2008	53	800	25.42	95.3	3.946	206.1	19.52	12.36
111	2008	53	815	25.48	95.5	3.436	208.9	17.86	12.36
111	2008	53	830	25.58	95.4	2.981	207	19.21	12.36
111	2008	53	845	25.84	95.6	3.187	199.7	23.72	12.36
111	2008	53	900	26.25	95.7	3.283	206	19.72	12.35
111	2008	53	915	26.92	95.8	3.781	213.8	20.52	12.35
111	2008	53	930	27.79	95.9	4.627	232.9	25.73	12.36
111	2008	53	945	28.65	95.9	5.231	235.3	17.42	12.36
111	2008	53	1000	29.06	96	5.499	246.6	20.31	12.36
111	2008	53	1015	29.3	96	5.419	250.1	23.69	12.36
111	2008	53	1030	29.45	96	6.438	241.2	15.63	12.38
111	2008	53	1045	29.49	96.1	7.74	241.3	17.46	12.59
111	2008	53	1100	29.67	96.2	7.47	234.9	19.08	12.52
111	2008	53	1115	29.86	96.3	6.892	235.8	18.99	12.5
111	2008	53	1130	30.01	96.4	6.771	237	17.51	12.43
111	2008	53	1145	30.15	96.5	6.098	225.4	17.78	12.39
111	2008	53	1200	30.34	96.6	6.68	228.9	17.35	12.39
111	2008	53	1215	30.64	96.5	7.51	234.7	19.2	12.42
111	2008	53	1230	30.89	96.7	7.67	234.3	15.78	12.43
111	2008	53	1245	31.2	96.7	7.06	231.8	17.53	12.54
111	2008	53	1300	31.34	96.8	5.238	225.9	18.92	12.51
111	2008	53	1315	31.63	96.9	5.88	218.2	18.44	12.5
111	2008	53	1330	31.86	96.9	5.26	213.4	18.87	12.57
111	2008	53	1345	32.08	96.9	4.685	208.7	19.4	12.57
111	2008	53	1400	32.29	96.8	5.022	206.7	20.32	12.58
111	2008	53	1415	32.38	96.8	4.943	205.2	21.6	12.64
111	2008	53	1430	32.54	96.8	4.802	199.1	20.14	12.68
111	2008	53	1445	32.61	96.8	4.754	182.6	28.31	12.66
111	2008	53	1500	32.74	96.8	3.753	162.2	18.89	12.63
111	2008	53	1515	32.85	96.8	3.35	148.7	30.7	12.61
111	2008	53	1530	32.71	96.8	3.698	142.3	23.78	12.55
111	2008	53	1545	32.55	96.8	4.035	154	23.9	12.52
111	2008	53	1600	32.54	96.8	4.548	159.1	22.73	12.52
111	2008	53	1615	32.39	96.7	4.679	153.2	23.66	12.45
111	2008	53	1630	32.23	96.8	4.208	140.3	22.72	12.41
111	2008	53	1645	32.13	96.9	5.076	148.8	24.76	12.41
111	2008	53	1700	32.04	96.9	5.177	142.3	28.69	12.4
111	2008	53	1715	32.15	96.8	5.127	139.2	29.52	12.39
111	2008	53	1730	32.15	96.8	5.3	146.7	35.46	12.39
111	2008	53	1745	32.16	96.9	4.986	144.2	25.68	12.37
111	2008	53	1800	32.22	96.8	4.974	135.5	28.05	12.37
111	2008	53	1815	32.36	96.8	5.524	142.4	21.63	12.37
111	2008	53	1830	32.51	96.7	5.242	141.8	26.81	12.37
111	2008	53	1845	32.72	96.8	6.839	161.2	22.3	12.37
111	2008	53	1900	32.82	96.6	6.835	140.4	21.69	12.37
111	2008	53	1915	32.56	96.6	7.28	135.6	21.49	12.36
111	2008	53	1930	32.15	96.6	6.704	138	34.37	12.36
111	2008	53	1945	32.1	96.5	6.376	142.3	29.38	12.36
111	2008	53	2000	32.01	96.5	6.426	137.8	31.28	12.36
111	2008	53	2015	31.81	96.3	5.822	133.5	24.82	12.35
111	2008	53	2030	31.29	96.4	6.638	144.5	29.48	12.36
111	2008	53	2045	31.13	96.2	6.025	131.4	32.37	12.36
111	2008	53	2100	30.89	96.2	6.831	133.4	29.69	12.35
111	2008	53	2115	30.63	96	6.44	126	24.99	12.35
111	2008	53	2130	30.38	95.8	6.837	122.1	22.95	12.35

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	53	2145	30.15	95.5	na	na	na	12.35
111	2008	53	2200	30.1	95.3	na	na	na	12.35
111	2008	53	2215	30.07	95	na	na	na	12.34
111	2008	53	2230	29.91	94.7	na	na	na	12.34
111	2008	53	2245	29.87	94.4	na	na	na	12.34
111	2008	53	2300	29.84	94.1	na	na	na	12.34
111	2008	53	2315	29.75	94	na	na	na	12.34
111	2008	53	2330	29.72	93.7	na	na	na	12.33
111	2008	53	2345	29.64	93.2	na	na	na	12.33
111	2008	53	2400	29.49	92.9	na	na	na	12.33
111	2008	54	15	29.37	92.6	na	na	na	12.33
111	2008	54	30	29.31	92.3	na	na	na	12.33
111	2008	54	45	29.27	91.8	na	na	na	12.33
111	2008	54	100	29.23	91.6	na	na	na	12.32
111	2008	54	115	29.2	91.5	na	na	na	12.32
111	2008	54	130	29.24	91.2	na	na	na	12.32
111	2008	54	145	29.25	90.9	na	na	na	12.32
111	2008	54	200	29.4	90.7	na	na	na	12.32
111	2008	54	215	29.29	90.4	na	na	na	12.32
111	2008	54	230	29.31	90.4	na	na	na	12.31
111	2008	54	245	29.39	90.3	na	na	na	12.31
111	2008	54	300	29.49	90	na	na	na	12.31
111	2008	54	315	29.51	89.8	na	na	na	12.31
111	2008	54	330	29.56	89.8	na	na	na	12.31
111	2008	54	345	29.63	89.2	na	na	na	12.31
111	2008	54	400	29.57	88.7	na	na	na	12.31
111	2008	54	415	29.54	88.4	na	na	na	12.3
111	2008	54	430	29.57	88.4	na	na	na	12.31
111	2008	54	445	29.66	88.6	na	na	na	12.31
111	2008	54	500	29.63	88.5	na	na	na	12.3
111	2008	54	515	29.6	88.8	na	na	na	12.31
111	2008	54	530	29.61	89.3	na	na	na	12.3
111	2008	54	545	29.47	90	na	na	na	12.3
111	2008	54	600	29.37	90.3	na	na	na	12.3
111	2008	54	615	29.17	90.8	na	na	na	12.3
111	2008	54	630	28.91	91.1	na	na	na	12.29
111	2008	54	645	28.84	91.3	na	na	na	12.29
111	2008	54	700	28.88	91.6	na	na	na	12.29
111	2008	54	715	28.92	91.3	na	na	na	12.29
111	2008	54	730	28.88	91.3	na	na	na	12.3
111	2008	54	745	28.81	91.1	na	na	na	12.3
111	2008	54	800	28.83	91.3	na	na	na	12.29
111	2008	54	815	28.81	91.1	na	na	na	12.29
111	2008	54	830	28.7	90.3	na	na	na	12.29
111	2008	54	845	28.8	89.6	na	na	na	12.28
111	2008	54	900	28.89	89.3	na	na	na	12.29
111	2008	54	915	29	88.6	na	na	na	12.28
111	2008	54	930	28.99	87.9	na	na	na	12.28
111	2008	54	945	29.06	86.6	na	na	na	12.32
111	2008	54	1000	29.22	86.2	na	na	na	12.31
111	2008	54	1015	29.16	85.6	na	na	na	12.32
111	2008	54	1030	29.23	85.4	na	na	na	12.3
111	2008	54	1045	29.37	84.9	na	na	na	12.3
111	2008	54	1100	29.43	84	na	na	na	12.35
111	2008	54	1115	29.47	83.6	na	na	na	12.34
111	2008	54	1130	29.65	83.5	na	na	na	12.48
111	2008	54	1145	29.85	83.5	na	na	na	12.52
111	2008	54	1200	29.75	83.7	na	na	na	12.52
111	2008	54	1215	29.97	84.1	na	na	na	12.59
111	2008	54	1230	29.88	86	na	na	na	12.72

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	54	1245	29.88	87.2	na	na	na	12.76
111	2008	54	1300	29.68	88	na	na	na	12.73
111	2008	54	1315	29.65	88.3	na	na	na	12.72
111	2008	54	1330	29.91	87.6	na	na	na	12.87
111	2008	54	1345	30.08	87.4	na	na	na	12.88
111	2008	54	1400	30.21	86.5	0.036	121.7	2.356	12.89
111	2008	54	1415	30.45	86.2	2.288	147.5	25.68	12.99
111	2008	54	1430	30.57	85.6	2.763	141.6	24.66	12.97
111	2008	54	1445	30.57	85.8	3.557	137.6	30.65	12.95
111	2008	54	1500	30.76	84.7	3.086	135.9	30.22	12.93
111	2008	54	1515	30.72	84.6	3.759	101	22.29	12.86
111	2008	54	1530	30.74	83.7	3.225	124.7	26.14	12.86
111	2008	54	1545	31.01	82.5	3.309	120.7	26.66	12.84
111	2008	54	1600	30.84	82.9	3.994	113.2	29.54	12.81
111	2008	54	1615	30.95	82.7	3.54	119.6	23.67	12.74
111	2008	54	1630	31.05	81.9	3.789	109	24.04	12.73
111	2008	54	1645	31.11	82.3	3.13	111.7	27.12	12.68
111	2008	54	1700	31.12	81.9	3.44	132.7	26.58	12.64
111	2008	54	1715	31.19	82.1	2.681	132	30.74	12.59
111	2008	54	1730	31.31	82	2.199	134.7	34.34	12.56
111	2008	54	1745	31.26	82.1	2.439	114.5	24.47	12.53
111	2008	54	1800	31.29	82.6	2.295	102.9	25.66	12.51
111	2008	54	1815	31.3	82.7	2.55	81.7	20.9	12.5
111	2008	54	1830	31.29	83.3	1.119	69.69	21.91	12.46
111	2008	54	1845	31.23	83.8	1.547	60.81	15.8	12.45
111	2008	54	1900	31.21	83.9	1.484	61.05	19.59	12.43
111	2008	54	1915	31.17	84.3	1.169	54.13	12.29	12.41
111	2008	54	1930	31.24	84.6	0.595	64.53	11.67	12.4
111	2008	54	1945	31.22	85	1.349	52.2	11.48	12.39
111	2008	54	2000	31.2	85.3	1.085	42.49	15.85	12.37
111	2008	54	2015	30.94	86.1	1.48	53.97	13.65	12.36
111	2008	54	2030	30.63	86.5	0.744	70.8	10.66	12.34
111	2008	54	2045	30.36	86.9	1.547	58.42	17.35	12.33
111	2008	54	2100	30.21	86.2	2.123	64.81	17.15	12.31
111	2008	54	2115	29.9	85.5	1.818	60.27	15.55	12.3
111	2008	54	2130	29.78	85	1.56	59.18	16.33	12.29
111	2008	54	2145	29.74	83.9	1.972	63.21	15.89	12.28
111	2008	54	2200	29.68	82.9	2.266	71.4	18.46	12.28
111	2008	54	2215	29.66	81.5	2.475	78	19.08	12.28
111	2008	54	2230	29.66	80.2	1.973	69.88	20.79	12.27
111	2008	54	2245	29.51	80	1.952	59.02	24.44	12.27
111	2008	54	2300	29.18	80.9	1.438	69.29	16.79	12.27
111	2008	54	2315	28.6	81.8	0.563	56.46	12.32	12.26
111	2008	54	2330	28.07	82.8	0.852	75.6	6.745	12.25
111	2008	54	2345	27.19	85.2	0.65	58.18	16.37	12.25
111	2008	54	2400	27.07	85	0.936	58.88	13.57	12.24
111	2008	55	15	26.71	86.5	1.595	41.71	14.99	12.24
111	2008	55	30	26.78	85.2	1.697	68.23	19.84	12.24
111	2008	55	45	26.81	83.2	1.87	74.9	16.02	12.23
111	2008	55	100	26.61	83.4	1.954	54.99	15.13	12.22
111	2008	55	115	26.1	84	1.38	61.45	15.72	12.22
111	2008	55	130	25.81	84.1	1.514	67.71	16.62	12.22
111	2008	55	145	25.56	83.9	1.881	68.27	17.62	12.22
111	2008	55	200	25.49	83	2.017	68.8	24.88	12.22
111	2008	55	215	24.99	83.7	1.241	76.9	15.08	12.21
111	2008	55	230	24.9	82.8	2.342	73.9	17.13	12.21
111	2008	55	245	24.72	82	1.959	81.3	19.79	12.21
111	2008	55	300	24.83	78.6	2.901	81.9	21.79	12.2
111	2008	55	315	24.8	78.3	2.195	64.59	20.51	12.2
111	2008	55	330	24.57	76.8	2.836	82.4	22.19	12.2

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	55	345	24.44	77.2	2.739	79.5	17.15	12.2
111	2008	55	400	24.01	77.8	2.348	69.9	18.58	12.2
111	2008	55	415	23.6	79.1	2.091	68.26	20	12.19
111	2008	55	430	23.27	79.7	2.651	80.5	16.73	12.18
111	2008	55	445	22.9	79.9	1.437	88.5	17.79	12.19
111	2008	55	500	22.64	79.4	na	na	na	12.18
111	2008	55	515	22.57	76.3	na	na	na	12.18
111	2008	55	530	22.65	74.5	na	na	na	12.18
111	2008	55	545	22.39	73.6	na	na	na	12.18
111	2008	55	600	22.01	74.2	na	na	na	12.17
111	2008	55	615	21.86	73.3	na	na	na	12.17
111	2008	55	630	21.71	74.5	na	na	na	12.17
111	2008	55	645	21.37	74.9	na	na	na	12.17
111	2008	55	700	21.18	75.2	na	na	na	12.17
111	2008	55	715	21.02	74.6	na	na	na	12.16
111	2008	55	730	20.81	74.6	na	na	na	12.15
111	2008	55	745	20.73	75.1	na	na	na	12.15
111	2008	55	800	20.78	75.6	na	na	na	12.17
111	2008	55	815	21.29	74	na	na	na	12.55
111	2008	55	830	22.06	71.4	na	na	na	12.73
111	2008	55	845	23.13	68.97	na	na	na	13.97
111	2008	55	900	24.44	65.01	na	na	na	13.96
111	2008	55	915	25.37	63.86	na	na	na	13.94
111	2008	55	930	26.07	62.85	na	na	na	13.92
111	2008	55	945	26.89	59.82	3.182	85.6	24.44	13.89
111	2008	55	1000	27.65	57.84	4.587	79.2	25.27	13.88
111	2008	55	1015	28.6	55.13	4.389	77.5	28.17	13.86
111	2008	55	1030	29.48	54.22	4.18	89.7	28.68	13.84
111	2008	55	1045	30.16	50.76	5.002	96.1	35.68	13.83
111	2008	55	1100	30.47	50.79	5.139	86.8	32.81	13.19
111	2008	55	1115	30.72	49.55	5.786	91.7	23.19	13.11
111	2008	55	1130	31.51	48.51	4.843	95.3	28.69	13.8
111	2008	55	1145	31.45	49.38	5.723	78.6	25.87	13.77
111	2008	55	1200	31.81	48.8	5.213	88.2	31.52	13.75
111	2008	55	1215	32.49	46.42	4.063	86.6	48.66	13.76
111	2008	55	1230	31.93	47.86	6.031	59.04	24.89	13.75
111	2008	55	1245	32.55	47.22	5.129	57.19	21.39	13.75
111	2008	55	1300	33.14	46.55	4.931	60.45	33.92	13.74
111	2008	55	1315	32.56	48.33	5.826	18.54	25.35	13.74
111	2008	55	1330	32.99	47.52	6.546	21.97	28.76	13.74
111	2008	55	1345	33.46	45.31	5.258	16.07	28.59	13.74
111	2008	55	1400	33.87	48.66	5.691	25.43	30.51	13.74
111	2008	55	1415	34.25	46.78	5.731	20.08	38.28	13.74
111	2008	55	1430	34.19	44.68	6.194	30.92	25.45	13.73
111	2008	55	1445	34.25	54.82	6.855	348.1	31.08	13.74
111	2008	55	1500	33.63	52.71	7.7	337	25.14	13.75
111	2008	55	1515	33.58	53.92	8.05	346.5	20.58	13.75
111	2008	55	1530	34	51.67	6.35	334	23.42	13.77
111	2008	55	1545	34.05	53.45	6.962	347.5	26.17	13.77
111	2008	55	1600	34.41	55.49	6.017	335.1	25.78	13.77
111	2008	55	1615	34.22	57.1	6.831	351.1	21.62	13.63
111	2008	55	1630	34.76	54.72	5.542	333.9	31.96	13.09
111	2008	55	1645	35.23	57.07	6.674	351.1	18.79	12.93
111	2008	55	1700	35.22	57.37	5.151	335.8	28.41	12.87
111	2008	55	1715	36.04	48.49	5.888	3.606	41	12.82
111	2008	55	1730	36.61	49.03	4.544	48.33	28.52	12.79
111	2008	55	1745	36.76	46.95	3.753	49.29	30.71	12.76
111	2008	55	1800	36.99	47.92	3.612	26.53	19.69	12.75
111	2008	55	1815	36.52	49.2	3.307	27.69	15.21	12.73
111	2008	55	1830	35.62	59.88	2.947	346.4	25.64	12.72

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	55	1845	33.99	63.3	3.374	345	23.86	12.71
111	2008	55	1900	33.22	64.28	3.328	342.2	20.62	12.69
111	2008	55	1915	32.92	63.98	3.247	353.1	19.47	12.67
111	2008	55	1930	32.76	63.28	3.851	1.193	15.96	12.66
111	2008	55	1945	32.67	63.45	3.65	7.1	16.46	12.65
111	2008	55	2000	32.56	63.32	3.882	10.57	15.14	12.64
111	2008	55	2015	32.3	63.33	3.179	358.1	18.63	12.63
111	2008	55	2030	32.19	62.23	3.67	353.3	19.72	12.63
111	2008	55	2045	32.4	61.22	4.283	3.536	17.33	12.62
111	2008	55	2100	32.48	60.98	4.899	2.842	17.17	12.62
111	2008	55	2115	32.58	60.28	4.336	7.67	17.73	12.61
111	2008	55	2130	32.17	60.95	2.697	353.3	17.67	12.6
111	2008	55	2145	32.01	61.56	3.813	4.217	14.3	12.59
111	2008	55	2200	31.78	62.93	3.571	8.07	12.7	12.59
111	2008	55	2215	31.75	63	3.203	12.73	17.26	12.58
111	2008	55	2230	31.64	63	2.746	6.606	18.34	12.58
111	2008	55	2245	31.44	62.2	2.242	1.31	16.31	12.57
111	2008	55	2300	31.33	63.04	2.367	21.24	20.74	12.56
111	2008	55	2315	31.28	63.34	2.294	51.91	17.04	12.56
111	2008	55	2330	30.8	64.61	2.006	48.19	19.08	12.55
111	2008	55	2345	30.36	66.82	1.673	22.79	21.08	12.56
111	2008	55	2400	29.42	68.26	0.442	346.6	34.56	12.54
111	2008	56	15	28.44	74.4	na	na	na	12.54
111	2008	56	30	27.03	77.6	0.579	356.8	13.34	12.54
111	2008	56	45	26.86	76.9	0.327	11.04	4.027	12.53
111	2008	56	100	26.89	77	na	na	na	12.51
111	2008	56	115	26.39	79.8	na	na	na	12.51
111	2008	56	130	25.63	81.6	0.5	6.596	12.71	12.5
111	2008	56	145	25.42	82.3	0.514	139.9	4.668	12.49
111	2008	56	200	25.06	83	0.018	310.3	0.027	12.5
111	2008	56	215	24.98	83.4	na	na	na	12.49
111	2008	56	230	25.46	83.3	na	na	na	12.49
111	2008	56	245	25.24	83.5	0.027	74.1	3.148	12.48
111	2008	56	300	24.97	84.6	0.447	18.4	5.235	12.48
111	2008	56	315	24.82	84.5	0.009	119.7	0.002	12.48
111	2008	56	330	24.54	84.8	na	na	na	12.47
111	2008	56	345	24.11	85.5	0.018	140.7	0.59	12.47
111	2008	56	400	23.84	85.7	0.221	131.9	2.62	12.45
111	2008	56	415	23.51	86.4	na	na	na	12.46
111	2008	56	430	23.38	87.1	na	na	na	12.46
111	2008	56	445	23.52	87.5	na	na	na	12.45
111	2008	56	500	23.81	87.8	na	na	na	12.44
111	2008	56	515	24.03	87.7	0.026	45.38	1.498	12.45
111	2008	56	530	24.18	87.7	na	na	na	12.44
111	2008	56	545	24.04	87.8	na	na	na	12.44
111	2008	56	600	24.21	88.3	na	na	na	12.44
111	2008	56	615	24.98	87.8	0.009	38.62	0	12.44
111	2008	56	630	26.22	86	0.552	43.52	9.61	12.44
111	2008	56	645	28.73	78.5	1.648	37.32	14.36	12.44
111	2008	56	700	29.63	75.9	2.159	42.29	12.75	12.44
111	2008	56	715	29.93	75.2	0.899	32.05	14.99	12.45
111	2008	56	730	28.62	77.7	1.27	28.54	15.4	12.45
111	2008	56	745	28.24	78.2	1.479	9.42	15.66	12.45
111	2008	56	800	28.13	78.8	0.207	14.41	6.862	12.45
111	2008	56	815	28.47	78.1	1.572	13.3	19.41	12.42
111	2008	56	830	29.55	73.8	2.655	30.47	17.2	12.44
111	2008	56	845	30.44	70.7	3.519	24.48	17.69	12.55
111	2008	56	900	30.79	69.81	3.279	18.44	19.04	12.74
111	2008	56	915	31.53	65.88	3.928	2.836	13.92	13.9
111	2008	56	930	32.94	62.06	3.795	2.078	18.92	13.86

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	56	945	34.39	58.57	3.509	28.46	20.52	13.84
111	2008	56	1000	35.46	54.78	3.839	32.78	27	13.81
111	2008	56	1015	36.62	52.73	3.674	39.62	27.94	13.8
111	2008	56	1030	37.45	48.77	4.496	27.94	23.97	13.78
111	2008	56	1045	37.85	48.13	5.588	30.55	18.97	13.76
111	2008	56	1100	38.09	47.05	5.373	51.33	21.27	13.75
111	2008	56	1115	38.49	46.25	4.754	37.42	24.93	13.29
111	2008	56	1130	39.2	44.1	4.486	40.96	25.81	13.74
111	2008	56	1145	39.66	42.02	4.526	55.95	21.27	13.72
111	2008	56	1200	40.56	42.86	3.395	81.3	39.55	13.7
111	2008	56	1215	41	42.75	4.986	49.62	32.56	13.68
111	2008	56	1230	41.4	43.79	4.538	46.5	28.69	13.67
111	2008	56	1245	41.35	41.28	5.767	16.6	19.73	13.65
111	2008	56	1300	41.94	40.31	5.286	25.71	28.08	13.64
111	2008	56	1315	42.38	39.54	4.792	31.67	22.89	13.62
111	2008	56	1330	42.63	38	6.634	19.07	20.91	13.62
111	2008	56	1345	43.03	37.8	6.807	31.31	21.39	13.61
111	2008	56	1400	43.73	35.52	5.997	29.39	23.1	13.6
111	2008	56	1415	44.43	34.11	4.911	32.25	28.84	13.6
111	2008	56	1430	44.71	34.14	6.156	43.04	23.17	13.58
111	2008	56	1445	44.84	35.04	5.115	33.93	36.39	13.58
111	2008	56	1500	45.32	32.36	5.437	34.13	31.21	13.58
111	2008	56	1515	45.25	33.47	5.175	23.42	25.59	13.58
111	2008	56	1530	45.21	49.63	6.094	0.417	31.8	13.58
111	2008	56	1545	44.83	48.93	6.609	339.5	25.83	13.58
111	2008	56	1600	45.09	48.63	5.814	335.1	27.62	13.58
111	2008	56	1615	44.86	45.45	6.267	340	24.25	13.36
111	2008	56	1630	45.3	44.04	5.086	342.5	26.01	13.03
111	2008	56	1645	45.38	43.51	5.318	345.2	29.25	12.89
111	2008	56	1700	45.21	41.5	5.751	340.7	26.73	12.84
111	2008	56	1715	45.39	42.24	5.532	342.5	24.84	12.8
111	2008	56	1730	45	41.07	6.565	354.5	19.42	12.77
111	2008	56	1745	44.55	38.89	5.729	344.5	20.07	12.75
111	2008	56	1800	44.33	38.73	6.352	355.1	22.84	12.73
111	2008	56	1815	43.86	37.73	5.332	355.4	17.8	12.72
111	2008	56	1830	43.41	38.43	4.095	351.3	21.74	12.71
111	2008	56	1845	42.64	39.64	4.339	348.4	24.36	12.69
111	2008	56	1900	41.02	59.46	3.263	326.4	22.86	12.68
111	2008	56	1915	39.08	65.06	3.271	321.3	18.96	12.67
111	2008	56	1930	38.34	69.19	3.106	328.5	20.68	12.65
111	2008	56	1945	37.8	74	2.862	323.5	21.96	12.64
111	2008	56	2000	37.4	76.6	2.657	325	22.68	12.63
111	2008	56	2015	36.99	76.4	1.663	318.3	19.69	12.62
111	2008	56	2030	36.7	75.5	2.188	324.2	23.43	12.61
111	2008	56	2045	36.89	75.6	2.046	339.6	24	12.6
111	2008	56	2100	36.85	74.9	1.169	332.9	17.83	12.59
111	2008	56	2115	36.43	75.7	0.449	335.8	15.75	12.58
111	2008	56	2130	35.7	77.4	0.009	287.7	0.006	12.57
111	2008	56	2145	34.76	79.3	0.04	318.9	2.162	12.56
111	2008	56	2200	33.45	81.6	na	na	na	12.56
111	2008	56	2215	32.64	82.9	0.239	20.89	1.549	12.55
111	2008	56	2230	31.73	84.3	0.091	19.43	1.809	12.54
111	2008	56	2245	31.26	85.6	0.176	20.72	7.59	12.53
111	2008	56	2300	30.94	85.8	0.785	6.092	6.242	12.52
111	2008	56	2315	30.37	86.9	0.502	18.19	4.78	12.52
111	2008	56	2330	30.37	86.8	0.77	26.15	3.175	12.51
111	2008	56	2345	29.97	86.9	0.219	348.8	6.336	12.5
111	2008	56	2400	29.62	88	0.635	33.87	10.84	12.5
111	2008	57	15	30.17	87.2	0.716	16.91	6.265	12.49
111	2008	57	30	30.14	87.2	0.7	24.97	6.302	12.49

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	57	45	29.86	87.4	0.595	24.5	5.146	12.49
111	2008	57	100	29.76	87.8	0.779	26.62	7.21	12.48
111	2008	57	115	30.43	85.4	1.918	33.11	15.33	12.48
111	2008	57	130	30.61	84.5	1.546	32.1	10.28	12.48
111	2008	57	145	31.15	80.8	1.832	38.7	11.04	12.47
111	2008	57	200	30.91	80.9	2.263	27.44	7.68	12.47
111	2008	57	215	31.26	75.9	2.316	30.58	12.26	12.47
111	2008	57	230	31.69	75.1	1.588	35.43	10.93	12.47
111	2008	57	245	30.6	77.7	1.003	27.36	6.536	12.46
111	2008	57	300	29.68	81	0.835	23.33	6.432	12.47
111	2008	57	315	29.21	82.5	0.698	30.64	8.88	12.46
111	2008	57	330	29.35	82.5	1.087	38.27	13.4	12.46
111	2008	57	345	29.43	82.7	0.068	45.57	3.304	12.46
111	2008	57	400	29.83	80.9	0.569	116.2	41.91	12.45
111	2008	57	415	29.99	81.4	1.796	12.9	12.55	12.45
111	2008	57	430	30.55	79.6	1.263	356.8	15.03	12.45
111	2008	57	445	30.77	79.3	0.97	353.6	11.31	12.45
111	2008	57	500	31.42	77.1	2.218	15.15	6.89	12.45
111	2008	57	515	32.18	75.7	1.97	6.491	13.64	12.46
111	2008	57	530	32.11	76.5	0.883	5.745	8.12	12.44
111	2008	57	545	32.13	77.5	0.063	13.74	1.762	12.45
111	2008	57	600	31.94	79.6	0.388	28.95	5.045	12.45
111	2008	57	615	31.82	80.2	na	na	na	12.45
111	2008	57	630	31.79	80.7	na	na	na	12.45
111	2008	57	645	31.87	81.2	na	na	na	12.45
111	2008	57	700	32.14	80.9	na	na	na	12.45
111	2008	57	715	32.15	81.2	0.018	166.4	15.21	12.45
111	2008	57	730	33.07	79.2	0.428	73.5	15.34	12.45
111	2008	57	745	33.32	78.2	0.058	93.6	7.36	12.45
111	2008	57	800	33.11	79.3	0.259	219.8	16.28	12.45
111	2008	57	815	34.01	78.2	1.629	227	19.99	12.45
111	2008	57	830	34.69	78.7	0.654	239.1	17.04	12.45
111	2008	57	845	35.23	79.7	2.616	231.6	21.57	12.45
111	2008	57	900	35.91	80.8	2.13	226.4	27.96	12.56
111	2008	57	915	36.56	81.4	1.08	289.6	37.19	12.48
111	2008	57	930	36.91	82.1	1.485	219.2	18.36	12.47
111	2008	57	945	37.36	83.3	3.35	231.6	19.74	12.49
111	2008	57	1000	37.76	84.5	3.201	239.5	23.62	12.56
111	2008	57	1015	38.37	85.5	2.991	232.1	22.89	12.64
111	2008	57	1030	38.87	85.9	2.86	255.6	27.26	12.68
111	2008	57	1045	39.22	85.8	3.229	280.7	20.14	12.8
111	2008	57	1100	39.35	86.2	4.202	278	22.17	12.92
111	2008	57	1115	39.65	86	4.353	285.1	25.48	12.96
111	2008	57	1130	40.86	80.1	4.476	302.7	36.82	13.22
111	2008	57	1145	40.83	79.8	5.542	314.5	29.17	13.13
111	2008	57	1200	40.43	79.7	5.147	313.5	28.09	13.13
111	2008	57	1215	41.03	78.6	5.294	327.6	22.89	13.23
111	2008	57	1230	41.8	77.2	4.917	304.4	26.9	13.7
111	2008	57	1245	42.2	77.8	5.453	292.1	26.18	13.69
111	2008	57	1300	42.34	79.2	6.682	289.5	24.83	13.68
111	2008	57	1315	42.34	80	6.295	282.5	24.53	13.67
111	2008	57	1330	42.28	81.2	6.408	269.1	22.84	13.67
111	2008	57	1345	41.71	82.8	5.59	271.8	25.24	13.08
111	2008	57	1400	41.54	83.7	6.017	255.8	21.6	13.05
111	2008	57	1415	41.27	85	6.057	243.9	19.14	12.93
111	2008	57	1430	40.98	84.9	6.144	233.9	19.88	12.88
111	2008	57	1445	41.06	84.1	7.08	231.1	16.21	12.86
111	2008	57	1500	40.9	84.2	7.19	238.4	19.85	12.82
111	2008	57	1515	40.71	84.4	7.37	237.4	23.43	12.77
111	2008	57	1530	40.83	84.5	7.7	237.3	16.93	12.75

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	57	1545	40.76	85	7.53	230.6	19.43	12.71
111	2008	57	1600	41.18	85.3	6.015	225.2	21.97	12.69
111	2008	57	1615	41.57	86.1	6.501	227.5	21.02	12.68
111	2008	57	1630	41.75	86.5	5.888	228.9	21.59	12.67
111	2008	57	1645	41.91	87.3	6.821	227.6	17.43	12.65
111	2008	57	1700	42.16	88.3	7.88	229.2	15.9	12.65
111	2008	57	1715	41.93	90.3	7.1	219.3	22.58	12.64
111	2008	57	1730	41.72	91.5	7.03	222.2	20.29	12.63
111	2008	57	1745	41.75	91.9	7.7	219.6	20.66	12.63
111	2008	57	1800	41.99	91.3	7.85	232.8	17.54	12.61
111	2008	57	1815	42.28	90.8	8.33	228.3	16.65	12.61
111	2008	57	1830	42.18	90.9	6.168	219.7	25.69	12.6
111	2008	57	1845	42.15	91.1	5.606	218	20.98	12.59
111	2008	57	1900	42.18	92.1	6.358	239.1	21.08	12.59
111	2008	57	1915	42.52	92.3	7.69	243.6	22.93	12.57
111	2008	57	1930	42.77	92.8	7.72	249.6	24.03	12.57
111	2008	57	1945	43.03	93	7.64	251.6	22.8	12.56
111	2008	57	2000	43.31	93.5	8.5	248.1	24.53	12.55
111	2008	57	2015	43.27	94.1	7.81	253.6	27.84	12.55
111	2008	57	2030	43.67	94.7	6.652	259.7	23.28	12.55
111	2008	57	2045	44.86	95.6	7.07	289.6	24.43	12.55
111	2008	57	2100	46.54	94.7	7.08	285	26.49	12.54
111	2008	57	2115	45.72	95.2	4.452	296.2	32.33	12.53
111	2008	57	2130	46.63	95.5	5.786	329.6	31.81	12.53
111	2008	57	2145	46.92	95.1	7.58	335.8	23.97	12.52
111	2008	57	2200	46.52	95	6.68	343.8	29.68	12.53
111	2008	57	2215	45.93	94.9	7.26	0.118	24.67	12.52
111	2008	57	2230	45.46	95	7.06	4.873	26.88	12.52
111	2008	57	2245	45.32	95.2	6.599	4.33	14.16	12.51
111	2008	57	2300	45.19	95.2	7.21	9.18	21.18	12.51
111	2008	57	2315	44.87	95.3	6.446	356.8	21.29	12.51
111	2008	57	2330	44.23	95.4	6.72	0.562	21.66	12.51
111	2008	57	2345	43.82	95.7	5.908	6.887	13.79	12.5
111	2008	57	2400	43.83	95.8	5.201	3.043	21.6	12.51
111	2008	58	15	43.93	95.9	4.692	359.6	15.91	12.5
111	2008	58	30	43.95	96	5.064	5.753	22.68	12.5
111	2008	58	45	44.1	96	5.431	8.02	16.06	12.5
111	2008	58	100	44.24	96.1	6.17	5.022	14.95	12.49
111	2008	58	115	44.52	96	7.44	10.69	14.8	12.49
111	2008	58	130	44.59	95.7	6.374	9.73	14.76	12.49
111	2008	58	145	44.71	95.1	6.45	11.59	16.55	12.48
111	2008	58	200	44.79	94.2	5.673	17.68	14.75	12.49
111	2008	58	215	44.73	92.8	6.023	13.3	18.22	12.49
111	2008	58	230	44.57	91.3	6.902	14.7	16.04	12.48
111	2008	58	245	44.37	90.4	6.843	20.69	17.51	12.47
111	2008	58	300	44.1	89.7	7.64	19.24	13.6	12.48
111	2008	58	315	43.85	89.5	6.867	26.78	19.84	12.48
111	2008	58	330	43.6	88.9	6.076	30.78	18.72	12.47
111	2008	58	345	43.36	87.5	6.841	38.03	16.27	12.47
111	2008	58	400	43.2	86.6	6.867	34.54	17.22	12.47
111	2008	58	415	42.82	85.6	6.966	30.17	17.19	12.47
111	2008	58	430	42.51	83.6	7.02	40.57	18.18	12.47
111	2008	58	445	41.87	82.5	7.1	49.32	20.41	12.47
111	2008	58	500	41.11	81.6	7.25	36.83	17.18	12.46
111	2008	58	515	40.25	81	7.8	44.67	20.99	12.45
111	2008	58	530	39.82	81.5	6.315	52.5	19.56	12.45
111	2008	58	545	39.73	80.4	7.49	39.27	21.13	12.45
111	2008	58	600	39.38	80.5	5.941	42.37	19.82	12.45
111	2008	58	615	38.99	78.9	6.531	44.19	17.22	12.44
111	2008	58	630	38.65	78.6	5.977	48.08	18.86	12.44

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	58	645	38.54	77.2	5.596	34.33	19.18	12.43
111	2008	58	700	38.55	76.5	5.602	29	19.85	12.43
111	2008	58	715	38.34	76.2	5.411	32.91	17.66	12.43
111	2008	58	730	38.24	75.9	6.382	37.66	20.14	12.43
111	2008	58	745	38.24	74.9	6.585	30.83	18.85	12.42
111	2008	58	800	38.14	73.9	6.896	39.63	20.72	12.42
111	2008	58	815	38.09	73.2	6.98	36.19	22.2	12.42
111	2008	58	830	38.07	73.4	6.857	29.36	17.61	12.42
111	2008	58	845	38.01	72.8	6.581	35.14	20.92	12.42
111	2008	58	900	37.9	71.6	6.674	44.99	22.5	12.43
111	2008	58	915	37.91	70.4	6.352	41.95	20.81	12.44
111	2008	58	930	38.13	67.15	7.78	36.73	23.19	12.51
111	2008	58	945	38.08	67.28	7.7	43.21	25.96	12.61
111	2008	58	1000	38.09	67.35	6.104	46.65	20.18	12.61
111	2008	58	1015	38.36	67.55	6.366	45.97	24.07	12.68
111	2008	58	1030	38.28	65.71	7.39	42.93	24.44	12.68
111	2008	58	1045	37.58	63.46	8.07	60.38	20.57	12.67
111	2008	58	1100	37.53	61.25	6.791	41.89	20.56	12.71
111	2008	58	1115	37.54	60.78	7.51	50.73	19.52	12.99
111	2008	58	1130	37.33	58.44	7.5	53.11	24.82	13.13
111	2008	58	1145	37.53	58.17	5.753	59.44	27.95	13.17
111	2008	58	1200	37.54	58	6.849	60.49	25.42	13.72
111	2008	58	1215	38.22	56.33	7.51	56.64	30.52	13.69
111	2008	58	1230	38.47	56.06	6.747	80.1	23.37	13.69
111	2008	58	1245	38.53	55.76	7.3	75.5	30.29	13.68
111	2008	58	1300	38.5	55.12	6.787	68.93	22.86	13.68
111	2008	58	1315	38.52	53.95	7.63	71.4	23.37	13.67
111	2008	58	1330	37.3	57.19	7.84	70.1	20.02	13.68
111	2008	58	1345	37.02	55.82	7.15	63.42	21.58	13.7
111	2008	58	1400	36.56	56.39	7.83	59.19	21.74	13.24
111	2008	58	1415	36.19	57.57	8.27	63.39	22	13.25
111	2008	58	1430	35.99	57.8	7.18	57.36	19.43	13.15
111	2008	58	1445	35.93	56.97	6.37	79.9	26.16	13.15
111	2008	58	1500	35.29	56.76	8.63	70.1	20.42	13.28
111	2008	58	1515	35.42	56.6	7.37	69.42	22.31	13.31
111	2008	58	1530	35.55	56.3	7.59	61.89	22.03	13.33
111	2008	58	1545	35.37	55.19	7.25	55.41	22.8	13.16
111	2008	58	1600	35.55	55.19	7.2	69.86	20.74	13.32
111	2008	58	1615	35.58	54.42	7.89	66.58	29.02	13.72
111	2008	58	1630	35.32	56	7.92	52.94	23.7	13.44
111	2008	58	1645	34.89	56.33	7.87	44.05	20.33	13.08
111	2008	58	1700	34.5	55.8	9.41	53.6	21.63	12.99
111	2008	58	1715	34.44	56.27	8.16	46.94	24.22	12.97
111	2008	58	1730	34.46	57.64	7.13	50.25	19.61	12.83
111	2008	58	1745	34.27	57.21	7.16	58.08	24.04	12.74
111	2008	58	1800	34.16	57.28	7.59	48.95	22.39	12.71
111	2008	58	1815	33.84	56.88	7.66	58.65	24.2	12.68
111	2008	58	1830	33.46	57.75	7.58	67.6	18.34	12.67
111	2008	58	1845	33	57.59	7.96	55.04	20.56	12.65
111	2008	58	1900	32.7	55.78	8.33	51.98	21.29	12.63
111	2008	58	1915	32.54	54.97	8.56	55.72	22.31	12.62
111	2008	58	1930	32.22	53.94	10	53.72	22.01	12.61
111	2008	58	1945	31.9	54	9.23	52.06	20.79	12.59
111	2008	58	2000	31.5	52.5	10.68	55.69	20.9	12.59
111	2008	58	2015	30.99	53.77	9.55	64.36	22.34	12.58
111	2008	58	2030	30.81	54.37	7.93	68.33	20.11	12.57
111	2008	58	2045	30.57	55.62	7.23	71.2	22.1	12.57
111	2008	58	2100	30.35	56.52	6.501	66.73	22.56	12.56
111	2008	58	2115	29.87	58.8	7.79	68.09	20.02	12.54
111	2008	58	2130	29.48	59.64	9.1	69.03	22.56	12.54

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	58	2145	28.86	58.94	10.34	57.1	20.83	12.54
111	2008	58	2200	28.26	59.35	8.8	55.11	22.37	12.53
111	2008	58	2215	27.62	60.22	9.43	56.02	20.03	12.52
111	2008	58	2230	26.83	62.43	9.53	52.44	23.01	12.52
111	2008	58	2245	26.21	62.27	7.56	55.66	26.1	12.51
111	2008	58	2300	25.6	62.27	8.42	58.46	23.02	12.5
111	2008	58	2315	25.03	61.86	8.35	66.14	23.61	12.5
111	2008	58	2330	24.27	63.51	9.9	57.77	24.86	12.48
111	2008	58	2345	23.54	64.52	8.77	61.75	20.54	12.47
111	2008	58	2400	22.85	67.01	9.15	61.32	17.16	12.46
111	2008	59	15	22.32	67.14	9.05	55.57	21.85	12.45
111	2008	59	30	22.17	67.55	6.203	49.28	17.54	12.44
111	2008	59	45	21.79	67.18	8.45	55.79	22.41	12.44
111	2008	59	100	21.21	66.61	8.67	50.04	21.21	12.43
111	2008	59	115	20.98	66.38	7.54	52.9	21.2	12.42
111	2008	59	130	20.6	67.35	8.79	46.26	18.89	12.41
111	2008	59	145	20.32	66.38	8.19	45.74	21.17	12.4
111	2008	59	200	20.14	65.48	8.41	48.68	20.69	12.4
111	2008	59	215	20.04	65.75	6.194	53.48	21.82	12.39
111	2008	59	230	19.86	60.89	9.25	50.4	20.58	12.39
111	2008	59	245	19.78	60.29	7.24	52.12	26.34	12.37
111	2008	59	300	19.55	60.52	7.42	55.7	18.29	12.37
111	2008	59	315	19.34	60.59	6.763	43.46	19.31	12.36
111	2008	59	330	19.04	59.62	8.04	54.08	18.8	12.35
111	2008	59	345	18.74	59.22	7.99	53.41	15.19	12.35
111	2008	59	400	18.54	59.76	6.869	60.45	20.28	12.34
111	2008	59	415	18.45	59.66	6.164	60.31	20.77	12.33
111	2008	59	430	18.38	59.42	6.344	51.29	23.57	12.33
111	2008	59	445	18.36	58.85	6.126	50.33	19.33	12.32
111	2008	59	500	18.31	57.88	7.07	51.98	21.27	12.31
111	2008	59	515	18.25	57.08	7.04	53.79	24.25	12.31
111	2008	59	530	18.21	57.14	7.05	53.65	19.68	12.31
111	2008	59	545	18.16	57.11	6.742	51.95	21.09	12.31
111	2008	59	600	18.08	57.21	8.06	54.08	19.41	12.29
111	2008	59	615	18.04	56.98	7.1	52.89	22.53	12.3
111	2008	59	630	18.05	57.01	6.414	54.25	25.88	12.29
111	2008	59	645	18.09	56.54	7.22	57.07	25.75	12.29
111	2008	59	700	18.3	55.53	7.32	55.19	19.41	12.29
111	2008	59	715	18.3	55.6	6.799	54.05	22.93	12.28
111	2008	59	730	18.47	54.73	6.174	50.41	19.89	12.28
111	2008	59	745	18.08	55.4	6.626	47.82	18.33	12.28
111	2008	59	800	18.11	54.06	6.259	56.04	19.74	12.31
111	2008	59	815	18.45	53.15	7.28	57.59	17.68	14.08
111	2008	59	830	18.67	52.48	7.8	44.13	20.6	13.09
111	2008	59	845	19.03	51.47	7.12	57.21	18.84	14.05
111	2008	59	900	19.2	50.1	8.55	62.47	24.7	14.03
111	2008	59	915	19.46	49.86	7.82	65.53	26.05	14.03
111	2008	59	930	19.67	49.01	7.67	68.83	23.1	14.02
111	2008	59	945	19.99	48.07	8.33	41.01	22.34	14.01
111	2008	59	1000	20.25	47.64	7.19	56.66	27.39	14
111	2008	59	1015	20.42	47.77	8.07	64.89	28.52	14
111	2008	59	1030	20.77	44.08	7.54	73.8	26.38	14
111	2008	59	1045	20.97	45.36	7.53	77.9	26.5	14
111	2008	59	1100	21.22	45.62	8.44	56.33	32.47	13.98
111	2008	59	1115	21.85	44.78	6.017	64.36	30.42	13.28
111	2008	59	1130	21.95	43.64	7.96	51.6	26.45	13.97
111	2008	59	1145	22.19	44.31	7.7	57.7	24.29	13.96
111	2008	59	1200	22.89	43.9	6.553	51.89	24.48	13.95
111	2008	59	1215	22.85	42.33	9.68	39.2	23.37	13.93
111	2008	59	1230	22.7	42.83	8.36	36.85	25.15	13.93

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	59	1245	23.6	40.05	8.1	67.64	34.19	13.93
111	2008	59	1300	23.5	39.24	8.62	61.47	26.69	13.92
111	2008	59	1315	23.25	41.89	8.6	49.19	21.7	13.92
111	2008	59	1330	24.09	38.3	7.12	59.99	29.88	13.91
111	2008	59	1345	24.46	40.45	6.188	72.8	29.03	13.91
111	2008	59	1400	24.97	38.7	7.92	54.07	26.01	13.9
111	2008	59	1415	24.58	36.83	8.78	53.97	23.5	13.9
111	2008	59	1430	24.85	36.02	9.14	50.33	24.59	13.89
111	2008	59	1445	25.2	37.03	7.53	60.67	36.54	13.89
111	2008	59	1500	25.72	35.65	8.35	55.23	21.56	13.89
111	2008	59	1515	25.52	38.1	8.49	49.61	24.63	13.89
111	2008	59	1530	25.72	35.08	9.3	44.32	31.58	13.89
111	2008	59	1545	26.21	34.01	7.62	54.55	28.82	13.89
111	2008	59	1600	26.79	32.5	8.92	45.79	26.7	13.88
111	2008	59	1615	26.31	31.66	9.36	63.47	25.39	13.89
111	2008	59	1630	26.46	31.19	9.08	65.52	26.37	13.09
111	2008	59	1645	26.46	32.36	8.92	50.83	23.47	12.88
111	2008	59	1700	26.22	31.59	9.51	67.3	24.53	12.8
111	2008	59	1715	26.32	31.96	8.62	72.2	23.6	12.76
111	2008	59	1730	26.31	31.73	9.29	71.2	23.91	12.72
111	2008	59	1745	25.93	32.83	9.02	66.12	24.84	12.7
111	2008	59	1800	25.95	34.11	7.13	66.76	24.12	12.67
111	2008	59	1815	25.11	35.12	9.19	69.31	18.46	12.66
111	2008	59	1830	24.78	36.33	8.14	60.87	19.72	12.64
111	2008	59	1845	24.09	37.23	8.58	69.14	23.07	12.63
111	2008	59	1900	23.74	38.54	8.62	62.97	22.27	12.61
111	2008	59	1915	23.44	37.71	6.938	59.91	23.47	12.59
111	2008	59	1930	22.9	36.8	9.56	64.27	22.01	12.58
111	2008	59	1945	22.41	37.51	8.46	60.65	21.15	12.56
111	2008	59	2000	22.05	37.95	8.72	64.04	22.11	12.56
111	2008	59	2015	21.75	38.79	7.82	54.33	17.76	12.54
111	2008	59	2030	21.52	38.62	8.4	57.26	24.94	12.53
111	2008	59	2045	21.41	38.85	7.84	66.32	24.8	12.52
111	2008	59	2100	21.28	40.03	7.75	66.04	22.66	12.51
111	2008	59	2115	21.13	41.13	7.41	74.8	20.86	12.5
111	2008	59	2130	21.06	40.9	7.03	72.1	20.62	12.5
111	2008	59	2145	20.97	43.18	4.393	73.2	18.47	12.49
111	2008	59	2200	20.73	43.59	5.227	82.3	22.55	12.48
111	2008	59	2215	20.55	43.86	4.504	80	23.32	12.47
111	2008	59	2230	20.34	44.19	5.254	80.4	22	12.47
111	2008	59	2245	20.14	44.13	5.298	79.4	26.7	12.46
111	2008	59	2300	19.91	44.76	4.978	75.5	24.29	12.45
111	2008	59	2315	19.74	44.6	5.85	71.4	19.63	12.45
111	2008	59	2330	19.59	45.27	4.716	73.6	21.27	12.44
111	2008	59	2345	19.41	45.74	4.125	73.7	27.6	12.43
111	2008	59	2400	19.34	45	5.749	79.2	19.82	12.42
111	2008	60	15	19.22	45.94	5.082	83.4	24.92	12.41
111	2008	60	30	19	46.95	4.252	77.3	27.11	12.41
111	2008	60	45	18.84	47.62	3.819	85.8	26.14	12.4
111	2008	60	100	18.66	48.79	3.44	72.3	21.07	12.4
111	2008	60	115	18.44	49.56	4.208	75.6	17.82	12.38
111	2008	60	130	18.38	49.5	3.604	62.58	21.31	12.37
111	2008	60	145	18.25	51.17	2.947	49.18	17.18	12.37
111	2008	60	200	18.08	52.88	2.034	36.2	17.37	12.36
111	2008	60	215	17.84	54.33	2.711	44.8	19.19	12.35
111	2008	60	230	17.58	55.43	1.789	47.56	19.2	12.34
111	2008	60	245	17.36	55.04	2.391	43.04	23.77	12.33
111	2008	60	300	17.2	55.81	2.002	61.72	21.16	12.32
111	2008	60	315	17.06	56.55	2.141	48.73	15.89	12.31
111	2008	60	330	16.98	54.13	3.376	47.91	21.55	12.31

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	60	345	17.18	50.71	4.581	61.9	24.66	12.29
111	2008	60	400	17.24	51.79	3.787	55.41	20.25	12.29
111	2008	60	415	16.98	52.59	4.238	49.12	20.79	12.29
111	2008	60	430	16.83	52.62	4.005	38.01	17.94	12.29
111	2008	60	445	16.6	53.53	2.544	60.16	25.3	12.28
111	2008	60	500	16.43	53.9	2.822	59.94	19.43	12.27
111	2008	60	515	16.18	54.67	2.324	65.24	20.48	12.27
111	2008	60	530	15.96	56.12	1.395	66.64	25.37	12.26
111	2008	60	545	15.77	57.09	1.882	49.23	19.19	12.26
111	2008	60	600	15.61	58.03	1.153	37.92	11.74	12.26
111	2008	60	615	15.37	59.78	1.062	34.39	11.19	12.25
111	2008	60	630	14.73	62.16	0.084	11.31	3.276	12.24
111	2008	60	645	14.66	63.3	0.891	39.02	23.57	12.24
111	2008	60	700	14.73	65.08	0.761	317.9	15.57	12.24
111	2008	60	715	14.03	67.23	1.052	225.6	40.94	12.23
111	2008	60	730	14.56	65.95	0.834	185.9	45.06	12.23
111	2008	60	745	15.34	63.84	0.893	108.5	26.82	12.23
111	2008	60	800	15.53	64.81	0.631	101.7	23.63	12.24
111	2008	60	815	16.83	59.88	1.544	153.9	25.85	13.69
111	2008	60	830	17.87	56.73	1.805	153.5	34.41	13.15
111	2008	60	845	18.49	52.93	2.522	153.2	33.58	14.11
111	2008	60	900	19.03	51.82	3.203	159.6	37.56	14.09
111	2008	60	915	19.41	50.27	2.566	147.9	33.31	14.07
111	2008	60	930	19.69	49.96	3.158	104.1	75.3	14.05
111	2008	60	945	20.64	49.15	2.773	218.6	48.25	14.04
111	2008	60	1000	20.53	46.97	3.072	159.6	52.79	14.02
111	2008	60	1015	21.09	46.93	2.945	145.7	38.23	14.02
111	2008	60	1030	21.37	44.75	2.812	170.9	63.73	14.02
111	2008	60	1045	21.37	44.51	2.303	168.9	93.7	14
111	2008	60	1100	22.32	46.38	2.779	259.4	96.1	13.99
111	2008	60	1115	22.03	46.82	4.166	278.9	32.8	13.2
111	2008	60	1130	22.77	45.28	3.855	275.2	40.73	13.96
111	2008	60	1145	23.22	45.11	4.063	235.5	33.23	13.94
111	2008	60	1200	23.4	45.48	4.621	249.6	32.61	13.94
111	2008	60	1215	23.2	44.24	4.827	268.1	32.96	13.93
111	2008	60	1230	23.45	45.21	4.105	260.5	31.45	13.92
111	2008	60	1245	23.59	45.27	5.449	299.1	21.85	13.92
111	2008	60	1300	23.9	47.08	6.273	280.4	29.17	13.91
111	2008	60	1315	24.1	47.12	6.076	276.3	31.29	13.91
111	2008	60	1330	24.18	48.42	5.9	267.1	26.49	13.9
111	2008	60	1345	24.28	47.25	6.126	279.8	32.97	13.89
111	2008	60	1400	24.7	46.54	5.544	270.5	33.43	13.89
111	2008	60	1415	25.1	45.51	5.397	262.8	28.33	13.89
111	2008	60	1430	24.97	44.57	5.522	251.2	25.42	13.86
111	2008	60	1445	25.57	43.66	6.055	259.1	22.67	13.86
111	2008	60	1500	25.69	46.67	6.612	263.9	25.35	13.86
111	2008	60	1515	25.47	46.7	6.273	302.6	32.38	13.86
111	2008	60	1530	25.55	49.32	6.464	271.5	21.24	13.85
111	2008	60	1545	26.12	46.87	5.503	270.7	27.93	13.85
111	2008	60	1600	25.78	51.32	6.158	268.5	28.04	13.85
111	2008	60	1615	26.09	49.78	5.721	275.3	33.29	13.86
111	2008	60	1630	25.95	52.29	6.479	267.2	24.08	13.73
111	2008	60	1645	26.19	53.23	6.108	258.5	24.25	13.12
111	2008	60	1700	26.34	54.1	6.283	269.1	22.77	13.06
111	2008	60	1715	26.32	57.02	5.719	266.3	25.74	12.94
111	2008	60	1730	25.9	58.06	5.739	266.6	25.81	12.96
111	2008	60	1745	26.75	58.2	5.636	266.3	22.66	12.88
111	2008	60	1800	26.84	61.32	5.576	278	23.13	12.78
111	2008	60	1815	26.4	62.89	6.088	272.9	23.61	12.72
111	2008	60	1830	26.58	65.28	5.973	267.2	24.96	12.68

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	60	1845	26.72	67.16	5.957	256.4	24.35	12.67
111	2008	60	1900	27.34	68.43	5.425	264.2	27.2	12.65
111	2008	60	1915	27.76	69.97	5.014	263.8	27.56	12.63
111	2008	60	1930	28.52	70.2	6.074	261.3	25.6	12.62
111	2008	60	1945	29.05	69.87	5.933	264.9	25.97	12.62
111	2008	60	2000	29.83	69.81	6.575	269.6	23.63	12.6
111	2008	60	2015	30.56	69.27	6.035	266.4	27.07	12.6
111	2008	60	2030	30.97	71.8	6.043	262.8	29.87	12.59
111	2008	60	2045	31.51	70.7	6.728	269.2	25.13	12.58
111	2008	60	2100	32.19	73	6.612	270.2	23.88	12.58
111	2008	60	2115	32.49	69.62	6.694	276	22.84	12.58
111	2008	60	2130	33.09	66.97	6.13	277.4	26.78	12.57
111	2008	60	2145	33.55	60.91	6.09	284.5	25.53	12.58
111	2008	60	2200	33.81	68.88	5.902	270.4	23.15	12.57
111	2008	60	2215	33.94	71.7	6.098	268.5	24.68	12.57
111	2008	60	2230	34.02	71.5	6.342	270.3	23.87	12.57
111	2008	60	2245	34.29	65.56	5.715	280.9	22.78	12.56
111	2008	60	2300	34.79	63.52	6.174	284.7	24.26	12.55
111	2008	60	2315	35.12	64.86	6.605	281.5	26.46	12.56
111	2008	60	2330	35.37	69.45	7.95	277.6	22.56	12.55
111	2008	60	2345	34.67	78.7	7.6	288.4	25.51	12.55
111	2008	60	2400	34.13	82.1	6.869	281.5	32.78	12.55
111	2008	61	15	34.05	85.8	7.39	275.3	23.07	12.54
111	2008	61	30	33.97	88	7.33	281.1	28.19	12.53
111	2008	61	45	34.19	89.2	7.07	275.8	23.18	12.53
111	2008	61	100	34.63	90.1	7.79	286.1	24.53	12.52
111	2008	61	115	35.1	90.7	6.738	285.5	24.57	12.52
111	2008	61	130	35.63	89.7	8.86	313.6	26.48	12.52
111	2008	61	145	34.86	90.5	9.49	328.1	25.13	12.51
111	2008	61	200	34.63	90.9	7.05	320.4	26.28	12.5
111	2008	61	215	34.54	91.3	6.632	310.8	28.39	12.5
111	2008	61	230	34.45	91.7	7.34	304.1	24.94	12.49
111	2008	61	245	34.64	91.6	7	306.1	26.01	12.49
111	2008	61	300	34.66	92.4	7.39	300.1	26.35	12.48
111	2008	61	315	35.19	92	8.34	304	30.4	12.47
111	2008	61	330	35.28	92.2	8.65	302.2	29.07	12.47
111	2008	61	345	35.72	91.8	9.46	305.6	26.19	12.46
111	2008	61	400	36.15	92.1	8.21	307.5	29.62	12.45
111	2008	61	415	36.78	92.2	7.15	311	27.53	12.45
111	2008	61	430	37.2	92.3	6.91	309.8	30.01	12.45
111	2008	61	445	37.42	92.3	7.32	313	21.79	12.44
111	2008	61	500	37.49	92.4	5.592	311.1	27.76	12.43
111	2008	61	515	37.59	92.5	6.025	298.5	27.43	12.43
111	2008	61	530	37.94	92.1	6.092	313.3	27.3	12.43
111	2008	61	545	38.38	91.3	6.241	314.3	26.53	12.42
111	2008	61	600	38.71	90.9	4.949	315	25.08	12.42
111	2008	61	615	38.83	90.7	3.008	320.4	20.92	12.41
111	2008	61	630	38.96	90.2	2.673	327.2	27.43	12.41
111	2008	61	645	39.45	88.7	4.677	338	29.65	12.41
111	2008	61	700	39.91	87.6	4.914	349.6	23.06	12.4
111	2008	61	715	40.13	85.8	5.497	350.3	24.69	12.39
111	2008	61	730	40.31	84.7	6.215	355	21.68	12.4
111	2008	61	745	40.38	83.6	5.874	349.7	19.42	12.39
111	2008	61	800	40.22	84.2	6.912	348.6	23.07	12.39
111	2008	61	815	39.89	85.4	6.454	352	20.62	12.39
111	2008	61	830	39.64	85.9	6.877	2.312	17.4	12.39
111	2008	61	845	39.58	85.2	7.61	8.94	13.75	12.39
111	2008	61	900	39.49	84.3	7.15	13.71	20.59	12.39
111	2008	61	915	39.53	82.7	8.27	12.06	13.22	12.43
111	2008	61	930	39.12	83.8	10.34	17.8	17.57	12.4

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	61	945	38.3	84.9	7.45	30.66	19.08	12.39
111	2008	61	1000	38.13	85.8	2.975	34.49	18.78	12.44
111	2008	61	1015	38.41	85.6	4.609	23.69	15.94	12.56
111	2008	61	1030	39.58	82.4	7.05	14.88	18.41	13.21
111	2008	61	1045	40.38	79.9	7.9	22.26	12.8	12.95
111	2008	61	1100	40.35	78.9	8.33	22.51	19.46	12.93
111	2008	61	1115	41.14	73.7	8.41	20.07	19.36	13.66
111	2008	61	1130	41.85	68.68	7.36	22.6	17.52	13.63
111	2008	61	1145	42.75	60.44	9.91	6.407	18.89	13.61
111	2008	61	1200	42.72	56.18	12.39	23.8	18.21	13.12
111	2008	61	1215	41.7	54.81	11.16	26.55	16.03	13.12
111	2008	61	1230	42.41	54.27	11.39	35.84	20.96	13.61
111	2008	61	1245	42.75	52.13	10.9	37.41	19	13.61
111	2008	61	1300	42.13	53.7	10.07	41.85	21.5	13.44
111	2008	61	1315	41.62	55.91	10.57	37.95	18.81	13.63
111	2008	61	1330	41.63	45.06	10.58	50.25	22.45	13.32
111	2008	61	1345	41.63	49.28	10.84	43.6	20.88	13.32
111	2008	61	1400	40.97	50.45	10.67	28.35	17.11	13.63
111	2008	61	1415	41.68	47.21	9	26.48	18.56	13.63
111	2008	61	1430	42.61	41.88	12.05	41.48	21.12	13.62
111	2008	61	1445	42.86	42.72	10.69	49.42	22.09	13.62
111	2008	61	1500	42.56	49.15	11.51	31.16	20.83	12.95
111	2008	61	1515	40.75	49.08	11.36	26.27	16.93	13.4
111	2008	61	1530	42.36	42.12	10.63	35.3	18.22	13.18
111	2008	61	1545	42.68	42.12	10.31	41.23	20.99	13.07
111	2008	61	1600	42.6	43.29	11.07	35.61	20.22	13.62
111	2008	61	1615	43.04	42.82	9.38	49.26	24.77	13.19
111	2008	61	1630	41.75	44.12	8.71	45.05	18.87	12.89
111	2008	61	1645	41.53	43.72	8.88	49.55	20.28	12.79
111	2008	61	1700	40.87	59.06	10.22	50.86	21.77	12.76
111	2008	61	1715	37.27	68.14	12.63	54.29	24.49	12.75
111	2008	61	1730	37.4	56.86	8.17	59.65	20.19	12.82
111	2008	61	1745	38.78	54.22	8.75	37.95	20.3	12.72
111	2008	61	1800	39.12	52.88	8.91	36.58	18.08	12.67
111	2008	61	1815	39.26	53.65	8.59	33.2	14.85	12.65
111	2008	61	1830	39.1	50.9	9.95	31.31	17.87	12.64
111	2008	61	1845	38.92	50.07	8.63	34.65	16.29	12.63
111	2008	61	1900	38.89	49.3	9.11	30.57	19.22	12.61
111	2008	61	1915	38.72	49.4	9.22	32.22	18.86	12.61
111	2008	61	1930	38.27	52.18	8.53	35.17	16.58	12.6
111	2008	61	1945	37.66	54.56	7.84	39.82	18.04	12.6
111	2008	61	2000	37.31	55.06	7.68	35.93	19.52	12.58
111	2008	61	2015	36.91	54.63	6.364	41.92	20.96	12.56
111	2008	61	2030	36.67	51.38	6.051	47.48	17.45	12.56
111	2008	61	2045	36.52	40.97	6.499	50.74	20.99	12.55
111	2008	61	2100	36.48	38.66	9.49	50.65	18.54	12.55
111	2008	61	2115	36.11	39.73	7.88	46.65	19.8	12.55
111	2008	61	2130	35.83	39.5	8.88	56.52	24.14	12.55
111	2008	61	2145	35.5	39.53	8.75	53.56	26.11	12.53
111	2008	61	2200	35.08	40.8	7.71	52.96	20.72	12.53
111	2008	61	2215	34.76	41.57	9.64	57.18	21.16	12.52
111	2008	61	2230	34.43	42.41	9.25	50.32	17.58	12.51
111	2008	61	2245	34.15	41.88	8.88	53.49	23.64	12.51
111	2008	61	2300	33.95	41.88	10.72	66.86	21.88	12.51
111	2008	61	2315	33.6	42.78	9.54	68.69	21.69	12.5
111	2008	61	2330	33.3	42.98	8.94	57.15	25.03	12.5
111	2008	61	2345	33.05	44.66	7.79	54.72	20.11	12.49
111	2008	61	2400	32.84	46.26	7.94	43.38	19.55	12.49
111	2008	62	15	32.51	47.24	7.25	47.49	20.73	12.48
111	2008	62	30	32.35	47.91	9.26	44.13	17.15	12.47

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	62	45	32.18	47.84	9.29	51.02	22.24	12.47
111	2008	62	100	32.01	48.45	8.86	53.09	23.98	12.47
111	2008	62	115	31.71	49.15	7.03	44.94	19.44	12.46
111	2008	62	130	31.55	50.26	7.18	47.46	19.34	12.46
111	2008	62	145	31.34	50.93	6.636	50.65	21.03	12.46
111	2008	62	200	31.24	50.73	7.78	56.05	19.41	12.44
111	2008	62	215	31.08	51.5	6.922	56.59	21.12	12.44
111	2008	62	230	30.9	51.67	7.68	50.85	19.9	12.44
111	2008	62	245	30.81	51.84	7.53	53.3	20.15	12.43
111	2008	62	300	30.78	51.64	8.89	53.02	17.32	12.42
111	2008	62	315	30.65	51.23	9.01	48.53	20.54	12.42
111	2008	62	330	30.51	51.54	8.44	54.98	19.48	12.41
111	2008	62	345	30.35	51.07	9.51	50.06	18.11	12.41
111	2008	62	400	30.17	51.24	9.11	50.65	20.29	12.39
111	2008	62	415	29.96	51.77	8.5	56.2	17.13	12.4
111	2008	62	430	29.8	51.37	10.57	56.42	20.31	12.39
111	2008	62	445	29.61	51.88	8.67	50.9	19.81	12.39
111	2008	62	500	29.39	52.11	8.53	49.88	18.23	12.38
111	2008	62	515	29.18	52.04	8.19	49.02	20.27	12.37
111	2008	62	530	28.96	51.61	8.43	51.61	17.34	12.36
111	2008	62	545	28.79	52.11	7.63	51.25	19.98	12.36
111	2008	62	600	28.59	52.98	6.761	47.94	20.21	12.36
111	2008	62	615	28.42	52.45	7.19	48.78	17.95	12.34
111	2008	62	630	28.36	53.25	6.142	52.96	24.04	12.34
111	2008	62	645	28.14	53.45	5.594	52.69	21.24	12.34
111	2008	62	700	28.01	53.62	6.914	51.51	18.84	12.33
111	2008	62	715	27.9	54.26	5.792	55.67	22.88	12.31
111	2008	62	730	27.79	54.26	6.007	53.14	20.87	12.31
111	2008	62	745	27.68	54.05	6.571	46.81	17.35	12.31
111	2008	62	800	27.8	53.29	7.53	52.34	20.04	12.45
111	2008	62	815	28.06	53.22	9.11	58.41	20.27	13.87
111	2008	62	830	28.3	53.05	7.59	55.35	20.2	13.04
111	2008	62	845	28.6	52.11	8.02	54.83	23.76	13.85
111	2008	62	900	29.05	51.64	8.94	65.91	19.63	13.84
111	2008	62	915	29.41	50.73	8	59.12	24.1	13.84
111	2008	62	930	30.09	48.79	6.196	66.9	26.5	13.83
111	2008	62	945	30.18	47.61	8.72	76.7	23.73	13.82
111	2008	62	1000	30.56	46.37	8.42	75.1	25.6	13.82
111	2008	62	1015	30.87	45.46	9.01	72.7	23.98	13.82
111	2008	62	1030	31.18	44.46	8.89	71.7	22.62	13.82
111	2008	62	1045	31.58	44.25	8.76	75.5	23.63	13.81
111	2008	62	1100	31.96	43.75	8.47	70.6	24.91	13.8
111	2008	62	1115	32.64	41.84	7.4	73.3	28.36	13.09
111	2008	62	1130	33.24	41.61	7.53	73.3	27.74	13.79
111	2008	62	1145	34.03	38.52	7.05	71.5	31.12	13.76
111	2008	62	1200	33.74	39.63	8.34	56.01	26.8	13.75
111	2008	62	1215	34.59	38.11	6.587	55.49	29.67	13.74
111	2008	62	1230	34.98	35.06	8.02	60.53	25.2	13.74
111	2008	62	1245	35.65	34.83	7.82	79.5	31.65	13.71
111	2008	62	1300	36	33.12	7.69	58.5	24.04	13.71
111	2008	62	1315	36.28	33.86	6.809	83.2	34.05	13.69
111	2008	62	1330	36.67	32.79	7.19	66.47	25.75	13.69
111	2008	62	1345	36.95	37.94	8.48	49.83	25.05	13.68
111	2008	62	1400	37.04	31.78	8.14	52.74	26.25	13.68
111	2008	62	1415	37.65	30.27	8.21	60.83	30.68	13.67
111	2008	62	1430	38.58	30.71	6.319	73	34.25	13.67
111	2008	62	1445	38.56	29.97	8.12	77	31.02	13.67
111	2008	62	1500	39.45	29.4	7.23	79.4	27.35	13.66
111	2008	62	1515	39.81	29.57	6.958	91.3	31.41	13.65
111	2008	62	1530	40.13	29.3	8.23	83.9	27.52	13.64

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	62	1545	40.26	28.39	7.65	82.6	27.6	13.64
111	2008	62	1600	40.36	27.45	7.79	69.88	24.06	13.64
111	2008	62	1615	40.73	27.69	6.948	75.4	31.25	13.64
111	2008	62	1630	40.53	29.13	7.2	63.65	28.3	13.29
111	2008	62	1645	40.59	27.95	7.81	62.03	26.59	13.22
111	2008	62	1700	40.71	27.15	5.59	85.7	25.87	13.32
111	2008	62	1715	41.16	27.69	6.831	57.63	22.77	13.02
111	2008	62	1730	41.15	28.96	6.793	59.43	29.36	12.88
111	2008	62	1745	41.17	28.16	6.622	59.87	26.37	12.81
111	2008	62	1800	40.95	28.32	6.926	65.78	20.44	12.75
111	2008	62	1815	40.63	27.85	5.963	68.98	26.04	12.72
111	2008	62	1830	39.95	29.49	6.559	59.61	20.97	12.7
111	2008	62	1845	39.28	30.74	5.109	62.4	21.26	12.68
111	2008	62	1900	38.82	31.24	3.718	72.2	22.43	12.67
111	2008	62	1915	38.34	31.71	2.314	76.2	24.88	12.65
111	2008	62	1930	37.8	33.42	1.638	74.5	18.71	12.63
111	2008	62	1945	37.03	38.32	1.552	40.3	16.87	12.62
111	2008	62	2000	35.71	43.88	1.828	28.71	12.06	12.61
111	2008	62	2015	35.15	39.63	2.451	47.69	9.32	12.59
111	2008	62	2030	35.46	39.13	2.967	42.09	13.01	12.57
111	2008	62	2045	35.79	36.65	3.1	51.89	19	12.57
111	2008	62	2100	35.93	38.43	2.808	75.9	35.29	12.56
111	2008	62	2115	35.19	40.5	1.599	357.1	32.85	12.55
111	2008	62	2130	34.57	41.54	1.229	93	48.76	12.55
111	2008	62	2145	33.08	51.7	1.661	325	43.12	12.53
111	2008	62	2200	31.71	53.07	0.931	36.22	13.97	12.52
111	2008	62	2215	31.82	48.32	2.864	57.35	19.66	12.52
111	2008	62	2230	32.85	45.24	0.971	79.4	32.87	12.51
111	2008	62	2245	32.11	51.24	1.382	223.5	55.3	12.5
111	2008	62	2300	30.78	59.35	1.13	25.81	12.53	12.49
111	2008	62	2315	29.49	58.58	2.935	2.832	11.54	12.48
111	2008	62	2330	29.99	57.61	2.465	29.32	18.37	12.48
111	2008	62	2345	29.67	58.38	0.344	21.25	17.58	12.47
111	2008	62	2400	29.37	62.03	0.543	37.89	4.755	12.46
111	2008	63	15	28.73	62.23	0.674	17.26	32.07	12.46
111	2008	63	30	29.23	60.63	1.255	91.2	15.52	12.45
111	2008	63	45	28.56	66.16	1.815	19.03	12.74	12.45
111	2008	63	100	28.16	66.63	0.452	120.7	26.18	12.44
111	2008	63	115	28.18	66.26	0.36	156.3	17.13	12.44
111	2008	63	130	28.05	67.31	0.19	161.6	5.229	12.44
111	2008	63	145	27.87	67.94	1.097	137.9	13.53	12.43
111	2008	63	200	27.71	68.24	0.269	165.1	44.9	12.43
111	2008	63	215	27.73	68.01	na	na	na	12.42
111	2008	63	230	27.2	70.3	0.677	341.1	16.86	12.42
111	2008	63	245	26.62	72.4	0.02	325.6	1.715	12.41
111	2008	63	300	26.8	72.8	0.356	134	20.02	12.4
111	2008	63	315	26.92	72.8	0.176	120	3.66	12.4
111	2008	63	330	26.32	74.5	na	na	na	12.39
111	2008	63	345	26.03	76.7	na	na	na	12.39
111	2008	63	400	26.21	76.5	0.233	104.9	13.89	12.38
111	2008	63	415	26.14	76.5	0.056	90	0.406	12.37
111	2008	63	430	25.75	77.2	na	na	na	12.36
111	2008	63	445	25.38	78.6	0.211	138.2	13.06	12.36
111	2008	63	500	25.76	79.1	0.354	192.4	10.7	12.36
111	2008	63	515	25.77	79.4	0.067	128.7	10.5	12.35
111	2008	63	530	25.73	79.9	0.018	104.7	1.065	12.34
111	2008	63	545	25.67	80.4	0.029	121.9	1.454	12.34
111	2008	63	600	25.64	81.1	na	na	na	12.34
111	2008	63	615	25.71	81.3	0.165	86.2	3.301	12.33
111	2008	63	630	25.79	81.3	0.141	135.7	7.99	12.32

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	63	645	25.66	82.1	0.045	127.3	1.815	12.32
111	2008	63	700	25.88	82.1	0.103	90.6	12.73	12.32
111	2008	63	715	26.32	81	0.054	96.4	0.902	12.31
111	2008	63	730	26.07	81.3	0.047	351.4	3.843	12.3
111	2008	63	745	26.29	82.4	0.097	60.3	4.557	12.31
111	2008	63	800	27.79	82.1	0.085	84.9	5.532	12.5
111	2008	63	815	30.64	80	0.027	107.3	2.079	13.94
111	2008	63	830	34.46	75.7	1.299	305.6	22.04	13.27
111	2008	63	845	37.4	72.5	3.837	314	20.37	13.86
111	2008	63	900	39.35	71.2	5.032	319.9	23.34	13.81
111	2008	63	915	40.06	70	5.231	327	30.84	13.79
111	2008	63	930	40.68	69.27	5.8	309.3	25.1	13.76
111	2008	63	945	41.19	66.75	6.039	318.6	28.24	13.75
111	2008	63	1000	41.55	64.27	7.28	328.6	26.05	13.72
111	2008	63	1015	41.71	65.47	8.7	324.1	24.25	13.71
111	2008	63	1030	42.05	66.51	7.87	325.2	29.47	13.69
111	2008	63	1045	42.21	64.39	8.09	321.7	30.09	13.68
111	2008	63	1100	42.11	65.92	6.871	321.9	24.82	13.67
111	2008	63	1115	42.23	66.59	6.938	323.9	27.22	13.67
111	2008	63	1130	43.65	65.65	6.813	314.3	27.83	13.64
111	2008	63	1145	43.93	67.39	8.13	316.3	27.49	13.62
111	2008	63	1200	43.86	68.8	7.75	320.7	26.94	13.6
111	2008	63	1215	44.65	65.18	6.902	310	33.73	13.6
111	2008	63	1230	44.7	64.45	7.62	317.9	36.93	13.58
111	2008	63	1245	44.67	68.23	7.88	316.8	28.19	13.58
111	2008	63	1300	44.36	68.69	8.52	323	26.23	13.57
111	2008	63	1315	44.84	66.98	8.83	309.3	22.01	13.57
111	2008	63	1330	45.65	67.57	7.78	309.9	29.68	13.56
111	2008	63	1345	45.56	66.17	8.72	305.2	23.89	13.56
111	2008	63	1400	45.68	67.74	8.74	314.7	25.62	13.56
111	2008	63	1415	46.02	66.6	9.05	314.4	24.65	13.56
111	2008	63	1430	46.38	67.03	8.72	323.2	21.78	13.54
111	2008	63	1445	46.19	68.61	10.01	320.6	27.68	13.54
111	2008	63	1500	46.23	68.88	10.94	317.2	28.92	13.54
111	2008	63	1515	46.53	68.47	9.89	315.8	25.78	13.54
111	2008	63	1530	46.38	69.08	10.22	322.4	22.82	13.54
111	2008	63	1545	46.79	68.47	8.69	320.9	30.41	13.54
111	2008	63	1600	46.55	68.74	9.93	322.1	26.88	13.53
111	2008	63	1615	46.21	69.31	9.63	318.7	25.82	13.55
111	2008	63	1630	46.51	69.71	8.42	319.5	22.75	13.05
111	2008	63	1645	46.54	68.51	9.4	334.7	24.75	12.9
111	2008	63	1700	46.25	68.61	9.74	333.1	27.01	12.84
111	2008	63	1715	46.3	68.84	8.48	331.8	30.05	12.8
111	2008	63	1730	45.79	69.48	9.76	325.6	22.79	12.77
111	2008	63	1745	45.83	67.5	8.44	330.5	23.24	12.74
111	2008	63	1800	45.74	67.54	9.02	329.6	26.73	12.72
111	2008	63	1815	45.36	70.6	9.28	326.1	27.96	12.71
111	2008	63	1830	44.69	73.1	8.48	325.5	28.57	12.69
111	2008	63	1845	44.14	75.1	8.05	324.1	26.63	12.69
111	2008	63	1900	43.96	75.4	8.24	329.5	23.96	12.67
111	2008	63	1915	43.73	78.7	8.48	326.5	27.98	12.66
111	2008	63	1930	43.5	79.6	7.13	323	28.06	12.65
111	2008	63	1945	43.45	80.1	7.77	321.9	28.32	12.64
111	2008	63	2000	43.51	79.3	7.67	320.6	25.14	12.63
111	2008	63	2015	43.66	80.6	6.783	325.7	29.6	12.63
111	2008	63	2030	43.44	81.6	6.759	334.9	29.53	12.63
111	2008	63	2045	43.45	82.3	6.976	337.6	25.02	12.61
111	2008	63	2100	43.59	82.4	6.251	331	27.11	12.61
111	2008	63	2115	43.82	83	7.11	334.2	27.22	12.61
111	2008	63	2130	44.01	83.5	6.654	335.9	23.37	12.6

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	63	2145	44.12	84	7.26	337.2	21.36	12.59
111	2008	63	2200	44.14	84.8	6.422	334.7	29.2	12.59
111	2008	63	2215	44.15	85.1	7.13	336.6	27.68	12.59
111	2008	63	2230	44.03	85.9	5.91	333.2	26.9	12.58
111	2008	63	2245	43.52	87.4	5.82	334.6	27.75	12.58
111	2008	63	2300	43.55	87.7	6.289	330.7	24.47	12.57
111	2008	63	2315	43.74	88.2	5.866	325.5	27.62	12.57
111	2008	63	2330	43.64	88.6	5.202	340	24.9	12.57
111	2008	63	2345	44.15	88.5	6.873	339.8	26.65	12.57
111	2008	63	2400	44.25	88.8	5.767	342.2	25.46	12.56
111	2008	64	15	44.38	89	6.702	337.4	23.45	12.55
111	2008	64	30	44.71	88.4	7.2	337.3	21.13	12.56
111	2008	64	45	45.58	87.2	9.25	345.3	23.93	12.55
111	2008	64	100	45.73	87	9	348.9	20.37	12.56
111	2008	64	115	45.63	87.2	7.68	342.3	26.18	12.55
111	2008	64	130	45.53	88	7.93	343.6	23.68	12.55
111	2008	64	145	45.66	87.9	8.21	345.1	26.72	12.54
111	2008	64	200	45.81	87.5	8.95	343.7	28.31	12.54
111	2008	64	215	45.62	87.9	8.27	348	22.07	12.53
111	2008	64	230	45.53	87.7	8.67	344.8	24.7	12.54
111	2008	64	245	45.76	87.4	9.24	346.9	24.86	12.53
111	2008	64	300	45.7	87.6	9.24	345.3	19.22	12.53
111	2008	64	315	45.66	88	10.15	347.1	20.99	12.53
111	2008	64	330	45.63	88	9.14	343.4	21.02	12.52
111	2008	64	345	45.82	87.7	9.79	347.8	23.99	12.52
111	2008	64	400	45.91	87.9	8.86	340.2	28.73	12.51
111	2008	64	415	45.89	87.6	10.51	341.1	27.06	12.51
111	2008	64	430	46.02	87.5	9.9	349	22.9	12.51
111	2008	64	445	46.26	87.1	9.73	347.1	23.3	12.5
111	2008	64	500	46.23	87.1	9.87	348.7	25.09	12.49
111	2008	64	515	45.9	87.7	9.7	342.9	21.57	12.5
111	2008	64	530	45.52	88.2	8.41	333.1	22.54	12.49
111	2008	64	545	45.2	88.6	7.77	330.6	20.11	12.49
111	2008	64	600	45.03	88.9	7.22	333.6	28.28	12.48
111	2008	64	615	45.08	89	6.765	330.1	24.93	12.48
111	2008	64	630	45.01	89	7.83	332.1	21.26	12.48
111	2008	64	645	44.91	89.5	8.12	329.6	21.82	12.47
111	2008	64	700	44.88	89.4	7.62	327.1	25.92	12.46
111	2008	64	715	44.92	89.2	7.09	339.4	24.49	12.46
111	2008	64	730	44.96	89.3	6.412	336.5	23.81	12.45
111	2008	64	745	44.9	89.2	5.479	341.5	27.85	12.45
111	2008	64	800	44.88	89.4	5.646	341.1	28.43	12.45
111	2008	64	815	45.37	88.6	5.663	338.7	27.04	12.48
111	2008	64	830	46.12	87.1	5.79	339.9	22.14	13.22
111	2008	64	845	46.58	86.1	7.22	343.5	22.03	13.53
111	2008	64	900	46.73	86	6.41	337.1	25.65	13.59
111	2008	64	915	47.21	85	8.3	331.8	27.09	13.57
111	2008	64	930	47.07	85.6	8.07	340.7	27.02	13.16
111	2008	64	945	47.37	85	7.36	348.5	20.92	13.56
111	2008	64	1000	47.68	85.1	9.66	347.5	21.32	13.56
111	2008	64	1015	48.53	82.4	9.15	346.8	25.86	13.55
111	2008	64	1030	48.51	83.9	8.78	337.7	21.22	13.54
111	2008	64	1045	48.16	84.2	8.69	340.5	24.96	13.54
111	2008	64	1100	49.06	81.5	7.13	346.9	32.23	13.54
111	2008	64	1115	49.84	81.1	8.09	347.8	21.76	13.52
111	2008	64	1130	50.42	80.4	8.67	338.5	25.9	13.51
111	2008	64	1145	50.51	78.5	9.31	338.4	22.01	13.5
111	2008	64	1200	50.34	81	8.08	341.6	26.4	13.5
111	2008	64	1215	49.73	82	8.05	342.6	24.69	13.42
111	2008	64	1230	49.16	82.5	7.7	348.4	22.13	13.16

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	64	1245	48.73	83.8	9	346.3	20.28	13.09
111	2008	64	1300	48.92	83.4	8.63	353.3	21.28	13.16
111	2008	64	1315	49.33	83.1	8.76	352.8	19.43	13.53
111	2008	64	1330	49.57	82.5	9.47	349.6	26.31	13.52
111	2008	64	1345	49.6	81.9	8.81	347.6	24.62	13.05
111	2008	64	1400	49.1	83.2	7.82	346.5	27.73	12.83
111	2008	64	1415	48.91	83.9	7.93	338.8	20.25	12.8
111	2008	64	1430	49.02	83.5	7.4	337.1	21.91	12.76
111	2008	64	1445	49.28	83	9.26	332.6	21.49	12.78
111	2008	64	1500	49.2	86.5	7.4	333.6	26.59	12.74
111	2008	64	1515	48.23	88.7	8.18	327.4	24.21	12.72
111	2008	64	1530	47.8	89.8	7.46	331.1	26.1	12.7
111	2008	64	1545	47.73	90.3	7.09	326	24.57	12.7
111	2008	64	1600	47.34	91.5	7.04	331.1	26.67	12.68
111	2008	64	1615	47.18	92	7.04	334	20.95	12.67
111	2008	64	1630	47.36	92	7.2	331.6	24.82	12.66
111	2008	64	1645	47.65	91.8	7.17	336.9	23.67	12.65
111	2008	64	1700	47.78	91.6	6.603	348.5	22.26	12.65
111	2008	64	1715	47.72	91.5	6.279	347.2	27.07	12.63
111	2008	64	1730	47.69	91.2	7.19	348.1	24.52	12.64
111	2008	64	1745	47.77	91.2	6.15	352.8	26.36	12.63
111	2008	64	1800	47.68	91.2	6.418	357.7	29.01	12.62
111	2008	64	1815	47.58	91.4	5.276	357.6	21.8	12.62
111	2008	64	1830	47.48	91.4	4.448	348.7	29.77	12.62
111	2008	64	1845	47.53	91.6	5.707	328.4	34.29	12.61
111	2008	64	1900	47.86	91.3	5.878	8.44	31.26	12.61
111	2008	64	1915	47.94	91.1	6.15	343.4	25.08	12.6
111	2008	64	1930	48.22	91.2	5.038	2.454	29.88	12.6
111	2008	64	1945	49.42	90	6.462	0.12	24.16	12.6
111	2008	64	2000	49.62	89.4	6.283	348.7	21.87	12.59
111	2008	64	2015	48.81	90.1	5.594	341.3	22.51	12.59
111	2008	64	2030	48	90.6	4.208	331.5	31.42	12.58
111	2008	64	2045	47.3	91.1	2.797	328.5	27.47	12.58
111	2008	64	2100	46.86	91.4	2.088	284.6	34.97	12.58
111	2008	64	2115	46.59	91.6	1.467	261.7	17.5	12.57
111	2008	64	2130	46.31	91.8	1.709	227.7	23.61	12.56
111	2008	64	2145	45.99	92.2	0.185	163.5	12.59	12.56
111	2008	64	2200	45.97	92.5	0.837	235	24.26	12.55
111	2008	64	2215	46.08	92.7	2.174	212.9	19.95	12.54
111	2008	64	2230	46.13	92.7	0.632	205.2	17.02	12.54
111	2008	64	2245	46.27	92.8	1.783	229.1	17.06	12.53
111	2008	64	2300	46.44	92.9	2.278	216.1	19.38	12.53
111	2008	64	2315	46.69	93	2.389	223.2	19.69	12.52
111	2008	64	2330	46.95	92.7	2.802	224.3	17.47	12.52
111	2008	64	2345	46.98	92.6	3.398	230.9	19.65	12.51
111	2008	64	2400	47.16	92.4	2.826	239.3	19.49	12.51
111	2008	65	15	47.25	92	3.722	242.4	14.35	12.5
111	2008	65	30	47.17	91.9	4.663	238.1	15.37	12.49
111	2008	65	45	47.12	91.6	4.442	236.8	16.03	12.49
111	2008	65	100	47.12	91.4	4.81	234.4	17.15	12.49
111	2008	65	115	47.07	91.2	5.213	236.3	14.66	12.49
111	2008	65	130	46.96	91.1	5.068	240.7	16.54	12.48
111	2008	65	145	47.06	90.9	4.748	239.4	20.07	12.48
111	2008	65	200	47.15	90.9	4.957	232.4	19.09	12.47
111	2008	65	215	47	90.9	4.905	226.4	16.91	12.46
111	2008	65	230	46.58	91.7	4.494	219.9	16.71	12.47
111	2008	65	245	47.32	92	5.693	257.9	28.52	12.47
111	2008	65	300	48.24	92.2	7.21	277.9	26.42	12.46
111	2008	65	315	48.57	92	9.03	273.5	24.08	12.45
111	2008	65	330	48.44	92.6	8.97	269.7	24.54	12.45

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	65	345	48.74	92.4	8.76	277.7	27.87	12.45
111	2008	65	400	48.45	92.9	9.15	273.2	27.31	12.45
111	2008	65	415	48.35	93.4	7.95	271.6	25.98	12.44
111	2008	65	430	48.62	93.6	9.25	267.5	24.55	12.45
111	2008	65	445	48.93	93.9	9.03	266.9	23.74	12.45
111	2008	65	500	49.38	94	9.86	276.3	24.14	12.44
111	2008	65	515	49.59	94	10.12	270.5	20.86	12.45
111	2008	65	530	49.77	94.1	10.17	271.9	29.1	12.45
111	2008	65	545	50.06	94	11.54	274.9	27.31	12.44
111	2008	65	600	50.81	95.1	8.57	285.4	27.54	12.45
111	2008	65	615	51.72	94.8	na	na	na	12.46
111	2008	65	630	49.83	95.3	na	na	na	12.47
111	2008	65	645	49.25	95.8	na	na	na	12.46
111	2008	65	700	48.59	96	na	na	na	12.46
111	2008	65	715	48.05	96.3	na	na	na	12.46
111	2008	65	730	47.48	96.4	na	na	na	12.46
111	2008	65	745	46.5	96.5	na	na	na	12.46
111	2008	65	800	46.12	96.5	na	na	na	12.46
111	2008	65	815	45.71	96.7	na	na	na	12.45
111	2008	65	830	45.84	96.8	na	na	na	12.45
111	2008	65	845	46.95	97	na	na	na	12.49
111	2008	65	900	47.67	96.9	na	na	na	12.49
111	2008	65	915	47.73	96.9	na	na	na	12.6
111	2008	65	930	46.74	96.9	na	na	na	12.56
111	2008	65	945	46.68	96.9	na	na	na	12.52
111	2008	65	1000	48.25	97	na	na	na	12.61
111	2008	65	1015	47.72	96.9	na	na	na	12.61
111	2008	65	1030	48	96.8	na	na	na	12.54
111	2008	65	1045	48.44	96.9	na	na	na	12.58
111	2008	65	1100	48.67	96.8	na	na	na	12.7
111	2008	65	1115	48.83	96.8	na	na	na	12.76
111	2008	65	1130	47.97	96.4	na	na	na	12.71
111	2008	65	1145	49.04	93.8	na	na	na	13.5
111	2008	65	1200	51.71	67.94	na	na	na	13.39
111	2008	65	1215	52.55	62.15	na	na	na	13.48
111	2008	65	1230	53.08	60.44	na	na	na	13.46
111	2008	65	1245	53.56	59.63	na	na	na	13.45
111	2008	65	1300	52.3	63.71	na	na	na	13.46
111	2008	65	1315	50.94	61.5	na	na	na	13.46
111	2008	65	1330	49.98	59.67	na	na	na	13.46
111	2008	65	1345	50.28	56.19	na	na	na	13.47
111	2008	65	1400	50.19	54.48	na	na	na	13.19
111	2008	65	1415	50.48	52.41	na	na	na	13.48
111	2008	65	1430	50.31	52.07	na	na	na	13.5
111	2008	65	1445	50.39	52.98	na	na	na	13.25
111	2008	65	1500	50.42	51.57	na	na	na	13.07
111	2008	65	1515	49.94	51.71	na	na	na	13.04
111	2008	65	1530	49.8	52.48	na	na	na	12.99
111	2008	65	1545	49.38	52.98	na	na	na	12.99
111	2008	65	1600	49.34	53.25	na	na	na	13.04
111	2008	65	1615	49.11	53.75	na	na	na	12.88
111	2008	65	1630	48.74	53.88	na	na	na	12.9
111	2008	65	1645	48.47	53.98	na	na	na	12.98
111	2008	65	1700	48.47	50.87	na	na	na	12.96
111	2008	65	1715	48.45	48.09	na	na	na	12.89
111	2008	65	1730	48.53	48.96	na	na	na	12.81
111	2008	65	1745	47.77	50.34	na	na	na	12.75
111	2008	65	1800	47.41	49.84	na	na	na	12.72
111	2008	65	1815	47.33	48.14	na	na	na	12.7
111	2008	65	1830	46.9	48.41	na	na	na	12.69

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	65	1845	45.92	48.61	na	na	na	12.68
111	2008	65	1900	45.37	49.08	na	na	na	12.66
111	2008	65	1915	45.01	49.82	na	na	na	12.65
111	2008	65	1930	44.56	50.35	na	na	na	12.64
111	2008	65	1945	44.13	49.41	na	na	na	12.63
111	2008	65	2000	43.7	49.79	na	na	na	12.62
111	2008	65	2015	43.33	51.13	na	na	na	12.61
111	2008	65	2030	43.2	50.93	na	na	na	12.6
111	2008	65	2045	42.97	51.74	na	na	na	12.6
111	2008	65	2100	42.48	51.77	na	na	na	12.59
111	2008	65	2115	41.94	52.44	na	na	na	12.59
111	2008	65	2130	41.41	52.61	na	na	na	12.57
111	2008	65	2145	41.01	53.08	na	na	na	12.57
111	2008	65	2200	40.43	54.62	na	na	na	12.57
111	2008	65	2215	40.05	55.29	na	na	na	12.56
111	2008	65	2230	39.67	56.97	na	na	na	12.54
111	2008	65	2245	39.28	57.6	na	na	na	12.55
111	2008	65	2300	39.01	58.71	na	na	na	12.53
111	2008	65	2315	38.79	58.18	na	na	na	12.51
111	2008	65	2330	38.77	59.02	na	na	na	12.52
111	2008	65	2345	38.65	58.52	na	na	na	12.52
111	2008	65	2400	38.45	58.72	na	na	na	12.51
111	2008	66	15	38.22	59.05	na	na	na	12.51
111	2008	66	30	37.98	59.79	na	na	na	12.51
111	2008	66	45	37.61	60.36	na	na	na	12.48
111	2008	66	100	37.26	61.03	na	na	na	12.48
111	2008	66	115	36.99	60.87	na	na	na	12.48
111	2008	66	130	36.78	61.1	na	na	na	12.47
111	2008	66	145	36.51	60.64	na	na	na	12.47
111	2008	66	200	36.27	61	na	na	na	12.46
111	2008	66	215	36.08	60.97	na	na	na	12.45
111	2008	66	230	35.77	62.28	na	na	na	12.45
111	2008	66	245	35.33	62.75	na	na	na	12.43
111	2008	66	300	35.12	63.55	na	na	na	12.43
111	2008	66	315	34.71	63.95	na	na	na	12.43
111	2008	66	330	34.35	64.62	na	na	na	12.42
111	2008	66	345	33.98	65.53	na	na	na	12.41
111	2008	66	400	33.54	67.27	na	na	na	12.38
111	2008	66	415	32.79	69.99	na	na	na	12.38
111	2008	66	430	31.68	73.5	na	na	na	12.37
111	2008	66	445	31.1	75.8	na	na	na	12.36
111	2008	66	500	30.47	77.8	na	na	na	12.35
111	2008	66	515	29.97	79.1	na	na	na	12.33
111	2008	66	530	29.57	80.8	na	na	na	12.34
111	2008	66	545	29.31	81.9	na	na	na	12.34
111	2008	66	600	28.99	83.2	na	na	na	12.32
111	2008	66	615	28.74	83.6	na	na	na	12.31
111	2008	66	615	29.19	84.6	0.423	227.6	35.91	12.36
111	2008	66	630	29.21	83.7	0.011	3.668	0	12.36
111	2008	66	645	29.25	83.1	na	na	na	12.36
111	2008	66	700	29.54	82.5	0.137	10.86	5.264	12.35
111	2008	66	715	30.01	80	0.112	20.93	10.09	12.35
111	2008	66	730	30.55	78.5	na	na	na	12.34
111	2008	66	745	31.01	77.8	na	na	na	12.4
111	2008	66	800	31.75	75.2	na	na	na	12.55
111	2008	66	815	32.44	73	0.145	70.4	6.066	13.01
111	2008	66	830	33.18	70.9	0.129	61.99	9.22	13.2
111	2008	66	845	34.55	67.08	0.531	79.4	21.54	13.9
111	2008	66	900	36.05	63.02	1.028	99.8	21.51	13.88
111	2008	66	915	36.94	60.37	1.811	91.4	40.45	13.86

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	66	930	37.09	58.42	3.166	68.58	33.55	13.83
111	2008	66	945	38	57.44	2.803	67.77	30.71	13.8
111	2008	66	1000	38.32	57.07	3.784	64.05	36.19	13.78
111	2008	66	1015	38.77	57.26	2.989	52.85	39.59	13.76
111	2008	66	1030	39.33	56.66	4.789	91.2	32.45	13.75
111	2008	66	1045	39.81	54.58	3.372	55.38	28.43	13.73
111	2008	66	1100	40.6	52.13	3.642	92.1	59.05	13.72
111	2008	66	1115	40.9	57.89	4.083	142	53.47	13.11
111	2008	66	1130	39.63	60.53	5.894	190.9	21.93	13.7
111	2008	66	1145	40.07	58.15	5.308	203.6	30.05	13.69
111	2008	66	1200	40.38	59.39	5.711	209.9	30.41	13.68
111	2008	66	1215	40.53	60.43	5.763	221.1	24.37	13.67
111	2008	66	1230	40.91	57.25	6.297	226.2	27.05	13.66
111	2008	66	1245	41.51	56.81	5.181	221.9	30.08	13.65
111	2008	66	1300	42.36	57.01	4.949	219.9	34.38	13.64
111	2008	66	1315	41.39	55.91	6.211	219	27.92	13.63
111	2008	66	1330	41.85	57.85	5.884	188.7	28.81	13.22
111	2008	66	1345	41.26	56.81	6.424	194.3	31.34	13.05
111	2008	66	1400	40.97	58.28	6.321	201.4	28.11	13
111	2008	66	1415	41.07	59.45	5.8	189.4	31.32	12.98
111	2008	66	1430	41.18	57.65	5.534	195.6	29.88	12.98
111	2008	66	1445	41.18	57.15	6.098	204.6	28.79	12.98
111	2008	66	1500	41.2	55.71	5.864	190.7	29.45	12.95
111	2008	66	1515	41.55	59.09	5.679	203.3	30.28	12.97
111	2008	66	1530	40.75	63.01	5.435	220.6	21.12	12.98
111	2008	66	1545	41.3	61.27	5.326	214.7	38.75	13.04
111	2008	66	1600	41.35	63.81	5.131	210.1	28.58	12.95
111	2008	66	1615	41.74	59.93	4.712	217.9	26.17	12.94
111	2008	66	1630	42.21	59.29	4.305	226.7	37.05	12.93
111	2008	66	1645	41.36	62.17	4.615	222.9	28.2	12.91
111	2008	66	1700	41.58	65.65	4.718	198.2	27.73	12.88
111	2008	66	1715	40.85	67.09	4.522	186.3	30.89	12.86
111	2008	66	1730	40.03	67.86	3.777	184.6	21.99	12.85
111	2008	66	1745	39.78	69.87	3.801	188.5	20.41	12.79
111	2008	66	1800	39.14	71.1	3.795	177.4	22.15	12.74
111	2008	66	1815	38.78	71.2	3.068	182.7	23.85	12.71
111	2008	66	1830	38.5	71.7	1.844	195.6	24.4	12.7
111	2008	66	1845	38.19	72.2	2.213	187.8	20.89	12.69
111	2008	66	1900	38	72.6	1.453	187.4	14.99	12.68
111	2008	66	1915	37.86	72.6	1.012	165.3	26.07	12.66
111	2008	66	1930	37.88	72.8	0.165	195.7	11.73	12.65
111	2008	66	1945	37.7	73.3	0.584	189.3	9.71	12.64
111	2008	66	2000	37.8	74.2	1.043	137.8	19.96	12.63
111	2008	66	2015	37.77	75.5	1.007	135.4	23.26	12.62
111	2008	66	2030	37.32	77.4	0.069	146.6	1.952	12.61
111	2008	66	2045	37.2	78.6	0.54	129	15.81	12.59
111	2008	66	2100	37.19	79	0.293	124.6	7.08	12.59
111	2008	66	2115	37.1	79.5	0.508	118.1	13.3	12.58
111	2008	66	2130	36.93	80.2	0.34	115.2	12.5	12.58
111	2008	66	2145	36.92	80.2	1.353	115.8	16.61	12.57
111	2008	66	2200	36.9	80.2	0.786	91.7	16.79	12.56
111	2008	66	2215	36.13	81.6	0.045	79.2	1.399	12.55
111	2008	66	2230	35.72	82.5	0.093	77.4	3.784	12.55
111	2008	66	2245	35.34	83	0.342	26.3	9.26	12.55
111	2008	66	2300	34.95	83.7	na	na	na	12.54
111	2008	66	2315	34.66	84.2	0.018	33.38	1.526	12.53
111	2008	66	2330	34.53	84.4	0.009	8.3	0	12.52
111	2008	66	2345	34.05	84.9	0.018	14.96	0.158	12.51
111	2008	66	2400	33.5	86	na	na	na	12.5
111	2008	67	15	33.34	86.3	na	na	na	12.5

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	67	30	32.9	87.1	na	na	na	12.49
111	2008	67	45	32.65	87.4	na	na	na	12.48
111	2008	67	100	32.23	87.9	na	na	na	12.48
111	2008	67	115	31.95	88.4	na	na	na	12.46
111	2008	67	130	31.76	88.7	0.093	7.17	3.516	12.46
111	2008	67	145	31.52	89.1	0.009	12.35	0.004	12.45
111	2008	67	200	31.32	89.5	na	na	na	12.44
111	2008	67	215	31.27	89.6	na	na	na	12.43
111	2008	67	230	30.96	89.9	na	na	na	12.42
111	2008	67	245	30.71	90.4	na	na	na	12.42
111	2008	67	300	30.58	90.6	na	na	na	12.41
111	2008	67	315	30.44	90.8	na	na	na	12.4
111	2008	67	330	30.18	91.3	na	na	na	12.39
111	2008	67	345	30.15	91.3	na	na	na	12.38
111	2008	67	400	30.32	91.7	0.182	74.2	3.611	12.38
111	2008	67	415	30.56	92	na	na	na	12.37
111	2008	67	430	30.73	92.2	na	na	na	12.36
111	2008	67	445	30.83	92.2	na	na	na	12.36
111	2008	67	500	30.51	92.3	na	na	na	12.36
111	2008	67	515	30.55	92.4	na	na	na	12.36
111	2008	67	530	30.49	92.8	na	na	na	12.35
111	2008	67	545	30.69	92.8	na	na	na	12.35
111	2008	67	600	30.56	92.8	na	na	na	12.35
111	2008	67	615	30.15	93.1	na	na	na	12.34
111	2008	67	630	30.24	93.1	na	na	na	12.34
111	2008	67	645	30.25	93.1	0.009	50.77	0	12.35
111	2008	67	700	30.61	93.6	0.2	57.51	9.54	12.34
111	2008	67	715	30.88	93.6	0.074	68.55	6.425	12.34
111	2008	67	730	31.14	93.6	0.375	73.9	9.52	12.34
111	2008	67	745	31.4	93.7	0.081	50.84	4.293	12.36
111	2008	67	800	31.87	93.7	0.114	39.02	7.8	12.56
111	2008	67	815	32.83	93.7	0.154	51.61	10.95	13.9
111	2008	67	830	33.97	92.8	0.882	53.48	19.68	13.33
111	2008	67	845	35.32	91.5	1.161	65.16	20.89	13.34
111	2008	67	900	36.61	89.3	1.528	64.48	19.56	13.84
111	2008	67	915	37.95	85	2.643	76.4	26.03	13.82
111	2008	67	930	38.9	81.6	3.127	77.9	34	13.8
111	2008	67	945	39.19	79.8	3.684	81.7	24.03	13.78
111	2008	67	1000	39.09	81	6.15	72.4	23.51	13.76
111	2008	67	1015	39.71	78.8	5.497	57.51	25.68	13.75
111	2008	67	1030	41.18	76.3	4.182	57.63	34.11	13.73
111	2008	67	1045	42.16	73.8	4.857	67.86	30.08	13.71
111	2008	67	1100	43.88	68.8	3.518	89.6	39.39	13.69
111	2008	67	1115	45.3	62.84	5.302	117.5	25.2	13.68
111	2008	67	1130	44.94	74.9	5.569	152.2	24.5	13.66
111	2008	67	1145	42.81	77.1	7.41	154.7	19.33	13.66
111	2008	67	1200	42.77	77.9	7.25	157	24.54	13.68
111	2008	67	1215	43.31	73.9	6.261	141	20.76	13.68
111	2008	67	1230	43.15	75.1	6.287	147.8	20.6	13.68
111	2008	67	1245	42.62	77.1	6.551	144.4	24.42	13.68
111	2008	67	1300	42.02	78.8	8.21	144.3	20.24	13.68
111	2008	67	1315	41.66	78.5	8.1	136.9	19.04	13.37
111	2008	67	1330	41.28	78.8	7.76	124.3	21.18	13.69
111	2008	67	1345	41.94	76.3	6.567	126.8	22.1	13.22
111	2008	67	1400	41.9	76.3	7.52	123.8	21.4	13.3
111	2008	67	1415	42.16	75.5	6.912	134.3	22.07	13.69
111	2008	67	1430	42.77	67.99	6.791	125.4	23.98	13.6
111	2008	67	1445	43.38	64.65	7.71	125.3	17.57	13.02
111	2008	67	1500	43.98	61.27	5.663	125.1	16.35	13.08
111	2008	67	1515	43.8	62.37	6.795	123.1	22.3	13.03

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	67	1530	43.87	62.91	5.338	124.3	21.61	12.9
111	2008	67	1545	44.24	63.17	6.674	116.6	21.53	12.9
111	2008	67	1600	44.26	63.41	6.505	120.1	21.43	12.91
111	2008	67	1615	44.47	63.61	7.17	107.8	23.02	12.83
111	2008	67	1630	44.57	65.28	6.211	97.6	22.18	12.78
111	2008	67	1645	44.53	68.7	6.557	102.1	21.51	12.76
111	2008	67	1700	44.6	71.7	6.912	110.2	19.81	12.74
111	2008	67	1715	44.65	75.1	6.374	121.5	23.99	12.73
111	2008	67	1730	43.74	80.8	8.64	127.7	17.42	12.72
111	2008	67	1745	42.84	82.7	9.84	120.3	19.46	12.71
111	2008	67	1800	42.31	85.1	9.26	119.4	21.02	12.7
111	2008	67	1815	41.79	88.4	9.19	118.1	19.43	12.69
111	2008	67	1830	41.21	90.8	9.26	119.5	18.37	12.67
111	2008	67	1845	41.04	92.6	9.13	120.1	22.69	12.67
111	2008	67	1900	41.05	93.3	7.67	119.6	23.59	12.67
111	2008	67	1915	40.87	93.9	9.75	122.9	22.49	12.66
111	2008	67	1930	40.89	94.3	8.63	117.8	20.06	12.65
111	2008	67	1945	40.97	94.7	9.2	121.6	18.25	12.64
111	2008	67	2000	41.19	94.9	7.39	119.4	25.21	12.64
111	2008	67	2015	41.39	95.2	7.04	119	24.34	12.63
111	2008	67	2030	41.82	95.4	7.67	119.7	18.53	12.62
111	2008	67	2045	42.03	95.7	6.863	121.2	25.18	12.63
111	2008	67	2100	42.33	95.9	7.58	125.8	23.29	12.62
111	2008	67	2115	42.61	96.1	7.19	121.4	22.15	12.61
111	2008	67	2130	43.22	96.3	7.8	113.3	18.05	12.61
111	2008	67	2145	43.74	96.5	7.45	121.4	23.11	12.61
111	2008	67	2200	44.21	96.5	7.77	116.6	23.13	12.6
111	2008	67	2215	44.42	96.6	5.771	117.3	28.97	12.6
111	2008	67	2230	44.8	96.8	6.747	139.8	25.55	12.6
111	2008	67	2245	45.1	96.8	7.61	140.2	19.71	12.6
111	2008	67	2300	45.6	96.8	6.126	133.8	20.68	12.59
111	2008	67	2315	46.93	96.8	4.158	355.1	95.9	12.59
111	2008	67	2330	49	96.8	3.026	255.1	47.1	12.59
111	2008	67	2345	49.34	96.9	2.646	327.9	62.08	12.58
111	2008	67	2400	50.45	96.8	7.7	192.3	61.88	12.58
111	2008	68	15	51.61	96.9	9.16	273.4	57.35	12.58
111	2008	68	30	52.73	96.9	6.688	271	41.83	12.58
111	2008	68	45	52.93	96.8	3.344	257.2	31.73	12.57
111	2008	68	100	53.2	96.8	4.244	248.7	24.57	12.57
111	2008	68	115	53.25	96.8	3.866	246.1	25.32	12.57
111	2008	68	130	53.14	96.8	6.104	249.1	25.06	12.56
111	2008	68	145	53.01	96.9	6.162	247	25.13	12.56
111	2008	68	200	53.3	96.9	7.07	243.2	24.89	12.54
111	2008	68	215	52.88	96.9	6.753	244.7	22.47	12.54
111	2008	68	230	52.72	96.9	7.57	251	25.54	12.54
111	2008	68	245	51.51	96.9	8.3	264.2	25.14	12.52
111	2008	68	300	51.25	96.9	9.19	267.8	22.68	12.52
111	2008	68	315	50.11	96.8	10.27	271.7	18.95	12.51
111	2008	68	330	49.45	96.9	7.34	272.4	20.34	12.51
111	2008	68	345	49.7	96.7	6.374	265.4	23.17	12.5
111	2008	68	400	48.83	96.8	4.462	270.2	20.94	12.5
111	2008	68	415	48.55	96.8	3.13	257.6	28.06	12.49
111	2008	68	430	47.97	96.8	2.707	233.9	23.65	12.49
111	2008	68	445	47.31	96.7	1.153	238	17.9	12.49
111	2008	68	500	47.1	96.8	2.166	247.5	17.17	12.48
111	2008	68	515	46.84	96.8	1.507	257	12.6	12.47
111	2008	68	530	46.84	96.8	0.457	254.4	17.57	12.47
111	2008	68	545	46.9	96.8	1.082	243.5	14.99	12.47
111	2008	68	600	46.57	96.9	1.739	243.1	19.14	12.47
111	2008	68	615	46.51	96.9	1.498	265.8	21.11	12.46

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	68	630	46.73	97	1.341	318	22.44	12.46
111	2008	68	645	46.82	97	0.392	6.828	7.72	12.46
111	2008	68	700	46.97	96.9	0.847	27.41	18.93	12.45
111	2008	68	715	47.3	96.9	0.582	46.53	19.37	12.46
111	2008	68	730	47.69	97	0.753	71.1	25.14	12.46
111	2008	68	745	47.91	96.9	2.2	71.4	26.2	12.45
111	2008	68	800	46.94	97	2.321	62.65	28.96	12.45
111	2008	68	815	46.38	96.9	2.784	70.1	26.06	12.45
111	2008	68	830	46.28	96.9	2.375	71.4	23.2	12.45
111	2008	68	845	46.19	96.9	3.668	82.3	23.42	12.45
111	2008	68	900	45.85	97	3.624	88.6	22.57	12.45
111	2008	68	915	45.34	96.9	4.798	103.5	22.54	12.45
111	2008	68	930	45.34	96.9	3.855	117.1	17.84	12.45
111	2008	68	945	45.78	97	3.86	124	28.32	12.45
111	2008	68	1000	45.63	96.9	5.421	133.6	17.84	12.45
111	2008	68	1015	45.46	96.9	4.426	133.6	18.09	12.46
111	2008	68	1030	45.59	97	3.99	133.7	20.27	12.44
111	2008	68	1045	45.86	97.1	3.541	127	24.29	12.45
111	2008	68	1100	46.33	97	2.428	103.9	31.26	12.46
111	2008	68	1115	47.17	97	1.705	92.6	25.02	12.44
111	2008	68	1130	47.23	97	2.349	93.5	25.78	12.44
111	2008	68	1145	47.46	97	2.703	86.5	23.98	12.55
111	2008	68	1200	48.01	97	2.584	99.1	22.26	12.46
111	2008	68	1215	48.8	96.9	2.856	117.5	23.8	12.45
111	2008	68	1230	49.17	96.9	2.709	130.1	20.37	12.44
111	2008	68	1245	49.48	97	3.283	119.4	20	12.45
111	2008	68	1300	49.93	97.1	2.504	139	32.86	12.44
111	2008	68	1315	50.39	97	4.119	176.4	31.94	12.44
111	2008	68	1330	51.56	97	6.265	218.1	31.5	12.46
111	2008	68	1345	52.21	97	7.76	212.6	26.99	12.56
111	2008	68	1400	52.61	97	8.78	210.6	29.68	12.5
111	2008	68	1415	53.16	97	8.9	209.2	26.04	12.56
111	2008	68	1430	53.88	97	9.28	213.7	34.67	12.54
111	2008	68	1445	53.41	96.9	8.34	200.8	24.76	12.49
111	2008	68	1500	52.95	97	9.16	200.2	29.17	12.47
111	2008	68	1515	52.75	97	10.07	198.2	23.96	12.47
111	2008	68	1530	52.13	97	10.38	197.8	22.1	12.46
111	2008	68	1545	52.56	96.9	10.94	204.4	23.52	12.46
111	2008	68	1600	53.75	96.9	11.62	206.1	26.71	12.45
111	2008	68	1615	53.63	97	11.62	203.7	23.62	12.46
111	2008	68	1630	53.91	97	11.34	206	28.46	12.45
111	2008	68	1645	53.98	97	11.79	201	27.36	12.45
111	2008	68	1700	53.89	97	11.28	208	27.88	12.45
111	2008	68	1715	54.03	97.1	11.31	213.6	29.27	12.46
111	2008	68	1730	54.27	97	12.51	213.9	27.92	12.46
111	2008	68	1745	54.39	97	11.02	217.4	25.12	12.46
111	2008	68	1800	53.89	96.9	10.32	213.1	33.21	12.47
111	2008	68	1815	53.37	96.8	10.73	206.5	31.32	12.46
111	2008	68	1830	53.41	96.7	12.04	218.9	25.11	12.46
111	2008	68	1845	53.47	88.4	11.06	227.3	26.09	12.45
111	2008	68	1900	53.05	83.1	9.95	224.6	28.27	12.45
111	2008	68	1915	52.64	79.5	12.53	229.6	29.48	12.44
111	2008	68	1930	51.93	80.5	12.16	232.7	25.36	12.44
111	2008	68	1945	50.9	81.9	11.54	237.8	22.76	12.44
111	2008	68	2000	49.9	83.3	11.97	240.4	28.1	12.44
111	2008	68	2015	49.23	83.9	12.41	238.8	25.59	12.44
111	2008	68	2030	49.13	81.3	13.79	244.6	23.18	12.44
111	2008	68	2045	49.55	74.6	16.01	268.3	20.92	12.43
111	2008	68	2100	51.26	60.76	16.08	272.9	17.24	12.43
111	2008	68	2115	50.74	63.53	15.94	276.2	14.54	12.43

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	68	2130	49.78	62.42	18.34	280.7	19.06	12.42
111	2008	68	2145	48.29	65.2	19.08	283.2	17.76	12.41
111	2008	68	2200	46.9	67.39	18.08	286.5	15.9	12.42
111	2008	68	2215	45.89	69.73	17.01	278.3	17.36	12.41
111	2008	68	2230	44.76	68.13	16.4	277.5	16.91	12.41
111	2008	68	2245	43.3	64.75	15.79	285.1	18.42	12.41
111	2008	68	2300	42.08	63.81	17.7	285.1	16.48	12.4
111	2008	68	2315	41.28	63.88	16.5	287.8	16.4	12.39
111	2008	68	2330	40.7	63.12	16.61	286.4	16.77	12.39
111	2008	68	2345	40.26	57.93	17.69	292.7	19.52	12.38
111	2008	68	2400	39.39	54.59	17.21	293.3	14.91	12.38
111	2008	69	15	38.53	53.82	20.22	292.5	16.85	12.38
111	2008	69	30	37.85	54.12	17.82	285.2	17.16	12.37
111	2008	69	45	37.27	53.89	15.58	290.8	14.88	12.37
111	2008	69	100	36.74	50.74	18.99	292.4	17.52	12.36
111	2008	69	115	36.4	50.31	16.42	294.9	18.79	12.36
111	2008	69	130	36.04	47.63	17.44	296.7	19.8	12.35
111	2008	69	145	35.63	46.96	19.1	298	17.08	12.35
111	2008	69	200	35.21	47.94	16.43	297.2	16.48	12.34
111	2008	69	215	34.45	48.41	15.12	288.2	17.98	12.34
111	2008	69	230	33.75	46.06	16.37	301.7	18.04	12.34
111	2008	69	245	32.95	43.05	18.62	299.3	17.31	12.33
111	2008	69	300	32.34	42.58	17.67	307.4	17.42	12.33
111	2008	69	315	32.12	43.82	18.27	304.7	15.53	12.32
111	2008	69	330	31.85	45.73	14.68	305.2	19.12	12.32
111	2008	69	345	31.69	47.78	11.79	301.8	17.88	12.32
111	2008	69	400	31.51	44.33	12.96	301.7	17.03	12.32
111	2008	69	415	31.31	45.6	12.14	299.8	16.54	12.31
111	2008	69	430	31.18	45.47	14.51	297.8	15.62	12.3
111	2008	69	445	30.91	46.34	10.96	301.5	17.71	12.3
111	2008	69	500	30.64	47.68	14.39	299.4	17.08	12.3
111	2008	69	515	30.37	48.62	13.58	299.3	15.38	12.3
111	2008	69	530	30.3	49.29	12.31	301	17.77	12.3
111	2008	69	545	30.26	48.56	12.31	306.8	19.57	12.29
111	2008	69	600	30.22	50.8	12.97	306.8	18.82	12.29
111	2008	69	615	30.05	54.05	9.78	300.7	21.43	12.29
111	2008	69	630	29.88	53.62	9.56	298.4	21.77	12.29
111	2008	69	645	29.84	51.37	10.94	307.4	17.42	12.29
111	2008	69	700	29.75	51.74	11.96	297.4	19.3	12.28
111	2008	69	715	29.62	51.37	11.47	300.8	20.04	12.28
111	2008	69	730	29.64	49.46	11.34	304.5	16.2	12.29
111	2008	69	745	29.81	48.99	11.34	305.6	18.3	12.53
111	2008	69	800	30.03	48.42	11.95	305.5	20.79	13.26
111	2008	69	815	30.24	47.95	13.22	301.7	19.66	13.86
111	2008	69	830	30.45	47.82	13.27	312.6	21.43	13.21
111	2008	69	845	30.79	46.51	11.99	317.1	19.83	13.08
111	2008	69	900	31.05	46.67	12.87	313	22.19	13.84
111	2008	69	915	31.14	44.96	12.69	310	17.28	13.83
111	2008	69	930	31.58	44.66	12.43	311.1	19.69	13.82
111	2008	69	945	31.78	43.68	13.06	322.3	19.68	13.82
111	2008	69	1000	32.1	42.85	12.86	316.5	22.96	13.81
111	2008	69	1015	32.33	40.84	13.07	321	22.85	13.81
111	2008	69	1030	32.57	39.3	13.79	322.3	24.49	13.8
111	2008	69	1045	33.33	39.06	12.44	317.3	20.97	13.79
111	2008	69	1100	33.37	39.96	13.31	310.9	19.72	13.79
111	2008	69	1115	33.56	38.42	13.57	308.8	19.34	13.04
111	2008	69	1130	34.33	40.36	12.04	297.9	23.21	13.78
111	2008	69	1145	34.76	37.98	11.81	302.2	24.74	13.77
111	2008	69	1200	35.3	39.35	11.21	308.6	24.74	13.76
111	2008	69	1215	35.65	37.44	12.55	306.9	23.52	13.75

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	69	1230	35.89	36.2	13.29	309.1	23.46	13.75
111	2008	69	1245	36.65	39.05	11.4	307.7	29.77	13.73
111	2008	69	1300	37.07	37.54	12.72	304.1	24.49	13.73
111	2008	69	1315	37.02	37.04	12.01	308.9	23.18	13.72
111	2008	69	1330	37.26	34.29	12.64	311.4	21.31	13.72
111	2008	69	1345	37.69	32.08	13.34	307.7	20.44	13.31
111	2008	69	1400	38.29	30.91	11.22	316.4	24.83	13.08
111	2008	69	1415	38.75	30.34	12.15	313.7	21.88	12.94
111	2008	69	1430	39.33	28.46	12.67	309.8	29.72	12.89
111	2008	69	1445	39.28	29.43	12.89	295.3	34.26	12.87
111	2008	69	1500	39.93	27.22	9.88	316.2	26.4	12.84
111	2008	69	1515	40.29	26.35	10.86	313.1	23.2	12.83
111	2008	69	1530	40.28	24.71	12	314.4	23.42	12.82
111	2008	69	1545	40.43	25.28	11.35	315.1	21.67	12.81
111	2008	69	1600	40.86	25.88	10.58	300.4	25.56	12.8
111	2008	69	1615	40.72	25.21	10.57	304.8	22.59	12.79
111	2008	69	1630	41.04	24.97	9.89	304.7	21.22	12.78
111	2008	69	1645	41.32	25.44	9.52	312.6	22.29	12.77
111	2008	69	1700	41.61	25.21	9.67	311	20.37	12.76
111	2008	69	1715	41.29	23.2	10.93	316.6	20.2	12.74
111	2008	69	1730	41.41	25.78	8.72	315.3	25.11	12.73
111	2008	69	1745	41.31	24	8.23	309.5	21.73	12.71
111	2008	69	1800	41.53	24.44	7.17	320.4	23.71	12.7
111	2008	69	1815	41.14	26.01	6.879	322.1	21.77	12.69
111	2008	69	1830	40.74	25.65	5.933	328.2	20.87	12.68
111	2008	69	1845	39.9	25.08	5.377	334	22.41	12.67
111	2008	69	1900	39.14	26.45	4.953	340.8	21.43	12.66
111	2008	69	1915	38.69	28.13	4.381	336.8	20.97	12.66
111	2008	69	1930	38.32	27.43	4.275	325.9	18.52	12.63
111	2008	69	1945	38.08	29.07	4.22	334.8	17.88	12.62
111	2008	69	2000	37.51	31.08	1.973	340.3	18.29	12.61
111	2008	69	2015	36.86	31.72	1.98	338.2	16.63	12.61
111	2008	69	2030	36.41	32.5	3.424	347.8	23.14	12.6
111	2008	69	2045	36.47	32.8	5.175	341.2	17.01	12.59
111	2008	69	2100	36.2	34.17	3.972	346.7	18.11	12.58
111	2008	69	2115	35.94	37.35	3.439	342.6	18.68	12.57
111	2008	69	2130	35.37	37.76	3.444	336.5	22.29	12.57
111	2008	69	2145	35.2	38.29	5.25	335.7	19.05	12.55
111	2008	69	2200	35.12	38.46	5.576	348.3	21.16	12.55
111	2008	69	2215	34.85	37.69	4.994	346.1	24.4	12.55
111	2008	69	2230	34.52	36.95	4.544	352.1	31.68	12.54
111	2008	69	2245	34.34	36.92	6.275	332.9	19.43	12.54
111	2008	69	2300	33.99	34.64	7.49	328.8	24.83	12.53
111	2008	69	2315	33.62	35.88	7.27	327.9	19.25	12.53
111	2008	69	2330	33.26	37.59	6.589	326.1	18.82	12.52
111	2008	69	2345	32.89	36.55	7.89	328.6	17.43	12.51
111	2008	69	2400	32.58	37.59	6.146	334.5	21.66	12.51
111	2008	70	15	32.2	39.8	4.851	341.2	24.77	12.5
111	2008	70	30	31.78	41.21	5.105	332.1	20.6	12.49
111	2008	70	45	31.5	40.11	6.543	321.6	20.76	12.5
111	2008	70	100	31.28	38.74	7.37	329	17.96	12.49
111	2008	70	115	31.05	38.74	7.21	320.8	19.76	12.49
111	2008	70	130	30.85	38.84	5.749	313.3	17.16	12.48
111	2008	70	145	30.52	40.25	5.189	327.7	18.57	12.48
111	2008	70	200	30.17	41.52	5.485	331.7	16.48	12.47
111	2008	70	215	29.9	41.25	6.628	328.4	17.66	12.46
111	2008	70	230	29.85	42.36	5.509	336.1	21.49	12.46
111	2008	70	245	29.56	42.23	5.709	345.5	20.89	12.45
111	2008	70	300	29.31	36.63	5.6	344.9	26.02	12.45
111	2008	70	315	29.19	33.68	8.61	332.4	24.54	12.45

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	70	330	28.9	34.08	6.166	331.8	25.61	12.44
111	2008	70	345	28.64	35.22	7	322.3	21.17	12.43
111	2008	70	400	28.44	36.46	7.46	322.9	19.56	12.42
111	2008	70	415	28.28	38.04	7.63	323.7	18	12.42
111	2008	70	430	28.14	39.18	6.656	326.2	21.46	12.42
111	2008	70	445	27.97	39.85	7.04	323.9	21.36	12.41
111	2008	70	500	27.83	39.95	6.763	331.1	18.75	12.41
111	2008	70	515	27.8	39.85	7.89	327.1	17.35	12.4
111	2008	70	530	27.84	39.98	6.908	329	23.28	12.4
111	2008	70	545	27.9	40.18	6.501	325.4	18.57	12.4
111	2008	70	600	27.89	41.42	6.408	327	20.83	12.4
111	2008	70	615	27.75	42.19	5.409	322.2	19.2	12.38
111	2008	70	630	27.39	42.76	4.792	324.2	20.35	12.38
111	2008	70	645	27.06	41.83	6.102	320.5	24.21	12.37
111	2008	70	700	26.89	41.39	6.601	327.6	21.67	12.37
111	2008	70	715	26.67	41.49	7.48	319.2	17.75	12.37
111	2008	70	730	26.59	43.3	6.182	316.7	16.82	12.38
111	2008	70	745	26.67	44.78	4.899	316.9	21.05	12.76
111	2008	70	800	26.81	45.24	6.863	321.1	23.03	13.37
111	2008	70	815	27.09	44.71	6.837	318.3	20.72	13.94
111	2008	70	830	27.4	44.14	7.63	324.5	18.68	13.93
111	2008	70	845	27.77	42.83	7.58	325.3	26.74	13.13
111	2008	70	900	28.3	42.76	7.69	324.7	24.15	13.92
111	2008	70	915	28.89	41.75	6.045	321.9	27.12	13.9
111	2008	70	930	29.52	38.56	7.34	327.2	26.85	13.89
111	2008	70	945	29.87	37.96	7.96	309.8	21.12	13.88
111	2008	70	1000	30.22	36.85	8.28	317.5	23.2	13.87
111	2008	70	1015	30.85	34.71	7.14	324.1	21.6	13.86
111	2008	70	1030	31.59	37.52	6.944	322.6	28.58	13.84
111	2008	70	1045	31.89	36.28	7.72	339.3	31.36	13.83
111	2008	70	1100	32.17	37.15	7.72	304.9	24.45	13.82
111	2008	70	1115	32.41	38.15	7.09	315.8	25.18	13.14
111	2008	70	1130	32.79	41.2	7.97	300.3	21.59	13.81
111	2008	70	1145	33.77	36.98	8.11	326.8	25.74	13.8
111	2008	70	1200	34.24	37.98	6.158	338.5	30	13.78
111	2008	70	1215	35.04	38.28	6.346	310.9	27.48	13.75
111	2008	70	1230	35.73	38.45	8.2	291.3	23.51	13.74
111	2008	70	1245	36.22	38.25	6.988	312.9	24.31	13.73
111	2008	70	1300	36.82	39.48	8.03	293.2	31.77	13.73
111	2008	70	1315	37.23	39.31	7.74	308.2	26.64	13.71
111	2008	70	1330	37.94	38.27	8.72	303.9	23.53	13.7
111	2008	70	1345	37.73	48.68	7.53	282.4	31.89	13.7
111	2008	70	1400	36.55	47.27	9.52	253.8	18.8	13.2
111	2008	70	1415	37.21	46.37	8.35	249.6	25.44	13.05
111	2008	70	1430	37.21	46.44	9.23	255.4	25.7	13.01
111	2008	70	1445	38.11	45.57	9.45	252.4	19.45	13.05
111	2008	70	1500	39.13	44.06	8.87	265.2	21.53	13
111	2008	70	1515	39.97	43.19	9.99	264.8	21.41	13.17
111	2008	70	1530	39.71	51.09	8.43	277.9	23.99	13.11
111	2008	70	1545	39.51	54.57	8.83	250.6	27	13.07
111	2008	70	1600	37.5	56.71	7.53	254.9	20.75	13.01
111	2008	70	1615	38.26	55.61	8.46	253	22.49	13.07
111	2008	70	1630	37.85	59.87	8.78	256.1	23.97	13.07
111	2008	70	1645	38	59.54	8.31	265.5	22.67	13.06
111	2008	70	1700	38.8	59.51	7.73	252.5	25.05	13.07
111	2008	70	1715	38.62	61.08	8.8	264.9	20.36	12.93
111	2008	70	1730	38.75	62.92	8.18	266.8	25.99	12.89
111	2008	70	1745	39.06	64.3	8.62	261.5	20.16	12.82
111	2008	70	1800	39.41	63.33	5.681	259.5	26.55	12.77
111	2008	70	1815	39.44	66.01	6.585	268.2	18.56	12.75

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	70	1830	39.41	67.45	5.258	266.9	22.57	12.73
111	2008	70	1845	39.36	68.99	4.405	261.9	18.92	12.71
111	2008	70	1900	39.58	66.11	3.706	277.9	21.43	12.69
111	2008	70	1915	39.39	65.07	1.492	268.6	27.04	12.68
111	2008	70	1930	39.44	63.83	1.222	319.2	21.75	12.67
111	2008	70	1945	39.24	60.05	1.255	26.93	15.13	12.66
111	2008	70	2000	39.66	52.08	2.816	4.794	22.03	12.65
111	2008	70	2015	39.72	47.33	3.461	0.431	17.89	12.64
111	2008	70	2030	39.48	47.7	2.842	357.7	19.11	12.63
111	2008	70	2045	39.02	48.03	3.72	8.25	20.04	12.63
111	2008	70	2100	38.54	49.67	3.36	16.76	25.31	12.62
111	2008	70	2115	37.75	49.24	3.35	23.94	22.96	12.61
111	2008	70	2130	37.25	48.01	3.481	25.02	23.95	12.61
111	2008	70	2145	36.79	49.04	2.448	14.65	21.46	12.6
111	2008	70	2200	36.32	49.11	2.311	5.493	21.38	12.59
111	2008	70	2215	36.04	49.05	2.804	7.18	19.21	12.58
111	2008	70	2230	35.57	49.61	2.197	352.8	17.75	12.58
111	2008	70	2245	35.1	51.26	0.874	350.4	14.5	12.58
111	2008	70	2300	34.15	55.78	0.724	289.1	10.14	12.56
111	2008	70	2315	32.81	61.78	0.116	271.7	1.565	12.56
111	2008	70	2330	32.33	60.01	na	na	na	12.56
111	2008	70	2345	32.38	61.55	0.009	255.9	0.007	12.54
111	2008	70	2400	32.51	62.06	na	na	na	12.54
111	2008	71	15	32.39	64.13	na	na	na	12.53
111	2008	71	30	32.46	63.93	na	na	na	12.53
111	2008	71	45	32.39	67.45	0.52	226.1	6.436	12.52
111	2008	71	100	31.86	70.8	na	na	na	12.52
111	2008	71	115	31.98	65.98	0.625	23.56	3.68	12.52
111	2008	71	130	31.95	68.33	na	na	na	12.51
111	2008	71	145	32.15	67.46	na	na	na	12.51
111	2008	71	200	32.27	68.16	na	na	na	12.5
111	2008	71	215	32.14	69.36	0.074	15.44	1.415	12.5
111	2008	71	230	32.01	69.6	0.433	357.2	8.32	12.49
111	2008	71	245	31.15	71.5	0.099	287.5	0.749	12.49
111	2008	71	300	30.49	73.9	0.05	269	1.798	12.48
111	2008	71	315	30.45	75.6	0.056	280.2	0.737	12.47
111	2008	71	330	30.62	74.2	0.152	3.828	1.27	12.47
111	2008	71	345	30.86	72.8	0	0	0	12.47
111	2008	71	400	31.09	74.5	0.452	288.7	3.935	12.46
111	2008	71	415	31.58	73.5	0.215	40.6	5.695	12.46
111	2008	71	430	32.04	71.9	0.677	323.7	27.1	12.46
111	2008	71	445	32.62	66.39	1.445	12.33	19.74	12.46
111	2008	71	500	33.13	62.26	1.489	1.466	15.71	12.47
111	2008	71	515	33.1	64.97	0.063	347.3	2.029	12.46
111	2008	71	530	32.52	66.41	na	na	na	12.45
111	2008	71	545	32.18	68.51	na	na	na	12.45
111	2008	71	600	31.93	68.65	0.151	338	4.853	12.45
111	2008	71	615	31.45	71.4	0.307	297.2	7.02	12.44
111	2008	71	630	30.11	74.2	0.009	322.7	0	12.43
111	2008	71	645	30.05	75.3	0.036	340.9	1.037	12.42
111	2008	71	700	30.39	73.2	0.468	348.6	6.443	12.4
111	2008	71	715	30.08	73.1	0.613	6.135	10.86	12.42
111	2008	71	730	31	68.23	1.444	16.09	19.79	12.41
111	2008	71	745	31.82	66.42	1.506	11.51	21.77	12.46
111	2008	71	800	32.71	63	1.875	38.55	31.38	12.76
111	2008	71	815	33.25	61.29	1.986	34.39	22.41	12.82
111	2008	71	830	34.09	60.48	2.629	42.96	29.22	13.89
111	2008	71	845	34.63	60.24	3.805	56.59	27.25	13.64
111	2008	71	900	35.81	57.02	3.009	37.81	36.07	13.86
111	2008	71	915	36.04	58.73	3.402	43.05	34.75	13.84

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	71	930	37.08	58.19	2.479	64	41.53	13.81
111	2008	71	945	37.47	56.53	2.907	56.56	42.69	13.79
111	2008	71	1000	37.65	56.53	2.595	94.2	63.17	13.78
111	2008	71	1015	38.39	56.73	2.293	63.62	48.62	13.76
111	2008	71	1030	38.74	55.59	2.822	63.82	60.69	13.74
111	2008	71	1045	38.89	56.05	3.64	24.19	30.59	13.65
111	2008	71	1100	38.99	53.67	2.258	181.4	41.45	13.71
111	2008	71	1115	39	57.35	3.282	267.8	60.32	13.7
111	2008	71	1130	39.25	56.65	4.456	187.1	35.14	13.69
111	2008	71	1145	38.61	57.11	5.427	194.5	30.17	13.69
111	2008	71	1200	38.84	56.48	4.895	195.2	26.8	13.7
111	2008	71	1215	39.53	59.02	5.894	179.9	27.04	13.68
111	2008	71	1230	39.13	58.65	6.551	173	23.9	13.67
111	2008	71	1245	38.63	60.93	6.454	171.9	18.17	13.67
111	2008	71	1300	38.57	61.13	5.032	196	26.49	13.69
111	2008	71	1315	39.5	60.43	6.378	177.6	24.62	13.69
111	2008	71	1330	39.73	60.53	6.386	208.9	27.33	13.67
111	2008	71	1345	40.18	58.25	5.671	195.1	28.34	13.66
111	2008	71	1400	40.68	58.32	6.072	198.2	29.66	13.57
111	2008	71	1415	40.2	60.13	6.684	192.1	25.54	13.16
111	2008	71	1430	41.01	58.29	5.669	194.4	31.32	13.05
111	2008	71	1445	40.81	59.89	7.11	187.1	24.26	13.04
111	2008	71	1500	41.04	57.42	6.503	199.3	24.4	13
111	2008	71	1515	41.22	56.75	6.458	187.4	23.91	12.96
111	2008	71	1530	40.65	57.88	6.418	217.5	32.79	12.95
111	2008	71	1545	41.01	58.05	5.437	201	31.93	12.91
111	2008	71	1600	40.93	58.79	5.955	201.3	29.83	12.89
111	2008	71	1615	40.59	58.32	6.023	202.5	25.84	12.87
111	2008	71	1630	40.89	58.39	5.036	193.4	37.76	12.85
111	2008	71	1645	40.8	59.52	5.264	202.5	24.6	12.83
111	2008	71	1700	40.37	61.73	5.713	223.6	30.04	12.81
111	2008	71	1715	40.42	61.63	5.099	223.2	35.41	12.79
111	2008	71	1730	40.01	63.48	5.248	210.9	25.64	12.77
111	2008	71	1745	39.75	64.71	5.923	217.4	28.87	12.73
111	2008	71	1800	39.41	63.48	5.278	215.3	26.5	12.71
111	2008	71	1815	39.43	64.62	4.208	234.9	28.19	12.7
111	2008	71	1830	38.93	67.91	4.593	226.3	23.49	12.68
111	2008	71	1845	38.38	70.2	4.357	241.2	26.28	12.68
111	2008	71	1900	38.03	71.8	4.081	247.7	19.49	12.67
111	2008	71	1915	37.85	73.1	4.125	245	20.34	12.66
111	2008	71	1930	37.8	73.7	3.932	244	18.41	12.64
111	2008	71	1945	37.73	74.4	2.969	250.2	19.75	12.63
111	2008	71	2000	37.75	74.7	2.635	249.2	28.32	12.63
111	2008	71	2015	38	74.9	3.287	242.2	26.4	12.61
111	2008	71	2030	37.97	75.8	2.723	240.1	19.76	12.61
111	2008	71	2045	37.87	76.2	2.683	250.1	21.7	12.6
111	2008	71	2100	38.07	77.3	3.718	237.7	25.83	12.58
111	2008	71	2115	38.27	78.6	3.501	237.5	20.98	12.59
111	2008	71	2130	38.15	79.8	2.229	251.5	25.73	12.57
111	2008	71	2145	37.98	80.7	1.38	253.6	17.5	12.57
111	2008	71	2200	37.68	82.1	1.598	216	24.97	12.56
111	2008	71	2215	37.68	83.4	1.665	229.7	25.02	12.55
111	2008	71	2230	37.69	84.5	2.123	240.5	21.17	12.55
111	2008	71	2245	37.83	85.1	2.145	247.4	24.62	12.55
111	2008	71	2300	38.09	86.1	2.852	234.6	22.56	12.55
111	2008	71	2315	38.31	86.5	2.312	236.1	26.62	12.54
111	2008	71	2330	38.23	87.7	1.938	236.2	20.94	12.54
111	2008	71	2345	38.38	88.7	1.982	249.4	22.41	12.53
111	2008	71	2400	38.52	89.2	3.201	252.2	23.61	12.53
111	2008	72	15	38.82	89.4	3.1	245.1	24.11	12.53

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	72	30	39.03	89.9	3.412	241.8	21.66	12.52
111	2008	72	45	39.28	90.2	4.196	239.2	19.18	12.52
111	2008	72	100	39.79	90.1	4.136	234.3	24.33	12.52
111	2008	72	115	40.08	90.2	4.091	239.9	23.15	12.51
111	2008	72	130	40.18	90.3	3.68	243.8	25.73	12.52
111	2008	72	145	40.05	91	3.741	240.1	25.3	12.52
111	2008	72	200	39.88	91.3	3.209	242.6	27.54	12.51
111	2008	72	215	39.76	91.5	3.517	239.6	20.21	12.51
111	2008	72	230	39.68	91.5	2.482	241.5	25.32	12.51
111	2008	72	245	39.63	92	3.38	242.8	21.29	12.5
111	2008	72	300	39.66	91.9	3.154	247.3	21.76	12.49
111	2008	72	315	39.76	91.8	3.094	243.5	26.77	12.49
111	2008	72	330	39.89	91.6	2.798	244.7	22.99	12.49
111	2008	72	345	40.14	90.7	3.297	248.5	21.4	12.48
111	2008	72	400	40.32	90.1	2.783	249.1	26.73	12.47
111	2008	72	415	40.48	89.7	3.103	248.2	21.73	12.47
111	2008	72	430	40.6	89.6	2.999	239	27.45	12.47
111	2008	72	445	40.76	89.6	2.582	234.2	23.47	12.46
111	2008	72	500	40.95	90	3.416	241.1	22.7	12.47
111	2008	72	515	41.08	90.1	3.205	235.4	20.08	12.47
111	2008	72	530	41.1	90.5	2.516	241.3	25.55	12.46
111	2008	72	545	41.12	91	2.59	240.9	24.43	12.46
111	2008	72	600	41.41	90.8	2.403	239.8	27.28	12.46
111	2008	72	615	41.88	90	4.117	267	24	12.46
111	2008	72	630	41.93	90.7	4.234	262.6	18.64	12.45
111	2008	72	645	41.91	91.2	5.447	267.2	22.12	12.45
111	2008	72	700	41.87	91	5.465	269.5	19.64	12.45
111	2008	72	715	41.75	89.1	5.916	278.2	14.79	12.45
111	2008	72	730	41.47	86.9	6.051	278.3	16.58	12.45
111	2008	72	745	41.1	87	4.651	259.7	19	12.45
111	2008	72	800	40.9	87.2	5.459	270.8	16.52	12.45
111	2008	72	815	40.83	87.6	5.562	270	21.25	12.45
111	2008	72	830	40.82	87.2	6.11	274	22.57	12.45
111	2008	72	845	40.86	87	5.671	281.8	16.86	12.45
111	2008	72	900	41.12	85.5	7.46	291.2	18.05	12.49
111	2008	72	915	41.36	77.4	6.444	287.5	20.75	12.54
111	2008	72	930	41.74	75.3	6.519	281.6	20.46	12.53
111	2008	72	945	42.34	72.6	7.44	288.8	20.23	12.79
111	2008	72	1000	43.47	61.45	9.93	290.6	22.24	13.48
111	2008	72	1015	44.16	54.07	10.14	302.9	22.75	13.48
111	2008	72	1030	44.41	53.4	10.57	309.7	20.23	13.64
111	2008	72	1045	44.7	48.81	10.48	327.5	25.61	13.63
111	2008	72	1100	45.07	46	10.75	318.7	23.95	13.62
111	2008	72	1115	45.21	44.19	11.15	315	20.73	13.33
111	2008	72	1130	46.06	42.98	10.56	320.3	22.54	13.62
111	2008	72	1145	45.75	42.58	11.16	320.6	20.08	13.62
111	2008	72	1200	46.06	42.31	8.65	323.1	23.38	13.35
111	2008	72	1215	45.78	40.9	10.77	318.1	19.33	13.35
111	2008	72	1230	46.02	40.7	11.73	318.5	23.29	13.63
111	2008	72	1245	45.84	42.57	11.55	316.5	21.97	13.33
111	2008	72	1300	45.33	42.38	11.34	324.5	20.52	13.28
111	2008	72	1315	45.8	42.31	11.26	319.4	21.99	13.25
111	2008	72	1330	46.58	40.47	12.17	322.6	21.28	13.6
111	2008	72	1345	45.87	43.78	12.17	323.1	20.59	13.61
111	2008	72	1400	45.28	40.16	10.64	327.4	21	13.27
111	2008	72	1415	46.86	35.21	9.78	339.4	27.31	13.62
111	2008	72	1430	47.43	33.77	12.71	329.8	23.77	13.6
111	2008	72	1445	46.98	34.51	11.05	328.7	25.67	13.22
111	2008	72	1500	47.72	33.87	11.76	319.2	24.9	13.58
111	2008	72	1515	47.25	35.94	11.56	316.8	22.37	13.5

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	72	1530	46.89	36.61	11.52	330.4	20.46	13.6
111	2008	72	1545	46.07	37.72	14.63	320.9	21.54	13.08
111	2008	72	1600	45.94	38.82	10.69	337.5	26.72	13
111	2008	72	1615	45.58	43.11	11.26	347.4	26.8	12.94
111	2008	72	1630	45.42	44.96	10.34	339.1	24.8	12.89
111	2008	72	1645	44.16	47.1	13.09	338.3	21.57	12.82
111	2008	72	1700	43.31	46.57	13.73	334	24.17	12.8
111	2008	72	1715	43.55	46.63	11.68	321.8	19.15	12.79
111	2008	72	1730	43.82	43.09	10.8	328.6	24.53	12.77
111	2008	72	1745	43.77	41.88	11.49	333.1	24.62	12.74
111	2008	72	1800	43.58	41.01	11.38	331.2	21.95	12.73
111	2008	72	1815	43.17	37.73	12.9	326.4	20.08	12.71
111	2008	72	1830	42.67	38	12.55	328.4	19.44	12.7
111	2008	72	1845	42.15	40.28	8.87	334.3	26.37	12.69
111	2008	72	1900	41.38	42.96	9.9	328.3	20.59	12.68
111	2008	72	1915	40.81	44.04	9.34	333.9	19.83	12.67
111	2008	72	1930	40.33	46.05	9.31	330.6	18.42	12.66
111	2008	72	1945	39.77	46.35	9.86	330.1	22.28	12.65
111	2008	72	2000	39.39	45.95	9.07	331.3	19.83	12.64
111	2008	72	2015	39.22	44.24	9.61	334.6	22.35	12.63
111	2008	72	2030	39.04	44.57	8.42	341.9	22.5	12.62
111	2008	72	2045	38.62	46.99	6.217	335.6	20.47	12.61
111	2008	72	2100	38.25	47.69	7.48	337.7	18.74	12.61
111	2008	72	2115	38.02	48.33	8.56	336.3	17.61	12.6
111	2008	72	2130	37.73	49.51	7.1	345.6	20.25	12.59
111	2008	72	2145	37.47	49.98	7.62	336.9	24.11	12.59
111	2008	72	2200	37.2	48.17	7.66	338.1	21.56	12.58
111	2008	72	2215	36.95	47.47	9.25	343.7	19.85	12.58
111	2008	72	2230	36.59	48.21	7.55	352.7	21.78	12.57
111	2008	72	2245	36.33	50.58	6.265	335.8	21.22	12.57
111	2008	72	2300	35.94	52.63	4.774	338.5	20.81	12.55
111	2008	72	2315	35.46	54.54	4.659	325	23.21	12.55
111	2008	72	2330	35.07	52.09	5.566	342.5	19.04	12.55
111	2008	72	2345	34.93	51.73	5.902	338.6	16.07	12.54
111	2008	72	2400	34.79	51.26	5.459	322.6	16.75	12.53
111	2008	73	15	34.52	51.93	5.52	331.3	18.96	12.52
111	2008	73	30	34.25	52.03	4.891	325	22.34	12.52
111	2008	73	45	34.01	52.86	4.212	331.3	25.51	12.52
111	2008	73	100	33.78	52.93	3.213	326.7	24.53	12.52
111	2008	73	115	33.35	54.31	3.404	331.7	19.29	12.51
111	2008	73	130	33.01	56.35	2.063	309.4	25.37	12.5
111	2008	73	145	32.59	57.5	2.82	322.6	16.95	12.5
111	2008	73	200	32.24	58.71	2.78	305.1	16.77	12.49
111	2008	73	215	31.95	60.25	3.465	302.8	23.83	12.48
111	2008	73	230	31.8	59.98	3.888	313.6	16.71	12.48
111	2008	73	245	31.6	58.88	3.444	303.1	21.39	12.48
111	2008	73	300	31.56	58.21	3.362	328.9	18.62	12.46
111	2008	73	315	31.38	58.71	3.406	335	20.02	12.45
111	2008	73	330	31.39	57.97	3.749	328.9	18.48	12.45
111	2008	73	345	31.13	58.48	3.697	335.6	17.86	12.45
111	2008	73	400	31.02	59.01	3.362	332.5	25.26	12.44
111	2008	73	415	30.77	59.62	3.142	351.1	18.98	12.44
111	2008	73	430	30.82	60.56	2.58	345.9	17.94	12.43
111	2008	73	445	30.78	61.39	1.39	286.7	31.36	12.43
111	2008	73	500	30.88	61.02	2.8	359.2	20.79	12.42
111	2008	73	515	31.05	61.73	0.922	23.39	21.52	12.42
111	2008	73	530	31.06	62.23	0.768	1.786	26.4	12.42
111	2008	73	545	31.02	62.63	1.035	29.39	19.52	12.41
111	2008	73	600	31.25	63.17	0.535	346.6	30.26	12.41
111	2008	73	615	30.98	62.43	0.458	341.7	10.61	12.39

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	73	630	30.4	66.15	0.811	312.1	11.68	12.39
111	2008	73	645	30.08	67.26	1.551	336.2	26.43	12.39
111	2008	73	700	29.73	67.09	0.692	311.2	16.23	12.38
111	2008	73	715	29.14	69.81	1.212	306.7	12.2	12.38
111	2008	73	730	29.35	66.99	1.075	352.2	11.38	12.38
111	2008	73	745	30.11	62.77	0.536	356	12.51	13.53
111	2008	73	800	31.47	58.11	2.123	9.65	24.76	13.93
111	2008	73	815	32.2	55.49	3.393	8.14	24.36	13.91
111	2008	73	830	32.98	54.24	3.42	6.415	27.03	13.89
111	2008	73	845	33.58	52.1	3.342	38.42	28.95	13.2
111	2008	73	900	34.35	50.08	4.117	45.42	28.01	13.85
111	2008	73	915	34.78	49.11	3.976	44.46	29.92	13.84
111	2008	73	930	35.59	46.59	3.88	54.24	31.16	13.82
111	2008	73	945	36.46	43.81	2.725	13.1	39.77	13.8
111	2008	73	1000	36.69	44.58	2.957	50.01	56.87	13.78
111	2008	73	1015	37.14	40.05	3.322	10.97	41.31	13.76
111	2008	73	1030	37.51	35.63	4.063	19.68	29.46	13.75
111	2008	73	1045	37.51	32.85	3.463	25.69	40.11	13.73
111	2008	73	1100	37.83	31.67	2.919	337.7	54.18	13.72
111	2008	73	1115	38.64	30.6	3.857	324.1	49.93	13.72
111	2008	73	1130	38.8	29.33	2.83	1.709	56.03	13.71
111	2008	73	1145	39.51	30.97	2.537	271.8	60.52	13.69
111	2008	73	1200	39.92	37.33	4.301	209.6	32	13.67
111	2008	73	1215	40.1	38	5.663	202.4	28.21	13.67
111	2008	73	1230	40.04	44.49	5.524	223.2	32.42	13.66
111	2008	73	1245	39.42	44.76	6.283	224.5	29.24	13.65
111	2008	73	1300	39.25	47.34	6.626	235.2	31.78	13.65
111	2008	73	1315	38.91	46.2	7.24	235	30.97	13.64
111	2008	73	1330	38.96	47	6.795	225.3	29.64	13.64
111	2008	73	1345	39.02	42.22	6.861	233.4	29.39	13.65
111	2008	73	1400	38.92	46.2	6.896	208	30.14	13.64
111	2008	73	1415	38.5	51.49	6.491	223.6	29.11	13.65
111	2008	73	1430	38.45	54.37	5.951	202	30.11	13.66
111	2008	73	1445	38.22	55.31	7.13	213.1	28.16	13.67
111	2008	73	1500	38.89	55.88	7.09	190.3	30.25	13.2
111	2008	73	1515	38.71	57.75	7.18	201.9	29.48	13.64
111	2008	73	1530	39.05	58.55	6.374	193	31.68	13.18
111	2008	73	1545	38.65	61.67	7.52	205.4	29.77	13.21
111	2008	73	1600	39.41	60.43	6.466	192.9	30.97	13.1
111	2008	73	1615	39.87	61.64	7.02	201.9	24.65	13.1
111	2008	73	1630	39.83	64.18	7.34	210.3	25.73	12.99
111	2008	73	1645	39.05	64.61	6.094	197.4	26.86	13.01
111	2008	73	1700	38.75	65.29	6.996	203.7	22.8	13.01
111	2008	73	1715	38.87	66	6.595	201.8	28.57	12.89
111	2008	73	1730	38.95	65.5	6.92	209.5	27.64	12.85
111	2008	73	1745	39.23	66.41	7.04	212	25.3	12.82
111	2008	73	1800	39.27	67.11	6.327	203.7	24.18	12.76
111	2008	73	1815	39.38	69.19	7.41	213	28.59	12.73
111	2008	73	1830	39.37	69.02	5.946	217	30.63	12.72
111	2008	73	1845	39.53	69.96	5.457	217.8	23.57	12.71
111	2008	73	1900	39.6	69.73	4.955	232.2	27.47	12.69
111	2008	73	1915	39.48	70.9	4.901	223.2	22.9	12.69
111	2008	73	1930	39.49	70.9	4.714	220.7	24.99	12.67
111	2008	73	1945	39.52	72	4.456	228.1	27.07	12.66
111	2008	73	2000	39.8	71.3	5.856	223.8	22.45	12.66
111	2008	73	2015	40.08	71.4	5.955	227.9	24.8	12.65
111	2008	73	2030	40.19	72.6	5.203	243.7	24.53	12.65
111	2008	73	2045	40.22	72.4	4.829	245	25.2	12.64
111	2008	73	2100	40.23	73.4	4.158	238.6	25	12.63
111	2008	73	2115	40.26	75	4.47	233	22.26	12.63

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	73	2130	40.28	75.6	4.839	230.2	26.04	12.63
111	2008	73	2145	40.26	76.7	4.339	225.9	22.55	12.62
111	2008	73	2200	40.23	77.9	4.379	231.4	26.42	12.62
111	2008	73	2215	40.15	78.9	3.708	234.5	23.58	12.61
111	2008	73	2230	39.97	79.6	3.138	229.2	23.82	12.61
111	2008	73	2245	39.91	80	2.592	219.2	28.02	12.61
111	2008	73	2300	39.79	80.6	2.479	222.5	25.18	12.59
111	2008	73	2315	39.56	81.8	0.7	221.3	14.49	12.59
111	2008	73	2330	39.36	83.3	0.827	199	17.02	12.59
111	2008	73	2345	39.4	84.4	1.416	184.5	15.39	12.58
111	2008	73	2400	39.44	85.6	1.131	180.9	17.79	12.57
111	2008	74	15	39.37	86.3	1.144	174.3	17.21	12.57
111	2008	74	30	39.38	86.7	0.924	181.6	14.59	12.57
111	2008	74	45	39.39	87.4	0.688	165.1	15.21	12.56
111	2008	74	100	39.65	87.8	0.991	165	17.47	12.56
111	2008	74	115	39.57	88	0.999	170.4	13.18	12.56
111	2008	74	130	39.47	88.7	0.811	170.6	12.58	12.55
111	2008	74	145	39.48	89.1	0.719	178.7	17.84	12.55
111	2008	74	200	39.07	89.4	0.268	225.3	17.28	12.55
111	2008	74	215	38.53	89.6	0	0	0	12.53
111	2008	74	230	37.41	90.2	0.321	308.6	3.631	12.53
111	2008	74	245	36.9	90.2	0	0	0	12.53
111	2008	74	300	36.45	90.6	0.222	37.86	5.467	12.51
111	2008	74	315	36.1	91.1	0.756	25.14	13.26	12.51
111	2008	74	330	35.88	91.5	0.281	42.4	11.62	12.51
111	2008	74	345	35.72	91.7	0.035	17.21	1.757	12.5
111	2008	74	400	35.62	92	0.909	46.34	15.45	12.5
111	2008	74	415	35.83	92.3	1.391	46.5	19.43	12.49
111	2008	74	430	35.97	92.3	1.978	40.3	31.18	12.49
111	2008	74	445	36.05	92.2	2.045	37.93	29.57	12.48
111	2008	74	500	36.25	91.9	3.217	40.73	26.67	12.47
111	2008	74	515	36.78	90.5	3.535	46.58	23.05	12.47
111	2008	74	530	37.22	89.1	3.06	47.98	26.53	12.47
111	2008	74	545	37.46	88.3	2.391	57.95	24.58	12.47
111	2008	74	600	37.56	88.1	2.226	54.05	23.48	12.46
111	2008	74	615	37.64	87.9	2.724	87.8	29.68	12.46
111	2008	74	630	37.78	87.6	2.804	82.6	30.05	12.45
111	2008	74	645	37.88	87.4	2.286	58.16	32	12.45
111	2008	74	700	37.83	87.6	2.379	72.1	30.96	12.45
111	2008	74	715	37.97	87.3	1.768	57.35	31.71	12.45
111	2008	74	730	38.29	86.6	2.498	36.51	25.68	12.44
111	2008	74	745	38.62	86.1	2.098	41.85	28.49	12.44
111	2008	74	800	38.91	85.2	1.459	66.08	45.24	12.43
111	2008	74	815	39.28	84.7	2.923	49.25	38.18	12.43
111	2008	74	830	39.74	84.1	2.636	57.13	85.4	12.43
111	2008	74	845	40.06	83.4	2.499	38.2	49.78	12.43
111	2008	74	900	40.56	82.8	2.065	61.76	86.2	12.45
111	2008	74	915	40.7	83.6	3.438	74.6	35.05	12.45
111	2008	74	930	41.38	82.5	2.017	81.4	61.42	12.51
111	2008	74	945	42.71	80.4	2.471	161.8	70	13.16
111	2008	74	1000	43.7	78.5	3.555	148.7	28.59	13.62
111	2008	74	1015	43.8	79.3	4.039	154	38.55	13.24
111	2008	74	1030	44.17	78.9	4.403	181.1	45.44	13.6
111	2008	74	1045	44.51	76.9	4.297	191.4	31.56	13.23
111	2008	74	1100	44.41	75.8	3.682	157.5	22.38	13.68
111	2008	74	1115	45.31	73.1	3.813	171.1	25.71	13.66
111	2008	74	1130	46.54	68.23	3.872	158.3	29.83	13.62
111	2008	74	1145	47.72	66.04	3.565	125.8	39.46	13.6
111	2008	74	1200	48.68	61.05	3.484	107.8	39.21	13.59
111	2008	74	1215	49.02	62.79	3.499	86.5	44.61	13.58

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	74	1230	49.47	61.31	3.336	99.8	37.85	13.38
111	2008	74	1245	50.14	58.4	3.408	98	44.79	13.57
111	2008	74	1300	52.54	50.53	5.82	131.9	29.25	13.54
111	2008	74	1315	53.99	50.33	5.387	120.4	30.44	13.51
111	2008	74	1330	53.72	53.13	5.169	156.8	27.04	13.41
111	2008	74	1345	53.47	51.62	6.692	157.4	22.61	13.48
111	2008	74	1400	52.58	51.59	6.795	159.5	16.1	13.49
111	2008	74	1415	53.13	48.88	7.09	168.4	20.25	13.35
111	2008	74	1430	52.56	50.42	5.542	166	22.24	13.12
111	2008	74	1445	51.23	55.1	5.739	165.5	18.45	13.07
111	2008	74	1500	51.61	49.85	5.409	152.1	19.55	13.53
111	2008	74	1515	51.57	54.04	5.937	164	28.87	13.53
111	2008	74	1530	49.87	55.96	6.047	155.4	22.19	13.54
111	2008	74	1545	50.39	49.7	4.71	137	32.76	13.55
111	2008	74	1600	51.25	48.96	5.804	106.4	26.13	13.43
111	2008	74	1615	51.57	47.39	5.729	112.4	27	13.18
111	2008	74	1630	52.22	48.03	6.356	124.5	20.03	13.12
111	2008	74	1645	51.22	53.95	8.13	131.1	17.14	13.01
111	2008	74	1700	49.47	57.6	6.13	133.4	19.67	12.94
111	2008	74	1715	49.5	58.67	6.523	128.4	19.83	12.89
111	2008	74	1730	48.69	64.19	6.215	141.2	20.56	12.84
111	2008	74	1745	47.64	63.12	6.356	140.3	21.53	12.82
111	2008	74	1800	46.96	63.79	6.974	137.8	21.64	12.77
111	2008	74	1815	46.24	64.79	6.138	129.8	19.91	12.75
111	2008	74	1830	46.1	61.99	6.396	114.8	18.83	12.74
111	2008	74	1845	46.46	59.05	6.72	111.7	19.17	12.72
111	2008	74	1900	46.84	59.02	5.584	98.1	23.83	12.71
111	2008	74	1915	46.67	57.75	4.345	102.1	24.41	12.7
111	2008	74	1930	46.56	58.05	4.79	111.3	25.15	12.69
111	2008	74	1945	46.27	59.49	4.613	124.6	20.31	12.68
111	2008	74	2000	45.94	63.01	5.016	122.1	22.36	12.67
111	2008	74	2015	45.8	65.52	6.072	117.8	18.65	12.66
111	2008	74	2030	45.66	69	6.194	111.5	20.53	12.66
111	2008	74	2045	45.72	72.6	7.94	116.4	15.44	12.66
111	2008	74	2100	45.72	75	6.452	110.4	20.24	12.65
111	2008	74	2115	45.81	74.5	7.12	114	20	12.65
111	2008	74	2130	45.85	75.1	6.972	117.5	19.69	12.64
111	2008	74	2145	45.77	76.7	7.92	118.4	20.41	12.64
111	2008	74	2200	45.56	78.7	7.23	121.3	19.96	12.64
111	2008	74	2215	45.18	79.8	7.88	116.1	19.85	12.64
111	2008	74	2230	45.17	79.7	6.753	104.3	26.43	12.63
111	2008	74	2245	45.36	79.1	5.01	96.5	28.92	12.63
111	2008	74	2300	45.41	78.7	5.316	85.3	27.7	12.63
111	2008	74	2315	45.34	78	4.827	77.3	27.31	12.62
111	2008	74	2330	45.38	78.6	5.167	89.3	24.72	12.62
111	2008	74	2345	45.21	79.6	5.624	86	25.02	12.62
111	2008	74	2400	44.96	78.2	6.289	94	24.77	12.61
111	2008	75	15	44.5	80.7	4.788	74.9	31.97	12.6
111	2008	75	30	43.88	79.3	4.988	87.2	26.54	12.6
111	2008	75	45	44.11	81.5	5.882	96.9	25.06	12.6
111	2008	75	100	43.01	83.8	6.472	98.1	24.57	12.59
111	2008	75	115	42.5	84.8	6.587	98.2	20.17	12.59
111	2008	75	130	42.2	85.7	6.658	93.1	24.74	12.59
111	2008	75	145	42.09	86.2	6.344	93.6	24.55	12.58
111	2008	75	200	42.13	86.6	6.473	105.7	24.55	12.57
111	2008	75	215	42.16	87.2	7.02	107.9	22.75	12.56
111	2008	75	230	42.24	88	5.582	92.1	29.55	12.56
111	2008	75	245	42.35	88.8	6.136	101.7	27.32	12.56
111	2008	75	300	42.53	89.5	6.384	105.1	23.97	12.56
111	2008	75	315	42.52	89.8	6.301	95.4	27.67	12.56

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	75	330	42.34	90.1	4.542	100.8	23.22	12.55
111	2008	75	345	42.24	90.8	3.394	69.41	33.66	12.55
111	2008	75	400	42.05	91.8	4.242	77.3	22.22	12.54
111	2008	75	415	41.91	92.4	3.01	60.35	43.15	12.54
111	2008	75	430	41.84	92.8	3.439	86.3	29.03	12.53
111	2008	75	445	41.77	93.5	3.404	101.3	27.14	12.53
111	2008	75	500	41.71	93.8	3.38	83.8	23.52	12.53
111	2008	75	515	41.52	94	4.281	70.8	24.24	12.52
111	2008	75	530	41.35	94.1	3.759	39.02	31.47	12.51
111	2008	75	545	41.07	94.3	4.329	31.34	24.43	12.51
111	2008	75	600	40.64	94.2	5.931	31.91	28.37	12.5
111	2008	75	615	40.13	94.2	5.111	36.69	28.12	12.5
111	2008	75	630	39.91	93.6	7.52	53.88	26.09	12.49
111	2008	75	645	39.88	93.4	5.922	49.13	32.51	12.49
111	2008	75	700	39.5	93.1	5.951	41.9	33.29	12.48
111	2008	75	715	39.39	92.4	6.505	33.4	27.5	12.47
111	2008	75	730	39.34	90.9	7.64	39.83	25.47	12.47
111	2008	75	745	39.39	89.8	6.791	36.84	33.79	12.47
111	2008	75	800	39.43	88.8	7.37	28.58	28.88	12.46
111	2008	75	815	39.35	88	6.704	37.58	24.39	12.45
111	2008	75	830	39.34	86.8	7.54	37.72	28.56	12.45
111	2008	75	845	39.41	85.9	7.9	37.67	25.73	12.49
111	2008	75	900	39.76	85.5	6.231	42.46	29.73	12.53
111	2008	75	915	40.04	84.8	6.96	35.3	26.31	12.77
111	2008	75	930	40.17	83.2	7.8	36.34	26.51	12.85
111	2008	75	945	40.48	81.8	6.779	39.66	28.77	12.99
111	2008	75	1000	40.81	79.7	7.63	37.77	25.47	13.29
111	2008	75	1015	41.01	79.2	8.38	38.26	24.34	13.71
111	2008	75	1030	41.39	77.5	7.65	41.44	26.5	13.13
111	2008	75	1045	41.14	77.3	8.24	36.97	25.35	13.11
111	2008	75	1100	41.85	75.5	7.96	37.27	28.2	13.69
111	2008	75	1115	42.65	72.6	7.53	44.65	28.07	13.69
111	2008	75	1130	42.41	73.1	8.75	43.82	27.99	13.69
111	2008	75	1145	43.21	72.7	7.85	50.27	31.76	13.67
111	2008	75	1200	43.88	68.66	7.74	45.68	35.22	13.66
111	2008	75	1215	44.57	67.16	7.44	46.94	31.4	13.65
111	2008	75	1230	45.1	67.59	6.958	45.04	27.37	13.64
111	2008	75	1245	44.88	66.72	6.89	38.34	28.77	13.64
111	2008	75	1300	45.05	67.75	6.122	29.68	27.14	13.64
111	2008	75	1315	44.66	67.82	5.675	18.8	29.65	13.64
111	2008	75	1330	44.78	67.16	6.62	24.46	28.17	13.64
111	2008	75	1345	45.34	64.44	5.638	19.34	29.91	13.64
111	2008	75	1400	47.07	63.2	5.568	75.5	32.29	13.29
111	2008	75	1415	48.43	61.78	4.339	46.23	44.28	13.06
111	2008	75	1430	49.06	59.87	5.51	38.52	29.95	12.96
111	2008	75	1445	50.45	56.23	4.639	25.69	34.82	12.95
111	2008	75	1500	50.97	56.36	5.201	16.44	40.09	13
111	2008	75	1515	50.67	58.46	6.428	11.6	28.23	13.08
111	2008	75	1530	50.35	56.72	5.866	21.68	27.37	13.07
111	2008	75	1545	51.31	54.08	6.434	23.06	32.25	13.03
111	2008	75	1600	51.28	54.21	6.712	35.42	32.96	12.95
111	2008	75	1615	50.76	56.31	6.565	34.4	34.29	12.89
111	2008	75	1630	50.65	57.15	6.066	44.98	27.12	12.89
111	2008	75	1645	50.24	58.78	6.279	74.7	29.37	12.84
111	2008	75	1700	49.23	59.83	5.838	73.1	29.69	12.82
111	2008	75	1715	48.57	61.47	5.725	83.4	27.45	12.81
111	2008	75	1730	47.6	62.18	4.976	96.7	27.96	12.8
111	2008	75	1745	46.63	63.05	5.896	104.7	25.32	12.8
111	2008	75	1800	45.88	64.89	5.717	105.2	24.14	12.76
111	2008	75	1815	45.28	65.64	3.92	80	22.88	12.72

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	75	1830	44.89	66.15	4.959	106.4	27.53	12.71
111	2008	75	1845	44.45	65.88	4.498	91.7	21.69	12.7
111	2008	75	1900	44.09	66.96	4.5	89.6	28.28	12.69
111	2008	75	1915	43.66	67.16	5.066	109.4	20.64	12.68
111	2008	75	1930	43.41	68.03	4.019	111.5	24.38	12.67
111	2008	75	1945	43.12	68.41	4.546	108.2	20.66	12.66
111	2008	75	2000	42.91	68.84	4.325	125.5	22.17	12.65
111	2008	75	2015	42.48	69.89	4.534	131.7	18.48	12.63
111	2008	75	2030	42.24	70.3	3.189	144.4	26.72	12.63
111	2008	75	2045	42.13	71.1	2.887	147.1	27.52	12.63
111	2008	75	2100	42.05	71.3	3.253	127	19.17	12.62
111	2008	75	2115	41.9	79	4.927	135	20.45	12.61
111	2008	75	2130	40.99	81.4	6.217	144	17.06	12.61
111	2008	75	2145	40.6	80.8	5.632	138	18.98	12.6
111	2008	75	2200	40.49	80.5	5.777	130.6	24.65	12.59
111	2008	75	2215	40.25	80.9	5.767	143.7	20.34	12.58
111	2008	75	2230	40.11	80.6	5.354	142.9	23.21	12.58
111	2008	75	2245	40	80.8	5.149	140.2	19.65	12.58
111	2008	75	2300	39.9	80.3	5.753	139.1	21.23	12.57
111	2008	75	2315	39.69	80	5.814	135.4	20.99	12.56
111	2008	75	2330	39.55	80.1	4.679	126.7	25.69	12.55
111	2008	75	2345	39.58	79.6	4.915	136.5	19.53	12.55
111	2008	75	2400	39.6	79	5.246	142.1	22.53	12.53
111	2008	76	15	39.54	79	5.733	136	18.92	12.53
111	2008	76	30	39.37	80	6.154	123	16.74	12.53
111	2008	76	45	39.2	79.8	6.638	114.6	21.25	12.52
111	2008	76	100	39.05	80.5	7.04	117.1	18.75	12.51
111	2008	76	115	38.88	81.2	5.566	115.6	19.88	12.51
111	2008	76	130	38.64	81.4	5	120.1	23.03	12.5
111	2008	76	145	38.53	81.4	4.74	112.1	20.94	12.49
111	2008	76	200	38.48	81	3.998	114.4	29.2	12.49
111	2008	76	215	38.4	80.6	4.001	134.4	19.99	12.48
111	2008	76	230	38.39	80.1	3.994	153.1	18.98	12.47
111	2008	76	245	38.25	79.9	4.512	126.3	19.74	12.46
111	2008	76	300	38.18	79.3	4.049	117.7	18.05	12.46
111	2008	76	315	38.23	79.2	4.806	102.9	19.79	12.46
111	2008	76	330	38.13	78.7	3.436	99.5	27.96	12.45
111	2008	76	345	38.05	78.8	4.268	99.1	24.83	12.45
111	2008	76	400	37.94	78.6	3.662	93.7	24.7	12.45
111	2008	76	415	37.84	77.9	4.272	100.8	23.31	12.44
111	2008	76	430	37.75	77.4	4.52	100.8	30.91	12.43
111	2008	76	445	37.63	78.6	4.74	96.5	28.81	12.43
111	2008	76	500	37.52	78.6	4.71	90.3	23.07	12.43
111	2008	76	515	37.38	78.6	4.103	76.1	30.46	12.43
111	2008	76	530	37.33	79.1	5.01	74.8	24.4	12.42
111	2008	76	545	37.18	80.4	5.183	75.8	28.99	12.42
111	2008	76	600	37.1	80.3	3.926	74.3	26.67	12.42
111	2008	76	615	37.14	79.6	3.686	71.3	36.51	12.41
111	2008	76	630	37.19	79.6	3.033	60.01	28.95	12.41
111	2008	76	645	37.12	80.6	3.303	76.1	34.29	12.41
111	2008	76	700	36.92	81.3	4.822	57.28	30.81	12.41
111	2008	76	715	36.9	81.2	4.214	71.8	30.6	12.41
111	2008	76	730	36.89	81.1	3.747	73.4	26.45	12.41
111	2008	76	745	36.89	81.1	2.949	79.1	26.91	12.41
111	2008	76	800	37.12	80.1	3.223	59.36	28.36	12.41
111	2008	76	815	37.1	80.1	3.853	77.1	26.22	12.41
111	2008	76	830	37.16	80.6	3.419	54.31	33.28	12.41
111	2008	76	845	37.4	79.6	3.471	50.73	31	12.42
111	2008	76	900	37.75	78.8	3.823	44.4	25.3	12.47
111	2008	76	915	38.09	77.1	4.309	41.56	26.75	12.53

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	76	930	38.49	76.4	4.736	43.79	29.46	12.63
111	2008	76	945	38.88	75.5	4.341	29.16	28.28	12.86
111	2008	76	1000	39.26	76	5.421	21.73	23.19	12.98
111	2008	76	1015	39.33	77.3	5.342	16.9	23.08	13.12
111	2008	76	1030	40.12	74.2	4.688	9.31	26.71	13.73
111	2008	76	1045	41.57	70.5	5.489	29.3	33.6	13.71
111	2008	76	1100	41.36	71.8	6.174	30.5	27.05	13.7
111	2008	76	1115	41.59	70.2	6.356	22.68	28.15	13.7
111	2008	76	1130	42.33	69.7	5.999	3.876	27.59	13.69
111	2008	76	1145	43.22	66.76	6.565	21.34	29.34	13.67
111	2008	76	1200	44.06	65.95	6.311	26.57	25.07	13.66
111	2008	76	1215	44.69	65.08	5.526	26.59	27.6	13.65
111	2008	76	1230	44.43	64.78	5.836	19.42	24.77	13.64
111	2008	76	1245	45.17	65.08	5.167	15.37	31	13.63
111	2008	76	1300	44.9	64.71	5.788	14.73	28.75	13.64
111	2008	76	1315	45.04	64.44	5.848	14.31	29.49	13.63
111	2008	76	1330	44.74	66.28	5.683	353.9	30.98	13.64
111	2008	76	1345	44.22	67.86	6.269	334.4	27.44	13.11
111	2008	76	1400	44.37	66.96	5.826	341.5	25.13	13.05
111	2008	76	1415	43.92	67.93	5.741	346.3	18.55	12.92
111	2008	76	1430	43.59	71	6.368	340.7	20.93	12.85
111	2008	76	1445	42.97	75.1	7.15	336.5	21.61	12.84
111	2008	76	1500	42.49	73.9	7.31	351.5	23.41	12.92
111	2008	76	1515	42.27	72.4	7.2	349	18.37	13.07
111	2008	76	1530	42.24	70.6	8.08	359.2	20.29	13.11
111	2008	76	1545	42.24	69.55	8.06	357.5	22.76	13.33
111	2008	76	1600	42.38	67.7	7.91	354	20.1	13.29
111	2008	76	1615	43.22	63.11	6.751	7.36	27.06	13.72
111	2008	76	1630	44.02	61.23	6.279	9.81	27.47	13.21
111	2008	76	1645	44.21	59.86	7.43	0.327	25.12	13.37
111	2008	76	1700	44.47	59.76	6.982	358.9	25.97	13.21
111	2008	76	1715	44.94	59.19	5.542	342.7	27.56	13.03
111	2008	76	1730	45.53	58.12	6.938	338.8	25.19	12.88
111	2008	76	1745	45.07	59.02	8.11	340.2	19.56	12.8
111	2008	76	1800	44.73	59.19	6.086	342.6	27.31	12.76
111	2008	76	1815	44.81	52.23	6.648	359.2	22.42	12.73
111	2008	76	1830	44.7	54.03	6.982	354.1	21.45	12.72
111	2008	76	1845	44.33	59.63	8.3	357.1	21.55	12.71
111	2008	76	1900	42.92	58.22	8.54	15.49	26.56	12.7
111	2008	76	1915	42.69	57.08	6.487	359.5	23.41	12.68
111	2008	76	1930	42.45	58.16	6.579	359.6	22.53	12.67
111	2008	76	1945	42.23	57.99	6.634	354.8	18.7	12.67
111	2008	76	2000	42.09	58.06	6.271	351.5	18.13	12.66
111	2008	76	2015	42.08	58.4	4.853	0.403	19.38	12.65
111	2008	76	2030	41.95	57.7	5.193	350.9	20.81	12.65
111	2008	76	2045	41.93	55.52	5.25	351.8	23.79	12.64
111	2008	76	2100	41.94	52.21	6.168	356.5	24.64	12.63
111	2008	76	2115	41.99	46.28	7.14	5.111	21.91	12.63
111	2008	76	2130	42.01	47.69	6.398	0.845	23.16	12.63
111	2008	76	2145	41.69	48.02	7.51	343.9	22.32	12.61
111	2008	76	2200	41.06	44.94	7.42	344.9	22.34	12.61
111	2008	76	2215	40.58	44.74	7.91	346.1	25.85	12.61
111	2008	76	2230	40.26	45.21	8.83	351.9	18.47	12.6
111	2008	76	2245	39.86	46.65	8	5.887	24.15	12.59
111	2008	76	2300	39.27	47.62	7.6	355.9	25.02	12.59
111	2008	76	2315	38.65	49.43	5.933	347.2	25.2	12.58
111	2008	76	2330	37.8	49.8	6.128	354.7	26.96	12.57
111	2008	76	2345	37.32	48.63	8.13	358.3	26.97	12.56
111	2008	76	2400	36.92	48.6	7.16	8.62	23.82	12.56
111	2008	77	15	36.52	48.6	7.64	15.7	20.12	12.54

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	77	30	36.02	49.31	6.348	3.267	26.37	12.54
111	2008	77	45	35.56	49.18	7.22	4.514	21.23	12.53
111	2008	77	100	35.19	49.35	7.25	357.5	25.31	12.52
111	2008	77	115	34.82	50.08	6.99	355.1	22.52	12.51
111	2008	77	130	34.47	50.92	5.574	352	25.38	12.5
111	2008	77	145	34.22	53.9	6.009	23.6	24.17	12.5
111	2008	77	200	33.71	51.16	9.66	14.79	22.81	12.48
111	2008	77	215	33.22	50.85	7.96	14.1	26.14	12.47
111	2008	77	230	32.88	47.5	8.35	18.76	27.04	12.46
111	2008	77	245	32.5	48.17	6.358	15.42	25.93	12.46
111	2008	77	300	32.16	47.24	6.593	11.07	25.14	12.45
111	2008	77	315	31.87	48.01	6.974	11.78	24.56	12.44
111	2008	77	330	31.73	48.65	8.13	5.524	24.07	12.42
111	2008	77	345	31.55	48.05	8.16	13.56	27.42	12.42
111	2008	77	400	31.39	48.52	8.35	8.29	24.9	12.41
111	2008	77	415	31.17	47.55	7.77	5.117	23.74	12.4
111	2008	77	430	31.06	48.89	8.04	12.45	22.41	12.39
111	2008	77	445	30.82	48.66	7.92	13.71	22.01	12.39
111	2008	77	500	30.64	48.59	6.759	13.24	27.44	12.38
111	2008	77	515	30.6	47.42	8.27	6.396	32.77	12.38
111	2008	77	530	30.61	47.08	10.89	3.739	23.09	12.37
111	2008	77	545	30.57	47.75	10.11	0.788	23.4	12.36
111	2008	77	600	30.42	48.52	8.71	11.36	26.4	12.36
111	2008	77	615	30.19	48.29	8.21	8.72	24.4	12.36
111	2008	77	630	30.08	48.36	8.53	12.32	25.69	12.35
111	2008	77	645	29.83	48.06	7.69	24.22	29.95	12.35
111	2008	77	700	29.74	47.39	8.44	20.41	26.77	12.35
111	2008	77	715	29.5	48.83	8.91	21.45	24.43	12.35
111	2008	77	730	29.46	48.02	8.73	17.53	26.8	12.76
111	2008	77	745	29.58	48.46	8.67	21.86	32.24	13.91
111	2008	77	800	29.81	48.06	9.61	14.41	21.88	13.9
111	2008	77	815	30.02	47.85	10.25	16.99	23.5	13.9
111	2008	77	830	30.22	47.08	11.1	10.67	24.67	13.89
111	2008	77	845	30.66	46.17	9.94	20.44	29.89	13.2
111	2008	77	900	31	45.66	10.14	20.1	26.14	13.89
111	2008	77	915	31.57	45.36	9.14	10.13	25.99	13.88
111	2008	77	930	31.82	44.89	9.9	18.27	27.59	13.86
111	2008	77	945	32.67	42.85	9.35	7.03	24.96	13.85
111	2008	77	1000	32.72	42.65	9.37	13.08	26.23	13.84
111	2008	77	1015	33.26	43.11	10.15	29.01	27.02	13.83
111	2008	77	1030	33.57	41.8	9.62	12.9	22.39	13.83
111	2008	77	1045	34.29	40.33	9.41	10.43	25.47	13.81
111	2008	77	1100	34.78	39.29	10.08	3.669	24.24	13.81
111	2008	77	1115	35.52	37.54	9.7	19.96	26.18	13.1
111	2008	77	1130	36.15	36.94	10	20.97	26.2	13.79
111	2008	77	1145	37.18	34.59	9.69	17.03	24.89	13.77
111	2008	77	1200	37.97	31.98	10	28.17	28.23	13.75
111	2008	77	1215	38.19	31.71	10.68	27.32	25.28	13.75
111	2008	77	1230	39.38	31.18	9.37	20.3	31.87	13.73
111	2008	77	1245	39.64	31.28	9.21	22.42	30.86	13.72
111	2008	77	1300	40.23	30.57	9.55	18.83	32.92	13.71
111	2008	77	1315	40.89	29.76	8.22	22.61	34.96	13.69
111	2008	77	1330	40.7	29.76	9.81	1.858	20.37	13.69
111	2008	77	1345	41.53	28.46	8.44	17.08	31.15	13.68
111	2008	77	1400	41.82	28.52	8.17	19.76	30.98	13.48
111	2008	77	1415	42.35	26.18	8.16	1.036	27.83	13.05
111	2008	77	1430	42.55	25.54	9.31	13.31	29.29	12.94
111	2008	77	1445	43.14	26.38	9.02	10.01	29.96	12.91
111	2008	77	1500	43.22	25.01	9.28	10.75	26.67	12.89
111	2008	77	1515	43.77	24.34	8.86	14.24	31.79	12.87

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	77	1530	43.96	24.54	8.2	3.067	31.9	12.85
111	2008	77	1545	44.38	23.37	8.54	7.4	27.23	12.84
111	2008	77	1600	44.79	22.76	8.14	26.73	30.18	12.84
111	2008	77	1615	44.89	23.03	8.64	22.67	29.3	12.82
111	2008	77	1630	45.22	22.19	7.67	18.9	22.29	12.82
111	2008	77	1645	45.25	21.72	7.52	2.085	26.83	12.8
111	2008	77	1700	45.08	22.83	7.33	14.37	30.52	12.79
111	2008	77	1715	44.88	21.99	8.1	6.137	26.58	12.77
111	2008	77	1730	45.16	21.19	6.773	7.87	28.69	12.76
111	2008	77	1745	44.89	21.99	6.884	11.6	30.29	12.74
111	2008	77	1800	44.82	21.89	7.59	1.841	25.15	12.72
111	2008	77	1815	44.26	21.59	7.68	1.838	22.96	12.71
111	2008	77	1830	43.58	23.27	7.2	8.52	25.93	12.7
111	2008	77	1845	42.72	24.91	6.873	12.69	23.38	12.69
111	2008	77	1900	42.13	26.01	7.08	3.67	22.94	12.67
111	2008	77	1915	41.48	27.42	5.163	0.774	29.31	12.66
111	2008	77	1930	41.01	28.6	5.628	15.34	24.92	12.65
111	2008	77	1945	40.57	29	5.113	20.74	26.32	12.64
111	2008	77	2000	40.18	31.01	4.883	15.5	26.27	12.63
111	2008	77	2015	39.84	28.5	5.775	15.9	23.66	12.61
111	2008	77	2030	39.5	29	5.423	17.95	24.86	12.61
111	2008	77	2045	39.18	29.98	5.918	20.47	24.26	12.59
111	2008	77	2100	38.89	30.48	6.164	14.93	21.68	12.59
111	2008	77	2115	38.59	30.72	6.327	23.72	26.52	12.58
111	2008	77	2130	38.35	30.75	6.144	16.98	22.61	12.57
111	2008	77	2145	38.06	31.55	5.141	15.56	26.77	12.56
111	2008	77	2200	37.76	31.32	5.179	24.03	31.03	12.55
111	2008	77	2215	37.61	31.29	5.884	17.26	23.51	12.55
111	2008	77	2230	37.47	31.52	5.792	15.47	24.86	12.54
111	2008	77	2245	37.16	31.79	4.042	25.86	27.11	12.53
111	2008	77	2300	36.94	31.93	4.073	30.84	29.17	12.52
111	2008	77	2315	36.82	32.6	4.325	21.4	25.01	12.51
111	2008	77	2330	36.68	33	5.004	15.59	23.45	12.5
111	2008	77	2345	36.36	34.04	5.004	34.03	26.82	12.49
111	2008	77	2400	36.05	32.23	4.859	37.67	22.13	12.47
111	2008	78	15	35.91	32.5	4.996	41.09	26.43	12.47
111	2008	78	30	35.73	31.89	5.141	33.05	27.68	12.46
111	2008	78	45	35.47	34.1	4.7	33.42	30.83	12.45
111	2008	78	100	35.23	34.64	4.454	25.95	25.62	12.44
111	2008	78	115	34.95	36.01	3.227	13.61	23.59	12.44
111	2008	78	130	34.57	36.52	3.66	5.714	22.57	12.42
111	2008	78	145	34.21	37.45	2.71	20.78	22.15	12.41
111	2008	78	200	33.85	36.75	2.344	25.8	31.25	12.4
111	2008	78	215	33.61	37.42	2.778	32.86	20.95	12.39
111	2008	78	230	33.5	35.32	3.507	41.22	29.05	12.39
111	2008	78	245	33.42	36.66	3.438	43.24	31.1	12.38
111	2008	78	300	33.21	37.93	2.697	47.6	26.42	12.37
111	2008	78	315	33.02	38.44	2.996	49.62	27.08	12.37
111	2008	78	330	32.78	39.47	2.784	41.5	34.06	12.37
111	2008	78	345	32.62	38.84	2.123	27.4	26.14	12.36
111	2008	78	400	32.19	40.75	0.304	31.2	15.41	12.36
111	2008	78	415	31.82	42.12	0.487	25.21	12.45	12.35
111	2008	78	430	31.75	41.59	0.72	57.24	14.24	12.35
111	2008	78	445	31.6	45.24	0.44	11.4	16.69	12.35
111	2008	78	500	31.32	40.92	1.184	32.51	25.42	12.35
111	2008	78	515	31.75	38.1	1.354	46.93	21.69	12.34
111	2008	78	530	32.03	37.23	1.495	52.1	29.78	12.35
111	2008	78	545	32.12	38.1	1.677	52.13	24.63	12.34
111	2008	78	600	32.11	38.33	1.614	34.57	23.18	12.35
111	2008	78	615	32.02	38.84	1.441	29.38	24.95	12.34

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	78	630	32.03	39.98	2.103	40.04	24.17	12.34
111	2008	78	645	31.94	39.47	2.407	48.39	25.25	12.34
111	2008	78	700	32.19	40.14	2.337	44.07	35.17	12.34
111	2008	78	715	32.44	40.01	2.745	24.08	21.42	12.34
111	2008	78	730	32.69	40.45	2.342	30.86	31.12	12.34
111	2008	78	745	32.95	40.85	1.843	33.32	26.75	12.38
111	2008	78	800	33.06	40.68	3.227	87.6	26.26	12.44
111	2008	78	815	33.37	41.38	3.074	88.4	27.39	12.56
111	2008	78	830	33.92	39.3	3.817	91.6	25.81	12.9
111	2008	78	845	34.36	37.02	4.228	93	31.57	13.2
111	2008	78	900	34.58	37.39	4.438	96	32.22	13.86
111	2008	78	915	35.28	35.54	3.888	98.6	32.31	13.83
111	2008	78	930	35.82	32.4	3.485	85.4	33.77	13.83
111	2008	78	945	36.3	31.62	3.233	106.7	35.78	13.82
111	2008	78	1000	36.33	31.18	2.953	133.5	32.21	13.82
111	2008	78	1015	36.87	31.21	3.708	133.1	28.27	13.8
111	2008	78	1030	37.72	31.68	3.845	114.5	31.22	13.78
111	2008	78	1045	37.9	31.05	4.144	174.4	27.56	13.76
111	2008	78	1100	38.35	34.9	4.303	159	30.85	13.75
111	2008	78	1115	38.43	32.78	4.909	172.8	22.57	13.74
111	2008	78	1130	38.04	33.79	6.269	167.9	19.26	13.73
111	2008	78	1145	38.98	37.91	5.647	186.3	23.63	13.7
111	2008	78	1200	38.23	37.36	6.122	196.6	24.52	13.7
111	2008	78	1215	38.94	42.52	5.781	169	33.68	13.68
111	2008	78	1230	38.69	46.17	5.616	182.9	34.85	13.68
111	2008	78	1245	38.16	45.43	5.916	178.3	26.33	13.68
111	2008	78	1300	38.18	47.74	5.403	176.6	34.28	13.68
111	2008	78	1315	37.8	47.84	5.012	179.6	28.15	13.69
111	2008	78	1330	38.19	50.18	4.968	176.2	28.91	13.69
111	2008	78	1345	38.74	51.22	6.136	175.3	32.88	13.68
111	2008	78	1400	38.5	50.99	5.165	178.9	28.07	13.67
111	2008	78	1415	38.39	50.32	5.163	173	27.14	13.69
111	2008	78	1430	38.56	51.76	6.259	171.2	26.24	13.69
111	2008	78	1445	38.86	52.73	6.668	155.8	24.86	13.69
111	2008	78	1500	38.26	54.57	6.962	170.2	22.15	13.7
111	2008	78	1515	38.24	53.84	6.172	172	29.55	13.71
111	2008	78	1530	38.09	56.49	5.24	195.5	28.79	13.72
111	2008	78	1545	38.13	54.48	4.984	193.3	31.19	13.72
111	2008	78	1600	38.64	56.46	4.718	214.7	33.27	13.73
111	2008	78	1615	38.32	59.37	5.87	192.7	21.79	13.55
111	2008	78	1630	38.03	60.95	5.231	182	27.42	13.16
111	2008	78	1645	37.93	63.36	4.546	198.8	21.52	13.01
111	2008	78	1700	37.76	62.69	5.038	190.2	25.17	12.85
111	2008	78	1715	37.76	61.15	4.808	199.4	33.07	12.79
111	2008	78	1730	37.85	62.02	4.466	186.2	29.58	12.75
111	2008	78	1745	37.78	64	4.831	208	25.93	12.73
111	2008	78	1800	37.87	63.73	4.518	200.1	26.59	12.71
111	2008	78	1815	37.89	64.87	4.492	188.5	24.97	12.7
111	2008	78	1830	37.91	64	4.716	199.2	32.24	12.69
111	2008	78	1845	38.04	65.17	3.725	187	24.29	12.68
111	2008	78	1900	37.99	66.14	4.071	183.1	27.8	12.67
111	2008	78	1915	38.04	66.68	4.015	182.8	28.21	12.66
111	2008	78	1930	37.95	66.81	3.783	177	29.23	12.65
111	2008	78	1945	37.91	67.28	4.343	174.9	23.29	12.65
111	2008	78	2000	37.99	66.41	5.197	159.8	21.15	12.64
111	2008	78	2015	37.99	65.41	5.499	146.5	19.67	12.63
111	2008	78	2030	37.96	66.34	5.816	154.2	34.36	12.63
111	2008	78	2045	38	67.68	4.496	184.1	26.63	12.63
111	2008	78	2100	38.09	68.39	4.148	168.5	25.09	12.62
111	2008	78	2115	38.21	68.49	5.691	155.2	20.11	12.62

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	78	2130	38.2	68.02	7.01	145	17.82	12.61
111	2008	78	2145	38.16	68.32	6.881	163.4	30.62	12.61
111	2008	78	2200	38.35	71.2	6.45	159.7	20.05	12.61
111	2008	78	2215	38.33	72.8	5.872	159.9	22.12	12.6
111	2008	78	2230	38.39	73	6.364	160.5	24.18	12.59
111	2008	78	2245	38.48	74.3	6.487	160.2	18.41	12.59
111	2008	78	2300	38.56	74.6	6.609	158.5	18.7	12.59
111	2008	78	2315	38.71	75.1	6.869	170	18.09	12.58
111	2008	78	2330	38.96	76.3	5.719	166.2	26.25	12.58
111	2008	78	2345	39.27	76.4	7.07	159	18.63	12.57
111	2008	78	2400	39.57	77.5	6.211	167.6	19.53	12.57
111	2008	79	15	39.83	73.5	6.507	180.6	20.42	12.57
111	2008	79	30	40	73.3	6.648	177.3	23.5	12.56
111	2008	79	45	40.1	73	6.394	180.5	22.37	12.56
111	2008	79	100	40.19	73.7	5.437	178.9	23.73	12.56
111	2008	79	115	40.28	73.2	6.146	173.8	21.12	12.55
111	2008	79	130	40.41	73.8	5.939	181.2	21.52	12.55
111	2008	79	145	40.56	74.3	6.176	179.9	23.92	12.55
111	2008	79	200	40.66	74.4	5.522	183.3	24.69	12.54
111	2008	79	215	40.67	75.1	5.679	174	24.96	12.53
111	2008	79	230	40.76	76	6.176	177.8	19.98	12.52
111	2008	79	245	40.86	76.9	5.725	182.3	23.89	12.51
111	2008	79	300	41.15	78	6.176	183.8	23.45	12.51
111	2008	79	315	41.29	78.7	6.245	193.9	24.41	12.51
111	2008	79	330	41.39	78	6.408	195.1	23.6	12.5
111	2008	79	345	41.43	76	7.18	204.1	27.94	12.49
111	2008	79	400	40.61	84.9	6.503	208.5	29.2	12.49
111	2008	79	415	39.87	86.7	5.04	187.3	21.99	12.47
111	2008	79	430	40.17	86.1	5.24	190.6	23.67	12.47
111	2008	79	445	40.28	86.2	5.207	192.9	24.53	12.46
111	2008	79	500	40.08	87.9	5.568	181.3	24.01	12.45
111	2008	79	515	39.92	89.1	4.607	173.2	23.34	12.45
111	2008	79	530	39.96	90	5.236	174.4	25.02	12.45
111	2008	79	545	40.09	91.9	6.027	166.3	17.91	12.44
111	2008	79	600	40.3	92.9	6.057	161.1	21.74	12.43
111	2008	79	615	40.38	93.6	7.02	159.9	18.34	12.43
111	2008	79	630	40.42	93.9	7.03	151.4	18.04	12.43
111	2008	79	645	40.41	94.4	6.706	151.6	18.13	12.43
111	2008	79	700	40.49	94.5	6.184	147.2	15.62	12.42
111	2008	79	715	40.6	94.7	5.391	141.8	20.76	12.42
111	2008	79	730	40.74	95	6.579	139.3	22.1	12.42
111	2008	79	745	40.93	95	7.19	138.8	19.44	12.42
111	2008	79	800	40.95	95.1	7.04	144.7	23.24	12.42
111	2008	79	815	41.01	95.3	6.398	138.6	22.03	12.41
111	2008	79	830	41.15	95.4	6.867	136	23.78	12.41
111	2008	79	845	41.3	95.5	6.142	145.5	25.79	12.41
111	2008	79	900	41.54	95.5	5.179	135	26.43	12.41
111	2008	79	915	41.94	95.6	4.724	143.6	27.91	12.41
111	2008	79	930	42.3	95.9	5.364	145.1	22.3	12.41
111	2008	79	945	42.98	95.9	4.839	148.7	26.38	12.4
111	2008	79	1000	43.67	96	4.683	171	22.81	12.41
111	2008	79	1015	44.2	95.8	3.906	169	25.08	12.41
111	2008	79	1030	44.13	95.9	4.029	168.9	17.05	12.41
111	2008	79	1045	44.24	95.8	2.672	160.6	32.46	12.42
111	2008	79	1100	44.44	96	2.963	182.4	22.61	12.42
111	2008	79	1115	44.71	95.9	3.207	188.6	24.19	12.42
111	2008	79	1130	44.93	96	2.719	217	34.94	12.44
111	2008	79	1145	44.97	96.1	3.132	213.7	27.59	12.45
111	2008	79	1200	45.08	96	2.967	202.2	29.12	12.5
111	2008	79	1215	45.19	96	2.871	214.4	29.14	12.54

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	79	1230	45.38	96	2.933	220.2	28.46	12.54
111	2008	79	1245	45.43	96	3.68	232.2	23.58	12.55
111	2008	79	1300	45.63	96	3.779	236.3	24.45	12.57
111	2008	79	1315	45.63	95.9	3.787	239.7	25.45	12.54
111	2008	79	1330	45.67	95.7	2.551	228.2	26.45	12.53
111	2008	79	1345	45.45	95.8	3.199	231.6	31.27	12.47
111	2008	79	1400	45.53	95.8	3.183	237.1	23.8	12.47
111	2008	79	1415	45.61	95.7	3.209	250.8	24.93	12.44
111	2008	79	1430	45.57	95.7	2.89	247.8	24.56	12.43
111	2008	79	1445	45.5	95.7	2.647	252.1	22	12.43
111	2008	79	1500	45.65	95.9	2.868	234	27.32	12.45
111	2008	79	1515	45.86	95.7	3.154	215	22.55	12.52
111	2008	79	1530	45.9	95.6	3.076	228.3	24.01	12.52
111	2008	79	1545	46	95.6	3.477	241.4	27.39	12.47
111	2008	79	1600	46.1	95.4	3.884	238.8	26.03	12.44
111	2008	79	1615	45.89	95.2	3.817	252.4	27.06	12.43
111	2008	79	1630	45.72	95.4	3.1	233.6	29.13	12.44
111	2008	79	1645	45.62	95.4	2.785	241	32.3	12.42
111	2008	79	1700	45.63	95.5	3.521	249.6	23.85	12.42
111	2008	79	1715	45.91	95.6	3.698	260	28.76	12.42
111	2008	79	1730	46.11	95.6	3.735	245	28.81	12.43
111	2008	79	1745	46.05	95.5	3.465	240.3	28.54	12.42
111	2008	79	1800	46	95.7	3.539	231	25.88	12.42
111	2008	79	1815	46.07	95.8	3.731	234.8	23.79	12.42
111	2008	79	1830	46.31	95.9	3.928	239.6	26.28	12.42
111	2008	79	1845	46.33	95.9	4.081	228.5	26.17	12.42
111	2008	79	1900	46.16	95.9	4.52	232.8	29.48	12.42
111	2008	79	1915	46.14	96	3.904	237.8	26.79	12.41
111	2008	79	1930	46.25	96.1	4.516	237.1	26.87	12.41
111	2008	79	1945	46.44	96.1	5.411	239.2	29.81	12.41
111	2008	79	2000	46.6	96.2	5.703	236.7	23.38	12.41
111	2008	79	2015	46.86	96.1	5.096	245.4	28.97	12.41
111	2008	79	2030	46.96	96.1	6.096	230.2	22.68	12.4
111	2008	79	2045	47.01	96.1	5.628	241.7	25.43	12.41
111	2008	79	2100	46.96	96.1	4.454	224.7	32.84	12.41
111	2008	79	2115	46.99	96.2	4.955	217.8	35.09	12.41
111	2008	79	2130	47.11	96.2	4.978	235.5	25.83	12.4
111	2008	79	2145	47.24	96.3	5.507	220.4	26.7	12.41
111	2008	79	2200	47.4	96.3	4.903	232.9	28.74	12.4
111	2008	79	2215	47.8	96.2	6.648	236.9	28.44	12.4
111	2008	79	2230	47.79	96	5.318	236.6	27.63	12.41
111	2008	79	2245	47.58	95.9	4.242	234.4	37.3	12.4
111	2008	79	2300	47.55	95.9	5.006	243.5	27	12.41
111	2008	79	2315	47.73	95.6	6.44	254.4	20.05	12.41
111	2008	79	2330	48.59	94.5	8.48	247.4	22.26	12.4
111	2008	79	2345	48.04	94.3	6.235	249.9	24.55	12.4
111	2008	79	2400	47.88	94.5	5.54	258	26.02	12.4
111	2008	80	15	48.14	94.6	5.002	248.2	27.8	12.4
111	2008	80	30	48.46	94.5	6.716	246.1	23.42	12.4
111	2008	80	45	48.9	94.1	7.1	250.5	23.3	12.4
111	2008	80	100	48.64	94.5	6.569	244	23.04	12.4
111	2008	80	115	48.74	94.7	6.235	257.2	24.03	12.4
111	2008	80	130	49.21	94.7	7.03	249.4	28.98	12.4
111	2008	80	145	49.58	94.5	7.56	254.8	25.05	12.4
111	2008	80	200	49.75	94.6	8.46	264.4	20.54	12.4
111	2008	80	215	49.66	94.8	9.66	263.1	25.17	12.4
111	2008	80	230	50.05	94.9	10.18	262.5	20.23	12.4
111	2008	80	245	50.29	94.8	10.64	263.6	24.22	12.4
111	2008	80	300	49.8	95.3	8.99	262.8	19.25	12.4
111	2008	80	315	50.01	95.5	10.97	275.9	23.98	12.4

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	80	330	50.53	95.1	9.96	266.2	19.93	12.4
111	2008	80	345	50.54	95.7	10.12	264.7	19.93	12.39
111	2008	80	400	51.55	95.3	9.94	263.4	21.9	12.39
111	2008	80	415	51.36	95.2	7.69	267.2	19.16	12.4
111	2008	80	430	51.56	94.9	7.77	255.8	23.84	12.39
111	2008	80	445	50.37	94.6	8.42	261.9	21.64	12.39
111	2008	80	500	49.44	95.2	7.92	265.6	19.68	12.39
111	2008	80	515	48.9	95.4	7.04	266.6	18.95	12.39
111	2008	80	530	48.5	95.8	7.32	276.1	18.15	12.4
111	2008	80	545	48.6	95.9	7.54	286	18.3	12.39
111	2008	80	600	49.42	96	5.207	322.8	23.97	12.39
111	2008	80	615	50.24	89.4	8.2	338.6	19.01	12.39
111	2008	80	630	49.34	82.6	9.44	343.4	20.51	12.38
111	2008	80	645	48.27	82	8.49	342.2	18.06	12.39
111	2008	80	700	47.87	81.2	9.19	331.9	19.14	12.38
111	2008	80	715	47.53	80.5	8	327.8	21.45	12.38
111	2008	80	730	47.18	80.5	7.99	344.6	21.93	12.38
111	2008	80	745	46.84	79.9	7.23	348.6	23.65	12.38
111	2008	80	800	46.55	77.9	7.53	345.3	21.05	12.38
111	2008	80	815	46.21	74.9	8.28	340.7	19.89	12.38
111	2008	80	830	45.94	75.4	8.13	340.5	20.09	12.39
111	2008	80	845	45.82	73.6	7.75	344.2	20.09	12.38
111	2008	80	900	45.69	71.5	9.21	340.4	20.98	12.43
111	2008	80	915	45.65	68.93	9.17	338.1	19.43	12.51
111	2008	80	930	45.7	64.18	12.22	340.2	23.68	12.62
111	2008	80	945	45.67	63.88	11.68	337.6	22.42	12.72
111	2008	80	1000	45.48	63.37	13.03	339	20.34	12.76
111	2008	80	1015	45.63	59.29	13.33	340.9	19.2	12.79
111	2008	80	1030	46.25	58.02	12.24	340.2	20.91	13.3
111	2008	80	1045	47.1	54.4	12.98	338.9	22.39	13.52
111	2008	80	1100	47.1	54.29	13.65	341.4	19.74	13.51
111	2008	80	1115	46.8	52.51	13.85	345.5	23.17	13.54
111	2008	80	1130	47.02	54.52	12.82	344	21.34	13.53
111	2008	80	1145	46.21	54.89	13.56	342	20.79	13.54
111	2008	80	1200	46.44	53.75	11.17	338.9	22.26	13.56
111	2008	80	1215	45.75	53.92	12.57	337.1	19.53	13.34
111	2008	80	1230	45.46	53.79	13.1	337.3	24.53	13.38
111	2008	80	1245	45.7	52.82	11.87	339.8	22.78	13.5
111	2008	80	1300	45.82	53.29	11.92	341.6	25.57	13.29
111	2008	80	1315	45.65	51.65	12.03	338.9	25.46	13.61
111	2008	80	1330	44.93	48.51	13.61	335.9	25.57	13.37
111	2008	80	1345	45.81	43.62	15.25	339.2	21.12	13.55
111	2008	80	1400	46.35	42.65	15.64	331.8	24.72	13.28
111	2008	80	1415	46.51	40.43	14.75	331	20.81	13.1
111	2008	80	1430	46.37	43.41	14.57	338.8	22.16	13.16
111	2008	80	1445	45.96	42.07	12.96	333.6	24.32	13.24
111	2008	80	1500	45.53	41.17	13.7	333.3	26.19	13.14
111	2008	80	1515	46.23	39.37	13.27	334.7	24.11	13.08
111	2008	80	1530	45.97	40.27	13.37	343.9	21.98	13.18
111	2008	80	1545	45.35	41.18	12.8	333.6	24.4	12.97
111	2008	80	1600	45.23	41.71	12.26	329.5	24.76	12.95
111	2008	80	1615	45.04	40.81	13.42	339.6	23.73	12.99
111	2008	80	1630	45.54	37.83	15.02	332.8	21.66	13.01
111	2008	80	1645	45.89	35.92	13.07	341.1	21.72	12.88
111	2008	80	1700	45.6	37.56	13.5	334.2	24.67	12.83
111	2008	80	1715	44.82	37.66	12.19	340.9	22.97	12.79
111	2008	80	1730	44.92	36.56	11.3	343	19.54	12.83
111	2008	80	1745	45.6	37.19	12.27	337.1	21.32	12.82
111	2008	80	1800	44.74	38.97	12.14	337.8	23.48	12.76
111	2008	80	1815	44.13	37.53	11.48	336.9	23.38	12.73

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	80	1830	43.43	39.04	14.35	333.3	19.35	12.72
111	2008	80	1845	42.23	48.58	13.65	336.9	24.15	12.7
111	2008	80	1900	40.95	48.18	14.01	329.9	18.65	12.68
111	2008	80	1915	40.33	50.73	11.75	334.8	17.71	12.68
111	2008	80	1930	39.94	52.07	9.35	338.5	21.81	12.67
111	2008	80	1945	39.78	50.6	7.78	339.7	19.46	12.66
111	2008	80	2000	39.77	50.9	7.47	341.6	25.44	12.65
111	2008	80	2015	39.62	51.88	6.495	336.6	20.47	12.64
111	2008	80	2030	39.6	43.74	12.79	331.1	21.56	12.64
111	2008	80	2045	39.22	44.11	11.39	335.1	24.47	12.63
111	2008	80	2100	38.87	43.77	10.66	331.9	22.39	12.63
111	2008	80	2115	38.64	43.2	11.88	333.9	21.77	12.61
111	2008	80	2130	38.12	43	11.95	338.2	19.74	12.61
111	2008	80	2145	37.9	43.37	10.37	327.9	22.58	12.61
111	2008	80	2200	37.76	42.17	12.49	321.8	22.95	12.59
111	2008	80	2215	37.54	44.68	11.71	332.9	22.54	12.59
111	2008	80	2230	37.16	45.46	10.66	335.3	24.02	12.59
111	2008	80	2245	36.81	48.17	8.95	335.8	22.33	12.58
111	2008	80	2300	36.53	48.67	7.7	331.2	26.07	12.58
111	2008	80	2315	36.45	50.82	10.16	326.7	21.53	12.57
111	2008	80	2330	36.17	53	8.63	326	18.11	12.57
111	2008	80	2345	35.99	52.93	12.68	322.2	20.93	12.57
111	2008	80	2400	35.7	52.09	8.86	330.4	25.1	12.56
111	2008	81	15	35.87	50.12	9.72	320.9	22.08	12.56
111	2008	81	30	35.79	50.72	8.16	327	20.48	12.56
111	2008	81	45	35.7	43.25	11.05	332.9	25.66	12.55
111	2008	81	100	35.57	42.71	13.35	325.3	23.5	12.55
111	2008	81	115	35.39	44.22	11.98	330.6	24.61	12.55
111	2008	81	130	35.25	47.24	9.76	323.1	20.67	12.54
111	2008	81	145	35.25	47.64	9.91	323.7	20.12	12.54
111	2008	81	200	35.2	47.91	9.71	326.7	21.94	12.53
111	2008	81	215	34.97	48.38	11.6	320.1	18.79	12.53
111	2008	81	230	34.91	47.07	10.95	326.1	21.82	12.52
111	2008	81	245	34.82	48.04	14.05	318.4	23	12.52
111	2008	81	300	34.58	47.84	12.82	323.4	21.83	12.53
111	2008	81	315	34.4	48.88	10.61	318.8	21.59	12.52
111	2008	81	330	34.27	48.58	12.19	328.3	19.67	12.52
111	2008	81	345	34.31	49.95	10.51	332.7	21.12	12.51
111	2008	81	400	33.72	54.1	10.87	338.6	22.95	12.5
111	2008	81	415	32.86	56.85	12.98	324.1	24.1	12.5
111	2008	81	430	32.75	53.7	13.1	318.5	19.66	12.5
111	2008	81	445	32.85	46.26	12.94	327.5	21.42	12.49
111	2008	81	500	32.85	44.86	13.1	329.4	22.05	12.5
111	2008	81	515	32.62	44.09	11.2	332.4	24.34	12.49
111	2008	81	530	32.58	44.83	11.7	323.3	23.08	12.48
111	2008	81	545	32.56	43.19	11.49	326.5	25.91	12.48
111	2008	81	600	32.7	41.81	12.72	328.5	21.47	12.47
111	2008	81	615	32.75	41.48	10.55	327.6	21.06	12.47
111	2008	81	630	32.79	43.19	12.32	328.6	21.14	12.47
111	2008	81	645	32.64	44.6	10.21	326	24.07	12.47
111	2008	81	700	32.55	43.89	10.6	323.7	18.98	12.46
111	2008	81	715	32.83	43.52	12.6	331.2	18.69	12.46
111	2008	81	730	33.03	43.86	12.51	329.9	20.25	13.86
111	2008	81	745	33.29	43.72	11.72	326.9	21.2	13.85
111	2008	81	800	33.58	44.02	12.62	330	19.33	13.84
111	2008	81	815	33.92	43.45	12.03	330.8	22.43	13.83
111	2008	81	830	34.39	42.68	13.1	328.6	22.65	13.82
111	2008	81	845	34.84	41.9	12.82	335.2	21.4	13.82
111	2008	81	900	35.18	42.14	12.61	337.1	23.57	13.23
111	2008	81	915	35.69	41.63	12.99	335.6	23.06	13.75

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	81	930	35.64	41.5	16.26	337.8	26.14	13.8
111	2008	81	945	36.48	42.37	12.65	339.2	23.51	13.79
111	2008	81	1000	36.84	40.96	11.93	326.5	24.27	13.78
111	2008	81	1015	36.64	40.56	14.27	341.4	19.38	13.78
111	2008	81	1030	37.05	36.17	12.34	342.3	28.64	13.77
111	2008	81	1045	36.92	35.87	13.64	346.5	23.22	13.77
111	2008	81	1100	36.85	36.54	14.2	331	24.32	13.76
111	2008	81	1115	37.28	34.16	12.51	344.2	30.02	13.76
111	2008	81	1130	37.1	35	15.5	344.1	21.82	13.76
111	2008	81	1145	37.28	33.66	14.94	331.5	24.4	13.75
111	2008	81	1200	37.34	34.56	15.17	344.7	21.54	13.75
111	2008	81	1215	38.3	34.19	12.08	344.2	25.22	13.74
111	2008	81	1230	39	34.06	11.86	340.1	25.87	13.72
111	2008	81	1245	39.1	31.78	11.77	339.4	25.52	13.72
111	2008	81	1300	39.58	31.64	11.91	344.8	27.82	13.7
111	2008	81	1315	40.05	30.6	12.76	327.7	24.11	13.7
111	2008	81	1330	40.15	31.24	14.43	324.4	20.18	13.69
111	2008	81	1345	40.79	28.99	12.09	320	21.93	13.69
111	2008	81	1400	41.18	27.45	12.24	329.2	23.85	13.68
111	2008	81	1415	40.81	27.49	14.88	324.9	25.67	13.15
111	2008	81	1430	41.28	28.66	14.31	322	21.5	12.98
111	2008	81	1445	41.23	25.04	15.37	323.3	19.69	12.93
111	2008	81	1500	41.47	25.28	14.15	322.6	21.47	12.9
111	2008	81	1515	41.63	25.34	14.49	325.6	21.3	12.88
111	2008	81	1530	41.96	23.3	14.02	315.2	20.84	12.87
111	2008	81	1545	42.06	21.93	14.27	324.3	25.13	12.86
111	2008	81	1600	42.37	20.56	14.06	332.6	24.78	12.84
111	2008	81	1615	42.94	21.02	10.79	334.7	26.15	12.82
111	2008	81	1630	43.01	20.99	12.66	337.1	26.35	12.82
111	2008	81	1645	43.15	19.42	12.61	330.9	24.91	12.8
111	2008	81	1700	42.93	18.68	13.93	331.4	25.83	12.79
111	2008	81	1715	42.84	17.31	13.09	326.7	20.48	12.77
111	2008	81	1730	42.46	17.94	14.15	334.2	21.04	12.75
111	2008	81	1745	42.51	18.58	11.67	325.9	21.14	12.73
111	2008	81	1800	42.5	18.55	12.01	327.3	22.47	12.71
111	2008	81	1815	41.72	19.18	10.77	328	25.22	12.69
111	2008	81	1830	41.64	18.95	9.23	328.7	19.32	12.68
111	2008	81	1845	41.56	18.02	11.33	323.3	23.36	12.67
111	2008	81	1900	41.36	19.46	9.38	324.9	25.4	12.66
111	2008	81	1915	41.07	18.65	9.85	327	20.17	12.66
111	2008	81	1930	40.85	17.75	9.08	324.3	23.02	12.65
111	2008	81	1945	40.72	18.55	8.95	330.4	22.94	12.63
111	2008	81	2000	40.43	19.29	8.39	327.4	21.61	12.63
111	2008	81	2015	40.09	19.26	7.44	323.4	20.51	12.62
111	2008	81	2030	39.79	20.4	6.525	325.1	21.12	12.61
111	2008	81	2045	39.53	20.76	6.666	313.6	20.12	12.61
111	2008	81	2100	39.19	23.18	4.812	312	18.93	12.6
111	2008	81	2115	38.95	21.67	5.945	316	22.15	12.59
111	2008	81	2130	38.97	23.88	6.074	316	20.06	12.59
111	2008	81	2145	38.84	23.98	6.134	311.8	21.3	12.58
111	2008	81	2200	38.69	23.41	6.585	321.1	20.07	12.58
111	2008	81	2215	38.52	22.51	6.875	316.4	18.79	12.57
111	2008	81	2230	38.45	22.38	8.87	321.2	22.88	12.56
111	2008	81	2245	38.34	22.51	7.27	317.6	19.22	12.55
111	2008	81	2300	38.03	23.05	5.604	317.2	18.86	12.55
111	2008	81	2315	37.93	23.05	7.09	323.2	18.06	12.55
111	2008	81	2330	37.78	24.22	6.589	326.1	21.44	12.54
111	2008	81	2345	37.8	23.98	9.27	319.2	19.91	12.54
111	2008	81	2400	37.64	23.65	7.89	318.8	18.99	12.53
111	2008	82	15	37.54	24.12	9.24	319.8	20.26	12.52

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	82	30	37.35	24.66	8.33	326.6	17.27	12.52
111	2008	82	45	37.28	24.62	8.07	321.2	17.49	12.52
111	2008	82	100	37.11	23.92	8.51	323.8	18.36	12.51
111	2008	82	115	36.91	25.59	7.26	326.3	20.37	12.5
111	2008	82	130	36.68	24.72	7.35	316.9	21.22	12.5
111	2008	82	145	36.47	23.72	6.495	325.6	21.32	12.5
111	2008	82	200	36.11	24.69	7.19	340.1	19.03	12.49
111	2008	82	215	35.73	25.02	6.648	334.8	24.19	12.49
111	2008	82	230	35.34	26.4	5.544	329.7	23.11	12.48
111	2008	82	245	35.05	27.17	4.933	323	21.4	12.47
111	2008	82	300	34.93	27.6	3.968	347.3	27.2	12.47
111	2008	82	315	34.81	28.41	3.577	329.3	18.73	12.47
111	2008	82	330	34.67	29.05	4.627	338.3	22.7	12.47
111	2008	82	345	34.56	29.98	5.86	345.9	18.89	12.46
111	2008	82	400	34.41	29.82	6.166	338.5	24.77	12.46
111	2008	82	415	34.23	30.28	5.562	342.6	22.21	12.45
111	2008	82	430	34.04	30.55	6.34	349	21.61	12.45
111	2008	82	445	33.73	31.26	6.553	336.7	20.84	12.45
111	2008	82	500	33.56	31.76	6.015	341.9	20.6	12.45
111	2008	82	515	33.43	31.83	5.032	344.5	22.14	12.44
111	2008	82	530	33.36	31.39	5.447	348.4	24.88	12.45
111	2008	82	545	33.32	31.89	5.711	351.8	19.26	12.44
111	2008	82	600	33.22	32.33	4.708	344.1	23.03	12.43
111	2008	82	615	33.15	33.13	5.465	324.9	18.62	12.44
111	2008	82	630	33.13	33.47	4.865	329.6	23.5	12.44
111	2008	82	645	33.12	34.21	3.92	317.5	21.3	12.43
111	2008	82	700	33.09	33.7	4.812	317.3	19.79	12.43
111	2008	82	715	33.05	34.37	3.956	319.6	23.9	12.43
111	2008	82	730	32.96	33.8	4.667	330.3	18.97	12.43
111	2008	82	745	33.07	32.9	4.389	320.5	20.57	12.43
111	2008	82	800	33.22	31.22	5.36	318.1	18.55	12.46
111	2008	82	815	33.51	31.69	3.777	329.9	23.51	12.52
111	2008	82	830	33.93	31.32	4.293	338.6	22.21	12.79
111	2008	82	845	33.94	30.45	5.431	335.9	20.28	12.93
111	2008	82	900	34.23	30.25	5.286	357	25.04	12.92
111	2008	82	915	34.66	28.27	5.163	355.2	25.24	12.99
111	2008	82	930	35.48	27.77	5.876	359.3	27.32	13.8
111	2008	82	945	35.85	26.63	6.517	349.7	22.46	13.8
111	2008	82	1000	35.92	25.62	8.25	345.5	22.4	13.81
111	2008	82	1015	36.15	25.82	6.364	349.4	21.99	13.8
111	2008	82	1030	36.73	26.22	5.699	353.1	27.73	13.79
111	2008	82	1045	37.3	24.35	5.409	351.2	26.8	13.77
111	2008	82	1100	37	24.82	5.661	346.7	24.08	13.76
111	2008	82	1115	37.78	24.41	6.196	358.6	29.46	13.75
111	2008	82	1130	38.72	25.42	5.55	349.6	28.28	13.73
111	2008	82	1145	39.4	25.79	5.6	349.5	32.57	13.72
111	2008	82	1200	40.19	22.84	6.495	334.9	29.83	13.7
111	2008	82	1215	41.06	21.56	5.373	356.6	32.9	13.68
111	2008	82	1230	42.37	21.29	5.465	341	30.35	13.67
111	2008	82	1245	42.17	23.67	6.203	310	26.34	13.65
111	2008	82	1300	42.9	18.18	6.344	333	31.33	13.63
111	2008	82	1315	43.53	19.21	6.92	335.9	27.13	13.62
111	2008	82	1330	43.23	16.17	6.847	325.8	29.7	13.62
111	2008	82	1345	43.81	17.17	6.847	340.2	30.4	13.62
111	2008	82	1400	44.41	15.83	4.941	3.178	36.23	13.62
111	2008	82	1415	45.3	15.23	5.37	1.301	43.18	13.12
111	2008	82	1430	45.82	17.54	5.892	342.5	28.13	12.99
111	2008	82	1445	47.01	18.31	4.972	2.39	40.95	12.98
111	2008	82	1500	45.92	16.63	6.019	317.4	31.21	13.02
111	2008	82	1515	45.89	17.27	6.17	338.4	36.8	12.96

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	82	1530	47.12	14.83	4.972	7.17	34.73	12.93
111	2008	82	1545	47.74	13.86	5.481	4.605	30.1	12.9
111	2008	82	1600	47.38	14.22	6.138	350.2	29.92	12.89
111	2008	82	1615	47.49	13.59	7.05	355.9	26.95	12.87
111	2008	82	1630	47.3	13.79	6.303	346	27.53	12.96
111	2008	82	1645	46.82	15.09	5.242	348.7	35.09	13.13
111	2008	82	1700	46.92	13.96	6.906	335.6	24.47	13.09
111	2008	82	1715	47.15	15.23	6.543	337.5	24.46	12.89
111	2008	82	1730	47.68	13.79	5.342	342.6	31.06	12.84
111	2008	82	1745	47.93	13.99	5.6	353.2	29.01	12.78
111	2008	82	1800	47.65	13.76	6.581	354.6	21.87	12.76
111	2008	82	1815	46.93	13.35	5.844	324.4	20.82	12.74
111	2008	82	1830	46.49	13.52	4.746	349.7	23.21	12.73
111	2008	82	1845	46.22	15.4	3.122	345.2	19.68	12.71
111	2008	82	1900	45.58	14.96	1.84	336.3	19.96	12.7
111	2008	82	1915	44.89	17.51	1.462	326.1	14.85	12.69
111	2008	82	1930	43.96	19.12	1.375	349.1	10.54	12.67
111	2008	82	1945	43.22	19.76	1.496	336.8	20.85	12.66
111	2008	82	2000	43.59	18.85	2.824	345.3	21.31	12.65
111	2008	82	2015	43.08	21.4	1.491	335.9	18.36	12.63
111	2008	82	2030	42.3	22.27	2.125	359	24.44	12.63
111	2008	82	2045	41.81	22.71	2.304	348.2	20.14	12.62
111	2008	82	2100	41.21	23.78	2.749	342.1	18.9	12.61
111	2008	82	2115	40.71	23.98	3.241	343.6	19.76	12.61
111	2008	82	2130	40.72	23.98	3.634	339.8	20.21	12.6
111	2008	82	2145	40.56	25.96	3.596	356.3	28.47	12.59
111	2008	82	2200	39.8	26.53	2.913	3.795	21.51	12.58
111	2008	82	2215	39.47	26.46	3.622	13.24	18.72	12.57
111	2008	82	2230	39.27	28.34	2.135	8.67	25.22	12.58
111	2008	82	2245	38.46	30.01	1.598	350.8	21.09	12.56
111	2008	82	2300	37.53	30.89	0.951	7.16	26.43	12.55
111	2008	82	2315	37.33	31.72	1.932	7.79	24.7	12.55
111	2008	82	2330	36.73	33.63	1.97	351	18.64	12.53
111	2008	82	2345	35.93	36.72	1.956	350	18.63	12.52
111	2008	82	2400	35.21	36.45	1.879	329.5	19.67	12.52
111	2008	83	15	34.94	34.31	2.145	332.9	18.12	12.52
111	2008	83	30	35.51	31.66	3.94	351.7	18.3	12.5
111	2008	83	45	35.29	31.29	3.285	349.9	15.98	12.5
111	2008	83	100	35.07	29.72	4.373	340.5	14.05	12.5
111	2008	83	115	35.05	27.81	4.861	353.2	16.46	12.49
111	2008	83	130	35.29	25.63	5.88	7.23	25.05	12.48
111	2008	83	145	35.32	25.1	5.943	17.19	25.89	12.48
111	2008	83	200	35.12	24.12	6.932	23.73	21.11	12.48
111	2008	83	215	34.62	27.4	4.972	27.3	27.85	12.48
111	2008	83	230	33.72	31.62	3.781	42.55	35.95	12.46
111	2008	83	245	32.97	32.7	3.916	24.2	22.93	12.46
111	2008	83	300	32.5	34.48	2.822	31.73	31.28	12.45
111	2008	83	315	31.89	34.78	2.275	15.92	23.76	12.45
111	2008	83	330	31.46	35.62	2.622	2.613	18.85	12.44
111	2008	83	345	30.8	37.23	2.643	24.12	17.45	12.42
111	2008	83	400	30.22	39.18	2.411	1.742	21.95	12.42
111	2008	83	415	29.81	39.11	1.996	357.3	21.45	12.42
111	2008	83	430	29.33	40.18	1.337	5.041	21.58	12.4
111	2008	83	445	28.94	41.15	2.081	359.6	15.44	12.39
111	2008	83	500	28.78	39.51	2.306	348.8	19.98	12.39
111	2008	83	515	28.99	38.61	1.663	352.9	19.02	12.38
111	2008	83	530	28.64	40.22	1.406	16.63	18.62	12.37
111	2008	83	545	28.32	40.63	0.906	349.3	13.38	12.37
111	2008	83	600	27.91	44.32	1.395	359.1	10.19	12.36
111	2008	83	615	27.29	44.79	0.151	322.5	6.005	12.36

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	83	630	27.27	42.1	1.416	346.2	17	12.35
111	2008	83	645	27.56	40.66	1.856	339.2	17.58	12.34
111	2008	83	700	27.88	38.89	2.162	333.7	21.16	12.34
111	2008	83	715	28.02	38.75	1.174	301.4	25.33	12.37
111	2008	83	730	28.57	34.93	2.594	337	24.68	14
111	2008	83	745	29.45	34.16	3.203	2.266	25.06	13.97
111	2008	83	800	30.2	33.98	3.497	354.7	23.05	13.95
111	2008	83	815	30.88	34.22	4.428	8.72	25.72	13.93
111	2008	83	830	31.48	34.61	5.368	5.091	27.62	13.92
111	2008	83	845	32.31	34.41	5.262	0.837	24.86	13.9
111	2008	83	900	32.61	34.31	5.651	353.5	24.92	13.35
111	2008	83	915	32.92	33.4	5.85	336.6	25.74	13.88
111	2008	83	930	33.86	32.7	5.09	349.2	34.27	13.86
111	2008	83	945	33.76	32.43	5.761	333.8	28.28	13.84
111	2008	83	1000	34.48	29.81	4.859	12.51	34.37	13.83
111	2008	83	1015	35.32	29.87	4.732	8.7	39.11	13.81
111	2008	83	1030	36.01	30.21	4.293	350.1	34.62	13.79
111	2008	83	1045	35.96	30.81	4.774	338.3	32.45	13.78
111	2008	83	1100	35.46	30.64	4.018	307.5	41.74	13.77
111	2008	83	1115	36.56	30.21	4.287	332.3	42.04	13.75
111	2008	83	1130	37.9	28.13	3.104	89	74.6	13.75
111	2008	83	1145	38.02	28.4	2.993	274.4	66.93	13.73
111	2008	83	1200	38.68	27.59	4.245	283.7	53.93	13.7
111	2008	83	1215	39.91	25.41	4.504	51.33	50.59	13.68
111	2008	83	1230	41.12	24.1	4.804	39.58	38.23	13.67
111	2008	83	1245	41.07	24.44	3.978	36.19	57.21	13.65
111	2008	83	1300	41.82	23.5	3.296	29.8	59.89	13.64
111	2008	83	1315	41.66	26.68	3.364	120.6	60.77	13.62
111	2008	83	1330	40.96	30.86	5.516	217.7	29.71	13.62
111	2008	83	1345	40.45	31.73	7.07	223.5	27.94	13.62
111	2008	83	1400	39.96	34.04	7.69	232.6	24.31	13.62
111	2008	83	1415	39.92	35.75	6.9	229.4	25.33	13.14
111	2008	83	1430	40.38	36.79	7.17	234.8	28.57	12.98
111	2008	83	1445	39.89	32.94	7.71	243.6	25.71	12.92
111	2008	83	1500	40.21	31.7	8.1	241	27.7	12.9
111	2008	83	1515	40.59	35.52	7.5	234.6	26.44	12.89
111	2008	83	1530	40.63	34.98	7.53	229.6	28.92	12.88
111	2008	83	1545	41.38	33.65	6.976	257.6	32.09	12.87
111	2008	83	1600	41.7	31.7	5.898	242.3	25.92	12.85
111	2008	83	1615	41.56	32.84	7.03	253.5	27.93	12.84
111	2008	83	1630	41.12	34.65	7.32	244.4	26.59	12.84
111	2008	83	1645	40.72	34.82	6.867	238.5	26.27	12.86
111	2008	83	1700	41.13	35.25	6.527	235.5	27.92	12.88
111	2008	83	1715	41.57	37.16	6.34	242.4	25.18	12.99
111	2008	83	1730	41.58	34.25	5.834	251.1	20.85	12.92
111	2008	83	1745	41.58	34.65	5.735	244.3	25.69	12.86
111	2008	83	1800	41.96	32.44	4.772	239.8	22.91	12.78
111	2008	83	1815	41.94	35.49	4.176	249.6	26.37	12.73
111	2008	83	1830	41.92	35.55	3.269	245.3	22.86	12.72
111	2008	83	1845	41.38	38.7	2.836	240.4	24.2	12.71
111	2008	83	1900	40.67	43.59	2.32	222	18.32	12.69
111	2008	83	1915	39.41	50.76	3.535	230.5	21.66	12.68
111	2008	83	1930	38.61	52.88	1.974	231.2	18.67	12.67
111	2008	83	1945	38.16	55.39	2.04	259.8	34.02	12.65
111	2008	83	2000	38.03	54.56	2.622	264.9	19.83	12.63
111	2008	83	2015	37.8	57.48	2.302	247.6	15.84	12.63
111	2008	83	2030	37.53	60.97	2.364	252.6	15.86	12.61
111	2008	83	2045	37.28	62.28	2.409	248.2	21	12.61
111	2008	83	2100	37.11	60.57	2.351	245.6	21.14	12.6
111	2008	83	2115	37.42	57.92	3.104	251.2	17.93	12.58

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	83	2130	37.29	57.89	2.759	255.3	18.27	12.58
111	2008	83	2145	37.31	57.32	3.175	262.4	15.46	12.57
111	2008	83	2200	37.04	58.99	2.087	254.8	18.26	12.57
111	2008	83	2215	36.93	60.94	2.727	249.8	14.6	12.56
111	2008	83	2230	36.91	61.37	3.571	254.2	20.72	12.55
111	2008	83	2245	36.85	61.84	3.015	266.8	18.23	12.55
111	2008	83	2300	36.66	61.84	3.104	276	22.64	12.54
111	2008	83	2315	36.36	62.88	2.606	277.7	10.63	12.54
111	2008	83	2330	35.99	64.79	2.957	282.3	12.7	12.54
111	2008	83	2345	35.83	66.03	1.866	296	12.87	12.53
111	2008	83	2400	34.94	68.54	0.502	288.7	6.24	12.52
111	2008	84	15	33.75	72.1	0.21	311.1	8.36	12.5
111	2008	84	30	32.92	75	na	na	na	12.5
111	2008	84	45	32.21	76.5	na	na	na	12.49
111	2008	84	100	31.8	75.6	0.879	0.672	5.878	12.48
111	2008	84	115	31.99	76	1.267	27.1	23.53	12.47
111	2008	84	130	31.62	76	0.301	30.73	10.22	12.46
111	2008	84	145	31.38	75.6	0.155	14.51	4.8	12.46
111	2008	84	200	30.86	75.6	0.646	11.08	8.93	12.45
111	2008	84	215	30.58	69.4	1.346	28.18	16.2	12.44
111	2008	84	230	30.88	66.12	0.573	32.05	13.67	12.43
111	2008	84	245	30.47	70.5	na	na	na	12.42
111	2008	84	300	29.63	70.6	0.018	4.836	3.693	12.42
111	2008	84	315	29.29	70.1	na	na	na	12.4
111	2008	84	330	29.14	68.1	0.691	24.49	9.69	12.4
111	2008	84	345	29.36	67.34	0.303	28.1	8.97	12.4
111	2008	84	400	29.26	65.56	0.8	34.08	17.64	12.38
111	2008	84	415	29.55	62.34	1.46	50.04	20.51	12.38
111	2008	84	430	30.26	60.67	1.828	58.02	24.31	12.37
111	2008	84	445	30.59	59.76	2.909	57.8	21.41	12.36
111	2008	84	500	30.51	60.9	2.364	59.34	26.17	12.36
111	2008	84	515	30.16	61.7	2.592	43.62	28.19	12.36
111	2008	84	530	30.27	60.77	3.027	47.36	29.29	12.36
111	2008	84	545	30.59	57.64	3.634	55.95	27.66	12.36
111	2008	84	600	30.74	57.58	3.189	58.36	29.16	12.36
111	2008	84	615	30.54	58.41	2.838	52.17	25.81	12.36
111	2008	84	630	30.35	58.75	3.062	58.72	22.29	12.36
111	2008	84	645	30.1	59.72	2.342	63.85	24.95	12.36
111	2008	84	700	29.93	59.85	2.344	47.6	31.04	12.35
111	2008	84	715	30.29	58.75	1.989	58.42	30.51	12.4
111	2008	84	730	30.89	56.84	3.154	55.38	22.61	13.96
111	2008	84	745	31.61	54.69	3.708	51.08	21.66	13.94
111	2008	84	800	32.45	52.21	4.359	59.77	26.48	13.91
111	2008	84	815	33.3	49.92	5.233	59.99	27.03	13.89
111	2008	84	830	34.11	44.79	5.751	76.7	26.78	13.87
111	2008	84	845	35.07	42.85	4.804	66.73	25.49	13.86
111	2008	84	900	35.59	40	5.759	55.54	25.22	13.82
111	2008	84	915	36.33	37.95	5.217	53.26	25.63	13.83
111	2008	84	930	37.1	36.3	5.532	43.89	31.57	13.8
111	2008	84	945	37.6	35.83	5.038	51.98	30.73	13.79
111	2008	84	1000	38.25	34.93	5.04	55.89	30.07	13.77
111	2008	84	1015	39.46	33.96	4.162	45.88	36.99	13.75
111	2008	84	1030	40.06	33.92	4.275	75	33.9	13.73
111	2008	84	1045	40.52	32.51	4.414	34.63	27.86	13.72
111	2008	84	1100	41.24	32.51	3.487	72.5	43.66	13.7
111	2008	84	1115	41.72	31.77	3.545	54.29	53.62	13.68
111	2008	84	1130	42.03	31.77	3.775	38.84	50.42	13.67
111	2008	84	1145	42.67	31.34	3.33	53.66	56.75	13.66
111	2008	84	1200	43.06	31.2	3.303	58.6	67.09	13.64
111	2008	84	1215	43.44	36.72	2.612	205.6	77.7	13.63

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	84	1230	42.56	33.44	3.948	195.6	34.88	13.62
111	2008	84	1245	42.83	33.47	4.784	182.6	28.24	13.62
111	2008	84	1300	42.7	42.5	5.423	188.6	26.62	13.62
111	2008	84	1315	42.3	38.92	5.229	206.6	33.53	13.62
111	2008	84	1330	43.21	40.76	5.314	191.8	24.5	13.6
111	2008	84	1345	42.17	44.51	6.479	186.6	25.4	13.6
111	2008	84	1400	42	44.18	6.229	200.1	27.8	13.61
111	2008	84	1415	41.65	41.2	6.029	175.2	24.95	13.48
111	2008	84	1430	42.21	41.47	5.318	176	25.58	13.06
111	2008	84	1445	42.43	39.26	6.124	179.8	24.96	13
111	2008	84	1500	42.7	42.98	5.31	181.3	28.12	12.97
111	2008	84	1515	43.23	42.31	5.179	185.4	21.02	12.95
111	2008	84	1530	43.93	38.99	4.285	213.3	27.71	12.93
111	2008	84	1545	44.27	39.56	4.696	197.4	25.92	12.92
111	2008	84	1600	43.9	44.78	5.651	196.2	28.86	12.9
111	2008	84	1615	43.41	46.69	5.592	203.1	26.73	12.89
111	2008	84	1630	43.54	47.12	5.193	194.4	27.8	12.87
111	2008	84	1645	43.17	48.19	4.651	200.1	28.37	12.85
111	2008	84	1700	43.11	45.55	5.076	217.8	27.64	12.84
111	2008	84	1715	43.55	48.56	4.964	173.8	27.15	12.81
111	2008	84	1730	42.42	49.57	5.602	211.9	27.02	12.79
111	2008	84	1745	41.93	52.08	5.302	237.4	17.79	12.76
111	2008	84	1800	41.67	53.73	4.45	228.7	24.03	12.74
111	2008	84	1815	41.56	55.04	3.479	200.1	29.32	12.72
111	2008	84	1830	40.75	55.91	3.841	221.4	29.91	12.71
111	2008	84	1845	40.22	56.88	2.796	232.1	22.43	12.69
111	2008	84	1900	39.46	59.6	3.159	259.6	19.85	12.68
111	2008	84	1915	38.86	60.91	1.568	226.1	21	12.67
111	2008	84	1930	38.54	62.66	2.266	264.5	16.22	12.66
111	2008	84	1945	38.16	63.77	1.465	254.7	18.64	12.64
111	2008	84	2000	37.54	65.55	0.249	167.5	27.13	12.63
111	2008	84	2015	37.59	67.13	0.186	129	8.49	12.61
111	2008	84	2030	37.05	70.2	0.301	291.7	2.858	12.61
111	2008	84	2045	36.18	71.1	0.009	314.7	0	12.59
111	2008	84	2100	35.31	73.3	na	na	na	12.57
111	2008	84	2115	34.69	74.1	na	na	na	12.57
111	2008	84	2130	34.62	74.5	0.371	325.1	2.446	12.56
111	2008	84	2145	34.27	75.6	0.694	330.8	12.74	12.56
111	2008	84	2200	34.11	75.3	0.715	350.9	19.26	12.54
111	2008	84	2215	34.15	72.8	0.8	358	13.77	12.54
111	2008	84	2230	34.33	70.9	0.852	344.1	14.09	12.53
111	2008	84	2245	34.12	65.54	1.13	350.9	16.99	12.52
111	2008	84	2300	34.87	58.24	1.972	7.29	15.4	12.51
111	2008	84	2315	35.25	55.13	1.875	22.11	19.38	12.51
111	2008	84	2330	35.85	49.53	3.076	30.6	25.25	12.5
111	2008	84	2345	37.01	45.3	4.385	48.6	32.01	12.5
111	2008	84	2400	37.2	44.8	4.133	46.58	25.83	12.5
111	2008	85	15	36.81	47.44	4.853	32.93	28.75	12.5
111	2008	85	30	36.42	48.11	4.389	48.03	27.59	12.5
111	2008	85	45	36.08	50.39	4.782	52.38	27.08	12.5
111	2008	85	100	35.64	51.42	4.546	40.24	28.1	12.5
111	2008	85	115	35.27	51.26	4.504	37.58	28.96	12.49
111	2008	85	130	35.05	51.19	4.47	40.44	24.2	12.48
111	2008	85	145	34.71	51.79	4.492	34.5	28.35	12.48
111	2008	85	200	34.36	50.19	4.234	43.11	27.96	12.47
111	2008	85	215	34.05	47.94	4.831	50.28	30.62	12.46
111	2008	85	230	33.71	46.17	4.706	48.97	25.02	12.46
111	2008	85	245	33.28	43.08	4.52	39.28	31.78	12.45
111	2008	85	300	33.04	41.85	5.03	33.71	22.74	12.45
111	2008	85	315	32.69	40.21	5.078	38.81	30.2	12.44

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	85	330	32.36	39.64	4.291	29.75	25.26	12.43
111	2008	85	345	32.06	38.2	4.738	35.14	32.37	12.42
111	2008	85	400	31.81	36.36	5.352	30.32	33.2	12.41
111	2008	85	415	31.52	36.86	5.173	38.74	31.95	12.41
111	2008	85	430	31.15	37.06	5.161	28.5	28.58	12.4
111	2008	85	445	30.79	37	4.714	37.82	27.44	12.4
111	2008	85	500	30.43	39.34	3.124	16.47	25.8	12.4
111	2008	85	515	29.98	40.48	4.303	23.49	21.1	12.39
111	2008	85	530	29.91	40.95	3.647	29.19	33.64	12.38
111	2008	85	545	29.91	41.66	2.759	31.58	33.34	12.37
111	2008	85	600	29.85	41.82	2.703	21.47	25.6	12.37
111	2008	85	615	29.69	43.2	2.921	22.7	21.42	12.36
111	2008	85	630	29.66	43.06	3.864	16.28	24.61	12.36
111	2008	85	645	29.56	44.47	4.385	19.16	24.25	12.35
111	2008	85	700	29.59	45.61	3.332	40.53	30.03	12.36
111	2008	85	715	29.62	47.25	3.269	38.97	31.17	12.38
111	2008	85	730	30.17	47.92	4.067	39.19	28.87	13.94
111	2008	85	745	31.02	48.26	4.98	38.23	25.22	13.92
111	2008	85	800	31.95	47.92	5.29	34.9	24.66	13.9
111	2008	85	815	32.48	47.34	6.724	40.42	25.81	13.88
111	2008	85	830	33.16	47.14	5.342	39.03	26.59	13.87
111	2008	85	845	33.8	46.67	6.037	54.62	29.8	13.86
111	2008	85	900	34.06	46.73	5.554	64.9	30.2	13.77
111	2008	85	915	34.97	45.62	5.56	60.61	30.64	13.84
111	2008	85	930	35.56	44.98	5.09	57.13	38.94	13.82
111	2008	85	945	36.44	44.27	6.118	50.85	28.23	13.8
111	2008	85	1000	36.49	43.6	5.487	57.23	30.88	13.79
111	2008	85	1015	37.08	43.54	4.889	63.7	43.14	13.78
111	2008	85	1030	37.54	41.39	5.747	32.58	27.44	13.76
111	2008	85	1045	38.15	43.47	4.2	53.28	34.22	13.74
111	2008	85	1100	38.94	39.81	4.194	74.1	45.54	13.73
111	2008	85	1115	39.63	37.3	3.666	34.45	36.89	13.72
111	2008	85	1130	39.48	37.43	2.89	157	91.3	13.7
111	2008	85	1145	40.49	34.68	2.814	289.5	89.9	13.68
111	2008	85	1200	41.39	40.74	3.457	153	71.2	13.66
111	2008	85	1215	40.67	43.86	6.821	189.3	24.86	13.66
111	2008	85	1230	40.57	45.63	6.851	185.2	24.43	13.66
111	2008	85	1245	40.21	47.84	7.37	197.3	28.69	13.65
111	2008	85	1300	40.41	45.53	6.714	196.4	31.66	13.65
111	2008	85	1315	40.2	48.18	7.19	196	30.95	13.64
111	2008	85	1330	40.09	49.28	7.45	193.1	32.21	13.64
111	2008	85	1345	40.25	49.11	7.01	200.1	31.49	13.64
111	2008	85	1400	39.78	52.59	7.35	200.5	27.4	13.64
111	2008	85	1415	39.85	51.82	7.44	190.7	27.12	13.29
111	2008	85	1430	39.38	53.97	8.12	217.8	26.34	13.03
111	2008	85	1445	39.13	53.73	8.22	201.7	20.94	12.97
111	2008	85	1500	38.99	56.95	7.68	207.6	24.26	12.95
111	2008	85	1515	39.78	56.34	6.888	203.9	26.36	12.92
111	2008	85	1530	39.9	56.68	6.857	235.7	28.75	12.9
111	2008	85	1545	39.45	57.38	7.16	237.7	31.57	12.88
111	2008	85	1600	40.18	55.27	6.327	237.9	30.38	12.88
111	2008	85	1615	39.36	56.44	7.33	225.5	27.34	12.86
111	2008	85	1630	39.3	58.35	6.803	213.2	31.32	12.85
111	2008	85	1645	39.32	57.21	7.34	203.3	30.17	12.83
111	2008	85	1700	39.13	59.26	7.27	203	29.2	12.81
111	2008	85	1715	38.86	55.81	7.16	196.7	21.1	12.82
111	2008	85	1730	38.68	62.87	6.716	197.1	23.13	12.85
111	2008	85	1745	38.79	60.13	6.801	189.8	28.05	12.87
111	2008	85	1800	38.34	64.39	7.3	194.4	24.11	12.81
111	2008	85	1815	37.82	66.84	6.869	199.2	27.9	12.75

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	85	1830	37.71	66.27	7.37	205	19.63	12.71
111	2008	85	1845	37.62	65.87	7.64	201.5	24.58	12.69
111	2008	85	1900	37.58	66.41	7.03	202.5	25.63	12.69
111	2008	85	1915	37.68	66.78	6.559	205	27	12.67
111	2008	85	1930	37.86	63.97	6.859	215.9	23.91	12.66
111	2008	85	1945	37.96	63.93	6.753	213.7	32.34	12.65
111	2008	85	2000	38.18	62.97	6.599	224.7	31.17	12.64
111	2008	85	2015	38.44	60.82	7.57	221	22.17	12.63
111	2008	85	2030	38.58	60.32	8.13	214.6	22.03	12.63
111	2008	85	2045	38.72	61.89	8.42	219.5	24.33	12.62
111	2008	85	2100	38.87	58.27	8.16	209.6	25.2	12.61
111	2008	85	2115	39.07	59.14	7.89	216.1	21.62	12.61
111	2008	85	2130	39.14	61.15	8.52	212.9	27.93	12.61
111	2008	85	2145	39.25	60.31	8.7	219.7	24.39	12.61
111	2008	85	2200	39.36	61.12	8.33	227.3	27.45	12.6
111	2008	85	2215	39.52	62.83	8.37	227.1	24.14	12.59
111	2008	85	2230	39.72	62.39	7.34	227.9	28.54	12.59
111	2008	85	2245	39.89	62.26	7.62	226.6	28.24	12.58
111	2008	85	2300	40.03	61.25	7.62	233.3	26.2	12.58
111	2008	85	2315	40.17	61.18	6.97	233.5	28.49	12.58
111	2008	85	2330	40.34	60.25	6.124	248.8	26.82	12.57
111	2008	85	2345	40.48	60.35	7.27	254	21.2	12.57
111	2008	85	2400	39.99	73.5	8.79	247.6	26.3	12.57
111	2008	86	15	38.53	75	8.42	220.6	25.82	12.56
111	2008	86	30	39.24	70	7.83	202.9	24.65	12.55
111	2008	86	45	40.26	68.35	7.51	204.9	27.14	12.55
111	2008	86	100	40.71	70.4	8.18	214.7	26.23	12.55
111	2008	86	115	40.94	70.6	8.37	217.7	26.45	12.54
111	2008	86	130	41.32	69.83	7.49	223.6	27.64	12.53
111	2008	86	145	41.79	69.02	7.62	232.8	29.42	12.53
111	2008	86	200	42.02	69.99	7.01	240.2	28.65	12.52
111	2008	86	215	42.31	67.52	8.85	253	22.53	12.52
111	2008	86	230	42.54	67.55	8.79	250.9	23.55	12.52
111	2008	86	245	42.46	70.2	8.5	247.8	28.26	12.51
111	2008	86	300	42.31	71.5	7.58	248.3	28.89	12.51
111	2008	86	315	42.4	72.4	8.06	252.2	23.99	12.51
111	2008	86	330	42.51	71.4	8.76	251.2	25.94	12.5
111	2008	86	345	42.57	72.1	8.97	254.7	23.8	12.49
111	2008	86	400	42.56	72.9	10.35	260	26.86	12.49
111	2008	86	415	42.5	74.7	9.61	259.8	20.48	12.47
111	2008	86	430	42.57	76.4	10.69	260.3	21.49	12.47
111	2008	86	445	42.52	77.7	9.05	255.5	22.41	12.47
111	2008	86	500	42.72	78.5	9.01	259.8	27.41	12.46
111	2008	86	515	42.74	78.9	9.28	254.1	24.66	12.46
111	2008	86	530	42.92	79.5	9.46	257.5	20.81	12.44
111	2008	86	545	43.18	79.6	10.38	257.3	22.46	12.44
111	2008	86	600	43.3	79.3	9.56	258.8	22.27	12.45
111	2008	86	615	43.47	78.9	11.19	262.6	21.15	12.45
111	2008	86	630	43.49	78.8	8.8	264.4	24.43	12.44
111	2008	86	645	43.77	77.8	9.55	266.9	18.9	12.44
111	2008	86	700	44.02	76.9	10.1	259.6	20.45	12.45
111	2008	86	715	44.12	75.7	11.14	259.3	20.7	12.44
111	2008	86	730	44.22	75.2	9.82	263.9	21.87	12.44
111	2008	86	745	44.29	75.1	10.14	268.2	19.53	12.45
111	2008	86	800	44.37	74.4	9.81	266.5	22.44	12.48
111	2008	86	815	44.5	74	9.17	268.6	18.39	12.53
111	2008	86	830	44.49	73.8	8.8	271.6	19	12.64
111	2008	86	845	44.54	70.9	8.54	269.6	21.22	12.82
111	2008	86	900	45.53	66.25	9.27	272.6	17.34	13.34
111	2008	86	915	46.1	60.09	11.54	282.5	17.81	13.63

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	86	930	46.93	56.31	10.41	280.3	15.58	13.62
111	2008	86	945	48.06	51.08	9.65	281.5	19.66	13.61
111	2008	86	1000	48.87	48.26	10.95	284.9	19.96	13.6
111	2008	86	1015	49.62	47.09	9.61	276.8	21.27	13.58
111	2008	86	1030	50.49	47.69	8.49	268.4	21.11	13.57
111	2008	86	1045	50.44	52.08	8.16	263.4	26.64	13.56
111	2008	86	1100	49.82	56.86	8.67	247.1	23.22	13.55
111	2008	86	1115	49.52	55.02	7.42	256.8	24.38	13.55
111	2008	86	1130	49.36	55.32	7.75	258	20.07	13.55
111	2008	86	1145	49.55	57.09	8	260.4	19.03	13.56
111	2008	86	1200	50.53	55.19	8.05	249.5	23.86	13.54
111	2008	86	1215	50.62	50.8	8.76	256.7	21.4	13.54
111	2008	86	1230	50.92	54.68	9.64	265.6	17.2	13.53
111	2008	86	1245	50.27	57.89	8.95	264.3	23.34	13.53
111	2008	86	1300	51.4	55.84	7.34	248.2	22.21	13.52
111	2008	86	1315	54.26	42.79	6.728	259.9	26.38	13.49
111	2008	86	1330	57.39	31.01	10.39	297.9	30.69	13.45
111	2008	86	1345	57.74	31.71	13.25	306.3	21.7	13.47
111	2008	86	1400	57.81	31.11	12.21	311.6	23.62	13.48
111	2008	86	1415	58.13	30.01	9.24	327.9	23.71	13.48
111	2008	86	1430	58.83	30.28	9.85	324.4	25.81	13.23
111	2008	86	1445	59.08	29.11	12.93	319.8	22.31	13.13
111	2008	86	1500	59.24	26.83	12.5	316.4	20.15	13.11
111	2008	86	1515	58.94	27.06	13.84	298.1	16.93	13.24
111	2008	86	1530	59.57	26.76	11.43	302.7	26.79	13.19
111	2008	86	1545	58.89	27.53	8.13	326.8	24.86	13.14
111	2008	86	1600	58.08	28.37	7.96	326.2	27.56	13.09
111	2008	86	1615	58.51	27.47	5.622	353.4	32.15	12.99
111	2008	86	1630	57.95	27.17	7.88	322.3	21.71	12.95
111	2008	86	1645	58.29	26.36	5.642	325.1	23.44	12.95
111	2008	86	1700	58.78	27.27	5.201	330.4	22.85	12.98
111	2008	86	1715	58.8	27.8	5.775	351.6	34.61	12.87
111	2008	86	1730	58.48	27.4	5.759	358.1	23.32	12.86
111	2008	86	1745	58.73	27.53	5.238	359.7	24.43	12.84
111	2008	86	1800	58.57	27.7	4.222	350.4	32.44	12.79
111	2008	86	1815	58.49	27	4.766	319.2	24.41	12.77
111	2008	86	1830	58.16	27.3	5.179	335.9	26	12.76
111	2008	86	1845	57.57	28.1	3.785	328.3	21.11	12.75
111	2008	86	1900	56.94	29.54	2.689	341.6	17.46	12.74
111	2008	86	1915	55.84	31.12	2.367	348.7	19.11	12.73
111	2008	86	1930	54.89	31.99	1.528	345.7	16.55	12.71
111	2008	86	1945	53.9	34.94	0.683	345.8	7.67	12.71
111	2008	86	2000	52.2	37.52	0.366	348.3	4.318	12.69
111	2008	86	2015	51.19	44.48	0.143	341.6	3.319	12.68
111	2008	86	2030	49.32	47.5	0.022	331	0.129	12.67
111	2008	86	2045	48.11	52.29	na	na	na	12.66
111	2008	86	2100	47.09	49.21	0.011	358.5	0	12.65
111	2008	86	2115	46.84	51.16	0.578	357.5	9.34	12.63
111	2008	86	2130	46.16	51.06	0.443	0.909	3.38	12.63
111	2008	86	2145	46.36	51.43	0.651	354.1	6.684	12.62
111	2008	86	2200	45.82	50.86	1.078	356.9	12.07	12.61
111	2008	86	2215	45.63	48.29	0.942	357.9	10.18	12.6
111	2008	86	2230	46.56	44.84	1.879	0.534	18.14	12.6
111	2008	86	2245	47.19	43.5	1.814	355.7	17.03	12.6
111	2008	86	2300	47.26	42.46	1.567	1.637	21.65	12.59
111	2008	86	2315	46.99	42.59	0.415	357.1	12.02	12.59
111	2008	86	2330	46.06	47.79	na	na	na	12.58
111	2008	86	2345	43.77	52.98	0.103	235.5	1.688	12.58
111	2008	86	2400	42.57	56.7	0.371	324.7	6.242	12.57
111	2008	87	15	42.65	53.92	1.289	353.2	6.113	12.56

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	87	30	41.94	60.92	0.802	302.7	4.669	12.56
111	2008	87	45	40.69	63.7	na	na	na	12.55
111	2008	87	100	39.83	64.1	na	na	na	12.55
111	2008	87	115	39.74	61.39	1.458	1.022	7.74	12.54
111	2008	87	130	39.64	64.85	0.286	14.18	4.649	12.53
111	2008	87	145	38.61	67.49	na	na	na	12.53
111	2008	87	200	38.27	68.17	na	na	na	12.52
111	2008	87	215	37.95	66.66	na	na	na	12.52
111	2008	87	230	38.02	66.77	na	na	na	12.51
111	2008	87	245	37.74	66.97	na	na	na	12.51
111	2008	87	300	37.44	69.82	na	na	na	12.5
111	2008	87	315	36.6	72.6	na	na	na	12.5
111	2008	87	330	36.05	72.6	na	na	na	12.49
111	2008	87	345	35.82	73.2	na	na	na	12.48
111	2008	87	400	35.68	70.9	0.3	15.4	4.275	12.48
111	2008	87	415	35.81	72.4	0.009	341.9	0.006	12.47
111	2008	87	430	35.04	73.9	0.009	356	0	12.46
111	2008	87	445	35.07	73.4	na	na	na	12.46
111	2008	87	500	34.85	75.8	na	na	na	12.45
111	2008	87	515	35.28	74.6	na	na	na	12.45
111	2008	87	530	35.35	76.4	na	na	na	12.45
111	2008	87	545	36.28	69.48	1.02	359.9	7.18	12.45
111	2008	87	600	37.03	64.29	1.646	35.4	29.41	12.45
111	2008	87	615	37.88	62.55	0.371	351	14.31	12.44
111	2008	87	630	37.92	64.32	0.191	66.55	6.35	12.43
111	2008	87	645	37.55	64.49	0.145	8.07	4.105	12.43
111	2008	87	700	37.95	65.43	0.293	341.4	18.81	12.43
111	2008	87	715	38.53	61.78	1.391	19.71	22	12.43
111	2008	87	730	38.97	63.42	0.585	354.1	14.14	12.43
111	2008	87	745	39.09	64.08	0.449	353	9.05	12.43
111	2008	87	800	39.85	58.55	1.009	28.39	18.09	12.45
111	2008	87	815	41.08	56.3	1.26	32.57	17.62	12.49
111	2008	87	830	41.81	54.43	1.688	18.45	23.95	12.54
111	2008	87	845	42.59	53.65	0.172	8.85	7.59	12.63
111	2008	87	900	43.42	50.57	1.151	5.918	20.71	12.73
111	2008	87	915	44.39	50.4	0.342	336.3	14.58	12.82
111	2008	87	930	45.18	45.14	1.971	28.94	23.28	12.93
111	2008	87	945	45.79	46.61	1.757	26.17	25.86	12.97
111	2008	87	1000	46.32	45.07	1.864	26.87	28.75	12.96
111	2008	87	1015	46.94	43.02	0.866	352	28.44	12.98
111	2008	87	1030	46.85	43.79	1.877	306.2	21.9	12.86
111	2008	87	1045	46.77	43.19	0.352	250.3	16.78	12.81
111	2008	87	1100	47.12	42.85	0.489	228.7	12.92	12.82
111	2008	87	1115	47.27	51.79	2.379	226.8	22.41	12.95
111	2008	87	1130	46.47	48.58	1.635	221.6	23.8	12.97
111	2008	87	1145	46.96	51.29	2.203	217.8	41.55	12.98
111	2008	87	1200	46.99	54.03	1.937	185.8	29.7	12.98
111	2008	87	1215	46.47	57.48	3.829	218.8	21.74	13.06
111	2008	87	1230	46.47	54.87	3.636	228.5	22.54	13.04
111	2008	87	1245	46.88	55.2	4.264	239.4	22.06	13.14
111	2008	87	1300	47.36	57.31	4.542	221.8	26.05	13.35
111	2008	87	1315	46.69	57.57	4.551	249.8	26.98	13
111	2008	87	1330	46.28	59.27	4.794	247	26.72	12.88
111	2008	87	1345	45.69	61.12	4.851	263.1	24.24	12.83
111	2008	87	1400	45.38	65.88	3.557	253.3	23.19	12.8
111	2008	87	1415	44.83	68.03	3.477	256.8	26.25	12.74
111	2008	87	1430	43.96	72.4	4.182	248.3	21.66	12.74
111	2008	87	1445	43.36	74.2	2.296	256.9	30.9	12.71
111	2008	87	1500	43.38	73.9	1.804	285.2	27.44	12.67
111	2008	87	1515	43.38	74.7	0.894	249.4	14.47	12.66

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	87	1530	43.62	74.4	0.128	12.65	10.83	12.64
111	2008	87	1545	44.08	75.1	1.433	47.18	31.18	12.63
111	2008	87	1600	44.45	73	1.103	35.53	26.25	12.61
111	2008	87	1615	44.57	74.6	1.5	61.99	35	12.61
111	2008	87	1630	44.75	74.6	1.534	130.3	29.66	12.59
111	2008	87	1645	44.52	75.9	1.778	146.6	32.98	12.56
111	2008	87	1700	44.38	75.1	1.06	91.1	36.57	12.55
111	2008	87	1715	44.54	73	1.714	40.44	20.38	12.54
111	2008	87	1730	44.62	72.9	3.088	50.21	21.67	12.52
111	2008	87	1745	44.75	73.1	2.312	48.57	26.28	12.51
111	2008	87	1800	44.85	73.1	1.27	49.57	33.68	12.5
111	2008	87	1815	44.2	80.6	2.124	173.6	65.78	12.5
111	2008	87	1830	43.04	84	3.173	180.9	22.64	12.49
111	2008	87	1845	42.33	86.2	3.823	183.6	21.35	12.48
111	2008	87	1900	42.11	86.5	2.796	192.4	24.26	12.48
111	2008	87	1915	42	86.4	2.767	190.8	22.52	12.47
111	2008	87	1930	41.87	86	2.884	185	23.17	12.47
111	2008	87	1945	41.93	85.4	1.807	184	27.02	12.46
111	2008	87	2000	42.06	84.8	1.176	179.8	32.91	12.46
111	2008	87	2015	42.08	84.3	1.951	190.2	23.77	12.46
111	2008	87	2030	41.97	84.2	2.132	192.2	17.61	12.45
111	2008	87	2045	42.04	83.5	2.637	159.1	26.38	12.45
111	2008	87	2100	42.18	83	3.241	149.8	18.24	12.45
111	2008	87	2115	42.19	82	3.207	140.6	22.12	12.45
111	2008	87	2130	42.19	81.7	1.528	149.3	30.49	12.45
111	2008	87	2145	42.23	81	3.348	134.6	19.26	12.45
111	2008	87	2200	42.09	80.8	3.829	132.3	20.97	12.44
111	2008	87	2215	42.07	80.5	3.469	153.1	18.52	12.43
111	2008	87	2230	42.08	79.8	3.295	126.2	23.32	12.43
111	2008	87	2245	42.2	78.5	3.14	103.6	26.5	12.43
111	2008	87	2300	42.32	77.6	3.328	115.2	27.59	12.43
111	2008	87	2315	42.38	78.5	3.964	126.3	19.62	12.43
111	2008	87	2330	42.3	79.7	3.06	138.4	21.66	12.43
111	2008	87	2345	41.94	81	3.96	117.5	18.31	12.43
111	2008	87	2400	41.86	81.1	4.283	109.7	21.46	12.42
111	2008	88	15	41.88	80.7	3.646	95.9	26.72	12.42
111	2008	88	30	41.56	83.8	3.134	100.9	28.39	12.42
111	2008	88	45	41.32	84.1	3.757	82.5	39.65	12.42
111	2008	88	100	41.03	85.8	3.509	73.6	28.95	12.42
111	2008	88	115	40.85	85.8	3.807	92.2	26.43	12.42
111	2008	88	130	40.75	85.7	3.992	93.4	25.3	12.41
111	2008	88	145	40.74	84.8	4.347	99.7	20.97	12.41
111	2008	88	200	40.81	83.2	3.797	107.1	23.48	12.41
111	2008	88	215	40.88	81.4	4.119	103.1	25.96	12.41
111	2008	88	230	40.91	80.5	3.052	96	28.6	12.41
111	2008	88	245	40.83	80.5	2.86	77.9	28.96	12.41
111	2008	88	300	40.74	80.1	3.362	85.3	26.04	12.41
111	2008	88	315	40.71	79.4	3.321	84.6	28.95	12.41
111	2008	88	330	40.81	78.6	3.074	76.3	26.15	12.41
111	2008	88	345	40.93	78.4	3.257	71.3	31.94	12.4
111	2008	88	400	41	78.8	3.672	104.1	22.62	12.4
111	2008	88	415	41.12	77.7	4.313	103.6	21.04	12.41
111	2008	88	430	41.16	78	4.681	104.2	25.96	12.41
111	2008	88	445	41.15	77.6	3.813	85	28	12.4
111	2008	88	500	40.99	78.5	3.362	81.4	27.74	12.4
111	2008	88	515	40.91	78.4	4.22	53.94	22.41	12.4
111	2008	88	530	40.88	79.3	3.813	45.22	27.1	12.4
111	2008	88	545	40.57	79.9	4.563	58.82	29.88	12.39
111	2008	88	600	40.41	80.2	4.913	67.26	25.5	12.4
111	2008	88	615	40.27	81	4.242	75.7	25.72	12.39

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	88	630	40.14	82.8	5.379	70.9	27.33	12.39
111	2008	88	645	40.01	83.6	4.655	73	37.33	12.39
111	2008	88	700	40.06	82.7	4.409	63.91	30.43	12.39
111	2008	88	715	40.24	81.8	4.27	73	29.55	12.4
111	2008	88	730	40.6	80.8	3.946	80.5	30.03	12.56
111	2008	88	745	41.16	79.7	4.188	81	27.51	12.97
111	2008	88	800	41.68	78.5	5.368	78.6	25.5	13.37
111	2008	88	815	42.31	77.4	4.947	78.6	23.79	13.14
111	2008	88	830	42.81	77.9	4.389	80.9	25.01	13.07
111	2008	88	845	43.31	76.8	4.115	78	31.9	13.1
111	2008	88	900	43.73	75.9	3.843	55.08	31.24	13.09
111	2008	88	915	44.09	75.4	2.816	57.23	34.35	12.97
111	2008	88	930	44.4	74.3	3.92	48.18	29.35	13.02
111	2008	88	945	45.14	71.9	3.72	69.37	36.87	13.14
111	2008	88	1000	46.38	70.6	4.015	32.82	35.84	13.24
111	2008	88	1015	46.52	71.3	4.389	34.34	26.51	13.18
111	2008	88	1030	46.23	71.3	5.366	28.82	23.2	13.22
111	2008	88	1045	45.97	71.8	4.76	27.91	29.83	12.97
111	2008	88	1100	45.01	73.7	5.221	26	29.5	12.84
111	2008	88	1115	44.06	75.4	5.32	46.93	26	12.84
111	2008	88	1130	43.58	78.4	5.096	47.45	25.56	12.8
111	2008	88	1145	42.84	78	5.219	66.07	26.07	12.82
111	2008	88	1200	42.8	78.1	4.373	63.89	30.91	12.87
111	2008	88	1215	43.25	77	4.557	62.03	29.61	12.89
111	2008	88	1230	43.59	76.2	4.323	48.56	34.51	13.01
111	2008	88	1245	43.98	74.5	3.562	34.22	33.97	13.1
111	2008	88	1300	44.41	74.2	3.765	53.23	35.11	13.49
111	2008	88	1315	45.2	72	4.484	46.36	28.47	13.64
111	2008	88	1330	46.42	70.7	3.813	59.3	31.21	13.62
111	2008	88	1345	47.53	67.82	4.035	46.41	42.15	13.59
111	2008	88	1400	48.27	67.54	4.148	31.62	41.08	13.57
111	2008	88	1415	48.12	70.2	5.155	9.73	24.08	13.55
111	2008	88	1430	47.84	70.5	4.627	12.61	31.06	13.56
111	2008	88	1445	47.22	72.5	5.042	7.11	20.43	13.55
111	2008	88	1500	46.24	73.9	5.542	6.026	25.41	13.11
111	2008	88	1515	46.05	72.4	5.703	24.86	25.43	13.47
111	2008	88	1530	45.5	73.9	5.219	29.37	36.73	13.04
111	2008	88	1545	44.12	77.5	6.811	26.64	28.17	12.87
111	2008	88	1600	43.23	78	6.321	34.72	29.62	12.84
111	2008	88	1615	43.12	77	5.213	40.1	29.42	12.89
111	2008	88	1630	43.28	77.1	4.456	51.5	31.81	12.83
111	2008	88	1645	43.13	77.4	3.239	51.92	27.51	12.76
111	2008	88	1700	43.21	77.7	3.12	23.03	27.6	12.73
111	2008	88	1715	43.39	78	3.7	5.992	25.44	12.72
111	2008	88	1730	43.55	80.5	3.329	2.988	25.61	12.71
111	2008	88	1745	43.3	82.3	4.079	8.69	28.06	12.69
111	2008	88	1800	43.22	82.8	3.658	22.2	26.85	12.68
111	2008	88	1815	42.94	82.4	4.001	29.79	24.96	12.67
111	2008	88	1830	42.9	81.2	4.393	24.92	25.86	12.66
111	2008	88	1845	42.8	80.3	4.925	20.63	23.21	12.66
111	2008	88	1900	42.86	80.1	3.755	26.55	30.94	12.65
111	2008	88	1915	42.86	80.4	3.872	20.12	21.53	12.63
111	2008	88	1930	42.8	80.5	3.429	6.369	26.6	12.63
111	2008	88	1945	42.71	79.7	4.776	4.632	19.59	12.63
111	2008	88	2000	42.68	79.2	5.034	353.2	21.5	12.62
111	2008	88	2015	42.67	77.7	5.524	355.2	20.03	12.61
111	2008	88	2030	42.83	75.9	5.068	354.1	20.67	12.61
111	2008	88	2045	42.92	74.2	5.687	0.405	20.26	12.6
111	2008	88	2100	42.69	74.7	7.09	356.6	20.45	12.61
111	2008	88	2115	42.25	76	6.499	3.974	25.94	12.6

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	88	2130	41.85	76.5	5.296	0.175	22.73	12.58
111	2008	88	2145	41.63	76.5	4.847	1.934	20.66	12.58
111	2008	88	2200	41.38	76.5	4.907	9.04	20.85	12.57
111	2008	88	2215	40.96	77.6	4.123	2.796	26.37	12.57
111	2008	88	2230	40.5	77.5	3.737	354.1	18.57	12.56
111	2008	88	2245	40.13	77.5	2.975	355.8	19.92	12.56
111	2008	88	2300	39.69	77	3.166	345.1	19.04	12.55
111	2008	88	2315	39.52	77.9	3.672	353.6	21.36	12.54
111	2008	88	2330	39.3	78.6	3.172	351.9	20.23	12.53
111	2008	88	2345	38.84	78.4	4.414	351.6	23.43	12.53
111	2008	88	2400	38.82	71.8	5.91	349.5	17.2	12.53
111	2008	89	15	39.37	71.3	6.271	349	17.48	12.52
111	2008	89	30	39.4	71.8	5.387	348.9	20.99	12.51
111	2008	89	45	39.38	72.4	5.244	359.8	20.73	12.51
111	2008	89	100	39.24	72.4	5.443	10.77	27.32	12.5
111	2008	89	115	38.87	70.8	6.289	12.38	27.01	12.5
111	2008	89	130	38.42	68.12	8.16	10.39	26.5	12.49
111	2008	89	145	38.07	68.59	6.736	15.76	29.38	12.49
111	2008	89	200	37.9	67.85	5.596	12.53	26.9	12.48
111	2008	89	215	37.7	64.27	7.89	18.1	24.87	12.47
111	2008	89	230	37.4	62.09	6.509	26.26	32.25	12.47
111	2008	89	245	37.14	60.99	7.54	14.59	28.49	12.47
111	2008	89	300	36.85	60.29	6.281	26.42	26.11	12.46
111	2008	89	315	36.26	58.72	6.555	38.18	33.83	12.45
111	2008	89	330	35.89	47.97	7.64	26.68	28.34	12.45
111	2008	89	345	35.41	50.61	7.54	23.51	26.13	12.45
111	2008	89	400	34.78	48.87	6.573	27.73	37.26	12.43
111	2008	89	415	34.28	49.75	7.15	28.93	32.11	12.43
111	2008	89	430	33.85	49.21	6.869	35.7	28.79	12.42
111	2008	89	445	33.34	49.88	4.577	28.41	30.87	12.41
111	2008	89	500	33.06	49.88	4.831	28.26	27.2	12.4
111	2008	89	515	32.74	51.66	3.35	25.98	32.27	12.4
111	2008	89	530	32.45	53.31	2.771	24.14	26.14	12.38
111	2008	89	545	32.15	54.25	1.93	12.24	26.03	12.38
111	2008	89	600	31.88	54.99	1.918	1.309	18.93	12.37
111	2008	89	615	31.63	56.26	0.813	359.4	22.02	12.36
111	2008	89	630	31.35	58.51	0.293	294.9	15.98	12.36
111	2008	89	645	29.93	62.8	0.201	309.7	17.96	12.34
111	2008	89	700	29.97	62.43	0.038	26.8	4.301	12.4
111	2008	89	715	30.43	62.73	na	na	na	13.93
111	2008	89	730	31.24	60.59	1.747	292.6	19.84	13.9
111	2008	89	745	32.74	54.85	4.329	345.2	20.63	13.88
111	2008	89	800	33.77	52.23	5.971	355.5	23.1	13.86
111	2008	89	815	34.57	50.22	6.591	350.2	28.07	13.85
111	2008	89	830	35.3	49.65	5.987	353	27.22	13.83
111	2008	89	845	35.7	49.04	6.922	1.884	26.2	13.81
111	2008	89	900	35.99	45.45	7.59	8.55	23.24	13.27
111	2008	89	915	36.24	45.01	7.98	3.198	28.65	13.8
111	2008	89	930	37.12	44.94	7.01	2.861	34.56	13.79
111	2008	89	945	37.26	44.24	6.952	1.75	31.23	13.77
111	2008	89	1000	37.45	42.53	8.9	358	22.64	13.75
111	2008	89	1015	37.52	44.31	8.3	12.71	28.76	13.75
111	2008	89	1030	37.73	42.43	8.64	348.4	22.93	13.73
111	2008	89	1045	38.05	41.22	8.48	348.3	30.36	13.72
111	2008	89	1100	38.04	42.76	7.75	353.3	30.45	13.72
111	2008	89	1115	38.46	43.83	7.5	329.1	26.32	13.72
111	2008	89	1130	38.46	42.49	9.72	329.1	24.33	13.7
111	2008	89	1145	39.13	37.2	9.19	337.6	28.98	13.7
111	2008	89	1200	40.04	35.39	9.37	353.4	33.23	13.68
111	2008	89	1215	39.56	33.91	9.62	329	20.68	13.68

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	89	1230	40.29	29.86	8.66	338	25.34	13.68
111	2008	89	1245	40.65	27.39	9.43	339.2	24.94	13.67
111	2008	89	1300	40.68	27.69	9.56	343.6	25.41	13.66
111	2008	89	1315	41.01	27.82	10.19	334.8	24.25	13.66
111	2008	89	1330	41.2	28.02	10.43	324.5	20.73	13.66
111	2008	89	1345	41.61	26.25	11.05	328.9	18.1	13.65
111	2008	89	1400	41.96	26.01	10.02	332.1	24.49	13.66
111	2008	89	1415	42.36	25.21	11.12	329.3	21.62	13.19
111	2008	89	1430	42.24	24.77	11.22	331.2	20.7	12.99
111	2008	89	1445	43.4	24.17	7.89	358.6	36.24	12.92
111	2008	89	1500	44.05	24.31	8.71	350.3	25.84	12.89
111	2008	89	1515	43.97	23.67	8.67	349.5	24.75	12.87
111	2008	89	1530	44.2	22.63	9.4	333.7	29.37	12.86
111	2008	89	1545	44.67	22.56	9.62	15.41	30.56	12.84
111	2008	89	1600	44.57	21.52	8.93	354.3	26.56	12.83
111	2008	89	1615	44.93	22.56	8.8	353	30.48	12.82
111	2008	89	1630	45.46	21.59	7.67	5.383	31.35	12.8
111	2008	89	1645	45.09	22.29	7.93	356.8	29.1	12.79
111	2008	89	1700	45.39	22.09	7.09	6.509	37.45	12.78
111	2008	89	1715	45.56	21.95	6.612	356.6	28.66	12.76
111	2008	89	1730	45.15	21.45	6.712	22.25	33.35	12.76
111	2008	89	1745	44.79	21.05	7.59	10.24	29.63	12.73
111	2008	89	1800	44.65	22.12	6.356	11.71	28.7	12.72
111	2008	89	1815	43.89	21.22	7.15	33.22	36.38	12.7
111	2008	89	1830	43.5	21.43	6.537	21.89	33.05	12.7
111	2008	89	1845	42.75	20.82	5.916	26.37	31.32	12.68
111	2008	89	1900	41.81	21.93	6.63	17.69	25.62	12.67
111	2008	89	1915	40.74	23.07	5.514	17.34	24.76	12.66
111	2008	89	1930	40.07	24.04	4.802	13.35	34.87	12.65
111	2008	89	1945	39.56	24.81	5.185	19.38	27.71	12.63
111	2008	89	2000	39.15	26.46	4.754	23.88	34.1	12.62
111	2008	89	2015	38.67	29.3	4.405	39.92	23.66	12.61
111	2008	89	2030	38.11	31.55	4.972	39.29	30.78	12.6
111	2008	89	2045	37.52	31.89	5.747	39.81	29.2	12.59
111	2008	89	2100	36.92	33.4	5.6	47.34	29.32	12.58
111	2008	89	2115	36.19	34.47	5.983	50.13	24.49	12.57
111	2008	89	2130	35.58	34.04	6.176	45.05	22.24	12.56
111	2008	89	2145	34.99	34.04	5.937	46.14	27.92	12.56
111	2008	89	2200	34.48	33.84	5.902	37.06	27.54	12.55
111	2008	89	2215	34.15	35.11	5.52	37.4	29.57	12.54
111	2008	89	2230	33.74	35.85	4.401	35	33.65	12.52
111	2008	89	2245	33.25	36.21	4.061	41.22	34.51	12.51
111	2008	89	2300	32.93	36.99	4.301	34.74	30.49	12.51
111	2008	89	2315	32.54	36.99	4.307	45.91	25.76	12.5
111	2008	89	2330	32.32	37.22	5.314	40.83	23.05	12.49
111	2008	89	2345	32.13	35.25	5.916	36.69	28.68	12.49
111	2008	89	2400	31.89	35.79	4.881	53.24	24.65	12.48
111	2008	90	15	31.5	35.49	5.552	47.23	25.24	12.46
111	2008	90	30	31.2	36.63	4.577	44.48	28.22	12.46
111	2008	90	45	30.83	36.76	4.53	42.71	24.58	12.46
111	2008	90	100	30.54	37.57	4.744	39.57	28.76	12.44
111	2008	90	115	30.18	38.91	2.765	33.61	30.53	12.44
111	2008	90	130	29.84	38.71	3.731	40.79	31.01	12.42
111	2008	90	145	29.64	39.41	3.334	37.8	30.81	12.42
111	2008	90	200	29.36	40.72	3.299	38.37	29.53	12.41
111	2008	90	215	29.07	41.02	3.102	30.5	26.1	12.4
111	2008	90	230	28.85	42.23	2.654	15.22	28.66	12.4
111	2008	90	245	28.52	43.27	2.381	0.443	25.29	12.38
111	2008	90	300	28.16	44.1	3.356	28.42	26.84	12.38
111	2008	90	315	27.9	44.68	3.223	27.4	29.4	12.37

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	90	330	27.72	44.58	2.988	26.64	27.84	12.35
111	2008	90	345	27.55	45.75	2.342	25.32	23.68	12.34
111	2008	90	400	27.32	46.49	3.029	28.82	24.39	12.34
111	2008	90	415	27.19	46.19	3.316	23.77	26.87	12.34
111	2008	90	430	27.11	46.86	2.697	23.27	31.41	12.33
111	2008	90	445	26.91	47.47	2.561	33.92	32.21	12.32
111	2008	90	500	26.78	48.11	2.727	38.15	28.57	12.32
111	2008	90	515	26.64	48.47	2.987	36.95	27.04	12.31
111	2008	90	530	26.53	48.71	3.382	43.67	29.12	12.31
111	2008	90	545	26.43	49.44	3.283	45.81	28.12	12.3
111	2008	90	600	26.35	49.55	3.62	45.63	24.94	12.3
111	2008	90	615	26.32	50.38	3.372	41.8	29.74	12.3
111	2008	90	630	26.2	50.92	3.404	41.88	28.54	12.29
111	2008	90	645	26.1	51.93	3.72	45.05	19.44	12.29
111	2008	90	700	26.2	51.62	3.364	50.35	24.4	12.48
111	2008	90	715	26.62	51.15	3.438	42.55	23.81	13.99
111	2008	90	730	27.29	50.51	2.927	37.8	25.16	13.98
111	2008	90	745	28.1	48.86	3.156	45.46	32.2	13.96
111	2008	90	800	28.93	47.52	4.266	53.44	26.13	13.94
111	2008	90	815	29.95	42.89	4.553	55.7	30.97	13.92
111	2008	90	830	30.52	39.3	5.842	57.6	25.79	13.91
111	2008	90	845	31.13	37.02	5.663	55.85	28.04	13.89
111	2008	90	900	32.15	35.65	4.696	51.03	29.85	13.27
111	2008	90	915	32.55	36.01	4.865	54.82	30.52	13.29
111	2008	90	930	33.26	34.47	4.649	55.65	40.4	13.85
111	2008	90	945	33.43	33.83	5.586	50.69	28.22	13.83
111	2008	90	1000	33.87	34.2	5.209	52.71	35.87	13.82
111	2008	90	1015	34.53	31.65	5.352	48.2	34.85	13.8
111	2008	90	1030	35.55	29.97	4.681	84.5	34.6	13.79
111	2008	90	1045	35.99	28.33	5.229	70.9	35.07	13.76
111	2008	90	1100	36.28	27.63	4.248	70.9	44.79	13.75
111	2008	90	1115	37.3	26.92	4.692	77.2	45.91	13.74
111	2008	90	1130	38.41	23.94	4.514	50.21	37.5	13.72
111	2008	90	1145	38.99	23.71	4.627	97.2	32.8	13.7
111	2008	90	1200	39.67	20.79	4.227	103.3	37.96	13.68
111	2008	90	1215	40.05	22.56	5.046	101.5	38.85	13.67
111	2008	90	1230	40.85	28.49	3.866	135.1	50.63	13.66
111	2008	90	1245	39.28	29.13	5.074	191.3	29.84	13.65
111	2008	90	1300	39.91	27.92	5.195	153.1	36.71	13.64
111	2008	90	1315	40.01	30.73	4.79	184	32.06	13.63
111	2008	90	1330	40.79	26.88	3.426	180.2	54.34	13.62
111	2008	90	1345	40.65	30.8	5.671	190.3	28.01	13.61
111	2008	90	1400	41.21	30.26	4.585	194.3	38.54	13.61
111	2008	90	1415	41.2	31.7	4.544	194	32.86	13.18
111	2008	90	1430	40.78	33.64	6.738	221.6	22.95	12.99
111	2008	90	1445	40.69	33.71	5.191	218.5	36.78	12.92
111	2008	90	1500	41.1	33.17	5.495	226.1	30.56	12.89
111	2008	90	1515	41.16	30.02	5.225	241.8	36.72	12.88
111	2008	90	1530	42.37	33.54	4.226	215.1	36.05	12.86
111	2008	90	1545	41.45	35.81	5.788	217.4	24.93	12.85
111	2008	90	1600	40.93	35.04	5.022	216.6	28.79	12.86
111	2008	90	1615	41.14	29.92	4.871	221.1	34.36	12.89
111	2008	90	1630	40.98	38.73	5.501	203.4	28.66	12.9
111	2008	90	1645	40.19	37.96	5.592	192.5	32.62	12.9
111	2008	90	1700	40.39	38.9	4.645	216.3	26.99	12.87
111	2008	90	1715	40.35	40.84	4.814	208.6	31.48	12.86
111	2008	90	1730	40.3	41.41	4.464	212.9	28.4	12.82
111	2008	90	1745	40.2	42.79	4.698	181.7	26.78	12.78
111	2008	90	1800	39.44	43.35	4.679	189.2	26.12	12.77
111	2008	90	1815	39	43.82	4.776	199.8	33.75	12.72

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	90	1830	38.2	45.17	3.974	202.4	34.38	12.71
111	2008	90	1845	38.07	46.34	3.938	213.5	27.99	12.69
111	2008	90	1900	37.8	46.75	3.38	212.6	33.44	12.68
111	2008	90	1915	37.02	47.35	3.555	229.6	25.66	12.67
111	2008	90	1930	36.6	48.29	3.39	227.3	19.87	12.65
111	2008	90	1945	36.35	48.43	2.812	221	23.41	12.63
111	2008	90	2000	36.17	49.71	3.362	230.1	25.45	12.63
111	2008	90	2015	35.96	49.55	3.396	224.3	23.98	12.61
111	2008	90	2030	35.89	50.25	3.108	221	23.76	12.6
111	2008	90	2045	35.66	52.5	1.992	226.9	24.06	12.59
111	2008	90	2100	35.47	52.96	2.062	209.5	26.89	12.57
111	2008	90	2115	35.62	52.8	2.18	221.6	32.22	12.57
111	2008	90	2130	35.65	52.26	2.252	212.3	29.41	12.56
111	2008	90	2145	35.63	53.74	1.258	248.2	23.55	12.55
111	2008	90	2200	35.32	54.51	0.847	247.5	14.05	12.55
111	2008	90	2215	35.39	50.08	2.834	176.1	23.43	12.54
111	2008	90	2230	36.14	49.78	3.038	179.8	23.68	12.53
111	2008	90	2245	36.3	49.72	3.384	181.9	24.41	12.53
111	2008	90	2300	36.26	49.78	2.987	200	26.73	12.52
111	2008	90	2315	36.05	52.7	2.305	189.8	27.44	12.52
111	2008	90	2330	36.17	53.13	3.249	181.8	22.89	12.51
111	2008	90	2345	36.08	54.24	3.011	179.3	22.87	12.51
111	2008	90	2400	36.16	52.93	3.92	186.6	23.48	12.5
111	2008	91	15	36.16	55.95	3.465	185.4	21.78	12.5
111	2008	91	30	36.11	57.02	3.67	182.9	22.16	12.5
111	2008	91	45	36.16	57.62	5.022	185.5	22.03	12.49
111	2008	91	100	36.26	58.79	4.976	190.8	25.44	12.49
111	2008	91	115	36.21	60.33	4.587	185.6	29.45	12.48
111	2008	91	130	36.23	60.57	4.202	195.8	27	12.47
111	2008	91	145	36.39	60.3	4.331	187.3	21.31	12.47
111	2008	91	200	36.29	61.07	3.638	189.7	29.38	12.46
111	2008	91	215	36.49	59.46	4.001	195.2	26.86	12.46
111	2008	91	230	36.67	59.46	3.868	190.5	22.29	12.45
111	2008	91	245	36.98	59.03	4.953	179.4	22.77	12.45
111	2008	91	300	37.2	60.54	5.094	181.4	24.79	12.45
111	2008	91	315	37.34	60.8	4.806	181.2	25.45	12.44
111	2008	91	330	37.48	61.34	4.808	178	22.28	12.44
111	2008	91	345	37.53	63.88	5.908	174.8	19.28	12.43
111	2008	91	400	37.71	65.89	5.475	171.4	25.17	12.42
111	2008	91	415	37.97	66.59	5.731	172.5	21.62	12.42
111	2008	91	430	38.24	67.93	5.655	168.6	20.5	12.42
111	2008	91	445	38.46	68.1	4.978	180.9	25.43	12.41
111	2008	91	500	38.77	68.56	5.179	169.2	22.91	12.41
111	2008	91	515	38.94	69.36	5.405	159.7	19.71	12.41
111	2008	91	530	39.13	71.1	5.838	162.7	21.92	12.41
111	2008	91	545	39.36	71.8	6.239	156.9	18.61	12.41
111	2008	91	600	39.56	71.5	6.481	160.3	18.97	12.41
111	2008	91	615	39.74	73.2	6.364	162.7	19.57	12.4
111	2008	91	630	39.81	73.8	6.331	157.9	18.95	12.39
111	2008	91	645	39.97	74.4	7.96	156.3	16.8	12.4
111	2008	91	700	40.2	75	7.11	160.9	19.19	12.4
111	2008	91	715	40.35	74.7	6.464	165.3	19.34	12.39
111	2008	91	730	40.52	75.8	7.57	164	22.49	12.4
111	2008	91	745	40.77	76.6	7.18	159.1	21.84	12.39
111	2008	91	800	41.08	76.5	7.34	167.4	23.62	12.4
111	2008	91	815	41.45	76.2	7.04	166.5	21.29	12.45
111	2008	91	830	41.72	75.8	7.1	164.8	23.87	12.47
111	2008	91	845	41.89	75	7.65	164.2	19.49	12.46
111	2008	91	900	42.16	75.1	6.71	169.5	22.91	12.45
111	2008	91	915	42.36	74.7	6.787	159.7	22.81	12.47

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	91	930	42.6	75	6.994	156.2	24.02	12.49
111	2008	91	945	42.78	75.5	7.32	156.7	16.15	12.49
111	2008	91	1000	42.96	76.4	6.799	157.5	19.53	12.49
111	2008	91	1015	43.09	81.4	6.966	159	19.23	12.51
111	2008	91	1030	42.64	85.6	7.02	165.7	20.97	12.51
111	2008	91	1045	42.57	85.4	6.06	170	27.36	12.52
111	2008	91	1100	43.05	83.4	6.515	168.5	27.27	12.51
111	2008	91	1115	43.4	84.8	7.35	169.1	23.53	12.6
111	2008	91	1130	43.14	86.9	6.066	177.9	32.87	12.69
111	2008	91	1145	43	88.6	5.477	171.8	26.33	12.69
111	2008	91	1200	42.96	89.9	5.999	173.7	26.7	12.7
111	2008	91	1215	43	90.5	5.866	177.6	26.95	12.66
111	2008	91	1230	43.04	91.3	5.038	180.5	26.35	12.69
111	2008	91	1245	43.24	92	5.233	176.7	22.06	12.71
111	2008	91	1300	43.21	92.5	5.046	173.5	21.05	12.66
111	2008	91	1315	43.42	93.3	3.904	177.4	26.29	12.68
111	2008	91	1330	43.84	92.9	3.277	179.3	25.26	12.7
111	2008	91	1345	44	92.1	4.144	177.7	23.53	12.71
111	2008	91	1400	44.21	91.3	4.399	184.5	23.79	12.72
111	2008	91	1415	44.39	91.2	5.088	185.5	23.06	12.73
111	2008	91	1430	44.68	91.5	3.384	185.5	30.69	12.75
111	2008	91	1445	44.9	91.7	3.668	196.3	23.21	12.71
111	2008	91	1500	44.86	92.2	3.096	187.7	24.29	12.67
111	2008	91	1515	45.11	92.8	2.71	211.5	28.13	12.6
111	2008	91	1530	45.51	92.8	2.484	213.5	32.79	12.59
111	2008	91	1545	45.86	92.6	1.883	185.1	25.08	12.54
111	2008	91	1600	45.53	92.9	1.986	181	25.06	12.51
111	2008	91	1615	45.46	92.9	2.537	196.9	30.23	12.49
111	2008	91	1630	45.79	93	2.137	212.7	30.73	12.47
111	2008	91	1645	45.92	92.9	2.472	209.7	27.13	12.44
111	2008	91	1700	45.9	92.8	2.586	212.5	26.79	12.44
111	2008	91	1715	45.97	92.8	2.078	218.7	25.01	12.44
111	2008	91	1730	45.97	92.8	1.983	222.3	26.74	12.42
111	2008	91	1745	46.13	92.5	2.693	214.1	27.32	12.42
111	2008	91	1800	46.31	92.1	2.701	226.5	26.54	12.42
111	2008	91	1815	46.73	91.4	3.64	243.6	23.36	12.42
111	2008	91	1830	46.98	90.8	3.509	253.7	25.1	12.42
111	2008	91	1845	47.1	90.6	4.484	257.7	21.42	12.42
111	2008	91	1900	47.37	89.3	5.08	244.9	25.1	12.42
111	2008	91	1915	47.47	89.6	5.602	244.3	23.8	12.42
111	2008	91	1930	47.42	89.6	6.297	251.6	24.85	12.42
111	2008	91	1945	47.48	89	6.265	251	25.28	12.42
111	2008	91	2000	47.47	88.6	6.059	257.1	21.23	12.41
111	2008	91	2015	47.37	88.4	5.935	258.9	22.86	12.41
111	2008	91	2030	47.28	88.5	5.705	258.9	24.05	12.41
111	2008	91	2045	47.31	88	6.297	248.5	21.66	12.41
111	2008	91	2100	47.33	87.9	5.558	260.9	21.07	12.41
111	2008	91	2115	47.33	87.9	5.918	263.3	19.94	12.41
111	2008	91	2130	47.19	88.9	5.187	251.5	26.87	12.4
111	2008	91	2145	46.97	90.1	6.267	253.7	20.61	12.41
111	2008	91	2200	47.08	89.7	6.819	263.7	17.64	12.4
111	2008	91	2215	47	90.3	5.596	267.4	20.27	12.4
111	2008	91	2230	46.83	90.9	6.148	261.7	17.87	12.4
111	2008	91	2245	46.6	91.8	5.927	260.4	21.79	12.4
111	2008	91	2300	46.64	91.7	5.783	262.4	21.15	12.4
111	2008	91	2315	46.76	91.2	5.868	258.1	20.97	12.4
111	2008	91	2330	46.57	91.5	4.972	263.5	22.51	12.39
111	2008	91	2345	46.66	91.3	5.397	263.1	22.19	12.39
111	2008	91	2400	46.77	92.1	6.265	263	19.86	12.39
111	2008	92	15	47.09	91.8	6.11	262.1	20.35	12.39

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	92	30	47.16	91.4	6.35	256.3	20.33	12.39
111	2008	92	45	47.2	91.5	5.526	255.7	23.25	12.39
111	2008	92	100	47.53	91.4	6.021	251.7	25.19	12.39
111	2008	92	115	47.87	90.7	6.525	260.8	21.25	12.39
111	2008	92	130	47.72	91.2	5.501	253.6	26.01	12.39
111	2008	92	145	47.44	91.6	6.678	254.2	21.88	12.39
111	2008	92	200	47.52	91.8	5.995	253.3	23.42	12.38
111	2008	92	215	47.86	91.5	6.62	257.3	24.02	12.39
111	2008	92	230	48.03	91.5	6.678	256.9	24.12	12.39
111	2008	92	245	48.23	91.2	6.761	259.8	20.47	12.38
111	2008	92	300	48.38	90.8	7.86	264.3	21.73	12.39
111	2008	92	315	48.32	90.9	8.75	261.5	20.27	12.38
111	2008	92	330	48.35	90.8	8.9	265	18.16	12.38
111	2008	92	345	48.48	90.9	8.05	264.2	21.24	12.38
111	2008	92	400	48.59	90.8	7.01	258.2	23.22	12.39
111	2008	92	415	48.67	90.7	6.507	257.6	22.36	12.39
111	2008	92	430	48.69	90.3	6.44	257.1	20.8	12.38
111	2008	92	445	48.6	90.3	5.304	251.6	24.03	12.39
111	2008	92	500	48.59	90.2	6.362	256.4	22.28	12.39
111	2008	92	515	48.84	90.4	7.31	260.5	19.55	12.38
111	2008	92	530	49.13	90	8.86	263.2	23.14	12.38
111	2008	92	545	49.28	91.4	9.97	263.6	19.16	12.38
111	2008	92	600	49.17	92.3	8.1	263.5	21.27	12.38
111	2008	92	615	49.02	92.5	7.68	259.3	23.43	12.38
111	2008	92	630	48.94	92.8	7.72	256.3	27.25	12.39
111	2008	92	645	48.95	92.9	7.52	251	23.34	12.38
111	2008	92	700	48.88	93.4	7.61	257.4	26.14	12.38
111	2008	92	715	49.12	93	7.68	254.2	23.8	12.38
111	2008	92	730	49.17	93	8.4	245.6	25.26	12.38
111	2008	92	745	49.47	92.3	8.94	259.2	21.19	12.38
111	2008	92	800	49.56	92	9.9	253.4	24.24	12.4
111	2008	92	815	49.48	91.7	8.42	248.1	25.23	12.38
111	2008	92	830	49.4	91.3	8.49	254.4	26.91	12.4
111	2008	92	845	49.43	91.1	8.46	249.4	20.24	12.57
111	2008	92	900	49.54	90.8	8.37	250.6	22.64	12.52
111	2008	92	915	49.69	90.2	8.57	254.4	20.4	12.45
111	2008	92	930	49.79	90	9.29	252.2	25.79	12.44
111	2008	92	945	49.8	89.5	9.63	256.2	22.91	12.46
111	2008	92	1000	49.71	90.1	10.31	250.9	25.37	12.44
111	2008	92	1015	49.49	92.3	10.62	252.2	23.86	12.42
111	2008	92	1030	49.62	92.3	10.46	248.7	28.83	12.44
111	2008	92	1045	49.97	91.7	10.11	250	25.66	12.5
111	2008	92	1100	50.33	90.5	9.49	255.9	26.41	12.52
111	2008	92	1115	50.29	89.7	9.52	251.7	23.76	12.52
111	2008	92	1130	50.02	91.3	9.72	247.8	28.18	12.51
111	2008	92	1145	49.85	92.8	11.54	252.1	26.98	12.53
111	2008	92	1200	50.13	93.4	11.03	248.9	24.81	12.66
111	2008	92	1215	50.51	93.7	11.09	248.8	25.06	12.79
111	2008	92	1230	50.53	93.8	11.13	247.7	25.41	12.76
111	2008	92	1245	50.67	93.4	10.9	253.2	22.93	12.72
111	2008	92	1300	50.56	93.4	10.71	249.2	25.48	12.71
111	2008	92	1315	50.83	94.1	9.6	254.6	26.9	12.77
111	2008	92	1330	51.51	93.7	11.31	253.8	26.26	12.78
111	2008	92	1345	51.24	93.7	11.13	249.8	24.38	12.76
111	2008	92	1400	50.75	94.2	11.55	255	22.02	12.68
111	2008	92	1415	50.46	94.5	10.8	251.7	24.44	12.63
111	2008	92	1430	50.41	95	10.17	258.5	24.22	12.6
111	2008	92	1445	50.43	95.3	11.82	250.2	23.25	12.57
111	2008	92	1500	50.22	95.4	11.35	248	20.76	12.55
111	2008	92	1515	50.14	95.8	11.06	251.4	24.96	12.56

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	92	1530	50.68	95.8	10.79	254.9	24.42	12.64
111	2008	92	1545	50.7	95.8	11.08	252	22.2	12.57
111	2008	92	1600	50.36	95.8	10.77	250.6	19.44	12.55
111	2008	92	1615	50.24	95.9	9.76	257.7	25.28	12.52
111	2008	92	1630	50.49	96.1	11.54	256.5	19.78	12.51
111	2008	92	1645	50.68	95.9	10.27	252.6	29.43	12.5
111	2008	92	1700	50.73	95.7	10.97	261.1	24.2	12.47
111	2008	92	1715	51.1	95.5	10.53	263.9	21.35	12.45
111	2008	92	1730	51.03	95.3	11.08	260.8	24.87	12.44
111	2008	92	1745	50.78	95.6	11.19	259.4	23.7	12.43
111	2008	92	1800	50.87	95.7	9.98	250.9	26.3	12.42
111	2008	92	1815	50.97	95.4	10.69	253.4	27.06	12.42
111	2008	92	1830	50.78	95.5	10.57	247	23.08	12.4
111	2008	92	1845	50.42	95.7	10.08	261.7	23.96	12.4
111	2008	92	1900	49.99	95.7	9.17	256.1	23.35	12.4
111	2008	92	1915	49.83	96	8.09	256.3	24.86	12.39
111	2008	92	1930	49.92	96.1	7.73	264.2	21.39	12.39
111	2008	92	1945	49.9	96.2	10.14	263.6	21.81	12.39
111	2008	92	2000	49.54	96.3	9.22	254.1	21.53	12.38
111	2008	92	2015	49.35	96.4	9.69	253.3	25.55	12.38
111	2008	92	2030	49.3	96.4	9.23	258.6	24.04	12.38
111	2008	92	2045	49.1	96.6	9.91	264.7	20.52	12.38
111	2008	92	2100	48.74	96.5	9.66	264.2	19.27	12.38
111	2008	92	2115	48.64	96.7	10.02	261.4	21.05	12.38
111	2008	92	2130	48.7	96.7	9.68	266.6	17.16	12.37
111	2008	92	2145	48.91	96.7	10.58	261.9	22.16	12.36
111	2008	92	2200	49.17	96.8	10.5	261	23.01	12.36
111	2008	92	2215	49.28	96.8	9.16	265.9	20.14	12.36
111	2008	92	2230	49.25	96.9	7.94	267.6	19.52	12.36
111	2008	92	2245	49.66	96.8	8.55	281	16.81	12.36
111	2008	92	2300	51.2	96.9	12.17	306.1	19.51	12.36
111	2008	92	2315	53.2	96.8	7.62	290	19.53	12.36
111	2008	92	2330	54.03	96.2	5.733	274.6	19.23	12.36
111	2008	92	2345	54.36	95	6.986	272.6	20.66	12.37
111	2008	92	2400	54.46	94	5.507	287.4	15.58	12.37
111	2008	93	15	54.77	92.3	4.895	281.9	15.38	12.37
111	2008	93	30	55.86	82.4	6.35	302.2	17.54	12.37
111	2008	93	45	56.85	73.8	6.948	305.4	15.02	12.37
111	2008	93	100	57.06	73.3	6.628	322.9	22.3	12.37
111	2008	93	115	54.74	65.56	11.67	357.8	19.81	12.37
111	2008	93	130	52.51	65.29	8.7	351.3	18.53	12.38
111	2008	93	145	52.01	57.2	9.24	339.1	17.08	12.37
111	2008	93	200	51.91	52.98	9.36	333.5	19.28	12.36
111	2008	93	215	51.43	52.31	9.6	339.4	21.95	12.36
111	2008	93	230	50.69	51.84	10.38	339.4	19.04	12.36
111	2008	93	245	49.79	53.45	9.03	338.4	21.35	12.36
111	2008	93	300	48.97	47.93	10.88	338.5	23.49	12.36
111	2008	93	315	48.35	45.96	11.81	343.8	21.35	12.35
111	2008	93	330	47.86	46.53	10.81	336.9	20.97	12.35
111	2008	93	345	47.14	47.81	10.84	340.9	21.33	12.35
111	2008	93	400	46.36	50.89	8.91	343.4	23.91	12.34
111	2008	93	415	45.52	49.21	10.8	341.9	24.49	12.34
111	2008	93	430	44.74	50.29	9.58	342.2	20.32	12.34
111	2008	93	445	43.97	46.94	10.79	345	23.42	12.34
111	2008	93	500	43.31	48.11	11.35	340.7	23.36	12.33
111	2008	93	515	42.73	49.05	8.81	346.2	22.99	12.33
111	2008	93	530	42.2	47.79	9.76	338.6	23.02	12.32
111	2008	93	545	41.52	44.37	12.02	347.4	20.99	12.31
111	2008	93	600	40.77	45.48	10.59	342.6	23.11	12.31
111	2008	93	615	40.27	47.32	10.56	341.6	24.37	12.31

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	93	630	39.8	48.26	8.62	334.9	25.64	12.31
111	2008	93	645	39.28	48.33	8.31	346.5	26.06	12.3
111	2008	93	700	39.07	47.82	9.31	343.9	22.08	12.57
111	2008	93	715	38.32	48.39	12.81	338.2	20.4	13.37
111	2008	93	730	37.86	48.76	10.92	338.9	23.3	13.66
111	2008	93	745	37.88	47.62	11.3	344.2	22.52	13.65
111	2008	93	800	37.83	47.79	13.69	348.8	20.33	13.66
111	2008	93	815	38.21	47.82	11.28	351.7	21.44	13.66
111	2008	93	830	38.66	47.15	11.85	353.8	20.1	13.66
111	2008	93	845	38.99	45.31	10.97	352.3	24.07	13.67
111	2008	93	900	39.39	43.54	11.68	349.4	19.81	13.21
111	2008	93	915	39.88	41.53	10.66	344.7	27.67	13.1
111	2008	93	930	40.79	40.35	8.63	354.5	24.66	13.67
111	2008	93	945	40.62	41.76	11.86	341.8	23.99	13.65
111	2008	93	1000	41.01	40.61	11.12	347.8	25.05	13.65
111	2008	93	1015	41.58	40.84	9.49	1.645	26.82	13.64
111	2008	93	1030	41.76	40.44	10.47	357	22.59	13.64
111	2008	93	1045	41.79	38.6	9.78	355.4	19.98	13.65
111	2008	93	1100	41.6	40.37	8.73	343.6	23.06	13.64
111	2008	93	1115	42.98	34.05	10.57	0.119	26.38	13.64
111	2008	93	1130	43.35	33.18	11.25	343.9	22.68	13.62
111	2008	93	1145	44.47	33.01	9.84	0.926	27.47	13.61
111	2008	93	1200	45.09	32.47	9.4	5.929	27.71	13.6
111	2008	93	1215	45.19	31.87	9.74	355.8	23.05	13.59
111	2008	93	1230	45.43	29.06	9.12	348.2	22.91	13.6
111	2008	93	1245	45.61	29.19	10.48	356.3	28.54	13.6
111	2008	93	1300	44.79	32.33	10.42	326.3	21.51	13.6
111	2008	93	1315	44.95	30.66	9.53	337	25.25	13.61
111	2008	93	1330	45	28.49	10.25	326.4	18.94	13.46
111	2008	93	1345	46.33	27.38	10.77	337.9	23.09	13.6
111	2008	93	1400	46.79	26.51	10.16	349.2	24.6	13.6
111	2008	93	1415	47.13	24.97	9	351.3	25.52	13.15
111	2008	93	1430	47.83	24.57	9.93	333.7	26.48	13.03
111	2008	93	1445	47.3	26.17	11.21	331	23.01	12.96
111	2008	93	1500	47.61	26	9.67	344.9	24.48	12.95
111	2008	93	1515	47.6	23.39	9.45	337.7	28.48	12.94
111	2008	93	1530	47.83	22.66	10.34	342	25.01	12.9
111	2008	93	1545	47.94	21.05	10.7	341.9	22.39	12.9
111	2008	93	1600	47.93	20.55	10.51	337.4	25.47	12.9
111	2008	93	1615	47.88	20.78	9.33	343.9	30.86	12.87
111	2008	93	1630	48	20.78	9.99	352.7	27	12.85
111	2008	93	1645	48.01	22.52	8.74	343.9	28.43	12.84
111	2008	93	1700	47.84	21.62	10.2	338.8	26.7	12.81
111	2008	93	1715	47.5	21.62	10.19	336.3	23	12.8
111	2008	93	1730	47.33	21.49	9.79	335.5	27.29	12.79
111	2008	93	1745	47.53	20.95	8.7	343.8	24.04	12.78
111	2008	93	1800	47.18	20.08	7.84	343.3	22.7	12.78
111	2008	93	1815	46.55	20.92	9.25	330.9	25.41	12.76
111	2008	93	1830	46.14	22.46	7.46	345.6	23.83	12.72
111	2008	93	1845	45.6	21.63	7.97	337.6	20.59	12.71
111	2008	93	1900	45.29	21.83	8.44	339.5	20.78	12.7
111	2008	93	1915	44.92	21.69	5.24	337.5	22.81	12.69
111	2008	93	1930	44.49	21.26	5.375	337.7	22.2	12.67
111	2008	93	1945	44.08	20.72	5.826	338.8	22.45	12.66
111	2008	93	2000	43.73	21.7	4.937	331	19.89	12.66
111	2008	93	2015	43.34	22.5	4.951	329.9	20.44	12.65
111	2008	93	2030	42.87	24.24	4.218	330.9	18.16	12.64
111	2008	93	2045	42.46	24.35	4.873	326.7	20.13	12.63
111	2008	93	2100	42.03	24.35	4.551	341	22.16	12.63
111	2008	93	2115	41.72	25.08	4.557	342.9	21.44	12.62

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	93	2130	41.27	25.99	3.314	339.6	17.37	12.61
111	2008	93	2145	40.78	26.76	3.642	342.2	16.57	12.61
111	2008	93	2200	40.29	28.37	2.884	338.4	20.84	12.6
111	2008	93	2215	39.81	25.25	4.099	340.6	21.86	12.59
111	2008	93	2230	40.08	22.94	6.886	346.3	21.84	12.59
111	2008	93	2245	39.94	22.14	6.682	345.3	20.69	12.58
111	2008	93	2300	39.5	23.98	4.849	356.5	21.1	12.58
111	2008	93	2315	38.76	25.83	2.687	8.19	25.44	12.57
111	2008	93	2330	38.02	27.4	2.214	335.9	23.8	12.57
111	2008	93	2345	37.43	29.11	1.955	332.5	22.32	12.56
111	2008	93	2400	36.7	29.78	1.208	324	17.37	12.56
111	2008	94	15	36.6	27.6	3.986	346.8	18.36	12.55
111	2008	94	30	36.45	26.7	3.11	349.2	17.9	12.54
111	2008	94	45	35.97	27.91	1.98	341.1	17.98	12.54
111	2008	94	100	35.12	29.92	1.043	348.4	10.97	12.53
111	2008	94	115	34.31	32.87	0.429	340.5	6.261	12.53
111	2008	94	130	33.08	37.46	0.768	351.3	5.364	12.52
111	2008	94	145	32.09	40.31	0.387	339.8	3.757	12.51
111	2008	94	200	31.58	42.12	na	na	na	12.5
111	2008	94	215	30.85	53.18	na	na	na	12.5
111	2008	94	230	29.85	49.2	na	na	na	12.48
111	2008	94	245	29.32	56.67	na	na	na	12.48
111	2008	94	300	28.43	57.11	na	na	na	12.47
111	2008	94	315	28.11	63.79	na	na	na	12.46
111	2008	94	330	27.76	61.31	na	na	na	12.45
111	2008	94	345	27.53	60.14	na	na	na	12.45
111	2008	94	400	27.12	65.71	na	na	na	12.45
111	2008	94	415	27.11	66.07	na	na	na	12.44
111	2008	94	430	27.02	65.57	na	na	na	12.44
111	2008	94	445	26.41	68.45	na	na	na	12.43
111	2008	94	500	26.21	64.23	na	na	na	12.42
111	2008	94	515	26.65	65.4	0.177	358	4.323	12.42
111	2008	94	530	25.96	70.3	na	na	na	12.42
111	2008	94	545	27.14	65.04	0.045	309.8	2.806	12.41
111	2008	94	600	26.67	65.84	0.018	320.8	2.209	12.41
111	2008	94	615	26.02	69.7	0.076	296.2	3.207	12.41
111	2008	94	630	25.98	68.63	na	na	na	12.4
111	2008	94	645	26.53	68.39	0.121	15.56	5.14	12.41
111	2008	94	700	27.39	66.11	0.279	355.8	8.02	13.17
111	2008	94	715	28.55	64.03	0.382	7.22	11.97	14.01
111	2008	94	730	29.96	58.09	1.142	352.1	14.93	13.98
111	2008	94	745	32.03	51.31	1.328	15.77	22.39	13.96
111	2008	94	800	34.08	42.09	1.865	344.8	15.51	13.92
111	2008	94	815	36.46	33.5	1.999	9.94	23.57	13.89
111	2008	94	830	38.51	29.95	1.173	68.41	49.09	13.86
111	2008	94	845	40.14	24.85	1.958	114.6	47.09	13.82
111	2008	94	900	40.68	27.73	1.634	155.6	47.57	13.79
111	2008	94	915	41.02	23.94	2.103	150.6	46.74	13.26
111	2008	94	930	40.91	23.98	2.999	188.8	30.56	13.75
111	2008	94	945	41.22	20.36	3.159	196.1	42.38	13.73
111	2008	94	1000	41.42	30.23	4.097	181.1	26.36	13.71
111	2008	94	1015	41.56	31.27	4.548	192.6	29.85	13.7
111	2008	94	1030	41.45	36.53	5.201	192	23.57	13.68
111	2008	94	1045	41.1	32.21	5.435	196	25.26	13.67
111	2008	94	1100	42.15	28.12	4.782	211	31.17	13.66
111	2008	94	1115	42.4	34.55	5.167	201.4	27.93	13.64
111	2008	94	1130	42.66	28.42	5.707	219.4	34.8	13.64
111	2008	94	1145	42.35	31.7	6.243	220.3	28.35	13.64
111	2008	94	1200	42.49	29.73	5.671	232.5	26.99	13.62
111	2008	94	1215	42.95	31.06	5.419	211.5	34.51	13.62

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	94	1230	42.46	30.93	5.846	196.4	29.49	13.61
111	2008	94	1245	42.82	33.57	5.761	207.9	28.82	13.61
111	2008	94	1300	43.83	33.67	5.866	199	30.32	13.6
111	2008	94	1315	43.3	33.6	5.86	189.9	23.96	13.59
111	2008	94	1330	43.21	31.69	6.67	181.4	30.61	13.59
111	2008	94	1345	43.14	32.13	6.128	188.4	28.88	13.58
111	2008	94	1400	43.74	33.67	5.925	192.8	31.02	13.59
111	2008	94	1415	43.27	32.26	6.573	211.2	30.71	13.58
111	2008	94	1430	42.76	34.61	6.283	219.7	29.91	13.59
111	2008	94	1445	42.18	35.01	7.12	224	30.86	13.59
111	2008	94	1500	41.95	35.21	6.076	238	22.05	13.61
111	2008	94	1515	42.03	37.53	6.101	222.6	27.84	13.62
111	2008	94	1530	41.97	39	5.981	218.9	25.06	13.63
111	2008	94	1545	41.87	38.17	6.116	215.1	27.2	13.64
111	2008	94	1600	41.54	41.14	7.03	238.9	25.01	13.64
111	2008	94	1615	41.35	41.01	6.684	238.2	24.9	13.66
111	2008	94	1630	41.25	43.69	6.857	228.7	24.47	13.67
111	2008	94	1645	41.38	44.83	6.074	230.4	27.36	13.68
111	2008	94	1700	41.54	43.29	6.255	233.8	27.21	13.69
111	2008	94	1715	41.08	46.27	7.08	245.9	23.79	13.19
111	2008	94	1730	40.96	49.02	6.315	237.6	26.21	13.01
111	2008	94	1745	40.98	49.56	5.044	237.3	30.27	12.89
111	2008	94	1800	40.96	50.47	5.268	238.8	23.06	12.81
111	2008	94	1815	40.77	51.71	5.56	242.2	27.52	12.76
111	2008	94	1830	40.79	50.63	6.279	247.5	23.58	12.73
111	2008	94	1845	40.7	52.54	4.607	237.6	30.82	12.71
111	2008	94	1900	40.71	50.43	5.804	235.6	24.85	12.69
111	2008	94	1915	40.69	53.25	4.52	225.3	23.05	12.68
111	2008	94	1930	40.72	54.29	4.009	227.4	23.7	12.67
111	2008	94	1945	40.82	55.93	4.414	217.8	29.07	12.66
111	2008	94	2000	40.89	57.87	3.862	223.4	28.47	12.65
111	2008	94	2015	40.92	59.04	3.076	243	25.15	12.64
111	2008	94	2030	41.02	58.14	3.33	238.7	26.88	12.64
111	2008	94	2045	41.15	60.78	2.614	230.1	23.95	12.63
111	2008	94	2100	41.25	62.42	3.283	230.2	23.62	12.63
111	2008	94	2115	41.34	63.56	2.322	219.4	25.7	12.62
111	2008	94	2130	41.39	64	2.397	218.2	22.68	12.61
111	2008	94	2145	41.52	65.27	2.836	224.1	19.48	12.61
111	2008	94	2200	41.57	67.01	2.832	236.9	23.14	12.61
111	2008	94	2215	41.67	68.75	2.578	249.3	24.65	12.6
111	2008	94	2230	41.87	69.73	3.022	236.8	25.41	12.6
111	2008	94	2245	42.06	72.9	3.244	233.2	25.58	12.6
111	2008	94	2300	41.92	77.5	3.1	233.7	27.27	12.59
111	2008	94	2315	41.66	81.1	2.529	234.1	25.18	12.59
111	2008	94	2330	41.58	83.1	2.894	208.1	20.68	12.59
111	2008	94	2345	41.72	84.2	1.585	208.6	24.08	12.58
111	2008	94	2400	41.85	85.1	2.067	201	26.57	12.58
111	2008	95	15	42.25	84.2	3.515	218.3	26.17	12.59
111	2008	95	30	42.54	84.5	4.125	202.3	23.54	12.58
111	2008	95	45	42.52	85.5	3.666	206.7	29.03	12.58
111	2008	95	100	42.32	87.4	2.701	204.8	25.67	12.58
111	2008	95	115	42.25	89.1	2.795	188	25.11	12.57
111	2008	95	130	42.24	89.6	3.229	184.7	28.56	12.58
111	2008	95	145	42.3	89.8	3.312	183.7	21.34	12.57
111	2008	95	200	42.26	90.5	4.047	178	19.95	12.57
111	2008	95	215	42.31	91	3.344	175	21.67	12.56
111	2008	95	230	42.23	91.6	3.084	182.2	19.8	12.56
111	2008	95	245	42.21	92	2.554	176.4	22.15	12.56
111	2008	95	300	42.15	92.6	2.967	167.3	18.92	12.55
111	2008	95	315	42.2	93.2	3.515	146.5	19.23	12.56

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	95	330	42.14	93.5	4.611	138.7	17.05	12.56
111	2008	95	345	42.15	93.9	5.528	144.1	19.09	12.55
111	2008	95	400	42.26	94.3	6.297	142.8	18.47	12.55
111	2008	95	415	42.3	94.4	5.24	134	19.92	12.55
111	2008	95	430	42.3	94.6	5.747	125.7	16.56	12.55
111	2008	95	445	42.42	94.7	6.499	140.3	19.48	12.54
111	2008	95	500	42.43	94.9	6.936	140.3	18.39	12.54
111	2008	95	515	42.61	95	7.09	136	18.38	12.54
111	2008	95	530	42.99	95.2	7.69	139.2	18.83	12.53
111	2008	95	545	43.56	95.4	8.36	143.1	18.92	12.54
111	2008	95	600	43.98	95.4	8.53	139.6	15.31	12.53
111	2008	95	615	44.24	95.4	7.61	136.1	25.16	12.53
111	2008	95	630	44.43	95.5	8.06	142.2	20.89	12.53
111	2008	95	645	44.58	95.4	8.8	138.8	18.36	12.53
111	2008	95	700	44.76	95.7	9.56	139.2	18.77	12.53
111	2008	95	715	45.17	95.8	7.35	137.4	19.98	12.52
111	2008	95	730	45.54	95.7	8.45	131.2	16.28	12.52
111	2008	95	745	45.84	95.8	8.41	129.1	21.76	12.52
111	2008	95	800	46.03	96	9.11	124.1	22.04	12.52
111	2008	95	815	46.19	96	8.34	132.8	22.82	12.53
111	2008	95	830	46.29	96	8.33	130.4	23.56	12.53
111	2008	95	845	46.44	95.9	8.31	131.2	20.05	12.52
111	2008	95	900	46.44	95.9	7.34	134.2	26.21	12.5
111	2008	95	915	46.58	95.9	7.58	149	32.97	12.52
111	2008	95	930	46.72	96.1	3.416	233.4	81.2	12.52
111	2008	95	945	47.33	96	4.746	167.1	45.34	12.52
111	2008	95	1000	47.05	96	4.96	147.1	24.9	12.53
111	2008	95	1015	47.11	96.2	3.676	149.4	40.92	12.57
111	2008	95	1030	47.49	96.1	3.448	135.8	23.83	12.65
111	2008	95	1045	47.98	96.2	3.487	147.6	24.21	12.92
111	2008	95	1100	48.64	96.3	2.219	130.6	31.52	13.02
111	2008	95	1115	49.32	96.2	1.825	55.62	66.63	13.16
111	2008	95	1130	49.8	96.2	2.069	220.6	49.78	13.15
111	2008	95	1145	50.07	96.2	3.815	282.6	26.24	13.14
111	2008	95	1200	50.51	96.2	3.449	333.7	30.37	13.2
111	2008	95	1215	51.12	96.2	3.604	351	24.96	13.18
111	2008	95	1230	51.69	95.8	3.684	346.6	22.99	13.14
111	2008	95	1245	51.88	94.9	4.605	42.69	39.1	13.06
111	2008	95	1300	51.81	94.8	2.887	357.6	72.8	13.03
111	2008	95	1315	52.21	93.8	3.769	307.6	22.53	13.09
111	2008	95	1330	52.66	93.1	2.707	298.9	41.01	13.16
111	2008	95	1345	53.58	90.3	3.457	303.2	28.78	13.32
111	2008	95	1400	53.41	90	5.745	249.8	25.18	13.11
111	2008	95	1415	52.62	87.8	5.195	255.7	26.2	13.51
111	2008	95	1430	51.78	87.8	6.888	254.7	27.59	13.52
111	2008	95	1445	51.93	84.9	7.82	263.5	19.42	13.5
111	2008	95	1500	51.91	84.1	8.19	275.9	18.48	13.49
111	2008	95	1515	52.22	81.6	9.45	273.1	19.21	13.49
111	2008	95	1530	52.74	81.6	8.74	269.1	22.41	13.27
111	2008	95	1545	53.96	80.1	8.13	265.6	20.38	13.11
111	2008	95	1600	54.32	78.9	8.49	277.8	15.98	13.16
111	2008	95	1615	53.46	81.2	9.1	263	22.3	13.04
111	2008	95	1630	52.54	82.5	7.92	260.8	24.16	13.05
111	2008	95	1645	52.34	83.5	7.27	270.5	20.52	12.92
111	2008	95	1700	52.39	83.4	6.402	277	19.96	12.83
111	2008	95	1715	51.84	84.9	6.255	263.4	20.19	12.81
111	2008	95	1730	50.97	85.5	5.489	265.4	17.07	12.75
111	2008	95	1745	50.7	85.6	4.712	264	21.77	12.74
111	2008	95	1800	50.68	85.5	4.611	264.5	17.62	12.72
111	2008	95	1815	50.79	85.5	4.033	257	20.89	12.7

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	95	1830	50.83	86	3.92	249	26.69	12.7
111	2008	95	1845	49.82	87.3	4.273	257.9	24.13	12.68
111	2008	95	1900	49.31	88.2	3.34	260.1	22.25	12.68
111	2008	95	1915	49.06	88.8	3.9	250.8	20.72	12.67
111	2008	95	1930	49.05	88.9	4.121	267.5	21.57	12.66
111	2008	95	1945	48.94	89	3.22	271.2	18.55	12.65
111	2008	95	2000	48.69	89.5	1.447	256.9	24.24	12.64
111	2008	95	2015	48.44	90.2	1.769	258.9	21.23	12.63
111	2008	95	2030	48.71	89.8	2.07	253.5	23.09	12.62
111	2008	95	2045	48.57	90.1	2.747	227.2	22.18	12.62
111	2008	95	2100	48.19	90.7	2.027	249.9	22.63	12.61
111	2008	95	2115	47.92	91	1.397	250.9	22.49	12.61
111	2008	95	2130	47.65	91.8	1.606	283.4	30.31	12.6
111	2008	95	2145	47.98	91.5	0.576	321.6	15.6	12.6
111	2008	95	2200	47.67	91.2	0.817	222	9.39	12.6
111	2008	95	2215	46.86	92.4	2.43	227.7	21.29	12.6
111	2008	95	2230	46.79	92.6	2.385	221.8	28.24	12.58
111	2008	95	2245	46.22	92.7	3.978	247.8	23.41	12.58
111	2008	95	2300	46.21	93.1	3.759	259.1	23.31	12.58
111	2008	95	2315	47.11	92.4	3.372	275.3	15.34	12.57
111	2008	95	2330	47.82	91.8	2.749	272.6	15.71	12.56
111	2008	95	2345	48.07	91.3	2.175	263	19.58	12.56
111	2008	95	2400	48.35	90.8	2.502	260.2	19.88	12.56
111	2008	96	15	48.5	90.2	3.521	260.1	18.68	12.55
111	2008	96	30	48.06	90.7	2.601	254.1	22.01	12.55
111	2008	96	45	47.72	91.4	2.486	251.5	22.32	12.55
111	2008	96	100	47.56	91.9	2.153	247.1	24.86	12.54
111	2008	96	115	47.44	92	1.099	265.9	15.73	12.54
111	2008	96	130	47.29	92.3	2.128	266.6	16.14	12.53
111	2008	96	145	47.29	92.3	2.275	277.4	15.94	12.53
111	2008	96	200	47.5	92.3	1.05	258.9	20.17	12.53
111	2008	96	215	47.65	92.5	1.364	224.7	15.69	12.52
111	2008	96	230	48.03	92.4	2.797	247.6	27.22	12.52
111	2008	96	245	48.24	92.3	2.702	275.9	16.38	12.52
111	2008	96	300	48.35	92.4	1.685	274.6	19.94	12.52
111	2008	96	315	48.28	92.5	1.066	242.5	20.27	12.52
111	2008	96	330	48.25	92.6	0.847	297.3	12.66	12.51
111	2008	96	345	48.29	92.8	1.085	229.4	25.46	12.51
111	2008	96	400	48.22	92.9	0.331	248.9	15.9	12.5
111	2008	96	415	48.26	93.2	0.607	351.7	16.3	12.49
111	2008	96	430	48.32	93.4	0.213	326.5	9.49	12.5
111	2008	96	445	48.36	93.6	0.113	298	3.759	12.5
111	2008	96	500	48.37	93.9	0.029	243.6	6.726	12.5
111	2008	96	515	48.36	94.1	0.09	206	1.824	12.49
111	2008	96	530	48.36	94.3	0.98	192.8	16	12.5
111	2008	96	545	48.33	94.4	0.54	194.5	17.5	12.49
111	2008	96	600	48.11	94.6	1.7	186	19.76	12.5
111	2008	96	615	47.81	94.8	1.278	238.6	50	12.5
111	2008	96	630	47.62	94.7	2.176	202.2	18.72	12.5
111	2008	96	645	47.26	95.1	1.665	280	43.39	12.49
111	2008	96	700	47.47	95.3	2.633	297.1	16.61	12.49
111	2008	96	715	47.67	95.3	1.067	248.5	16.7	12.49
111	2008	96	730	47.87	95.4	1.257	259.4	24.26	12.49
111	2008	96	745	48.21	95.4	2.911	284.6	13.78	12.48
111	2008	96	800	48.74	95.3	3.293	293.1	13.96	12.49
111	2008	96	815	49.59	94.8	3.823	294.5	16.15	12.6
111	2008	96	830	50.68	93.4	5.55	304.2	16.41	12.89
111	2008	96	845	51.81	91.3	5.191	318.1	23.26	13.53
111	2008	96	900	53.02	87.5	5.872	322.9	21.4	13.52
111	2008	96	915	54.41	83.1	5.493	317.6	26.58	13.5

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	96	930	55.26	78.3	7.67	332.2	19.87	13.48
111	2008	96	945	55.56	74.7	8.74	330.6	18.96	13.48
111	2008	96	1000	56.16	67.72	9.22	336	21.36	13.47
111	2008	96	1015	56.81	63.97	8.38	334.4	27.42	13.47
111	2008	96	1030	57.47	63.17	9.33	338.1	22.81	13.46
111	2008	96	1045	58.17	59.52	8.64	338.6	21.73	13.44
111	2008	96	1100	57.97	59.45	8.95	352.8	21.72	13.44
111	2008	96	1115	58.22	57.34	8.15	358.1	27.69	13.29
111	2008	96	1130	58.17	58.38	8.98	348.9	22.71	13.43
111	2008	96	1145	58	56.77	8.63	354.5	28.73	13.43
111	2008	96	1200	58.08	58.01	7.95	358.9	24.6	13.43
111	2008	96	1215	56.98	67.78	8.88	20.25	31.06	13.43
111	2008	96	1230	54.96	69.72	9.23	24.88	27.38	13.43
111	2008	96	1245	55.1	66.41	7.5	10.35	20.98	13.43
111	2008	96	1300	55.39	63.33	7.71	24.11	25.71	13.43
111	2008	96	1315	55.4	61.12	7.84	20.59	27.34	13.44
111	2008	96	1330	55.84	58.11	6.549	19.6	34.58	13.43
111	2008	96	1345	57.03	54.8	7.1	4.542	28.7	13.22
111	2008	96	1400	57.16	56.44	7.28	18.02	27.14	13.21
111	2008	96	1415	56.7	57.81	7.95	20.92	32.44	13.11
111	2008	96	1430	56.7	55.8	7.17	26.67	32.6	13.01
111	2008	96	1445	57.24	53.49	6.618	18.97	31.81	12.93
111	2008	96	1500	57.24	49.95	6.982	16.96	29.46	12.93
111	2008	96	1515	57.83	47.73	7.21	1.757	27.5	12.94
111	2008	96	1530	57.46	51.48	7.59	21.94	28.97	12.91
111	2008	96	1545	57.76	47.97	6.053	9.06	38.36	12.87
111	2008	96	1600	58.07	48.03	5.769	351.9	29.7	12.85
111	2008	96	1615	58.36	47.86	5.794	21.56	36.2	12.82
111	2008	96	1630	58.76	46.22	6.168	22.34	35.14	12.8
111	2008	96	1645	58.95	44.65	5.798	34	28.8	12.79
111	2008	96	1700	58.98	45.42	5.943	12.38	35.24	12.77
111	2008	96	1715	59.47	43.45	5.036	14.21	28.41	12.76
111	2008	96	1730	59.69	42.91	5.586	34.68	31.62	12.75
111	2008	96	1745	59.28	43.01	5.356	52.89	37.22	12.75
111	2008	96	1800	59.13	43.68	4.994	56.19	29.81	12.73
111	2008	96	1815	57.72	44.92	5.745	58.2	28.06	12.71
111	2008	96	1830	56.98	44.96	4.46	47.47	25.64	12.71
111	2008	96	1845	56.47	45.77	3.616	56.91	26.99	12.69
111	2008	96	1900	56.07	46.47	4.686	48.17	21.09	12.68
111	2008	96	1915	55.59	47.54	4.544	47.69	24.84	12.67
111	2008	96	1930	55.03	48.75	4.647	48.79	25.93	12.66
111	2008	96	1945	54.32	50.36	4.98	52.65	17.62	12.66
111	2008	96	2000	53.68	51.64	4.52	49.88	20.59	12.64
111	2008	96	2015	52.93	52.64	4.613	40.75	28.28	12.64
111	2008	96	2030	52.38	52.74	4.629	49.29	22.07	12.63
111	2008	96	2045	52.04	53.01	5.151	54.59	20.97	12.63
111	2008	96	2100	51.6	53.82	5.36	47.97	22.02	12.62
111	2008	96	2115	51.21	54.65	4.474	49.33	24.48	12.61
111	2008	96	2130	50.84	55.89	4.25	64.09	31.27	12.6
111	2008	96	2145	50.62	57	4.214	59.96	26.69	12.6
111	2008	96	2200	50.32	58.34	3.789	55.23	29.28	12.6
111	2008	96	2215	50.04	59.51	3.902	68.18	20.54	12.59
111	2008	96	2230	49.6	61.05	2.915	73.6	23.1	12.58
111	2008	96	2245	49.27	61.83	3.686	75	22.45	12.58
111	2008	96	2300	49.1	62.77	3.801	74.1	21.66	12.57
111	2008	96	2315	48.77	63.57	3.1	78.3	25.01	12.57
111	2008	96	2330	48.61	65.48	3.136	88.6	25.55	12.57
111	2008	96	2345	48.48	69.8	3.098	96.9	26.29	12.56
111	2008	96	2400	48.28	72.7	3.448	119.2	18.59	12.55
111	2008	97	15	48.04	75.2	3.172	111.6	22.5	12.55

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	97	30	47.88	75.6	2.492	77.4	31.48	12.55
111	2008	97	45	47.64	77.3	2.852	70.3	23.71	12.54
111	2008	97	100	47.47	76.8	2.336	63.28	25.47	12.54
111	2008	97	115	47.26	77.9	2.411	75.1	34.16	12.54
111	2008	97	130	47.15	78.5	2.53	76.3	18.41	12.53
111	2008	97	145	46.99	79.4	2.681	67.09	25.67	12.53
111	2008	97	200	46.87	80.5	2.761	86.4	23.42	12.52
111	2008	97	215	46.75	81.5	3.189	91.2	24.16	12.52
111	2008	97	230	46.54	82.2	2.641	87.6	30.48	12.51
111	2008	97	245	46.32	83	3.35	80.6	18.04	12.51
111	2008	97	300	46.1	83.5	3.581	84.1	23.27	12.5
111	2008	97	315	45.98	83.2	4.305	97.6	24.46	12.5
111	2008	97	330	45.9	83	4.571	102.5	24.27	12.5
111	2008	97	345	45.73	83.1	5.062	111.6	16.74	12.5
111	2008	97	400	45.47	83.4	5.01	127.6	19.24	12.49
111	2008	97	415	45.27	82.2	5.904	116.8	20.51	12.49
111	2008	97	430	45.11	80.8	5.215	120.5	17.85	12.48
111	2008	97	445	45.02	81	5.014	112.3	18.91	12.48
111	2008	97	500	44.95	79.4	5.457	95.8	25.31	12.47
111	2008	97	515	44.79	81.2	4.083	86.8	27.09	12.47
111	2008	97	530	44.51	81.1	5.165	98	22.68	12.47
111	2008	97	545	44.35	80.6	5.227	93.9	26.86	12.47
111	2008	97	600	44.22	78.7	5.874	101.1	29.28	12.46
111	2008	97	615	44.2	77.3	7.17	107.3	20.32	12.46
111	2008	97	630	44.2	76.4	6.068	96.3	29.06	12.46
111	2008	97	645	44.16	77.2	5.786	97.9	25.49	12.46
111	2008	97	700	44.04	77.1	9.19	102.2	22.7	12.46
111	2008	97	715	43.96	77.1	8.16	112.5	20.74	12.46
111	2008	97	730	43.97	76.5	7.47	104.2	26.95	12.46
111	2008	97	745	43.86	76.1	8.14	98.8	23.29	12.45
111	2008	97	800	43.88	75.4	5.943	84.3	23.96	12.45
111	2008	97	815	43.87	74.9	7.66	100.9	23.64	12.49
111	2008	97	830	43.78	74.2	7.43	84.2	22.2	12.47
111	2008	97	845	43.81	74	7.6	89.7	27.4	12.45
111	2008	97	900	43.83	73.6	7.24	91.2	24.16	12.44
111	2008	97	915	43.9	72.8	7.46	79.8	23.18	12.46
111	2008	97	930	43.99	73.4	6.475	85.1	23.72	12.45
111	2008	97	945	43.93	74.5	6.892	81.3	24.32	12.46
111	2008	97	1000	43.9	75.1	7.28	83.1	24.9	12.45
111	2008	97	1015	43.8	74.5	8.35	94.5	28.76	12.45
111	2008	97	1030	43.77	75	7.07	92.7	23.68	12.45
111	2008	97	1045	43.88	73.9	8.15	102.2	22.51	12.45
111	2008	97	1100	44.33	72.8	9.05	102.7	24.02	12.57
111	2008	97	1115	44.63	70.1	9.6	103.4	28.32	12.64
111	2008	97	1130	44.83	69.53	9.18	96.2	27.31	12.82
111	2008	97	1145	45.27	66.96	10.99	96.7	22.41	13.07
111	2008	97	1200	45.5	66.29	12.17	103.2	22.49	13.26
111	2008	97	1215	45.65	66.12	10.84	99.1	18.63	13.31
111	2008	97	1230	45.94	65.15	10.59	96.1	22.42	13.62
111	2008	97	1245	46.46	64.68	9.73	90.7	26.63	13.61
111	2008	97	1300	46.19	67.16	10.1	84.2	20.77	13.6
111	2008	97	1315	45.83	67.19	9.25	81.5	24.13	13.14
111	2008	97	1330	45.51	67.39	8.86	83.5	25.11	13.11
111	2008	97	1345	45.29	67.02	9.05	84.5	30.56	12.98
111	2008	97	1400	45.75	64.88	8.81	94.4	27.44	13.12
111	2008	97	1415	46.98	62.17	8.85	92	21.41	13.6
111	2008	97	1430	47.23	62.2	9.22	92.7	25.53	13.58
111	2008	97	1445	46.87	63.07	8.97	81.2	23.71	13.6
111	2008	97	1500	47.39	60.15	9.86	101.2	24.89	13.61
111	2008	97	1515	47.42	60.11	9.93	99.2	23.05	13.61

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	97	1530	47.22	61.05	9.29	95.8	27.18	13.26
111	2008	97	1545	47.28	59.91	8.41	87.9	27.43	13.18
111	2008	97	1600	46.78	60.89	9.51	89.4	25.05	13.06
111	2008	97	1615	46.84	59.88	9.37	95.4	23.06	13.52
111	2008	97	1630	46.35	61.83	10.04	94.1	29.31	13.62
111	2008	97	1645	46.01	62.23	9.13	96.6	19.58	13.08
111	2008	97	1700	45.36	63.77	10.09	85.5	23.83	12.91
111	2008	97	1715	44.71	65.28	9.69	88.3	24.95	12.83
111	2008	97	1730	44.31	68.13	8.46	77.5	33.11	12.77
111	2008	97	1745	43.76	69.33	9.42	79.3	25.41	12.73
111	2008	97	1800	43.44	70.4	9.58	75.6	23.64	12.71
111	2008	97	1815	43.2	71.2	7.37	78.1	24.48	12.69
111	2008	97	1830	42.96	71.9	8.76	69.68	27.77	12.68
111	2008	97	1845	42.76	72	8.93	85.9	27.84	12.67
111	2008	97	1900	42.64	72.4	8.18	82	28	12.66
111	2008	97	1915	42.41	73.2	8.94	80.5	29.17	12.65
111	2008	97	1930	42.25	73.5	8.53	77.8	30.14	12.63
111	2008	97	1945	42.19	73.7	9.33	85.2	27.16	12.63
111	2008	97	2000	42.19	73.6	8.25	82.2	24.11	12.62
111	2008	97	2015	42.09	73.8	8.86	80.7	25.73	12.61
111	2008	97	2030	41.98	73.9	8.93	84	28.46	12.61
111	2008	97	2045	41.94	73.7	8.86	86.9	24.75	12.61
111	2008	97	2100	41.81	74	10.81	82.6	28.1	12.6
111	2008	97	2115	41.48	72.7	9.36	81.9	25.8	12.59
111	2008	97	2130	41.36	71.4	8.33	91.2	25.63	12.58
111	2008	97	2145	41.27	68.82	9.22	90.5	32.12	12.58
111	2008	97	2200	41.13	70	8.86	95.1	31.3	12.57
111	2008	97	2215	40.88	69.89	10.13	95	27.31	12.57
111	2008	97	2230	40.64	69.65	11.05	82.2	28.16	12.55
111	2008	97	2245	40.54	69.82	8.84	81.5	26.12	12.55
111	2008	97	2300	40.41	71	9.27	89.8	31.77	12.55
111	2008	97	2315	40.29	72.4	7.94	80.7	28.05	12.54
111	2008	97	2330	40.12	73.7	7.65	85.2	32.36	12.52
111	2008	97	2345	40.04	74.5	8.69	81.4	25.37	12.52
111	2008	97	2400	39.99	75.8	7.8	86.7	23.19	12.51
111	2008	98	15	39.93	76.2	6.722	93	25.76	12.5
111	2008	98	30	39.88	76.9	7.18	95.3	24.36	12.5
111	2008	98	45	39.74	77.1	7.37	95.7	23.03	12.49
111	2008	98	100	39.66	77.8	7.62	88.5	21.05	12.48
111	2008	98	115	39.14	79.4	8.66	90.1	27.55	12.47
111	2008	98	130	38.92	80	8.42	83.8	26.04	12.47
111	2008	98	145	38.94	79.8	6.823	88.2	29.05	12.47
111	2008	98	200	38.94	80.3	7.87	81.7	25.91	12.45
111	2008	98	215	38.97	80.8	6.767	82.1	27.17	12.45
111	2008	98	230	39.02	80.7	7.05	78.6	31.18	12.45
111	2008	98	245	39.06	81.1	8.02	86.5	20.78	12.43
111	2008	98	300	39.11	80.8	7.46	82.2	22.17	12.43
111	2008	98	315	39.12	81.3	6.146	81.5	30.65	12.43
111	2008	98	330	39.11	81.7	6.281	81.5	24.38	12.42
111	2008	98	345	39.1	81.9	7.23	88.3	23.34	12.42
111	2008	98	400	39.22	80.4	6.442	80.3	29.62	12.42
111	2008	98	415	39.37	79.5	7.27	80.1	24.36	12.42
111	2008	98	430	39.48	79.7	6.215	89.6	29.94	12.42
111	2008	98	445	39.58	79.1	5.556	77.4	32.16	12.41
111	2008	98	500	39.63	78.9	5.242	87.7	26.9	12.41
111	2008	98	515	39.67	79.8	5.719	89.4	35.11	12.41
111	2008	98	530	39.59	80.1	7.46	83.6	31.53	12.4
111	2008	98	545	39.6	80.4	6.847	77.3	25.53	12.41
111	2008	98	600	39.56	80.9	5.753	89.6	24.61	12.41
111	2008	98	615	39.61	80.4	5.419	76.9	32.14	12.41

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	98	630	39.65	80.6	6.003	90.2	28.64	12.41
111	2008	98	645	39.7	80.7	6.074	91.9	30.46	12.41
111	2008	98	700	39.78	80	6.638	91.3	27.54	12.41
111	2008	98	715	39.94	79.4	6.614	83.5	21.6	12.41
111	2008	98	730	40.01	79.6	6.08	79.5	28.45	12.41
111	2008	98	745	39.99	79.2	7.79	79.5	25.5	12.41
111	2008	98	800	40.15	79.2	6.662	81.6	28.89	12.41
111	2008	98	815	40.16	78.3	7.26	83.3	29.19	12.41
111	2008	98	830	40.31	77.4	7.31	96.9	21.24	12.41
111	2008	98	845	40.44	77.1	7.15	91	23.41	12.41
111	2008	98	900	40.53	76.6	6.896	94	23.29	12.41
111	2008	98	915	40.57	76.7	7.76	96.4	23.36	12.43
111	2008	98	930	40.49	75.5	7.77	90.1	23.24	12.46
111	2008	98	945	40.81	75.6	7.1	89.3	25.48	12.5
111	2008	98	1000	41.02	75.2	6.428	82.4	27.2	12.54
111	2008	98	1015	40.94	75.9	7.32	80.4	24.6	12.57
111	2008	98	1030	41.32	73.7	6.819	86.1	26.42	12.62
111	2008	98	1045	41.66	71.9	7.53	81.7	26.57	12.77
111	2008	98	1100	42.6	70.6	7.38	77.6	30.45	13.51
111	2008	98	1115	43.37	69.98	6.843	80.9	26.77	13.64
111	2008	98	1130	43.6	69.8	7.57	57.77	28.22	13.63
111	2008	98	1145	43.6	68.1	7.5	68.89	31.2	13.63
111	2008	98	1200	44.13	68.46	8.17	81.5	31.26	13.62
111	2008	98	1215	44.41	66.82	6.938	68.71	30.21	13.61
111	2008	98	1230	44.8	65.82	7.01	77.4	30.79	13.6
111	2008	98	1245	45.26	65.18	7.15	63.03	27.72	13.59
111	2008	98	1300	45.51	65.88	6.67	59.12	33.89	13.59
111	2008	98	1315	46.03	62.79	6.271	68.86	35.21	13.58
111	2008	98	1330	46.99	61.31	6.72	89.8	28.78	13.58
111	2008	98	1345	47.2	61.48	6.736	77	25.75	13.57
111	2008	98	1400	48.11	61.55	6.235	75.2	33	13.55
111	2008	98	1415	48.37	61.58	6.327	91.4	30.47	13.56
111	2008	98	1430	48.51	61.24	7.57	99.7	22.44	13.56
111	2008	98	1445	48.44	61.95	7.22	92.2	28.81	13.56
111	2008	98	1500	48.5	61.41	6.472	100.9	28.42	13.56
111	2008	98	1515	48.9	61.75	5.739	110.6	25.65	13.56
111	2008	98	1530	49.21	60.34	5.937	105.9	28.49	13.56
111	2008	98	1545	49.57	58.23	5.312	103.8	29.7	13.56
111	2008	98	1600	48.35	70	6.005	156.8	40.64	13.56
111	2008	98	1615	47.13	69.81	8.13	153.1	19.85	13.55
111	2008	98	1630	46.97	69.98	6.686	147.6	24.81	13.38
111	2008	98	1645	46.91	69.34	7.29	142.2	19.04	13.3
111	2008	98	1700	47	70.2	7.27	136.2	20.89	13.23
111	2008	98	1715	46.78	70.6	6.92	142.7	22.09	13.14
111	2008	98	1730	46.64	70.6	6.454	136.8	21.26	12.97
111	2008	98	1745	45.76	73	7.82	132.9	20.12	12.9
111	2008	98	1800	45.64	73.8	6.315	132	19.63	12.83
111	2008	98	1815	45.64	74	5.368	143.4	20.53	12.8
111	2008	98	1830	45.77	74.8	5.675	137.1	22.19	12.74
111	2008	98	1845	45.58	68.03	5.661	127.7	21.86	12.72
111	2008	98	1900	45.64	67.66	8.18	113.5	25.25	12.7
111	2008	98	1915	45.19	67.59	8.07	113	20.6	12.69
111	2008	98	1930	44.97	67.66	7.25	121.8	22.92	12.68
111	2008	98	1945	44.68	66.72	6.573	119.2	20.04	12.68
111	2008	98	2000	44.38	64.85	7.76	114	17.33	12.66
111	2008	98	2015	44.32	65.05	6.253	116.3	21.54	12.65
111	2008	98	2030	43.96	66.42	7.02	106.1	24.39	12.65
111	2008	98	2045	43.58	67.39	6.956	100.6	27.77	12.64
111	2008	98	2100	43.17	68.43	6.549	100.1	25.43	12.63
111	2008	98	2115	42.83	68.77	8.38	111	22.01	12.63

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	98	2130	42.47	68.16	7.67	96.3	21.89	12.63
111	2008	98	2145	42.24	69.07	7.87	105.9	20.51	12.62
111	2008	98	2200	41.94	69.98	7.57	99.5	20.97	12.61
111	2008	98	2215	41.62	70.3	7.57	95	23.47	12.61
111	2008	98	2230	41.32	71	8.14	95.9	24.75	12.61
111	2008	98	2245	40.87	72.4	8.2	86.8	25.46	12.59
111	2008	98	2300	40.78	72.7	6.865	93.8	28.75	12.59
111	2008	98	2315	40.79	73.5	7.75	91.6	24.28	12.58
111	2008	98	2330	40.68	74.4	7.29	95.9	25.65	12.58
111	2008	98	2345	40.6	74.7	7.32	90.9	25.68	12.57
111	2008	98	2400	40.6	75.6	6.789	91.4	23.96	12.56
111	2008	99	15	40.47	76.8	7.71	98.5	26.98	12.57
111	2008	99	30	40.36	76.4	6.803	91.1	26.2	12.56
111	2008	99	45	40.31	76.8	6.323	76.7	24.42	12.56
111	2008	99	100	40.28	77.2	5.927	83.8	28.07	12.55
111	2008	99	115	40.21	78	7.44	78.7	21.47	12.54
111	2008	99	130	40.12	79	6.609	82.1	29.98	12.54
111	2008	99	145	40.05	78.8	6.511	78.2	23.55	12.54
111	2008	99	200	40	78.8	5.925	87.1	24.31	12.52
111	2008	99	215	39.93	78.5	7.53	75.2	25.07	12.53
111	2008	99	230	39.88	78.7	6.331	77.4	22.31	12.52
111	2008	99	245	39.8	78.4	6.952	68.96	28.87	12.51
111	2008	99	300	39.74	78.3	7.32	70.4	28.11	12.51
111	2008	99	315	39.75	78.2	7.14	85	27.39	12.51
111	2008	99	330	39.73	77.8	6.694	80.3	22.31	12.5
111	2008	99	345	39.71	77.7	5.965	67.53	30.49	12.5
111	2008	99	400	39.66	77.9	5.939	76.1	24.75	12.49
111	2008	99	415	39.58	77.6	6.154	81.5	21.71	12.49
111	2008	99	430	39.47	78	7.12	80	28.32	12.48
111	2008	99	445	39.49	77.9	5.57	78.2	28.2	12.47
111	2008	99	500	39.46	77.8	7.34	90.4	24.66	12.47
111	2008	99	515	39.41	77.6	6.511	82.2	30.19	12.46
111	2008	99	530	39.38	76.9	6.825	82.8	23.8	12.46
111	2008	99	545	39.34	76.5	5.503	85.4	29.4	12.45
111	2008	99	600	39.22	76.1	6.614	76.4	18.5	12.45
111	2008	99	615	39.1	74.9	6.728	82.2	23.8	12.44
111	2008	99	630	39.06	74.8	5.753	79	22.83	12.44
111	2008	99	645	39.15	73.5	6.614	74.2	25.33	12.44
111	2008	99	700	39.38	72.6	7.08	76.8	25.5	12.59
111	2008	99	715	39.59	71.4	7.17	68.83	25.68	13.34
111	2008	99	730	39.97	71.4	6.871	76.3	30.74	13.62
111	2008	99	745	40.58	69.46	6.352	75.6	31.34	13.7
111	2008	99	800	41.17	68.82	6.674	72.9	27.8	13.69
111	2008	99	815	41.98	67.21	6.714	74.7	26.97	13.67
111	2008	99	830	42.03	68	7.1	63.55	27.65	13.66
111	2008	99	845	42.07	66.56	7.27	73.1	33.28	13.66
111	2008	99	900	42.7	66.15	7.55	86.2	27.88	13.66
111	2008	99	915	42.82	65.25	7.05	76.6	35.1	13.64
111	2008	99	930	43.34	63.48	6.229	74.1	29.83	13.64
111	2008	99	945	43.53	64.18	6.702	74.1	28.3	13.63
111	2008	99	1000	44.02	63.48	7.13	91	29.66	13.62
111	2008	99	1015	44.73	63.57	6.658	73.6	29.32	13.62
111	2008	99	1030	44.78	63.23	6.563	78.1	24.36	13.6
111	2008	99	1045	45.18	62.86	6.926	91	30.9	13.58
111	2008	99	1100	46.65	59.51	6.188	83.8	24.95	13.58
111	2008	99	1115	47.41	58.9	6.12	94.7	25.05	13.56
111	2008	99	1130	47.81	56.53	6.245	101.3	30.31	13.56
111	2008	99	1145	48.95	56.79	5.769	96.2	37.62	13.54
111	2008	99	1200	50.08	54.32	5.576	119	48.8	13.53
111	2008	99	1215	49.54	66.53	6.323	140.2	37.73	13.51

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	99	1230	47.74	70.2	7.81	159	22.8	13.51
111	2008	99	1245	46.92	70.8	8.43	158.7	19.33	13.51
111	2008	99	1300	46.74	71.9	9.05	160.4	20.15	13.52
111	2008	99	1315	46.83	70.6	8.46	159.5	18.98	13.52
111	2008	99	1330	47.38	71.9	8.2	160.2	20.39	13.52
111	2008	99	1345	47.2	68.84	8.51	162.5	18.35	13.52
111	2008	99	1400	48.55	66.16	6.883	173.5	22.64	13.52
111	2008	99	1415	49.73	67.54	8.03	154.1	21.45	13.51
111	2008	99	1430	50.37	64.69	7.14	161.9	19.85	13.1
111	2008	99	1445	49.52	69.21	8.03	162.6	21.1	12.99
111	2008	99	1500	48.67	68.27	8.26	167.9	21.27	12.97
111	2008	99	1515	50.34	65.09	7.43	151.6	21.52	12.94
111	2008	99	1530	50.18	69.11	7.11	162.2	22.48	12.91
111	2008	99	1545	49.53	69.31	6.96	165.5	25.49	12.88
111	2008	99	1600	50.37	65.82	6.491	164.8	19	12.87
111	2008	99	1615	51.14	65.11	6.811	159.2	19.83	12.85
111	2008	99	1630	51.63	64.34	7.02	166	22.2	12.84
111	2008	99	1645	51.35	64.14	6.753	164.4	19.27	12.82
111	2008	99	1700	51.51	63.74	6.851	165.5	16.9	12.8
111	2008	99	1715	51.18	65.04	7	157.2	21.5	12.79
111	2008	99	1730	50.36	65.18	7.07	154.9	21.53	12.78
111	2008	99	1745	50.31	63.71	7.68	143.8	19.01	12.77
111	2008	99	1800	49.88	65.06	7.37	142.8	22.8	12.76
111	2008	99	1815	49.78	66.53	5.916	135	22.03	12.72
111	2008	99	1830	49.01	68.91	6.472	123.5	21.05	12.71
111	2008	99	1845	48	70.8	6.507	141.3	20.94	12.7
111	2008	99	1900	47.61	71.2	5.61	136.1	22.82	12.68
111	2008	99	1915	46.66	74.1	5.822	143.9	18.18	12.67
111	2008	99	1930	45.31	77.4	5.967	134.3	19.62	12.66
111	2008	99	1945	44.65	77.7	5.642	141.4	20.97	12.66
111	2008	99	2000	44.29	76.8	5.25	140.4	20.14	12.64
111	2008	99	2015	44.05	76.9	4.943	137.8	21.94	12.63
111	2008	99	2030	43.83	77	3.716	128.5	24.17	12.63
111	2008	99	2045	43.66	76.4	3.932	123.5	21.04	12.62
111	2008	99	2100	43.54	74.5	4.422	116.9	20.01	12.61
111	2008	99	2115	43.47	73.5	4.214	119.6	16.53	12.6
111	2008	99	2130	43.28	73.1	2.986	89.9	28.36	12.59
111	2008	99	2145	42.92	72.7	3.585	84.2	21.54	12.58
111	2008	99	2200	42.7	71.6	3.253	91.9	25.74	12.58
111	2008	99	2215	42.52	72.9	3.136	79	23.35	12.58
111	2008	99	2230	41.95	74.1	2.582	77.7	23.02	12.57
111	2008	99	2245	41.7	73.8	1.934	75.6	27.81	12.57
111	2008	99	2300	41.55	73.1	2.139	96.8	32.9	12.56
111	2008	99	2315	41.31	74.2	2.506	82.1	26.01	12.55
111	2008	99	2330	40.85	75.9	3.064	95	23.78	12.55
111	2008	99	2345	40.67	77	3.023	98.9	26.49	12.54
111	2008	99	2400	40.27	78.4	2.656	75.1	25.16	12.53
111	2008	100	15	39.85	80.1	2.661	64.79	21.47	12.53
111	2008	100	30	39.4	81.4	2.876	73.5	23.23	12.52
111	2008	100	45	39.17	83.1	3.132	78.2	18.67	12.51
111	2008	100	100	39.04	84.3	3.31	83.3	18.24	12.51
111	2008	100	115	38.81	85.6	3.493	88.3	21.74	12.5
111	2008	100	130	38.76	86.8	3.314	87.2	24.25	12.5
111	2008	100	145	38.8	87.5	3.417	81.8	23.05	12.49
111	2008	100	200	38.97	88.2	3.455	75.5	20.69	12.49
111	2008	100	215	39.14	88.6	4.035	80.8	22.39	12.49
111	2008	100	230	39.08	89.2	4.548	86.5	22.2	12.48
111	2008	100	245	38.79	89.7	5.022	91.7	25.27	12.48
111	2008	100	300	38.66	89.6	4.522	97.9	24.94	12.47
111	2008	100	315	38.56	89.4	4.123	96.1	25.81	12.47

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	100	330	38.36	89.5	4.035	86.2	28.14	12.46
111	2008	100	345	38.27	89.2	3.833	90.6	21.05	12.46
111	2008	100	400	38.11	89	4.013	97.3	25.67	12.45
111	2008	100	415	37.76	89.2	4.299	102.4	19.34	12.45
111	2008	100	430	37.68	89.5	4.16	92.5	25.44	12.45
111	2008	100	445	37.69	89.7	3.596	96.6	23.16	12.45
111	2008	100	500	37.66	89.5	4.399	116.6	20.77	12.43
111	2008	100	515	37.4	89.7	4.095	106.1	23.62	12.43
111	2008	100	530	37.48	89.7	3.554	107.5	23.33	12.43
111	2008	100	545	37.5	89.6	3.146	107	30.23	12.43
111	2008	100	600	37.48	89.5	3.567	79.9	23.47	12.42
111	2008	100	615	37.47	89.6	3.753	79.7	21.82	12.43
111	2008	100	630	37.72	89	3.448	75.9	35.3	12.42
111	2008	100	645	37.8	88.7	3.888	69.73	32	12.41
111	2008	100	700	37.94	88.4	4.093	60.6	30.5	12.41
111	2008	100	715	38.01	87.9	4.422	80.3	18.79	12.41
111	2008	100	730	38.13	87.6	3.922	92.4	32.88	12.42
111	2008	100	745	38.27	87.4	4.216	99.6	23.27	12.45
111	2008	100	800	38.53	85.7	4.184	111.4	31.56	12.54
111	2008	100	815	38.82	85.6	3.934	80.1	37.7	12.89
111	2008	100	830	39.64	83.5	2.483	107.1	37.74	13.35
111	2008	100	845	40.32	80.7	3.192	97.1	26.91	13.67
111	2008	100	900	41.44	78.1	2.708	72	50.88	13.68
111	2008	100	915	43.19	73.1	2.481	78.4	58.35	13.68
111	2008	100	930	43.49	71.2	2.704	126.2	41.13	13.64
111	2008	100	945	44.8	67.86	1.551	107.6	65.03	13.64
111	2008	100	1000	45.82	72.1	3.284	162.6	42.49	13.6
111	2008	100	1015	45.02	73.1	5.564	175	24.31	13.58
111	2008	100	1030	45.13	74.4	6.047	179.9	27	13.58
111	2008	100	1045	44.63	78.2	6.761	178.4	26.4	13.57
111	2008	100	1100	44.78	78.6	6.501	168.9	26.95	13.58
111	2008	100	1115	44.47	79.3	6.779	165.6	22.76	13.58
111	2008	100	1130	44.05	79.9	6.763	173	23.88	13.58
111	2008	100	1145	44.28	79.3	7.28	162.3	21.03	13.58
111	2008	100	1200	44.82	79.8	6.334	161.9	26.86	13.58
111	2008	100	1215	45.38	75.9	6.217	151.2	23.19	13.57
111	2008	100	1230	45.77	80	6.513	176.5	27.6	13.56
111	2008	100	1245	46.44	79.5	6.029	173.5	27.63	13.55
111	2008	100	1300	45.75	80.1	7.15	173.8	24.09	13.55
111	2008	100	1315	45.09	81	7.38	177.6	19.35	13.53
111	2008	100	1330	46.24	79.1	6.166	177.9	26.32	13.53
111	2008	100	1345	46.37	79.9	7.3	175.7	21.92	13.53
111	2008	100	1400	45.44	82.2	6.853	170.5	20.46	13.53
111	2008	100	1415	45.83	80.1	6.257	177.8	23.32	13.54
111	2008	100	1430	45.12	84.8	6.021	188.5	27.84	13.54
111	2008	100	1445	45.02	82.8	5.552	175.9	32.84	13.54
111	2008	100	1500	44.54	85.9	4.968	166.6	29.08	13.54
111	2008	100	1515	44.62	85.1	5.638	168.7	27.15	13.56
111	2008	100	1530	45.15	83	5.647	166.3	27.71	13.56
111	2008	100	1545	44.55	85.2	6.368	156.8	23.75	13.56
111	2008	100	1600	44.93	84.5	5.644	162.2	24.65	13.58
111	2008	100	1615	44.58	85.5	5.62	160.1	21.6	13.58
111	2008	100	1630	44.73	84.3	6.005	161.5	19.47	13.59
111	2008	100	1645	44.78	85	5.632	165.5	24.47	13.6
111	2008	100	1700	44.86	85.9	5.342	162.5	26.2	13.21
111	2008	100	1715	44.77	86.6	5.681	160.5	20.92	13.04
111	2008	100	1730	44.49	87.3	4.665	151.9	24.56	12.9
111	2008	100	1745	44.59	87.8	4.631	175.3	26.57	12.82
111	2008	100	1800	44.57	87.7	4.704	158.4	25.37	12.77
111	2008	100	1815	44.3	88.4	5.105	155.8	21.14	12.74

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	100	1830	44.15	89.5	4.931	162.6	21.76	12.72
111	2008	100	1845	43.99	89.8	5.925	150.8	19.61	12.71
111	2008	100	1900	44.11	89.3	4.822	157.1	24.46	12.69
111	2008	100	1915	44.02	89.9	4.825	161.2	20.04	12.68
111	2008	100	1930	43.97	90.4	4.794	145.6	20.65	12.68
111	2008	100	1945	43.95	90.4	5.292	150.8	15.9	12.66
111	2008	100	2000	43.96	90.3	4.085	143.7	21.25	12.66
111	2008	100	2015	44.08	90.3	3.632	133.9	21.88	12.66
111	2008	100	2030	44.04	91.1	4.835	152.3	14.51	12.64
111	2008	100	2045	44.05	92.1	3.914	144.3	18.16	12.64
111	2008	100	2100	44.04	92.4	4.164	135.5	17.97	12.64
111	2008	100	2115	43.97	93	3.875	140.5	20.56	12.63
111	2008	100	2130	44.2	93.1	1.799	152.4	32.58	12.63
111	2008	100	2145	44.33	93.3	1.339	178.2	24.54	12.62
111	2008	100	2200	44.63	93.5	3.54	174.2	28	12.62
111	2008	100	2215	44.62	93.7	4.5	157.4	25.03	12.62
111	2008	100	2230	44.74	93.9	3.735	128.2	19.81	12.61
111	2008	100	2245	44.96	94	0.912	91.1	27.38	12.61
111	2008	100	2300	45.2	93.9	0.591	171	16.17	12.61
111	2008	100	2315	45.37	93.9	0.441	125.8	16.3	12.61
111	2008	100	2330	45.55	94.2	0.134	286.9	18.87	12.6
111	2008	100	2345	45.82	94.1	0.26	337.2	4.128	12.6
111	2008	100	2400	46.18	94.1	0.734	326.3	12.66	12.6
111	2008	101	15	46.4	94.1	1.626	321.3	13.23	12.6
111	2008	101	30	46.48	94.2	2.372	342.3	18.77	12.59
111	2008	101	45	46.57	94.3	0.922	353.3	19.44	12.59
111	2008	101	100	46.77	94.5	0.216	10.57	12.65	12.59
111	2008	101	115	46.94	94.5	0.329	53.99	20.88	12.59
111	2008	101	130	47	94.6	1.711	18.83	25.14	12.58
111	2008	101	145	47.06	94.7	1.267	15.39	25.02	12.58
111	2008	101	200	47.21	94.8	0.514	352.4	11.64	12.58
111	2008	101	215	47.32	94.8	0.537	347	9.53	12.58
111	2008	101	230	47.44	94.8	0.009	106.3	0.006	12.56
111	2008	101	245	47.5	94.8	na	na	na	12.56
111	2008	101	300	47.58	95.1	0.392	89.8	13.52	12.56
111	2008	101	315	47.75	95	1.46	90.3	47.53	12.56
111	2008	101	330	47.58	94.9	2.788	45.49	30.92	12.56
111	2008	101	345	47.23	95.1	2.867	37.43	25.28	12.55
111	2008	101	400	47.25	95.2	3.122	21.52	30.04	12.55
111	2008	101	415	47.02	95.3	2.433	359	22.39	12.54
111	2008	101	430	47.04	95.3	1.21	338.4	23.34	12.53
111	2008	101	445	47.11	95.4	0.027	103.2	0.327	12.53
111	2008	101	500	47.24	95.5	na	na	na	12.52
111	2008	101	515	47.33	95.5	0.339	183.6	7.71	12.52
111	2008	101	530	47.47	95.5	na	na	na	12.52
111	2008	101	545	47.53	95.6	0.073	145.2	3.983	12.51
111	2008	101	600	47.52	95.5	0.382	184.5	9.64	12.5
111	2008	101	615	47.53	95.8	1.079	210.2	18.54	12.5
111	2008	101	630	47.64	95.7	1.158	236	17.99	12.5
111	2008	101	645	47.68	95.9	1.352	247.1	15.07	12.49
111	2008	101	700	47.9	96	1.923	261.6	20.33	12.48
111	2008	101	715	48.13	96.1	1.341	268.7	23.32	12.48
111	2008	101	730	48.53	96.3	3.354	299.6	18.61	12.49
111	2008	101	745	48.59	96.3	3.602	301.2	16.97	12.51
111	2008	101	800	48.73	96.2	3.168	307.6	21.23	12.5
111	2008	101	815	49.15	96.3	3.598	289.5	14.05	12.58
111	2008	101	830	49.39	96.4	4.722	302	15.38	12.78
111	2008	101	845	50.13	96.5	3.851	294.5	24.62	13.15
111	2008	101	900	51.23	96.3	3.455	301	32.29	13.36
111	2008	101	915	52.74	94.9	3.491	315	26.69	13.52

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	101	930	54.43	88.3	4.498	311.8	20.88	13.5
111	2008	101	945	56.31	79.1	4.756	314.8	24.19	13.47
111	2008	101	1000	57.52	73.7	4.822	315.3	20.04	13.46
111	2008	101	1015	59.13	70.4	3.625	313.1	32.62	13.43
111	2008	101	1030	61.28	58.74	2.291	322.9	45.57	13.43
111	2008	101	1045	63.34	51.47	5.695	343.6	32.79	13.4
111	2008	101	1100	63.96	35.92	7.09	344.8	21.81	13.38
111	2008	101	1115	64.78	32.91	7.11	352.9	24.49	13.37
111	2008	101	1130	65.38	35.02	6.17	347.8	26.25	13.36
111	2008	101	1145	66.09	30.84	5.798	340	33.74	13.34
111	2008	101	1200	66.06	30.63	6.34	343.3	27.42	13.34
111	2008	101	1215	66.48	33.84	5.856	330.9	33.88	13.33
111	2008	101	1230	67.34	32.97	5.344	349.9	29.26	13.32
111	2008	101	1245	67.46	32.9	4.901	348.5	51.97	13.31
111	2008	101	1300	67.75	41.16	4.972	258.8	52.17	13.3
111	2008	101	1315	67.85	44.73	5.084	231.2	40.62	13.29
111	2008	101	1330	67.31	43.36	6.626	267.4	30.07	13.28
111	2008	101	1345	68.13	29.49	7.1	275.4	34.67	13.29
111	2008	101	1400	68.81	44.03	5.816	276.5	39.26	13.28
111	2008	101	1415	68.69	28.75	7.75	289.8	34.5	13.28
111	2008	101	1430	69.23	41.86	8.44	299.3	25.29	13.04
111	2008	101	1445	67.22	46.27	7.08	255.2	24.2	12.95
111	2008	101	1500	67.23	42.8	6.984	256.7	25.22	12.91
111	2008	101	1515	67.87	44.23	6.521	253.9	31.65	12.89
111	2008	101	1530	67.55	43.6	6.279	261.3	27.85	12.88
111	2008	101	1545	67.35	45	7.36	256	22.22	12.86
111	2008	101	1600	67.53	43.97	7.91	260	19.27	12.85
111	2008	101	1615	68.31	41.73	6.235	262.7	29.37	12.86
111	2008	101	1630	66.43	47.71	6.559	251.7	22.58	12.86
111	2008	101	1645	65	51.79	5.439	245.1	26.93	12.9
111	2008	101	1700	62.56	57.71	5.81	249.6	28.73	12.98
111	2008	101	1715	61.21	58.19	5.497	254.6	20.58	12.98
111	2008	101	1730	61.38	57.82	4.865	258.4	22.92	12.97
111	2008	101	1745	61.72	56.29	4.77	260.3	24.71	12.97
111	2008	101	1800	62.52	54.55	5.721	254.6	21.57	12.95
111	2008	101	1815	63.06	53.91	5.969	262.5	22.82	12.83
111	2008	101	1830	62.73	54.15	5.808	271.3	13.81	12.77
111	2008	101	1845	62.07	59.16	5.757	265	15.09	12.75
111	2008	101	1900	61.13	62.21	5.078	267.1	18.02	12.73
111	2008	101	1915	60.2	64.33	4.494	267.3	16.87	12.73
111	2008	101	1930	60.02	65.17	5.074	280.9	17.82	12.71
111	2008	101	1945	60.01	66.34	4.935	286.8	13.63	12.7
111	2008	101	2000	59.64	67.05	4.557	297.8	14.02	12.69
111	2008	101	2015	59.42	67.68	4.976	290.6	11.14	12.68
111	2008	101	2030	58.63	69.69	3.698	269.2	16.48	12.67
111	2008	101	2045	57.63	70.6	3.13	269.4	15.24	12.67
111	2008	101	2100	57.23	70.4	3.632	273.8	13.74	12.65
111	2008	101	2115	57.09	68.35	3.966	281.4	14.88	12.65
111	2008	101	2130	57.27	69.49	1.898	18.28	30.74	12.65
111	2008	101	2145	57.52	69.36	0.722	343.1	37.62	12.64
111	2008	101	2200	57.42	70.3	0.994	293.8	10.04	12.65
111	2008	101	2215	56.88	71.7	0.256	270.2	6.005	12.64
111	2008	101	2230	56.41	72.4	na	na	na	12.63
111	2008	101	2245	56.19	74.2	na	na	na	12.63
111	2008	101	2300	55.72	74.4	0.419	11.98	9.67	12.63
111	2008	101	2315	55.42	76	0.827	357.3	4.09	12.62
111	2008	101	2330	56.25	59.34	2.628	70.4	24.76	12.61
111	2008	101	2345	57.76	50.1	3.273	96.1	26.98	12.61
111	2008	101	2400	57.88	46.42	3.11	96.2	21.6	12.61
111	2008	102	15	57.73	42.54	3.668	85.7	23	12.61

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	102	30	57.55	41.76	2.849	52.9	30.61	12.61
111	2008	102	45	57.5	34.5	2.342	41.22	25.96	12.6
111	2008	102	100	57.61	34.7	2.667	38.86	23.92	12.6
111	2008	102	115	57.17	35.71	1.325	21.46	20.74	12.6
111	2008	102	130	56.69	36.48	1.549	55.95	22.6	12.59
111	2008	102	145	56.39	36.75	1.805	70.3	22.96	12.59
111	2008	102	200	56.15	36.35	1.431	59.08	20.23	12.59
111	2008	102	215	56.01	36.21	1.796	52.87	26.18	12.58
111	2008	102	230	55.85	38.05	1.892	85	27.69	12.58
111	2008	102	245	55.46	36.95	1.715	79.4	20.58	12.58
111	2008	102	300	55.42	38.49	2.289	96.8	23.83	12.57
111	2008	102	315	55.13	39.89	1.861	85.6	19.69	12.56
111	2008	102	330	54.9	38.99	1.965	105.1	20.39	12.57
111	2008	102	345	54.78	40.29	1.849	85.5	24.84	12.56
111	2008	102	400	54.53	40.66	2.34	83	20.87	12.56
111	2008	102	415	54.23	41.8	0.775	80.5	29.98	12.55
111	2008	102	430	53.65	43.91	0.082	186	13.54	12.55
111	2008	102	445	53.05	46.18	0.572	54.72	13.08	12.55
111	2008	102	500	52.92	45.38	1.911	70.8	22.27	12.54
111	2008	102	515	52.82	44.65	2.447	85.2	20.48	12.54
111	2008	102	530	52.92	44.34	3.005	70.6	26.74	12.52
111	2008	102	545	52.84	44.54	3.13	70.2	28.53	12.53
111	2008	102	600	52.66	44.44	3.392	75	28	12.52
111	2008	102	615	52.58	44.58	3.851	83.6	18.86	12.52
111	2008	102	630	52.68	43.74	4.315	91.2	27.07	12.52
111	2008	102	645	53	44.71	4.601	107.3	22.38	12.52
111	2008	102	700	53.13	47.59	5.624	121.7	20.95	12.51
111	2008	102	715	53.16	50.33	7.19	127.3	17.93	12.51
111	2008	102	730	53.13	48.09	6.797	132.7	22.84	12.51
111	2008	102	745	53.19	46.39	6.902	129.5	21.72	12.54
111	2008	102	800	53.06	48.76	7.06	126.3	21.04	12.52
111	2008	102	815	52.94	46.59	8.49	134.8	21.11	12.52
111	2008	102	830	53.16	45.98	10.11	139.1	17.89	12.61
111	2008	102	845	52.99	51.27	9.59	146	20.19	12.79
111	2008	102	900	53.09	53.68	8.73	147.3	18.53	13.36
111	2008	102	915	52.93	57.13	9.15	146.1	19.06	13.51
111	2008	102	930	52.32	62.08	9.24	147.4	16.96	13.52
111	2008	102	945	51.61	66	7.73	156.5	15.59	13.52
111	2008	102	1000	50.89	68.98	8.74	147.7	20.13	13.54
111	2008	102	1015	50.71	71.5	8.36	149.3	16.49	13.54
111	2008	102	1030	51.12	72.5	7.61	146.8	18.97	13.54
111	2008	102	1045	51.34	72.4	8.67	147.9	20.3	13.54
111	2008	102	1100	51.38	68.64	10.02	152	17.49	13.53
111	2008	102	1115	51.49	63.72	8.74	150.5	16.81	12.95
111	2008	102	1130	50.7	59.74	8.85	143.8	16.59	12.91
111	2008	102	1145	51.08	57.13	8.32	145.9	18.74	13.55
111	2008	102	1200	51.63	55.56	7.97	149	22.46	13.54
111	2008	102	1215	51.7	54.85	9.98	150.4	19.97	13.53
111	2008	102	1230	51.34	55.92	10.4	149	16.57	13.52
111	2008	102	1245	51.88	52.81	8.67	137.9	19.24	13.52
111	2008	102	1300	51.57	54.01	9.97	146	17.24	13.51
111	2008	102	1315	51.17	54.35	10.55	141.4	22.05	13.52
111	2008	102	1330	51.1	55.39	9.04	145.9	19.71	13.52
111	2008	102	1345	50.17	58.27	10.49	151.3	16.77	13.53
111	2008	102	1400	49.9	58.67	8.54	148.6	20.48	13.53
111	2008	102	1415	49.27	60.41	9.25	149.9	19.33	13.54
111	2008	102	1430	49.29	61.51	9.42	147.9	19.97	13.55
111	2008	102	1445	48.98	62.65	8.21	147.4	17.58	13.56
111	2008	102	1500	48.5	64.93	8.7	151.8	18.19	13.24
111	2008	102	1515	48.54	65.9	7.42	144.4	18.5	13.58

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	102	1530	48.35	67.57	7.15	141.1	19.89	13.01
111	2008	102	1545	48.14	69.91	5.638	146.9	23.58	12.9
111	2008	102	1600	47.72	76.5	6.231	151.4	23.66	12.87
111	2008	102	1615	46.74	81.6	7.03	148.5	19.59	12.9
111	2008	102	1630	46.11	85.4	7.44	142.9	23.58	12.87
111	2008	102	1645	46.4	86	5.137	138.9	24.35	12.87
111	2008	102	1700	46.78	87.3	5.125	132.9	22.62	12.92
111	2008	102	1715	46.74	90.4	4.553	147.1	25.54	12.82
111	2008	102	1730	46.5	92.1	4.776	136.5	20.05	12.83
111	2008	102	1745	46.69	92.7	3.845	136.7	23.69	12.73
111	2008	102	1800	46.74	93.6	3.741	125.4	23.34	12.7
111	2008	102	1815	47.21	94.1	2.468	106.9	33.77	12.68
111	2008	102	1830	47.77	94.1	2.041	129.6	28.86	12.68
111	2008	102	1845	47.84	94.4	1.923	65.53	44.59	12.66
111	2008	102	1900	47.96	94.8	2.483	71.1	27.67	12.66
111	2008	102	1915	48.24	94.8	3.106	84.1	24.18	12.66
111	2008	102	1930	48.34	95	2.431	109.9	31.02	12.64
111	2008	102	1945	48.37	95.3	2.723	127.3	27.61	12.64
111	2008	102	2000	48.54	95.3	2.546	109.8	37.56	12.64
111	2008	102	2015	48.67	95.4	2.743	122.1	26.57	12.63
111	2008	102	2030	48.76	95.5	2.974	151.7	21.47	12.63
111	2008	102	2045	48.74	95.4	1.896	152.7	37.89	12.63
111	2008	102	2100	48.92	95.7	3.114	155.7	26.35	12.63
111	2008	102	2115	49.04	95.7	3.493	156.2	23.05	12.62
111	2008	102	2130	49.12	95.8	2.153	179.8	24.58	12.62
111	2008	102	2145	49.21	95.9	1.025	147.4	37.03	12.62
111	2008	102	2200	49.33	95.9	2.408	177	23.41	12.61
111	2008	102	2215	49.26	96	3.17	162.3	15.39	12.61
111	2008	102	2230	49.27	96	2.477	202.3	33.64	12.6
111	2008	102	2245	49.41	96.1	0.812	131.4	20.89	12.6
111	2008	102	2300	49.68	96.2	0.509	79.9	19.07	12.6
111	2008	102	2315	49.9	96.2	0.957	3.341	31.53	12.6
111	2008	102	2330	50.27	96.4	1.087	314.9	57.27	12.58
111	2008	102	2345	50.85	96.4	1.583	300.6	40.58	12.58
111	2008	102	2400	51.15	96.5	0.288	279.8	25.66	12.58
111	2008	103	15	51.29	96.4	0.04	86.9	0.907	12.58
111	2008	103	30	51.44	96.4	0.721	111.6	13.6	12.58
111	2008	103	45	51.67	96.4	1.616	161.8	26.34	12.56
111	2008	103	100	51.56	96.4	2.128	137.3	17.48	12.56
111	2008	103	115	51.52	96.4	2.233	145.6	22.32	12.56
111	2008	103	130	51.53	96.5	2.064	156.3	21.72	12.55
111	2008	103	145	51.41	96.6	2.504	245.4	41.72	12.55
111	2008	103	200	51.29	96.5	1.53	102.6	65.69	12.54
111	2008	103	215	51.42	96.7	3.102	68.26	35.97	12.53
111	2008	103	230	51.47	96.6	2.257	234.3	44.44	12.52
111	2008	103	245	51.39	96.8	2.917	135.9	27.67	12.52
111	2008	103	300	51.18	96.7	4.238	158.6	31.05	12.52
111	2008	103	315	50.84	96.7	4.416	163.4	18.33	12.51
111	2008	103	330	50.87	96.8	3.275	171.1	26.98	12.5
111	2008	103	345	51.02	96.8	4.498	195.1	22.25	12.5
111	2008	103	400	50.64	96.9	5.52	190.6	23.07	12.5
111	2008	103	415	50.39	96.8	3.819	183	19.24	12.5
111	2008	103	430	50.23	96.8	3.523	186.7	24.8	12.48
111	2008	103	445	49.83	96.9	3.537	203	24.98	12.48
111	2008	103	500	49.41	96.9	3.265	200.4	23.74	12.48
111	2008	103	515	49.24	96.9	3.263	212	25.22	12.47
111	2008	103	530	49.39	97	2.062	228.2	33.2	12.47
111	2008	103	545	49.39	96.9	2.791	222.5	29.27	12.47
111	2008	103	600	49.75	96.9	3.039	245.3	28.95	12.46
111	2008	103	615	49.71	97	3.811	267.2	23.44	12.46

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	103	630	49.93	97	4.553	263.6	18.59	12.46
111	2008	103	645	50.52	96.9	5.497	296.1	30	12.48
111	2008	103	700	50.91	96.9	3.499	344.2	29.59	12.48
111	2008	103	715	51.12	96.9	1.023	348.5	20.29	12.46
111	2008	103	730	51.4	96.9	0.408	142.4	39.66	12.47
111	2008	103	745	51.63	96.9	0.943	208.1	24.3	12.47
111	2008	103	800	52.09	96.8	1.529	176.1	23.34	12.66
111	2008	103	815	52.32	96.8	1.943	216.1	39.7	12.82
111	2008	103	830	52.44	96.8	2.042	202.4	37.3	12.8
111	2008	103	845	52.52	96.8	1.549	183.5	36.47	12.82
111	2008	103	900	52.84	96.6	2.137	182.2	31.61	12.9
111	2008	103	915	52.99	96.6	2.631	193.6	29.09	13.08
111	2008	103	930	52.89	96.6	3.372	198.3	24.18	13.16
111	2008	103	945	52.99	96.4	3.829	222.4	25.96	13.48
111	2008	103	1000	53.09	96.2	4.168	213.8	20.39	13.48
111	2008	103	1015	53.46	95.7	3.586	204.9	29.08	13.3
111	2008	103	1030	53.78	95.3	3.785	171.9	18.99	13.47
111	2008	103	1045	54.59	94	3.916	228.1	30.53	13.46
111	2008	103	1100	54.69	93.4	4.966	209.1	25.77	13.45
111	2008	103	1115	54.19	93.2	4.434	207.4	25.22	13.44
111	2008	103	1130	54.41	93.2	3.992	208.7	24.16	13.45
111	2008	103	1145	54.37	92.6	4.212	228.9	28.91	13.45
111	2008	103	1200	53.74	92.8	4.621	214.9	30.47	13.24
111	2008	103	1215	53.97	92.9	4.17	239.5	32.18	12.95
111	2008	103	1230	54.35	92.7	4.079	190.9	36.19	13.48
111	2008	103	1245	53.2	92.5	5.066	229.7	23.6	12.97
111	2008	103	1300	53.36	92.8	5.512	269.9	19.65	12.82
111	2008	103	1315	53.75	93.3	2.153	245.2	37.52	12.82
111	2008	103	1330	55.79	93.4	1.592	274.6	30.07	13.47
111	2008	103	1345	58.88	90.3	3.829	245	29.68	13.44
111	2008	103	1400	60.41	86.3	4.573	242.4	28.79	13.41
111	2008	103	1415	58.6	85.1	4.962	197.8	27.36	13.4
111	2008	103	1430	55.94	85.8	4.238	239.8	26.7	12.94
111	2008	103	1445	55.24	85.5	4.716	251.8	21	12.89
111	2008	103	1500	54.94	85.9	4.432	241.1	23.84	12.81
111	2008	103	1515	54.32	86.1	4.283	240.9	30.5	12.79
111	2008	103	1530	53.68	86.9	3.59	223.9	34.97	12.87
111	2008	103	1545	54.19	86.9	4.283	265.2	26.69	13.44
111	2008	103	1600	56.33	85.7	5.578	235.5	25.58	13.23
111	2008	103	1615	55.53	89.4	7.02	246.4	21.39	13.01
111	2008	103	1630	54.77	90.5	6.283	269	20.61	13.02
111	2008	103	1645	55.18	91.7	4.909	269.7	20.8	12.82
111	2008	103	1700	55.98	91.7	4.939	263.8	19.13	12.77
111	2008	103	1715	56.57	91.3	5.423	259.4	22.31	12.78
111	2008	103	1730	57.03	91.2	5.501	258.1	25.98	12.77
111	2008	103	1745	57.12	91.3	6.253	259.8	21	12.86
111	2008	103	1800	56.77	91.1	4.899	254.2	19.25	12.75
111	2008	103	1815	56.36	91.5	5.755	265.4	21.76	12.71
111	2008	103	1830	56.25	92.1	5.096	260.3	21.09	12.7
111	2008	103	1845	55.95	92.6	5.445	275.4	22.67	12.69
111	2008	103	1900	56.06	92.4	4.369	276.5	17.9	12.68
111	2008	103	1915	56.09	92.8	4.456	260.4	19.78	12.67
111	2008	103	1930	55.37	93.8	5.57	256.8	22.79	12.67
111	2008	103	1945	54.34	94.8	6.108	271.6	20.86	12.66
111	2008	103	2000	54.58	95.4	4.966	280.9	17.35	12.65
111	2008	103	2015	54.99	95.6	4.349	266.2	21.69	12.66
111	2008	103	2030	55.3	96	4.508	277.5	17.03	12.65
111	2008	103	2045	55.68	96	3.777	279.3	13.43	12.66
111	2008	103	2100	56.04	96.3	3.69	282.4	14.86	12.64
111	2008	103	2115	56.75	96.3	5.314	286.2	12.26	12.64

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	103	2130	56.9	96.2	4.172	313.7	20.09	12.64
111	2008	103	2145	57.18	96.1	4.101	283.9	45.48	12.63
111	2008	103	2200	57.27	96.1	4.605	286.2	49.42	12.63
111	2008	103	2215	57.64	91	4.44	10.72	35.79	12.63
111	2008	103	2230	58.83	57.18	7.26	32.61	28.37	12.63
111	2008	103	2245	58.59	55.81	7.63	33.48	27.63	12.62
111	2008	103	2300	57.61	54.03	8.32	30.88	29.15	12.61
111	2008	103	2315	57.08	53.57	7.45	35	28.82	12.61
111	2008	103	2330	56.56	53.5	6.348	27.37	29.23	12.61
111	2008	103	2345	55.99	54.74	4.679	39.05	29.03	12.6
111	2008	103	2400	55.47	54.75	5.487	44.36	29.74	12.59
111	2008	104	15	54.88	56.82	5.429	43.8	25.44	12.59
111	2008	104	30	54.33	57.63	5.024	30.06	29.23	12.58
111	2008	104	45	54.02	59.47	4.994	12.37	28.22	12.58
111	2008	104	100	53.12	63.75	4.818	27.18	27.37	12.57
111	2008	104	115	52.2	65.96	4.653	22.57	23.64	12.55
111	2008	104	130	51.27	68.67	4.708	16.54	26.59	12.55
111	2008	104	145	50.8	68.01	3.723	354.4	27.31	12.54
111	2008	104	200	50.77	66.53	3.99	349.8	21.08	12.52
111	2008	104	215	50.93	63.99	4.307	10.96	21.18	12.52
111	2008	104	230	51.03	61.05	4.26	15.42	28.11	12.51
111	2008	104	245	51.05	61.38	3.426	8.81	25.28	12.51
111	2008	104	300	50.76	62.45	2.165	0.341	18.43	12.5
111	2008	104	315	50.25	64.03	1.693	347.4	16.5	12.5
111	2008	104	330	49.67	65.57	1.707	328.2	20.41	12.48
111	2008	104	345	49.14	64.84	2.689	345.9	16.16	12.48
111	2008	104	400	48.82	65.98	0.766	321.7	16.19	12.47
111	2008	104	415	48.19	72.7	0.468	298.8	8.16	12.47
111	2008	104	430	46.84	76.4	0.217	296.8	6.669	12.46
111	2008	104	445	46.82	68.97	1.94	315.3	15.39	12.44
111	2008	104	500	47.5	66.96	2.225	317.1	15.81	12.45
111	2008	104	515	47.2	67.53	2.425	314.5	14.24	12.44
111	2008	104	530	46.98	65.08	3.575	320.9	17.78	12.44
111	2008	104	545	46.82	65.15	3.259	320.9	14.37	12.43
111	2008	104	600	46.63	64.45	4.136	312.4	14.09	12.43
111	2008	104	615	46.53	63.38	4.218	320.9	17.16	12.42
111	2008	104	630	46.71	62.24	4.448	322.4	16.01	12.42
111	2008	104	645	46.78	61.4	3.233	322.8	25.13	12.79
111	2008	104	700	47.06	60.53	3.845	340.1	18.4	13.05
111	2008	104	715	47.37	59.29	4.909	333.8	19.75	13.13
111	2008	104	730	48.14	58.49	5.084	336.9	22.98	13.31
111	2008	104	745	48.15	59.42	5.8	325	20.28	13.3
111	2008	104	800	48.11	59.36	5.187	304.2	19.58	13.62
111	2008	104	815	48.51	56.41	6.704	306.8	22.2	13.62
111	2008	104	830	49.61	53.32	6.303	317.7	23.29	13.6
111	2008	104	845	50.44	52.65	7.03	325.6	24.65	13.58
111	2008	104	900	50.71	50.64	7.09	320.1	24.41	13.57
111	2008	104	915	50.8	51.94	7.73	314	21.45	13.56
111	2008	104	930	51.37	49.23	7.83	314.7	23.12	13.54
111	2008	104	945	51.44	48.16	6.813	321.3	22.46	13.55
111	2008	104	1000	51.86	48.69	8.88	309.1	19.02	13.53
111	2008	104	1015	52.32	49.56	9.23	301.1	26.94	13.52
111	2008	104	1030	52.53	48.72	9.88	288.7	17.38	13.51
111	2008	104	1045	51.6	49.49	10.21	303.5	18.37	13.41
111	2008	104	1100	51.09	49.63	9.59	314.7	21.37	13.39
111	2008	104	1115	50.87	50.6	8.95	317.1	21.62	13.55
111	2008	104	1130	50.77	52.14	9.84	305.6	17.86	13.55
111	2008	104	1145	51.14	49.77	9.25	313.2	22.91	13.54
111	2008	104	1200	51.36	50.8	9.94	323.2	19.26	13.54
111	2008	104	1215	50.99	51.57	7.93	321.3	20.28	13.1

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	104	1230	50.86	51.24	7.87	321.5	22.84	13.11
111	2008	104	1245	51.15	51.1	8.75	322.3	20.98	13.56
111	2008	104	1300	52.28	49.8	6.984	317.6	22.41	13.54
111	2008	104	1315	52.9	48.49	8.26	332.4	25.88	13.53
111	2008	104	1330	53.04	46.45	8.26	324.1	23.2	13.52
111	2008	104	1345	53.42	45.28	8.15	347.3	30.13	13.52
111	2008	104	1400	53.36	47.08	6.66	336.2	28.47	13.51
111	2008	104	1415	53.3	47.65	9.3	316.9	16.87	13.51
111	2008	104	1430	53.29	48.12	8.54	318.1	21.23	13.52
111	2008	104	1445	53.18	47.72	7.28	329.9	24.09	13.52
111	2008	104	1500	53.75	48.62	9.07	318.7	20.34	13.51
111	2008	104	1515	53.68	49.45	8.98	331.6	25.52	13.51
111	2008	104	1530	53.2	48.88	7.93	335.6	23.29	13.15
111	2008	104	1545	53.28	49.96	7.83	326.4	25.94	13.52
111	2008	104	1600	53.08	50.93	8.26	322	21.04	13.17
111	2008	104	1615	52.48	51.83	7.29	329.5	22.29	13.06
111	2008	104	1630	52.39	49.16	7.49	315.2	20.42	13.18
111	2008	104	1645	53.24	48.26	6.908	319.2	23.82	13.54
111	2008	104	1700	53.38	46.38	7.71	315.4	20.02	13.46
111	2008	104	1715	53.33	45.24	7.75	331.8	18.06	12.98
111	2008	104	1730	52.96	45.61	6.366	334.4	26.65	12.88
111	2008	104	1745	52.85	46.82	6.765	321.4	23.15	12.79
111	2008	104	1800	52.94	45.28	5.608	311.4	24.27	12.79
111	2008	104	1815	53.02	42.47	6.309	343.6	25.46	12.73
111	2008	104	1830	52.7	42.64	6.628	350	22.6	12.72
111	2008	104	1845	52.02	55.19	5.904	26.6	34.41	12.7
111	2008	104	1900	50.48	55.79	5.864	49.28	26.81	12.7
111	2008	104	1915	49.93	56.19	5.014	46.75	26.58	12.68
111	2008	104	1930	49.68	56.76	5.101	55.51	26.48	12.67
111	2008	104	1945	49.66	55.46	3.358	14.57	27.08	12.66
111	2008	104	2000	49.72	55.59	3.146	30.35	25.45	12.66
111	2008	104	2015	49.61	53.79	3.878	42.5	30.89	12.66
111	2008	104	2030	49.05	41.81	6.44	36.49	33.08	12.64
111	2008	104	2045	47.65	42.88	8.31	41.6	28.17	12.64
111	2008	104	2100	46.58	40.07	8.37	44.61	32.81	12.63
111	2008	104	2115	45.43	40.17	8.92	43.6	27.43	12.62
111	2008	104	2130	44.67	40.58	8.39	44.4	30.36	12.62
111	2008	104	2145	44.27	39.97	7.49	31.39	31	12.61
111	2008	104	2200	43.82	39.24	7.61	35.44	30.75	12.6
111	2008	104	2215	43.49	39.57	8.38	45.32	31.37	12.6
111	2008	104	2230	43.28	39.71	6.898	39.34	27.28	12.59
111	2008	104	2245	43.09	39.41	6.388	31.12	23.33	12.58
111	2008	104	2300	42.87	40.35	6.97	35.87	29.85	12.57
111	2008	104	2315	42.66	39.68	6.088	37.87	32.82	12.57
111	2008	104	2330	42.52	40.49	6.34	42.33	25.47	12.57
111	2008	104	2345	42.36	41.02	7.08	36.74	25.98	12.55
111	2008	104	2400	42.13	41.83	7.34	32.18	29.84	12.55
111	2008	105	15	41.78	43.37	6.605	32.59	28.46	12.55
111	2008	105	30	41.52	44.81	5.018	24.76	27.14	12.55
111	2008	105	45	41.34	44.11	6.178	27.41	28.53	12.54
111	2008	105	100	41.14	45.14	4.611	24.16	30.4	12.53
111	2008	105	115	41.02	44.71	5.304	16.48	27.74	12.53
111	2008	105	130	40.96	45.61	4.792	24.24	25.43	12.52
111	2008	105	145	40.93	45.04	6.154	24.82	35.36	12.51
111	2008	105	200	40.87	43.17	5.816	27.37	29.9	12.51
111	2008	105	215	40.69	44.11	4.786	28.2	36.7	12.5
111	2008	105	230	40.48	44.78	5.423	28.95	29.31	12.5
111	2008	105	245	40.26	46.01	4.873	33.44	28.19	12.49
111	2008	105	300	40.01	46.35	4.146	45.37	25.8	12.49
111	2008	105	315	39.77	47.45	4.246	33.11	33.77	12.48

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	105	330	39.46	48.43	2.637	356.1	29.5	12.47
111	2008	105	345	39.14	48.36	2.87	13.58	24.35	12.46
111	2008	105	400	39	49.17	3.189	9.72	24.16	12.46
111	2008	105	415	38.57	49.51	2.372	7.65	32.28	12.45
111	2008	105	430	38.2	48.97	2.6	6.372	25.35	12.45
111	2008	105	445	37.92	50.25	2.274	8.01	22.96	12.43
111	2008	105	500	37.62	50.02	2.421	9.49	21.42	12.43
111	2008	105	515	37.34	50.82	1.715	15.26	30.51	12.41
111	2008	105	530	36.87	53.17	0.739	0.706	20.96	12.41
111	2008	105	545	36.68	53.37	0.947	350.8	16.61	12.39
111	2008	105	600	36.87	53.13	0.631	346.2	16.45	12.39
111	2008	105	615	36.93	53.43	0.546	350.7	19.12	12.38
111	2008	105	630	36.66	57.45	0.097	327.9	8.99	12.38
111	2008	105	645	36.38	59.3	0.693	279.4	6.751	13.78
111	2008	105	700	36.62	56.68	0.743	275.1	10.04	13.26
111	2008	105	715	37.75	51.12	2.021	318.4	31.49	13.74
111	2008	105	730	38.78	49.71	3.646	354.1	17.33	13.78
111	2008	105	745	39.62	47.59	4.101	3.266	25.89	13.76
111	2008	105	800	40.9	45.21	4.131	15.84	28.48	13.74
111	2008	105	815	41.73	44.77	5.399	31.42	34.35	13.72
111	2008	105	830	42.69	42.86	5.878	21.19	33.98	13.71
111	2008	105	845	43.07	41.65	7.25	10.62	25.31	13.69
111	2008	105	900	43.64	40.74	7.32	25.36	29.64	13.68
111	2008	105	915	43.64	39.37	7.36	44.4	29.38	13.67
111	2008	105	930	44.2	37.6	6.62	25.05	26.98	13.65
111	2008	105	945	44.37	39.17	7.33	25.41	30.84	13.64
111	2008	105	1000	44.84	36.69	6.392	27.51	36.42	13.64
111	2008	105	1015	45.51	36.42	5.723	30.44	37.61	13.62
111	2008	105	1030	45.24	36.18	6.879	35.39	31.36	13.6
111	2008	105	1045	45.32	37.49	7.08	5.8	31.73	13.6
111	2008	105	1100	45.8	37.82	5.618	353.5	34.1	13.6
111	2008	105	1115	46.01	36.15	6.166	340.3	38.19	13.58
111	2008	105	1130	46.33	35.14	7.37	354.9	31.54	13.58
111	2008	105	1145	47.03	35.41	8.13	351.3	41.43	13.56
111	2008	105	1200	47.26	35.94	7.42	332.5	28.6	13.56
111	2008	105	1215	48.32	33.37	6.38	1.205	33.61	13.46
111	2008	105	1230	48.79	33.87	5.884	319.7	35.56	13.54
111	2008	105	1245	48.76	32.16	6.906	321.6	28.86	13.53
111	2008	105	1300	50.13	31.26	5.01	6.682	50.51	13.5
111	2008	105	1315	49.55	32.6	6.09	357.5	31.8	13.51
111	2008	105	1330	49.75	31.59	6.936	336.6	31.93	13.52
111	2008	105	1345	50.26	30.75	5.217	335.4	44.88	13.51
111	2008	105	1400	51.25	29.18	7.69	346	37.98	13.51
111	2008	105	1415	51.32	29.21	5.57	340.3	45.04	13.48
111	2008	105	1430	51.55	30.25	5.512	3.939	35.39	13.5
111	2008	105	1445	52.08	29.71	4.031	17.55	35.13	13.51
111	2008	105	1500	52.32	28.81	4.389	14.6	38.33	13.5
111	2008	105	1515	53.23	27.87	4.589	7.54	67.21	13.47
111	2008	105	1530	53.44	28.87	3.93	327.9	65.04	13.17
111	2008	105	1545	51.62	41.39	4.986	313.1	98	12.96
111	2008	105	1600	48.14	45.83	5.034	263.6	33.56	12.95
111	2008	105	1615	47.76	44.03	4.262	246.8	25.47	12.92
111	2008	105	1630	48.24	37.92	5.026	261	34.42	12.96
111	2008	105	1645	49.07	42.47	5.465	257.7	32.08	12.88
111	2008	105	1700	49.14	45.01	4.633	249	23.79	12.86
111	2008	105	1715	49.13	44.75	6.454	274.8	22.23	12.93
111	2008	105	1730	48.43	47.29	4.685	254.4	26.11	12.86
111	2008	105	1745	48.52	46.15	5.153	256.8	18.21	12.85
111	2008	105	1800	49.21	45.48	7.21	265.4	19.18	12.86
111	2008	105	1815	48.6	48.66	4.166	247.2	25.41	12.74

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	105	1830	47.46	52.91	6.047	263.8	15.85	12.68
111	2008	105	1845	46.85	60.52	6.364	261.9	19.74	12.7
111	2008	105	1900	45.99	63.14	5.812	265.7	18.04	12.67
111	2008	105	1915	45.5	62.37	5.699	264.2	20.7	12.66
111	2008	105	1930	45.18	62.91	5.099	270.2	17.44	12.66
111	2008	105	1945	45.16	61.4	5.485	281.1	13.79	12.65
111	2008	105	2000	45.06	63.24	5.695	280	11.88	12.64
111	2008	105	2015	44.98	64.61	3.91	278.9	14.57	12.63
111	2008	105	2030	45.03	63.65	4.313	287	14.14	12.63
111	2008	105	2045	45	61.44	4.321	297.1	14.71	12.62
111	2008	105	2100	44.74	61.64	3.835	315.5	18.45	12.61
111	2008	105	2115	44.3	63.69	3.853	288.1	14.76	12.61
111	2008	105	2130	43.98	63.72	3.233	288.6	13.36	12.6
111	2008	105	2145	43.54	64.83	2.107	316.9	21.25	12.59
111	2008	105	2200	43.09	67.65	2.068	305.8	19.68	12.59
111	2008	105	2215	42.66	68.52	1.913	303.3	14.74	12.58
111	2008	105	2230	42.04	71.2	1.348	313.7	8.21	12.57
111	2008	105	2245	40.86	73.5	0.147	286.3	3.364	12.56
111	2008	105	2300	39.74	75.8	0.066	272.2	0.933	12.55
111	2008	105	2315	39.25	77.5	0	0	0	12.55
111	2008	105	2330	38.72	78.6	0.159	272.7	4.402	12.54
111	2008	105	2345	38.3	80.6	0	0	0	12.52
111	2008	105	2400	38.5	79.7	0.357	351.3	3.691	12.52
111	2008	106	15	38.36	79.1	1.535	1.254	10.95	12.51
111	2008	106	30	38.66	77.8	1.139	358	9.84	12.47
111	2008	106	45	38.61	73.6	1.04	2.933	19.21	12.5
111	2008	106	100	39.03	65.26	1.465	17.55	21.76	12.48
111	2008	106	115	39.83	56.98	2.54	33.01	24.94	12.5
111	2008	106	130	40.95	53.07	2.743	41.24	24.93	12.48
111	2008	106	145	41.3	52.09	2.464	40.02	29.71	12.48
111	2008	106	200	41.58	51.46	3.493	48.35	19.37	12.47
111	2008	106	215	41.34	52.76	2.727	47.29	25.98	12.47
111	2008	106	230	41.15	54.5	2.919	42.38	25.62	12.47
111	2008	106	245	40.93	53.83	3.259	50.74	23.1	12.47
111	2008	106	300	41.02	54.97	3.565	48.18	28.24	12.46
111	2008	106	315	40.66	54.63	3.295	46	22.3	12.46
111	2008	106	330	40.66	53.53	3.712	46.08	26.59	12.45
111	2008	106	345	40.41	53.23	3.406	44.07	22.45	12.45
111	2008	106	400	40.18	53.49	3.436	49.16	21.36	12.44
111	2008	106	415	39.81	54.4	2.685	41.38	27.28	12.43
111	2008	106	430	39.31	55.34	2.247	40.08	22.31	12.43
111	2008	106	445	38.9	56.81	1.955	39.52	26.72	12.42
111	2008	106	500	38.2	58.96	1.09	25.68	17.81	12.41
111	2008	106	515	37.35	61.78	1.011	8.88	12.76	12.4
111	2008	106	530	37.04	61.37	0.783	21.68	18.38	12.39
111	2008	106	545	37.41	61.37	0.77	1.375	15.11	12.38
111	2008	106	600	37.74	59.66	0.968	352	17.85	12.38
111	2008	106	615	37.29	61.07	1.554	359.6	15.27	12.37
111	2008	106	630	37.07	59.8	2.076	356.7	16.69	12.38
111	2008	106	645	37.75	57.52	2.639	5.304	19.4	13.25
111	2008	106	700	38.62	55.68	3.297	5.375	15.91	13.34
111	2008	106	715	39.62	53.8	3.195	13.8	24.79	13.4
111	2008	106	730	40.87	51.51	4.184	9.29	24.11	13.76
111	2008	106	745	42.19	47.46	3.845	12.98	23.66	13.74
111	2008	106	800	43.53	42.33	4.397	10.27	28.34	13.72
111	2008	106	815	44.53	38.94	4.907	15.26	28.65	13.69
111	2008	106	830	45.75	35.49	4.925	24.74	34.66	13.68
111	2008	106	845	47.04	31.27	5.227	25.12	35.52	13.66
111	2008	106	900	48.04	30.63	4.901	30.05	28.09	13.64
111	2008	106	915	48.06	28.92	7.89	45.51	27.07	13.62

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	106	930	48.17	29.55	7.51	34.95	24.66	13.6
111	2008	106	945	48.65	27.81	7.6	54.87	28.93	13.6
111	2008	106	1000	48.39	28.75	8.4	55.18	30.21	13.59
111	2008	106	1015	48.76	27.41	7.83	56.99	27.06	13.58
111	2008	106	1030	49.1	26.51	7.51	47.29	30.29	13.57
111	2008	106	1045	50.01	26.67	7.7	40.54	29.88	13.55
111	2008	106	1100	49.89	26.24	8.32	47.53	26.41	13.55
111	2008	106	1115	50.54	25.17	7.92	46.74	31.72	13.54
111	2008	106	1130	50.51	23.56	8.6	46.1	29.74	13.53
111	2008	106	1145	51.09	22.49	6.841	59.93	28.17	13.52
111	2008	106	1200	52.17	23.02	6.618	40.63	35.65	13.51
111	2008	106	1215	52.3	24.69	6.404	45.96	43.89	13.5
111	2008	106	1230	53.07	23.02	6.47	54.55	35.96	13.49
111	2008	106	1245	54.08	20.98	5.914	33.9	35.85	13.48
111	2008	106	1300	53.84	23.32	5.695	25.45	32.78	13.47
111	2008	106	1315	54.68	20.91	5.473	36.45	40.86	13.46
111	2008	106	1330	55.17	20.71	5.373	45.37	37.82	13.44
111	2008	106	1345	55.4	20.24	6.235	13.7	44.92	13.44
111	2008	106	1400	55.41	19.61	6.053	38.19	32.47	13.43
111	2008	106	1415	55.73	20.44	4.871	34.39	44.37	13.42
111	2008	106	1430	56.35	20.37	4.686	17.19	61.53	13.19
111	2008	106	1445	56.56	18.87	6.628	341.3	38.97	13.04
111	2008	106	1500	55.04	38.2	5.602	255.2	88.9	13
111	2008	106	1515	51.62	39.71	6.928	203.7	31.01	12.99
111	2008	106	1530	50.94	46.54	7.46	205.6	31.02	12.98
111	2008	106	1545	49.54	46.4	8.15	222.8	24.95	12.97
111	2008	106	1600	50.12	47.78	6.984	228	28.24	12.95
111	2008	106	1615	49.6	50.25	6.986	220.7	33.86	12.94
111	2008	106	1630	49.09	45.47	7.73	224.7	29.04	12.92
111	2008	106	1645	49.64	44.53	5.86	224.3	33.42	12.89
111	2008	106	1700	48.78	48.22	7.82	218.9	23.08	12.87
111	2008	106	1715	48.29	44.64	6.771	213.7	28.34	12.85
111	2008	106	1730	48.19	46.69	7.19	242.2	20.72	12.84
111	2008	106	1745	47.91	48.13	6.438	239.5	21.21	12.82
111	2008	106	1800	48.4	45.48	5.334	248.4	22.36	12.79
111	2008	106	1815	48.47	39.89	4.823	254.8	30.46	12.76
111	2008	106	1830	48.61	43.67	4.718	241.8	23.56	12.74
111	2008	106	1845	48.3	52.74	4.726	233.3	27.4	12.71
111	2008	106	1900	46.66	58.23	4.359	232.3	26.19	12.7
111	2008	106	1915	45.77	58.43	3.821	245.6	26.93	12.68
111	2008	106	1930	45.2	60.08	3.581	266.7	21.21	12.68
111	2008	106	1945	45.02	61.46	3.297	268.5	18.76	12.66
111	2008	106	2000	44.54	62.97	2.52	214.1	31.49	12.66
111	2008	106	2015	44.18	64.88	1.846	209.9	28.24	12.64
111	2008	106	2030	43.77	67.27	1.014	267.3	12.75	12.63
111	2008	106	2045	43.3	67.44	0.845	243.7	16.28	12.62
111	2008	106	2100	42.82	67.61	0.855	272.4	47.67	12.61
111	2008	106	2115	42.94	67.28	1.791	321.2	32.68	12.59
111	2008	106	2130	42.6	67.58	2.153	325.9	20.31	12.59
111	2008	106	2145	42.9	67.45	1.921	329.1	13.97	12.58
111	2008	106	2200	42.26	69.39	0.257	291.7	10.34	12.57
111	2008	106	2215	41.81	69.96	0.811	317.7	12.91	12.57
111	2008	106	2230	41.94	70.5	1.832	320.3	12.69	12.56
111	2008	106	2245	42.2	70.5	2.429	316	14.46	12.55
111	2008	106	2300	42.53	70.3	3.483	322.6	15.5	12.55
111	2008	106	2315	42.53	70.3	3.299	333.9	17.25	12.55
111	2008	106	2330	42.61	70.5	3.517	334.7	17.47	12.54
111	2008	106	2345	42.3	72.4	2.796	279.5	80.9	12.53
111	2008	106	2400	42.32	70.3	2.673	303.8	55.92	12.53
111	2008	107	15	42.11	72.5	1.281	351.6	53.25	12.53

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	107	30	41.31	73.5	2.313	178.3	14.56	12.52
111	2008	107	45	40.39	77.5	0.552	305.7	8.33	12.52
111	2008	107	100	39.95	78.7	0.048	273.3	4.415	12.51
111	2008	107	115	40.21	81.9	2.289	328.1	16.2	12.5
111	2008	107	130	40.89	83.1	1.624	208.4	51.26	12.5
111	2008	107	145	40.43	83.9	0.898	299.5	59.93	12.49
111	2008	107	200	40.22	83.1	1.077	347.7	39.78	12.49
111	2008	107	215	39.79	85.4	2.252	334.3	16.65	12.48
111	2008	107	230	39.31	85.6	0.322	340.9	6.388	12.47
111	2008	107	245	38.78	85.9	na	na	na	12.47
111	2008	107	300	38.02	86.8	na	na	na	12.46
111	2008	107	315	37.61	87.5	0.969	60.38	22.85	12.45
111	2008	107	330	37.3	87.1	0.281	13.29	5.226	12.45
111	2008	107	345	36.67	87.6	na	na	na	12.44
111	2008	107	400	36.23	87.7	na	na	na	12.42
111	2008	107	415	35.9	87.8	na	na	na	12.42
111	2008	107	430	35.53	87.8	na	na	na	12.41
111	2008	107	445	35.06	88	na	na	na	12.4
111	2008	107	500	34.8	88.3	0.8	351.6	4.601	12.39
111	2008	107	515	34.67	88.4	0.224	342.1	8.46	12.39
111	2008	107	530	34.57	88.4	0.042	355.6	0.991	12.38
111	2008	107	545	34.48	88.4	0.009	301.4	0	12.37
111	2008	107	600	34.68	87.1	0.152	341.3	8	12.37
111	2008	107	615	35.45	82.9	0.302	355.7	10.41	12.32
111	2008	107	630	36.13	78.7	0.349	11.15	16.14	12.35
111	2008	107	645	37.48	69.76	1.963	1.191	12.3	12.36
111	2008	107	700	40.48	58.26	2.485	21.55	21.38	12.42
111	2008	107	715	43.08	54.07	2.477	31.28	23.47	12.58
111	2008	107	730	45.23	50.32	2.282	37.36	35.98	13.76
111	2008	107	745	46.88	45.05	3.382	36.21	28.55	13.73
111	2008	107	800	48.85	42.96	2.667	37.47	42.12	13.69
111	2008	107	815	50.11	38.3	3.938	32.1	38.9	13.65
111	2008	107	830	51.33	34.08	3.513	42.81	28.45	13.62
111	2008	107	845	52.57	32.97	3.134	54.71	45.29	13.6
111	2008	107	900	53.08	33.07	4.115	30.26	30.42	13.58
111	2008	107	915	53.45	31.99	3.626	27.97	37.27	13.56
111	2008	107	930	54.86	30.48	3.424	82.4	40.23	13.54
111	2008	107	945	55.7	28.74	3.126	88.5	37.75	13.51
111	2008	107	1000	56.68	28.94	2.39	93.3	55.61	13.49
111	2008	107	1015	56.91	26.63	4.047	80	34.79	13.47
111	2008	107	1030	57.49	23.35	2.443	143.4	91.9	13.46
111	2008	107	1045	58.07	22.15	3.411	20.92	65.8	13.45
111	2008	107	1100	58.67	21.24	3.668	29.56	49.94	13.43
111	2008	107	1115	59.05	21.24	3.908	37.91	64.72	13.42
111	2008	107	1130	59.2	17.36	4.76	353.9	40.72	13.41
111	2008	107	1145	58.57	50.17	5.046	145.5	75.1	13.4
111	2008	107	1200	55.15	53.11	6.029	180	22.65	13.41
111	2008	107	1215	54.22	49.47	5.741	187.1	23.51	13.41
111	2008	107	1230	55.05	41.01	5.87	183.5	21.83	13.41
111	2008	107	1245	54.78	42.35	6.374	193.9	21.95	13.41
111	2008	107	1300	54.07	42.12	6.543	199.2	23.16	13.41
111	2008	107	1315	54.11	45.43	6.924	184.3	26.14	13.42
111	2008	107	1330	53.88	47.14	6.567	191.9	22.4	13.41
111	2008	107	1345	54.5	39.44	6.418	211.5	29.37	13.41
111	2008	107	1400	54.34	38.34	6.372	203.3	29.81	13.41
111	2008	107	1415	54.61	37.4	6.354	205.5	22.28	13.41
111	2008	107	1430	55.09	32.45	6.851	180.3	29.63	13.21
111	2008	107	1445	54.94	35.83	6.352	186.1	27.14	13.05
111	2008	107	1500	55.39	33.39	6.402	172.7	22.1	13.01
111	2008	107	1515	55.23	46.34	6.356	182.1	25.77	12.99

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	107	1530	54.82	55.03	6.342	175.4	29.35	12.97
111	2008	107	1545	54.16	49.35	6.096	172.1	25.54	12.96
111	2008	107	1600	54.38	43.02	5.427	180.1	30.16	12.94
111	2008	107	1615	54.5	40.28	5.236	201.4	31.42	12.92
111	2008	107	1630	54.45	47.21	5.677	205.3	23.53	12.91
111	2008	107	1645	54.68	51.39	4.968	219.3	28.18	12.89
111	2008	107	1700	54.39	46.5	5.562	234.8	27.87	12.87
111	2008	107	1715	54.18	37.94	5.769	218.9	27.48	12.85
111	2008	107	1730	53.92	40.78	4.988	234.2	25.92	12.84
111	2008	107	1745	53.73	36.7	4.653	234.4	26.91	12.82
111	2008	107	1800	52.96	41.72	5.133	220.3	28.19	12.78
111	2008	107	1815	52.22	47.31	5.235	234.3	26.22	12.76
111	2008	107	1830	51.31	52.86	5.318	215.8	27.31	12.74
111	2008	107	1845	50.33	62.37	5.147	211.3	28.03	12.72
111	2008	107	1900	49.33	61.04	4.623	229.1	28.49	12.71
111	2008	107	1915	48.7	61.24	4.079	232.8	21.25	12.7
111	2008	107	1930	48.08	61.78	3.181	236.2	22.86	12.68
111	2008	107	1945	47.82	61.22	2.038	252.7	19.73	12.67
111	2008	107	2000	47.55	59.69	2.224	206	28.05	12.66
111	2008	107	2015	47.41	58.55	2.342	190.1	25.65	12.64
111	2008	107	2030	47.15	60.13	1.907	210.8	23.58	12.64
111	2008	107	2045	46.7	62.34	2.207	206	22.43	12.62
111	2008	107	2100	46.56	66.12	2.479	216	20.29	12.62
111	2008	107	2115	46.07	70.8	1.304	242.5	26.87	12.61
111	2008	107	2130	45.82	73.5	1.067	252.6	27.48	12.61
111	2008	107	2145	45.33	74.6	0.521	267.1	7.31	12.59
111	2008	107	2200	44.89	75.4	0.182	340.5	12.41	12.59
111	2008	107	2215	44.13	78	na	na	na	12.58
111	2008	107	2230	43.15	79	na	na	na	12.57
111	2008	107	2245	42.4	80.5	na	na	na	12.55
111	2008	107	2300	42.02	81.7	na	na	na	12.55
111	2008	107	2315	41.44	82.9	na	na	na	12.55
111	2008	107	2330	41.09	83.6	na	na	na	12.54
111	2008	107	2345	40.65	83.9	na	na	na	12.53
111	2008	107	2400	40.43	84.7	na	na	na	12.53
111	2008	108	15	40.27	84.7	na	na	na	12.52
111	2008	108	30	40.13	84.5	0.326	359.4	3.2	12.41
111	2008	108	45	39.88	85	na	na	na	12.5
111	2008	108	100	39.35	85.8	na	na	na	12.5
111	2008	108	115	39.3	85.6	na	na	na	12.5
111	2008	108	130	39.15	85.3	na	na	na	12.5
111	2008	108	145	38.78	85.6	0.649	353	5.167	12.45
111	2008	108	200	38.54	85.4	1.039	8.93	8.92	12.47
111	2008	108	215	38.21	85.5	1.109	6.131	10.07	12.47
111	2008	108	230	38.36	85.2	1.566	7.04	14.95	12.46
111	2008	108	245	38.39	84.6	1.528	7.07	12.08	12.46
111	2008	108	300	38.32	84.6	1.271	356.9	10.07	12.46
111	2008	108	315	38.14	84.5	0.326	11.18	5.043	12.46
111	2008	108	330	37.73	85.2	na	na	na	12.45
111	2008	108	345	37.55	85.4	0.409	101.4	10.43	12.45
111	2008	108	400	37.53	85	na	na	na	12.43
111	2008	108	415	36.96	86.1	na	na	na	12.43
111	2008	108	430	36.4	87	na	na	na	12.42
111	2008	108	445	36.37	87	na	na	na	12.42
111	2008	108	500	36.16	87.4	na	na	na	12.41
111	2008	108	515	36.09	87.8	0.651	28.66	46.44	12.4
111	2008	108	530	36.04	88.3	0.1	92.6	7.33	12.39
111	2008	108	545	36.36	87.2	0.895	3.07	26.73	12.38
111	2008	108	600	36.39	87.1	0.308	15.43	23.1	12.38
111	2008	108	615	36.42	86.5	0.038	342.7	4.934	12.38

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	108	630	36.93	84.4	0.959	7.53	14.21	12.37
111	2008	108	645	37.69	82.7	0.788	348.2	12.15	12.38
111	2008	108	700	38.85	78.5	1.027	358.5	15.41	12.44
111	2008	108	715	41.36	70	2.467	17.53	19.39	12.66
111	2008	108	730	43.26	64.88	3.033	11.92	26.28	13.76
111	2008	108	745	45.2	60.72	3.37	10.07	21.6	13.73
111	2008	108	800	47.37	54.52	2.712	25.82	28.18	13.7
111	2008	108	815	49.21	50.62	2.801	8.2	29.16	13.66
111	2008	108	830	51.88	43.59	2.495	54.91	42.67	13.62
111	2008	108	845	53.79	38.89	2.685	64.86	37.8	13.6
111	2008	108	900	54.65	35.21	2.689	66.27	41.18	13.57
111	2008	108	915	56.19	34.74	2.288	56.68	34.64	13.54
111	2008	108	930	56.95	30.95	3.237	88	29.4	13.51
111	2008	108	945	57.95	37.44	3.035	126.9	56.2	13.49
111	2008	108	1000	56.27	51.59	5.209	176	25.36	13.48
111	2008	108	1015	55.67	45.7	4.669	178.9	28.76	13.47
111	2008	108	1030	56.13	45.9	4.627	191.6	27.88	13.46
111	2008	108	1045	56.9	40.62	4.74	180.9	27.9	13.45
111	2008	108	1100	56.44	43.19	5.084	211.2	24.35	13.44
111	2008	108	1115	57.42	34.93	4.037	199.5	33.36	13.43
111	2008	108	1130	58.33	39.41	5.649	190.5	25.04	13.42
111	2008	108	1145	58.67	37.23	5.391	181.2	22.87	13.41
111	2008	108	1200	58.72	36.49	5.711	202.4	20.71	13.41
111	2008	108	1215	58.77	37.46	4.877	186.2	23.66	13.4
111	2008	108	1230	60.13	31.74	4.706	170.3	24.34	13.39
111	2008	108	1245	60.07	37.69	4.665	189.4	19.92	13.38
111	2008	108	1300	59.15	46.72	6.023	184.7	20.69	13.37
111	2008	108	1315	57.31	49.7	6.066	191.5	26.58	13.37
111	2008	108	1330	56.92	50.74	6.321	192.6	28.01	13.37
111	2008	108	1345	56.62	47.56	5.941	170.2	23.05	13.37
111	2008	108	1400	56.11	46.92	6.487	175.3	26.29	13.39
111	2008	108	1415	56.23	40.97	5.679	159.7	20.44	13.39
111	2008	108	1430	57.15	39.87	4.734	197	33.89	13.19
111	2008	108	1445	57.74	40.3	5.008	195.6	28.02	13.03
111	2008	108	1500	58.83	39.37	3.775	194.3	36.36	12.98
111	2008	108	1515	60.11	31.67	4.093	212.8	33.21	12.96
111	2008	108	1530	61.19	31.44	3.668	215	42.55	12.94
111	2008	108	1545	61.85	35.79	4.434	201.8	29.65	12.93
111	2008	108	1600	61.65	36.32	5.185	206	26.69	12.91
111	2008	108	1615	61.26	36.42	4.512	224.2	31.2	12.9
111	2008	108	1630	61.37	39.36	4.931	250.1	24.96	12.88
111	2008	108	1645	61.75	27.36	4.939	257	22.51	12.87
111	2008	108	1700	62.85	30.97	4.397	241.9	25.05	12.85
111	2008	108	1715	62.99	33.08	4.591	247.3	26.07	12.84
111	2008	108	1730	61.95	44.35	4.422	223.2	26.36	12.83
111	2008	108	1745	59.8	44.48	4.557	213.8	25.43	12.82
111	2008	108	1800	59.99	37.79	4.446	253.7	23.67	12.79
111	2008	108	1815	60.85	38.46	3.491	235.9	34.57	12.77
111	2008	108	1830	60.44	50.57	3.61	220.9	24.79	12.76
111	2008	108	1845	58.85	54.85	4.613	175.4	22.47	12.75
111	2008	108	1900	54.62	57.9	6.372	168.8	18.79	12.74
111	2008	108	1915	52.51	48.57	5.145	181.6	22.93	12.72
111	2008	108	1930	52.62	40.72	4.285	172.7	21.36	12.71
111	2008	108	1945	52.75	42.2	3.962	182.1	22.1	12.7
111	2008	108	2000	51.99	44.74	3.596	185	20.44	12.68
111	2008	108	2015	51.57	48.19	3.046	191.8	19.8	12.67
111	2008	108	2030	51.38	49.33	2.695	186.7	17.9	12.66
111	2008	108	2045	51.11	49.2	2.199	188.1	20.65	12.64
111	2008	108	2100	50.86	49.04	1.875	191.3	18.81	12.64
111	2008	108	2115	50.43	51.92	0.962	206.5	18.4	12.63

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	108	2130	49.85	54.67	0.889	301.2	8.3	12.62
111	2008	108	2145	49.33	55.27	1.298	313.7	9.11	12.61
111	2008	108	2200	48.27	57.11	0.038	298.7	1.212	12.6
111	2008	108	2215	47.65	59.96	na	na	na	12.6
111	2008	108	2230	47.31	60.09	0.555	297.6	4.366	12.59
111	2008	108	2245	46.98	60.9	0.471	26.64	9.7	12.58
111	2008	108	2300	46.83	62.91	na	na	na	12.57
111	2008	108	2315	46.45	62.38	0.177	322	1.905	12.57
111	2008	108	2330	45.96	64.63	0.018	343.7	0.892	12.56
111	2008	108	2345	45.54	66.67	na	na	na	12.55
111	2008	108	2400	45.11	66.94	0.213	325.7	1.868	12.55
111	2008	109	15	44.9	66.68	1.119	353	6.446	12.54
111	2008	109	30	44.93	63.46	1.082	351.1	21.81	12.53
111	2008	109	45	45.28	63.46	0.496	347.5	6.059	12.53
111	2008	109	100	44.87	64.07	0.08	352.7	3.213	12.53
111	2008	109	115	44.65	64.67	0.94	323.4	8.32	12.52
111	2008	109	130	44.83	61.19	2.181	321.8	14.77	12.51
111	2008	109	145	45.27	58.67	2.171	352.9	15.12	12.51
111	2008	109	200	45.1	58.98	1.289	358.3	21.04	12.51
111	2008	109	215	44.92	59.24	1.458	350.7	13.81	12.5
111	2008	109	230	44.7	59.71	1.868	344.5	12.22	12.5
111	2008	109	245	44.7	57.17	2.059	351.5	18.27	12.49
111	2008	109	300	44.66	59.71	2.008	343.3	13.89	12.49
111	2008	109	315	44.32	58.51	1.847	9.06	18.18	12.47
111	2008	109	330	44.1	61.19	0.358	330.2	8.55	12.47
111	2008	109	345	43.51	61.96	0.227	327.4	9.03	12.47
111	2008	109	400	43.29	66.41	0.154	323.1	7.13	12.46
111	2008	109	415	42.68	65	na	na	na	12.45
111	2008	109	430	42.43	69.39	0.11	302.5	0.356	12.45
111	2008	109	445	42.16	70	0.678	302.3	4.628	12.45
111	2008	109	500	41.48	70.1	na	na	na	12.43
111	2008	109	515	41.25	70.1	na	na	na	12.43
111	2008	109	530	41.45	69.56	na	na	na	12.42
111	2008	109	545	41.32	72.4	na	na	na	12.42
111	2008	109	600	42.32	67.88	0.432	331.8	5.983	12.41
111	2008	109	615	43.31	67.25	0.094	303.1	5.958	12.41
111	2008	109	630	42.81	68.02	0.111	348.7	7.44	12.41
111	2008	109	645	43.48	67.92	na	na	na	12.41
111	2008	109	700	44.11	64	0.299	14.35	11.02	12.47
111	2008	109	715	46.42	56.73	1.031	45.72	21.71	12.86
111	2008	109	730	48.92	48.21	2.522	28.47	24.93	13.62
111	2008	109	745	51	43.76	3.287	7.79	25.41	13.6
111	2008	109	800	52.88	41.3	3.634	353.5	13.53	13.58
111	2008	109	815	55.22	33.17	3.444	356.4	21.95	13.56
111	2008	109	830	57.4	31.39	3.569	9.86	21.45	13.53
111	2008	109	845	59.42	28.11	3.195	9.13	33.65	13.5
111	2008	109	900	60.43	26	3.372	346.8	22.81	13.47
111	2008	109	915	61.45	25.09	4.742	333.5	26.73	13.45
111	2008	109	930	62.76	25.12	3.988	3.826	28.4	13.43
111	2008	109	945	64.31	24.72	3.039	4.118	35.59	13.41
111	2008	109	1000	65.62	22.51	3.052	354	39.16	13.39
111	2008	109	1015	66.87	23.04	2.451	16.46	50.64	13.37
111	2008	109	1030	68.02	22.3	2.583	350.5	57.02	13.34
111	2008	109	1045	68.23	29.36	2.641	298	87.8	13.33
111	2008	109	1100	68.11	27.35	3.66	188.9	37.21	13.32
111	2008	109	1115	68.44	26.95	4.927	209.8	25.97	13.31
111	2008	109	1130	68.12	30.19	5.137	205.1	24.19	13.3
111	2008	109	1145	68.52	28.99	4.883	222.8	32.51	13.3
111	2008	109	1200	68.32	27.58	5.358	241.4	29.1	13.29
111	2008	109	1215	68.17	28.59	6.297	258.7	17.26	13.29

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	109	1230	66.73	26.18	6.988	266.2	17.08	13.29
111	2008	109	1245	66.87	27.15	6.138	248.8	22.12	13.28
111	2008	109	1300	66.61	28.55	6.749	238.9	22.77	13.28
111	2008	109	1315	65.85	26.11	7.66	254.7	21.32	13.28
111	2008	109	1330	66.04	26.41	7.54	252.4	23.16	13.29
111	2008	109	1345	66.06	28.89	7.55	254.4	23.02	13.29
111	2008	109	1400	64.79	29.62	8.41	253.5	20.98	13.29
111	2008	109	1415	64.5	28.02	7.93	251.9	25.73	13.29
111	2008	109	1430	64.88	26.75	7.08	251.5	27.7	13.18
111	2008	109	1445	65.16	29.49	6.765	239.4	28.38	13.06
111	2008	109	1500	65.17	29.12	6.714	250.9	23.23	13.02
111	2008	109	1515	65.03	27.88	6.738	257.4	29.07	13
111	2008	109	1530	64.62	30.42	7.95	259.1	20.52	12.98
111	2008	109	1545	64.58	29.16	6.454	251.6	26.63	12.97
111	2008	109	1600	64.32	32.4	7.2	254.2	23.57	12.95
111	2008	109	1615	63.91	31	7.22	262.6	19.89	12.93
111	2008	109	1630	63.69	31.83	6.313	248.4	25.84	12.92
111	2008	109	1645	63.25	32.84	6.595	260.7	18.5	12.89
111	2008	109	1700	63.86	34.31	5.068	241.5	24.86	12.87
111	2008	109	1715	63.52	37.16	5.622	250.7	23.47	12.86
111	2008	109	1730	63.12	36.96	4.887	230.1	29.24	12.84
111	2008	109	1745	61.77	36.42	5.916	239.2	25.82	12.82
111	2008	109	1800	60.87	40.63	5.284	242.1	22.72	12.79
111	2008	109	1815	60.58	36.52	5.977	262.5	26.31	12.76
111	2008	109	1830	59.55	39.26	6.454	248.9	20.9	12.74
111	2008	109	1845	59.14	39.77	5.244	254.4	22.64	12.73
111	2008	109	1900	58.38	42.28	4.837	250.6	24.81	12.72
111	2008	109	1915	57.63	45.46	4.424	255.7	22.08	12.71
111	2008	109	1930	57.01	49.35	4.577	261.3	17.66	12.69
111	2008	109	1945	56.5	51.42	4.768	269.6	17.99	12.68
111	2008	109	2000	56.25	53.19	5.107	273.3	13.57	12.67
111	2008	109	2015	55.82	54.34	3.829	270.4	19.99	12.66
111	2008	109	2030	55.84	54.91	4.214	276.4	18.27	12.66
111	2008	109	2045	55.62	55.65	1.598	225	33.06	12.65
111	2008	109	2100	55.15	57.6	0.094	258.6	3.429	12.64
111	2008	109	2115	55.03	58.53	0.103	171.6	9.63	12.63
111	2008	109	2130	54.63	60.37	0.178	231.5	18.7	12.63
111	2008	109	2145	54.26	62.52	0.539	268.8	21.25	12.61
111	2008	109	2200	54	64.43	0.586	160	15.41	12.61
111	2008	109	2215	53.96	68.98	1.157	129.9	55.52	12.61
111	2008	109	2230	53.72	71.7	1.507	121	37.07	12.6
111	2008	109	2245	53.31	69.68	1.643	104.8	28.76	12.6
111	2008	109	2300	52.99	69.58	1.331	123.7	28.86	12.59
111	2008	109	2315	52.24	71.5	2.12	142.6	40.16	12.59
111	2008	109	2330	51.63	72.7	1.414	120	27.45	12.58
111	2008	109	2345	51.3	74.1	1.406	127.7	29.36	12.58
111	2008	109	2400	51.15	74.6	0.934	118.3	30.96	12.57
111	2008	110	15	51.01	75.8	1.722	151	39.93	12.57
111	2008	110	30	50.8	77	2.307	144.1	28.91	12.56
111	2008	110	45	50.6	78.5	2.691	143.9	23.84	12.56
111	2008	110	100	50.49	79.9	2.214	146.6	18.9	12.56
111	2008	110	115	50.84	79.3	2.917	155.4	19.29	12.55
111	2008	110	130	51.56	78.6	3.362	180.1	16.26	12.55
111	2008	110	145	51.66	79.3	4.389	167.6	19.46	12.54
111	2008	110	200	51.45	79.4	3.189	174.7	30.98	12.55
111	2008	110	215	51.27	79.8	3.231	172.8	26.73	12.54
111	2008	110	230	51.17	80.5	2.985	147.4	26.68	12.54
111	2008	110	245	50.76	81.8	1.717	130	21.45	12.54
111	2008	110	300	50.25	81.8	1.391	76.5	25.12	12.52
111	2008	110	315	49.28	83.3	1.638	76.8	16.64	12.52

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	110	330	49.03	83.7	1.266	105.6	26.08	12.52
111	2008	110	345	49.22	83.3	1.927	142.7	31.34	12.51
111	2008	110	400	48.91	83.9	0.987	133.3	26.37	12.51
111	2008	110	415	48.64	84.2	0.868	87	22.15	12.5
111	2008	110	430	48.18	84.5	0.188	61.39	10.53	12.5
111	2008	110	445	47.39	86	0.051	81.2	1.683	12.49
111	2008	110	500	46.89	86.7	0.348	40.04	16.74	12.49
111	2008	110	515	46.65	86.8	0.094	23.2	3.92	12.48
111	2008	110	530	46.32	87	na	na	na	12.47
111	2008	110	545	45.97	87.5	na	na	na	12.46
111	2008	110	600	45.89	87.4	na	na	na	12.46
111	2008	110	615	45.67	87.5	0.009	94.1	0	12.46
111	2008	110	630	45.95	87.1	1.534	70.7	19.33	12.45
111	2008	110	645	46.73	85.9	0.545	60.96	14.92	12.47
111	2008	110	700	47.32	84.8	1.174	69.16	23.95	12.56
111	2008	110	715	48.53	81.6	1.394	73.3	23.21	13.06
111	2008	110	730	50	78.7	2.451	85.1	17.51	13.62
111	2008	110	745	51.76	75	2.11	86.4	35.31	13.6
111	2008	110	800	53.62	72.5	2.249	99.1	43.99	13.57
111	2008	110	815	55.25	71.1	2.625	153.1	36.84	13.54
111	2008	110	830	56.12	69.91	2.824	150.9	29.33	13.53
111	2008	110	845	57.47	69.47	3.231	155	30.31	13.51
111	2008	110	900	57.99	69.42	3.426	170.5	27.54	13.48
111	2008	110	915	57.71	70.1	4.536	173	23.21	13.47
111	2008	110	930	58.29	68.92	4.679	166.8	17.19	13.45
111	2008	110	945	59.33	63.73	4.273	162.9	17.75	13.45
111	2008	110	1000	60.07	68.31	4.972	167.9	17.36	13.42
111	2008	110	1015	58.86	71.8	5.35	177.9	23.79	13.41
111	2008	110	1030	59.38	68.43	5.185	171.8	32.67	13.41
111	2008	110	1045	59.1	71.2	6.456	164.9	20.09	13.4
111	2008	110	1100	59.51	70.6	5.862	173.9	19.87	13.4
111	2008	110	1115	59.67	69.8	6.092	172.7	22.49	13.39
111	2008	110	1130	59.55	70.1	8.18	156.2	13.19	13.39
111	2008	110	1145	60.42	67.99	7.15	163.5	17.98	13.39
111	2008	110	1200	59.73	67.99	8.53	159	17.83	13.38
111	2008	110	1215	59.11	72.3	8.17	161.5	19.34	13.38
111	2008	110	1230	59.06	71.1	8.08	150.6	21.75	13.38
111	2008	110	1245	60.04	71.1	7.62	163.3	21.48	13.37
111	2008	110	1300	60.04	70.3	8.22	156.1	21.52	13.36
111	2008	110	1315	59.79	73.4	8.28	157.4	21.82	13.36
111	2008	110	1330	59.16	72.1	7.99	157.2	21.43	13.36
111	2008	110	1345	58.77	75.3	8.49	156.8	19.51	13.37
111	2008	110	1400	59.14	71.2	7.51	155.6	21.98	13.37
111	2008	110	1415	59.14	73.6	8.6	161.3	21.34	13.37
111	2008	110	1430	59.11	71.3	8.38	159.7	20.64	13.37
111	2008	110	1445	60.33	71.1	7.4	155.2	23.48	13.35
111	2008	110	1500	60.23	72.1	8.4	153.5	19.78	13.34
111	2008	110	1515	60.19	70.1	8.46	158.4	16.12	13.36
111	2008	110	1530	60.2	58.1	8.71	161.9	19.51	13.36
111	2008	110	1545	60.23	50.84	8.11	152	19.29	13.33
111	2008	110	1600	60.3	48.86	8.15	157.5	18.85	13.08
111	2008	110	1615	61.03	46.86	7.33	152.7	24.86	13.09
111	2008	110	1630	60.65	46.89	8.91	155.8	16.53	13.04
111	2008	110	1645	60.2	47.26	8.34	155.3	18.7	13.01
111	2008	110	1700	59.96	52.24	8.04	154	20.78	12.95
111	2008	110	1715	59.05	57.96	7.61	154.3	20.31	12.93
111	2008	110	1730	58.87	56.96	6.428	153.2	21.89	12.96
111	2008	110	1745	58.51	59.77	7.47	162.2	19.81	12.99
111	2008	110	1800	58.07	62.32	6.984	158.1	18.49	12.93
111	2008	110	1815	58.02	61.12	6.473	155.5	25.2	12.85

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	110	1830	57.49	63.5	6.205	151.2	21.84	12.78
111	2008	110	1845	56.92	63.63	6.694	154.9	20.1	12.75
111	2008	110	1900	56.74	65.51	6.809	157.4	18.53	12.73
111	2008	110	1915	56.41	68.39	6.07	158.7	20.45	12.72
111	2008	110	1930	56.21	69.46	6.305	155.1	20.23	12.71
111	2008	110	1945	56.13	68.09	6.084	150.1	20.33	12.69
111	2008	110	2000	55.97	70	5.459	153.8	18.2	12.68
111	2008	110	2015	55.45	67.73	5.465	150.4	17.46	12.68
111	2008	110	2030	55.36	63.88	4.619	138.8	24.42	12.67
111	2008	110	2045	55.26	61.44	4.778	139.9	26.43	12.67
111	2008	110	2100	55.55	58.4	5.117	147.3	20.29	12.66
111	2008	110	2115	55.91	55.76	4.442	152.8	19	12.65
111	2008	110	2130	56.26	53.41	5.151	152.7	19.18	12.65
111	2008	110	2145	56.12	54.65	5.153	144	20.04	12.64
111	2008	110	2200	55.77	59.8	4.915	142.7	26.17	12.64
111	2008	110	2215	55.3	68.74	5.03	139.3	28.33	12.64
111	2008	110	2230	54.74	71.7	4.931	140.3	22.51	12.64
111	2008	110	2245	54.56	73.4	6.475	140.7	22.22	12.63
111	2008	110	2300	54.23	75.8	5.252	137	28.36	12.63
111	2008	110	2315	53.67	77.5	5.195	133.7	25.4	12.62
111	2008	110	2330	53.46	76.1	5.395	133	27.55	12.62
111	2008	110	2345	53.47	76.1	5.236	135.2	27.53	12.61
111	2008	110	2400	53.31	78.7	5.044	126	25.32	12.61
111	2008	111	15	53.02	80.4	4.581	129.5	25.11	12.61
111	2008	111	30	53.03	76.9	4.142	127.7	34.92	12.6
111	2008	111	45	53.03	79.4	3.9	135.3	23.42	12.6
111	2008	111	100	52.61	82.8	4.633	136	23.61	12.59
111	2008	111	115	52.22	84.9	4.514	129.9	28.43	12.58
111	2008	111	130	51.58	87.1	4.323	135.4	25.97	12.58
111	2008	111	145	51.15	88.3	3.932	129.4	28.58	12.57
111	2008	111	200	50.81	89.1	4.645	133.1	23.96	12.58
111	2008	111	215	50.4	89.2	5.979	141.9	19.33	12.57
111	2008	111	230	49.97	89.7	6.223	141.6	26.28	12.56
111	2008	111	245	49.21	91.1	6.485	140.4	24.52	12.56
111	2008	111	300	48.06	92.5	6.595	134.3	23.67	12.55
111	2008	111	315	47.6	93.2	5.298	128.4	26.98	12.55
111	2008	111	330	47.37	93.6	5.653	126.9	22.95	12.54
111	2008	111	345	47.53	93.8	5.161	129.9	27.43	12.54
111	2008	111	400	47.77	94.1	5.344	123.8	27.58	12.54
111	2008	111	415	48.13	94.3	4.434	122	26.37	12.52
111	2008	111	430	48.32	94.6	4.43	122.3	27.81	12.52
111	2008	111	445	48.71	94.7	5.28	123.8	28.6	12.52
111	2008	111	500	48.93	94.8	4.504	122.3	26.96	12.51
111	2008	111	515	49.16	95	4.14	123.3	32.87	12.51
111	2008	111	530	49.37	95	4.476	116.5	31.46	12.51
111	2008	111	545	49.36	95.1	3.841	105.2	31.06	12.5
111	2008	111	600	49.42	95.2	4.154	97.4	34.73	12.5
111	2008	111	615	49.35	95.2	3.872	88.9	38	12.5
111	2008	111	630	49.46	95.3	3.837	108.5	30.6	12.5
111	2008	111	645	49.54	95.4	4.113	108.6	33.19	12.48
111	2008	111	700	49.5	95.3	4.081	107.5	35.93	12.48
111	2008	111	715	49.28	95.3	4.222	105.3	36.76	12.48
111	2008	111	730	49.4	95.3	4.536	99.6	32.33	12.48
111	2008	111	745	49.57	95.1	4.629	94.9	37.9	12.49
111	2008	111	800	49.76	94.9	5.121	108.4	35.66	12.48
111	2008	111	815	50.26	94.3	4.917	90.5	28.7	12.56
111	2008	111	830	51.04	92.9	4.669	105.5	36.53	12.72
111	2008	111	845	51.74	89.7	4.794	91.4	35.45	12.85
111	2008	111	900	53.16	84.2	4.645	110.2	37.4	13.22
111	2008	111	915	54.23	81.9	5.352	103.8	36.68	13.15

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	111	930	55.06	79.1	5.373	124.8	35.59	13.11
111	2008	111	945	55.64	78.9	5.306	122.3	34.26	13.31
111	2008	111	1000	55.78	78.9	6.898	119.3	29.06	13.48
111	2008	111	1015	55.67	79.3	6.924	125.6	30.36	13.07
111	2008	111	1030	55.09	80.4	6.539	127.3	26.94	13.03
111	2008	111	1045	55.2	80.4	7.46	122.3	29.95	13.49
111	2008	111	1100	55.18	77.3	7.81	117.4	31.01	13.48
111	2008	111	1115	55.67	75.4	7.6	119.1	34.62	13.47
111	2008	111	1130	55.71	74.7	8.34	124.5	28.38	13.46
111	2008	111	1145	55.59	72.1	7.58	131.4	27.5	13.46
111	2008	111	1200	56.63	70.9	8.6	134	25.85	13.45
111	2008	111	1215	57.23	68.99	8.18	130.7	26.45	13.44
111	2008	111	1230	57.32	70.1	8.6	123.8	25.26	13.43
111	2008	111	1245	57.77	66.31	8.4	136.7	25.85	13.43
111	2008	111	1300	57.99	68.08	9.08	125.1	28.42	13.42
111	2008	111	1315	57.74	66.94	9.8	127.2	31.26	13.42
111	2008	111	1330	58.16	65.67	9.35	129.6	27.57	13.41
111	2008	111	1345	59.41	64.77	9.31	132.6	28.52	13.4
111	2008	111	1400	58.48	66.13	9.47	131	27.24	13.4
111	2008	111	1415	58.88	65.52	9.05	130.7	29.85	13.4
111	2008	111	1430	59.58	64.92	9.44	131.6	26.05	13.39
111	2008	111	1445	59.64	67.06	9.74	133.7	25.46	13.39
111	2008	111	1500	58.63	67.13	8.85	128.5	30.81	13.38
111	2008	111	1515	57.7	70	8.86	129.5	30.02	13.4
111	2008	111	1530	57.37	69.81	7.81	128.4	28.41	13.41
111	2008	111	1545	57.4	69.65	7.85	119.6	30.52	13.42
111	2008	111	1600	57.16	69.89	7.96	122.6	25.95	13.43
111	2008	111	1615	57.07	70.5	7.75	128.9	25.1	13.43
111	2008	111	1630	56.62	69.49	7.23	126.3	30.9	13.43
111	2008	111	1645	56.2	69.72	8.04	122.8	30.65	13.11
111	2008	111	1700	55.6	70.9	7.75	121.2	27.98	12.99
111	2008	111	1715	55.02	71	6.843	118.2	34.11	12.92
111	2008	111	1730	54.94	72.1	7.06	116.3	30.87	12.91
111	2008	111	1745	54.95	71.7	6.74	124.7	36.62	12.84
111	2008	111	1800	54.69	71.9	7.09	124	38.77	12.82
111	2008	111	1815	54.51	70.9	7.54	125.2	28.94	12.81
111	2008	111	1830	54.04	70.1	7.53	124	32.38	12.75
111	2008	111	1845	53.62	69.37	7.24	122	28.89	12.73
111	2008	111	1900	53.46	68.57	6.329	123.9	27.69	12.71
111	2008	111	1915	53.29	66.56	5.661	120.8	32.93	12.71
111	2008	111	1930	53.28	65.69	6.839	112.1	35.45	12.69
111	2008	111	1945	53.26	66.73	5.848	104.7	35.43	12.68
111	2008	111	2000	52.82	70.3	6.753	117	35.67	12.68
111	2008	111	2015	52.35	73	5.812	118.7	27.41	12.67
111	2008	111	2030	51.91	74.9	7.02	115.1	33.11	12.66
111	2008	111	2045	51.64	76.7	7.21	121	35.2	12.66
111	2008	111	2100	51.47	77	6.207	113.5	33.05	12.65
111	2008	111	2115	51.12	78.1	6.007	118.5	34.13	12.65
111	2008	111	2130	51.04	77.8	6.64	116	33.37	12.64
111	2008	111	2145	50.93	77.5	6.428	120.3	31.15	12.64
111	2008	111	2200	50.9	77.1	6.477	110.6	30.46	12.63
111	2008	111	2215	50.56	77.2	6.93	106.1	32.29	12.63
111	2008	111	2230	50.34	77.6	6.237	103.3	41.64	12.63
111	2008	111	2245	49.96	78.3	5.798	87.6	35.4	12.63
111	2008	111	2300	49.6	79.6	4.835	90.8	36.76	12.62
111	2008	111	2315	49.19	80.3	4.738	95	34.77	12.62
111	2008	111	2330	48.97	80.6	4.786	95.4	34.53	12.6
111	2008	111	2345	48.84	80.6	4.313	96	36.44	12.6
111	2008	111	2400	48.86	80.4	4.464	94.9	33.02	12.6
111	2008	112	15	48.81	80.9	4.492	88.4	30.6	12.59

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	112	30	48.65	81.2	4.544	81.9	24.74	12.58
111	2008	112	45	48.16	82.7	4.24	81.4	22.39	12.58
111	2008	112	100	47.78	83.8	4.736	80.3	23.22	12.56
111	2008	112	115	47.5	84.5	4.776	81	18.08	12.57
111	2008	112	130	47.34	85.1	5.199	86.2	22.91	12.57
111	2008	112	145	47.28	85.4	5.381	82.2	22.16	12.56
111	2008	112	200	47.22	85.5	4.573	84.4	28.72	12.55
111	2008	112	215	47.17	86	4.279	86	22.67	12.55
111	2008	112	230	47.04	86.4	4.526	84.1	22.09	12.54
111	2008	112	245	47.02	86.7	4.538	78.3	25.78	12.53
111	2008	112	300	47.02	86.9	4.901	80	21.27	12.53
111	2008	112	315	46.91	87.1	4.986	85.5	28.22	12.53
111	2008	112	330	46.86	87.2	5.022	85.9	20.88	12.51
111	2008	112	345	46.93	87.3	4.861	84.5	26.65	12.51
111	2008	112	400	47.05	87.4	4.822	86	26.09	12.5
111	2008	112	415	47.12	87.7	5.842	81	22.28	12.5
111	2008	112	430	47.14	88	4.645	84.2	23.46	12.49
111	2008	112	445	47.21	88.4	5.604	86.7	22.18	12.5
111	2008	112	500	47.28	88.6	5.61	84.1	23.53	12.48
111	2008	112	515	47.45	88.4	4.974	83.7	23.9	12.48
111	2008	112	530	47.63	88.3	5.101	83.8	21.15	12.47
111	2008	112	545	47.68	88.4	4.222	79.8	34.82	12.47
111	2008	112	600	47.7	88.3	4.347	87	25.29	12.47
111	2008	112	615	47.91	88	4.921	83.2	28.83	12.46
111	2008	112	630	48.26	87.1	4.857	86.4	26.2	12.46
111	2008	112	645	48.44	86.6	4.72	82.5	23.69	12.46
111	2008	112	700	48.62	86.3	4.692	78.8	24.13	12.46
111	2008	112	715	48.67	85.9	5.35	84.4	31.02	12.46
111	2008	112	730	49.04	85.4	4.792	86.4	29.34	12.47
111	2008	112	745	49.22	85.5	5.505	81	26.62	12.54
111	2008	112	800	49.33	85.3	6.055	77.3	25.96	12.58
111	2008	112	815	49.58	84.7	5.773	83.1	26.93	12.68
111	2008	112	830	50.15	84.2	4.77	82.3	32.21	12.92
111	2008	112	845	50.57	82.4	6.203	85.6	31.65	13.4
111	2008	112	900	51.35	80.4	5.693	82.1	30.31	13.54
111	2008	112	915	52.38	78.1	4.978	83.6	38.93	13.52
111	2008	112	930	52.95	77.3	5.012	66.6	34.99	13.51
111	2008	112	945	54.06	75.2	5.107	78.1	36.38	13.49
111	2008	112	1000	54.49	75.2	5.675	80.8	30.5	13.48
111	2008	112	1015	55.33	70.8	5.985	79.9	24.89	13.46
111	2008	112	1030	56.81	70.2	6.045	101.8	33.04	13.44
111	2008	112	1045	57.1	70.9	7.15	84.5	29.66	13.43
111	2008	112	1100	57.46	66.78	6.39	98.9	38.09	13.42
111	2008	112	1115	58.56	66.38	6.744	96.9	38.34	13.41
111	2008	112	1130	58.58	67.57	5.931	82	26.67	13.4
111	2008	112	1145	59.25	66.66	6.041	97.7	41.56	13.4
111	2008	112	1200	60.07	63.75	4.994	104.5	39.54	13.37
111	2008	112	1215	61.24	62.01	5.485	98	39.39	13.36
111	2008	112	1230	61.48	61.37	5.274	103.4	43.87	13.36
111	2008	112	1245	62.18	59.73	4.929	109.2	39.89	13.34
111	2008	112	1300	61.59	70.7	6.583	149.4	31.51	13.34
111	2008	112	1315	60.47	68.76	7.45	168.3	22.38	13.35
111	2008	112	1330	60.1	68.86	8.5	165.3	19.65	13.35
111	2008	112	1345	60.55	68.16	8.02	164.3	20.48	13.35
111	2008	112	1400	62.02	62.34	6.986	159.7	22.6	13.35
111	2008	112	1415	62.86	61.14	7.58	132.1	28.44	13.35
111	2008	112	1430	62.8	59.53	7.98	131.7	28.88	13.34
111	2008	112	1445	62.75	60.7	9.25	140.1	25.96	13.34
111	2008	112	1500	62.63	60.03	8.31	143.9	27.56	13.35
111	2008	112	1515	62.87	61.37	7.72	137.6	28.07	13.34

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	112	1530	63.08	60.8	8.02	147.5	25.1	13.35
111	2008	112	1545	62.9	60.23	8.73	142	22.1	13.33
111	2008	112	1600	62.56	61	8.29	143.7	26.38	13.32
111	2008	112	1615	62.24	61.71	7.62	143.5	25.01	13.2
111	2008	112	1630	61.91	62.17	7.43	136.4	24.85	13.13
111	2008	112	1645	61.87	62.01	8.33	145.7	22.23	13.1
111	2008	112	1700	61.51	61.37	8.39	142.8	25.73	13.08
111	2008	112	1715	61.06	62.34	7.64	144.4	21.55	13.03
111	2008	112	1730	60.49	63.11	7.63	144.1	25.87	12.97
111	2008	112	1745	60.27	62.54	6.744	124.1	24.7	12.92
111	2008	112	1800	60.64	61.07	6.263	132.2	31.87	12.86
111	2008	112	1815	60.25	57.9	5.838	126.8	24.76	12.82
111	2008	112	1830	59.95	58.9	6.724	123.5	28	12.78
111	2008	112	1845	59.29	62.45	5.364	127.3	33.13	12.76
111	2008	112	1900	58.45	62.29	4.484	126	29.44	12.75
111	2008	112	1915	57.68	59.52	5.036	123.6	26.62	12.73
111	2008	112	1930	56.99	61.42	4.16	146.9	29.11	12.72
111	2008	112	1945	56.06	62.73	3.61	148.8	23.36	12.71
111	2008	112	2000	55.22	63.4	2.943	123.8	31.93	12.69
111	2008	112	2015	55.01	63.11	3.038	115.7	24.07	12.68
111	2008	112	2030	54.81	63.69	2.411	120.3	31.94	12.67
111	2008	112	2045	54.29	61.11	3.216	135.4	32.03	12.67
111	2008	112	2100	54.06	55.19	4.883	121.7	31.25	12.66
111	2008	112	2115	53.74	55.42	5.403	119.9	27.11	12.66
111	2008	112	2130	53.15	60.54	3.233	107.6	32.69	12.64
111	2008	112	2145	52.57	67.74	4.17	96.8	36.2	12.64
111	2008	112	2200	51.9	70.2	3.714	93.4	28.71	12.63
111	2008	112	2215	51.42	72.3	3.862	103	44.85	12.63
111	2008	112	2230	51.1	72	3.247	79.8	35.57	12.62
111	2008	112	2245	50.39	73.2	2.828	82	26.27	12.6
111	2008	112	2300	49.77	76.9	3.003	82.4	25.7	12.61
111	2008	112	2315	49.3	78.8	2.309	76.7	21.04	12.6
111	2008	112	2330	48.96	80.9	2.008	68.28	25.88	12.6
111	2008	112	2345	48.56	83	1.675	70.8	28.92	12.59
111	2008	112	2400	48.3	84.5	2.245	74	25.38	12.58
111	2008	113	15	48.1	85.8	2.658	76.3	29.39	12.58
111	2008	113	30	47.9	86.5	2.012	83.3	29.34	12.57
111	2008	113	45	47.51	87.6	1.472	67.56	27.53	12.57
111	2008	113	100	47.36	88.3	1.779	68.55	38.69	12.57
111	2008	113	115	47.27	89	1.778	68.65	33.48	12.55
111	2008	113	130	47.01	89.5	1.68	69.63	31.02	12.56
111	2008	113	145	46.9	90.1	1.746	69.77	28.04	12.55
111	2008	113	200	46.84	90.8	2.178	75.7	29.03	12.54
111	2008	113	215	46.91	91	2.111	74.9	30.3	12.53
111	2008	113	230	46.9	91.4	1.844	79.2	32	12.54
111	2008	113	245	46.89	91.9	1.706	60.94	39.41	12.53
111	2008	113	300	47.06	91.9	1.957	65.46	37.91	12.53
111	2008	113	315	47.27	92.4	3.299	83.1	19.55	12.52
111	2008	113	330	47.36	92.9	3.702	83.9	23.71	12.53
111	2008	113	345	47.41	93.2	3.868	85.2	25.44	12.52
111	2008	113	400	47.38	93.7	4.293	79.7	21.51	12.52
111	2008	113	415	47.37	93.9	3.62	85.1	24.28	12.52
111	2008	113	430	47.47	94.1	3.249	81.4	25.67	12.51
111	2008	113	445	47.52	94.1	3.155	78.1	30.42	12.52
111	2008	113	500	47.46	94	3.168	75	33.47	12.5
111	2008	113	515	47.4	94	3.184	77.1	33.76	12.5
111	2008	113	530	47.34	94.1	3.035	77.4	36.31	12.5
111	2008	113	545	47.29	94.2	2.945	74.7	31.18	12.5
111	2008	113	600	47.37	94.2	2.757	77.7	34.92	12.48
111	2008	113	615	47.45	94	3.291	64.07	33.47	12.48

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	113	630	47.56	94	2.759	69.8	34.44	12.48
111	2008	113	645	47.7	93.5	3.906	59.4	33.32	12.48
111	2008	113	700	48.02	92.9	3.739	47.64	31.75	12.5
111	2008	113	715	48.1	92.7	3.884	48.67	37.02	12.52
111	2008	113	730	48.28	92.3	3.831	62.17	28.92	12.58
111	2008	113	745	48.78	91.2	3.652	58	35.48	12.7
111	2008	113	800	49.18	90.3	4.093	44.26	32.48	13.1
111	2008	113	815	49.53	88	4.544	62.9	36.19	13.24
111	2008	113	830	49.79	87.4	4.309	57.07	37.34	13.45
111	2008	113	845	51.18	84.8	3.702	60.57	28.65	13.54
111	2008	113	900	52.41	80.8	4.526	69.45	30.88	13.53
111	2008	113	915	52.57	79.6	5.191	47.64	34.69	13.51
111	2008	113	930	53.55	77.2	5.209	51.33	31.79	13.5
111	2008	113	945	54.28	75.6	4.903	58.59	35.06	13.48
111	2008	113	1000	55.52	73	4.911	69.66	35.57	13.47
111	2008	113	1015	56.62	69.96	4.468	75.5	40.89	13.45
111	2008	113	1030	57.77	68.38	4.407	61.71	45.81	13.43
111	2008	113	1045	58.65	67.31	4.726	71.9	31.94	13.42
111	2008	113	1100	59.61	63.09	3.962	58.79	45.02	13.39
111	2008	113	1115	60.91	61.57	4.758	60.69	38.89	13.39
111	2008	113	1130	61.73	60.8	3.863	88.3	47.16	13.38
111	2008	113	1145	62.44	65.62	4.468	184.7	44.27	13.36
111	2008	113	1200	61.59	68.23	5.618	201.8	21.59	13.36
111	2008	113	1215	61.96	63.95	5.848	174.7	25.15	13.35
111	2008	113	1230	61.83	65.69	6.035	167.7	26.54	13.35
111	2008	113	1245	61.78	63.08	6.094	175	25.62	13.35
111	2008	113	1300	62.16	65.72	7.41	164	19.8	13.34
111	2008	113	1315	61.35	66.82	6.759	171	22.87	13.34
111	2008	113	1330	61.02	67.66	6.906	171.9	21.3	13.34
111	2008	113	1345	61.19	66.09	7.26	160.7	21.93	13.34
111	2008	113	1400	61.58	65.55	7.23	170.7	25.93	13.34
111	2008	113	1415	60.59	67.19	7.92	158.8	19.77	13.34
111	2008	113	1430	60.56	65.92	6.851	161	22.63	13.35
111	2008	113	1445	59.9	70.5	7.6	156.3	19.55	13.21
111	2008	113	1500	59.34	69.93	7.7	164.8	18.49	13.14
111	2008	113	1515	60.88	65.99	5.028	173.9	35.36	13.09
111	2008	113	1530	60.22	68.56	6.708	171.2	24.71	13.08
111	2008	113	1545	59.69	67.73	7.14	171.5	21.66	13.05
111	2008	113	1600	60.23	66.69	6.176	162.8	23.51	13.03
111	2008	113	1615	60.3	65.42	6.213	159.8	20.87	12.99
111	2008	113	1630	59.61	67.79	6.481	172	19.24	12.97
111	2008	113	1645	59.93	67.42	5.387	171	32.19	12.94
111	2008	113	1700	60.04	67.02	5.08	161.5	26.93	12.92
111	2008	113	1715	60.07	63.98	5.344	171.6	21.09	12.89
111	2008	113	1730	60.64	65.15	4.627	170.3	26.88	12.86
111	2008	113	1745	60.21	65.52	5.505	158.9	21.29	12.84
111	2008	113	1800	59.57	67.46	5.149	158.4	22.91	12.81
111	2008	113	1815	58.7	70.9	5.433	163	23.81	12.78
111	2008	113	1830	57.73	74.9	4.732	175.8	24.99	12.76
111	2008	113	1845	57.07	74.7	4.24	164.3	23.42	12.74
111	2008	113	1900	56.75	72.8	3.052	162.5	28.43	12.73
111	2008	113	1915	56.3	74	2.493	164.1	29.85	12.71
111	2008	113	1930	55.8	75.1	3.037	173.8	27.15	12.71
111	2008	113	1945	55.33	76	2.447	153.6	21.58	12.7
111	2008	113	2000	54.91	75.7	2.193	164	31.92	12.68
111	2008	113	2015	54.48	77.7	0.254	175.5	15.83	12.67
111	2008	113	2030	53.9	80.1	0.706	201.2	20.09	12.67
111	2008	113	2045	53.51	82.4	1.253	204.5	18.67	12.66
111	2008	113	2100	53.25	83.7	0.525	174	26.29	12.66
111	2008	113	2115	53.2	84.5	0.681	109.9	22.82	12.64

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	113	2130	53.15	84.9	0.215	89.8	12.73	12.64
111	2008	113	2145	53.05	85.3	0.531	105.8	30.1	12.64
111	2008	113	2200	52.47	86.5	0.755	215.1	17.12	12.63
111	2008	113	2215	51.79	87.8	0.201	145.5	11.14	12.62
111	2008	113	2230	51.84	88.6	0.512	124.4	23.12	12.62
111	2008	113	2245	51.92	88.7	0.378	144.9	21.24	12.61
111	2008	113	2300	51.31	89.1	0.009	164.8	0.005	12.6
111	2008	113	2315	50.55	89.9	na	na	na	12.6
111	2008	113	2330	50.44	90.4	na	na	na	12.59
111	2008	113	2345	50.13	90.6	0.254	2.258	9.34	12.58
111	2008	113	2400	49.94	90.5	0.088	330	0.442	12.58
111	2008	114	15	49.33	90.9	na	na	na	12.58
111	2008	114	30	48.73	91.3	na	na	na	12.57
111	2008	114	45	48.44	91.9	na	na	na	12.56
111	2008	114	100	48.46	91.9	na	na	na	12.55
111	2008	114	115	48.27	91.9	na	na	na	12.55
111	2008	114	130	47.84	92	na	na	na	12.54
111	2008	114	145	47.58	92.4	na	na	na	12.54
111	2008	114	200	47.59	92.4	na	na	na	12.53
111	2008	114	215	47.43	92.1	na	na	na	12.53
111	2008	114	230	47.18	92.3	na	na	na	12.52
111	2008	114	245	46.8	92.4	na	na	na	12.51
111	2008	114	300	46.45	93	na	na	na	12.5
111	2008	114	315	46.6	92.7	na	na	na	12.5
111	2008	114	330	46.52	92.8	0.331	11.37	11.12	12.5
111	2008	114	345	46.27	92.6	na	na	na	12.49
111	2008	114	400	46.06	92.8	na	na	na	12.48
111	2008	114	415	45.95	92.8	na	na	na	12.47
111	2008	114	430	45.8	92.6	na	na	na	12.47
111	2008	114	445	45.55	92.7	na	na	na	12.46
111	2008	114	500	45.52	92.9	na	na	na	12.46
111	2008	114	515	45.6	92.8	0.018	354.8	0.676	12.44
111	2008	114	530	45.51	93	na	na	na	12.45
111	2008	114	545	45.72	92.8	0.125	300	3.06	12.45
111	2008	114	600	45.92	92.3	0.027	311.4	1.254	12.44
111	2008	114	615	45.51	92.7	0.097	307	4.322	12.43
111	2008	114	630	45.72	92.9	na	na	na	12.43
111	2008	114	645	46.62	93	0.036	321.4	2.572	12.48
111	2008	114	700	48.05	92.5	0.329	5.486	13.21	12.61
111	2008	114	715	49.98	90.9	na	na	na	13.36
111	2008	114	730	51.57	88.7	0.046	42.13	1.649	13.62
111	2008	114	745	53.94	78.7	0.566	46.72	31.94	13.58
111	2008	114	800	55.72	73.8	0.9	314	29.18	13.56
111	2008	114	815	57.05	68.11	1.87	304.9	25.39	13.54
111	2008	114	830	58.26	65.65	3.227	305.7	25.04	13.5
111	2008	114	845	59.54	64.47	2.911	305.3	26.47	13.48
111	2008	114	900	60.7	63.87	4.144	304	34.77	13.45
111	2008	114	915	61.6	63.19	4.488	296.8	19.87	13.43
111	2008	114	930	62.47	60.34	5.411	303.1	27.65	13.41
111	2008	114	945	63.54	58.23	4.76	285.8	24.6	13.4
111	2008	114	1000	64.28	58.73	5.111	303.1	27.07	13.38
111	2008	114	1015	64.83	59.56	4.704	270.7	22.33	13.36
111	2008	114	1030	64.93	62.61	4.786	233.1	28.28	13.35
111	2008	114	1045	64.8	61.36	6.068	239.7	25.04	13.35
111	2008	114	1100	64.79	60.45	5.562	248.4	28.98	13.33
111	2008	114	1115	65.22	60.68	6.249	235.8	27.15	13.33
111	2008	114	1130	64.83	60.25	6.583	243	28.21	13.32
111	2008	114	1145	64.35	61.18	6.9	258.6	21.93	13.32
111	2008	114	1200	64.85	59.68	6.785	243.5	28.87	13.31
111	2008	114	1215	65.05	57.57	6.507	246.6	23.86	13.31

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	114	1230	65.28	57.74	7.29	259	22.46	13.31
111	2008	114	1245	65.2	59.18	6.819	257	23.66	13.3
111	2008	114	1300	64.56	58.85	7.51	242.4	27.99	13.3
111	2008	114	1315	65.11	57.41	7.6	245.1	24.85	13.3
111	2008	114	1330	64.75	57.67	7.96	250.4	24.56	13.3
111	2008	114	1345	65.01	57.61	7.81	243.9	24.38	13.3
111	2008	114	1400	65.86	55.03	8.2	253.2	22.28	13.3
111	2008	114	1415	65.42	56.54	7.89	235.2	22.89	13.29
111	2008	114	1430	64.99	57.04	7.56	243.2	28.13	13.29
111	2008	114	1445	64.83	59.45	8.28	252.1	21.61	13.26
111	2008	114	1500	64.53	64.16	7.75	262.4	25.36	13.14
111	2008	114	1515	63.83	65.23	8.28	266.4	21.47	13.1
111	2008	114	1530	63.55	62.82	8.51	261.6	19.37	13.1
111	2008	114	1545	63.79	62.99	7.82	255.7	21.03	13.07
111	2008	114	1600	64.5	59.99	6.231	246.9	23.95	13.02
111	2008	114	1615	64.94	62.86	6.495	249.8	27.81	13.03
111	2008	114	1630	64	64.03	6.124	245.4	27.32	12.99
111	2008	114	1645	63.67	66.74	7.9	268.3	20.61	12.99
111	2008	114	1700	62.25	69.36	8.47	263.8	20.28	12.97
111	2008	114	1715	62.56	68.16	6.438	269	21.98	12.93
111	2008	114	1730	62.64	69.43	7.25	271.2	19.1	12.89
111	2008	114	1745	61.42	72.4	7.09	265.1	20.99	12.86
111	2008	114	1800	60.8	73.3	7.36	263.3	18.46	12.82
111	2008	114	1815	60.61	75	7.13	267.9	18.54	12.79
111	2008	114	1830	60.08	76	7.23	267.5	21.98	12.76
111	2008	114	1845	59.49	77.1	7.52	261.1	18.36	12.74
111	2008	114	1900	59.33	76.1	6.334	265.6	21.6	12.74
111	2008	114	1915	58.88	77.6	7.36	268.1	18.93	12.73
111	2008	114	1930	58.33	79.2	7.01	269.8	18.37	12.71
111	2008	114	1945	58.23	78.2	7.33	265	19.2	12.71
111	2008	114	2000	58.09	78.6	7.6	265.2	20.91	12.69
111	2008	114	2015	57.68	78.5	7.52	266.5	17.97	12.68
111	2008	114	2030	57.7	78.2	7.82	271.2	21.36	12.68
111	2008	114	2045	57.72	78.2	8.57	270.7	21.19	12.67
111	2008	114	2100	57.39	78.3	7.98	271.4	17.48	12.66
111	2008	114	2115	57.21	77.8	8.12	273.3	17.57	12.65
111	2008	114	2130	57.16	78	7.87	270	16.91	12.65
111	2008	114	2145	57.35	79.1	7.52	273.5	14.96	12.66
111	2008	114	2200	57.11	79.9	6.078	272.7	20.39	12.65
111	2008	114	2215	57.61	78.9	7.12	273.9	17.02	12.64
111	2008	114	2230	57.86	78.4	6.134	275.7	16.66	12.64
111	2008	114	2245	58.06	78.4	5.56	274.4	17.95	12.63
111	2008	114	2300	58.02	78.9	5.36	270.6	17.63	12.63
111	2008	114	2315	57.73	79.8	5.25	278.5	16.34	12.63
111	2008	114	2330	57.54	80.1	6.281	278.5	16.68	12.63
111	2008	114	2345	57.53	79.3	5.79	281.6	16.27	12.63
111	2008	114	2400	57.52	79.8	5.983	274.8	15.38	12.62
111	2008	115	15	57.53	80	5.163	279.4	14.59	12.61
111	2008	115	30	57.86	79.2	4.738	277.1	13.39	12.61
111	2008	115	45	58.56	77.7	5.155	276.1	14.75	12.61
111	2008	115	100	58.91	77.5	5.497	279.5	17.03	12.61
111	2008	115	115	58.96	77.7	4.986	279.8	13.68	12.6
111	2008	115	130	58.98	77.4	4.403	280.1	13.97	12.6
111	2008	115	145	59.42	76.1	5.733	281.9	16.07	12.6
111	2008	115	200	59.68	76.1	6.138	283.2	12.91	12.59
111	2008	115	215	59.49	76.5	5.391	280.8	14.22	12.59
111	2008	115	230	59.57	76.1	4.546	285.7	13.22	12.59
111	2008	115	245	59.3	77.2	3.579	275.5	13.29	12.58
111	2008	115	300	58.96	77.9	3.1	262.9	16.1	12.58
111	2008	115	315	59.01	77.6	2.854	268.8	16.79	12.58

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	115	330	58.96	78	2.337	279.6	14.31	12.57
111	2008	115	345	59.04	77.7	2.546	292.3	14.65	12.56
111	2008	115	400	59.08	77.6	2.147	307.6	11.51	12.56
111	2008	115	415	58.84	78	1.792	300.6	12.91	12.55
111	2008	115	430	58.65	78.7	1.612	287.4	12.24	12.56
111	2008	115	445	58.59	77.8	2.077	308.6	14.07	12.54
111	2008	115	500	59.19	76.2	2.84	307.3	13.02	12.54
111	2008	115	515	59.62	73.2	2.6	323	20.02	12.54
111	2008	115	530	59.88	73.6	2.689	318.2	14.23	12.53
111	2008	115	545	59.68	72.9	1.879	331.9	18.87	12.52
111	2008	115	600	60.16	71.4	1.867	335.5	21.6	12.52
111	2008	115	615	59.62	73.7	1.065	348	19.87	12.52
111	2008	115	630	58.94	74.9	1.246	348.3	21.98	12.52
111	2008	115	645	59.29	72.2	1.355	332.9	15.96	12.56
111	2008	115	700	60.44	69.63	1.862	336.5	17.46	12.66
111	2008	115	715	61.46	67.82	2.334	353.9	18.89	13.3
111	2008	115	730	62.44	64.97	2.763	350.2	21.49	13.44
111	2008	115	745	63.82	61.39	3.624	356.7	25.11	13.42
111	2008	115	800	64.94	57.77	4.563	352.1	21.87	13.4
111	2008	115	815	66.09	47.26	5.743	5.775	30.96	13.39
111	2008	115	830	66.68	41.37	7.53	10.49	23.02	13.37
111	2008	115	845	67.45	41.3	6.166	22.08	30.04	13.36
111	2008	115	900	67.3	41.5	7.58	8.26	24.33	13.35
111	2008	115	915	68.09	39.56	6.473	26.75	37.29	13.34
111	2008	115	930	67.87	39.49	7.88	19.9	24.99	13.34
111	2008	115	945	68.2	39.59	7.6	12.11	23.6	13.33
111	2008	115	1000	68.64	39.89	7.26	17.37	26.37	13.32
111	2008	115	1015	68.33	39.45	7.32	20.53	31.51	13.32
111	2008	115	1030	69.12	39.12	6.823	36.67	35.56	13.31
111	2008	115	1045	69.41	36.38	6.757	29.19	34.16	13.3
111	2008	115	1100	69.55	35.11	7.67	36.88	32.52	13.3
111	2008	115	1115	70.2	32.2	7.42	35.08	35.38	13.29
111	2008	115	1130	70.8	29.46	8.11	47.8	33.19	13.29
111	2008	115	1145	70.9	29.69	8.8	45.39	34.33	13.28
111	2008	115	1200	71.3	29.96	7.64	22.34	32.98	13.28
111	2008	115	1215	71.5	29.92	7.14	3.243	26.71	13.27
111	2008	115	1230	71.6	28.92	8	355.4	30.28	13.27
111	2008	115	1245	72.1	28.72	6.267	6.801	41.87	13.26
111	2008	115	1300	72.5	28.62	7.69	1.977	40.14	13.26
111	2008	115	1315	72.8	26.81	6.585	4.533	26.89	13.26
111	2008	115	1330	73	25.44	7.03	359.8	32.85	13.25
111	2008	115	1345	72.5	25.21	7.94	356.2	23.38	13.24
111	2008	115	1400	73	24.67	7.21	352.7	30.95	13.24
111	2008	115	1415	74	22.7	6.94	0.965	35.28	13.24
111	2008	115	1430	74.3	22.6	7.75	12.38	28.6	13.24
111	2008	115	1445	74.4	22.03	9.02	346.9	27.96	13.24
111	2008	115	1500	74.4	20.36	8.79	345.4	31.87	13.19
111	2008	115	1515	75.2	18.99	7.89	1.723	32.34	13.2
111	2008	115	1530	75.4	18.45	8.21	26.56	28.37	13.19
111	2008	115	1545	75.6	17.95	8.51	16.89	27.42	13.09
111	2008	115	1600	75.7	16.98	8.09	21.85	31.97	13.04
111	2008	115	1615	75.5	18.02	7.17	6.803	32.18	13
111	2008	115	1630	75.7	18.82	6.93	12.25	28.83	12.98
111	2008	115	1645	75.6	18.75	6.914	5.777	27.1	12.95
111	2008	115	1700	75.7	16.48	7.24	23.67	30.7	12.92
111	2008	115	1715	75.3	19.28	6.918	26.75	30.9	12.9
111	2008	115	1730	75.1	18.58	5.788	63.63	36.53	12.88
111	2008	115	1745	74.5	18.48	6.336	51.59	33.45	12.86
111	2008	115	1800	74.4	16.95	6.448	28.45	30.9	12.84
111	2008	115	1815	74	17.18	5.669	40.66	31.02	12.81

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	115	1830	73.5	16.65	5.91	45.97	30.01	12.78
111	2008	115	1845	73	16.52	5.183	36.22	24.07	12.77
111	2008	115	1900	72.3	17.69	5.36	37.68	29.91	12.76
111	2008	115	1915	71.3	18.29	4.017	40.18	34.9	12.74
111	2008	115	1930	70.2	19.23	3.509	40.48	33.33	12.73
111	2008	115	1945	69.28	21.2	3.009	46.6	29.26	12.72
111	2008	115	2000	68.43	22.54	2.913	36.88	28.94	12.72
111	2008	115	2015	67.61	24.05	2.349	49.79	26.69	12.7
111	2008	115	2030	66.63	25.75	2.258	36.54	27.69	12.7
111	2008	115	2045	65.8	27.73	2.296	33.81	23.09	12.69
111	2008	115	2100	64.83	28.57	1.824	39.2	27.94	12.67
111	2008	115	2115	63.78	30.04	0.162	39.9	8.43	12.67
111	2008	115	2130	62.81	31.55	0.076	29.27	4.085	12.66
111	2008	115	2145	61.96	33.76	0.313	337.5	12.82	12.65
111	2008	115	2200	61.22	33.42	na	na	na	12.65
111	2008	115	2215	60.81	40.68	0.087	79.2	8.66	12.63
111	2008	115	2230	59.21	43.97	na	na	na	12.63
111	2008	115	2245	57.67	43.6	0.081	278.2	1.572	12.62
111	2008	115	2300	56.43	48.19	0.082	317.9	0.722	12.61
111	2008	115	2315	55.73	48.36	na	na	na	12.6
111	2008	115	2330	54.82	50.77	na	na	na	12.6
111	2008	115	2345	54.43	51.17	0.416	278.4	4.399	12.59
111	2008	115	2400	53.62	53.71	0.2	286.1	4.454	12.58
111	2008	116	15	52.88	53.42	na	na	na	12.58
111	2008	116	30	52.53	54.33	0.54	23.91	10.97	12.56
111	2008	116	45	52.58	55.1	0.698	302.5	27.23	12.57
111	2008	116	100	51.86	54.77	0.645	319	19.36	12.55
111	2008	116	115	51.33	57.18	na	na	na	12.55
111	2008	116	130	50.87	57.82	na	na	na	12.54
111	2008	116	145	50.07	60.6	na	na	na	12.53
111	2008	116	200	49.75	58.99	na	na	na	12.53
111	2008	116	215	49.27	60.26	na	na	na	12.52
111	2008	116	230	49.02	58.42	0.009	23.72	0.007	12.52
111	2008	116	245	48.73	57.25	na	na	na	12.51
111	2008	116	300	48.46	60.23	0.082	283.1	2.192	12.5
111	2008	116	315	47.76	59.26	0.027	327.6	0.059	12.5
111	2008	116	330	47.39	60.64	0.511	3.138	6.397	12.48
111	2008	116	345	47.09	62.92	na	na	na	12.48
111	2008	116	400	46.63	62.65	na	na	na	12.48
111	2008	116	415	46.57	63.42	na	na	na	12.47
111	2008	116	430	46.58	63.06	na	na	na	12.47
111	2008	116	445	46.54	64.5	na	na	na	12.47
111	2008	116	500	46.3	61.65	0.198	22.17	6.8	12.46
111	2008	116	515	46.42	63.16	0.009	0.193	0.006	12.45
111	2008	116	530	45.84	59.34	0.009	13.12	0.004	12.44
111	2008	116	545	46.79	58.24	na	na	na	12.44
111	2008	116	600	47.92	56.9	0.542	297.6	6.969	12.44
111	2008	116	615	47.69	56.9	0.018	295	5.563	12.44
111	2008	116	630	47.12	55.26	0.132	17.67	13.1	12.44
111	2008	116	645	49.22	42.29	1.441	57.86	26.89	12.47
111	2008	116	700	52.32	39.05	1.706	76.9	41.06	12.52
111	2008	116	715	54.97	39.98	1.654	111.8	31.56	13.36
111	2008	116	730	56.25	41.45	2.424	113	37.57	13.38
111	2008	116	745	57.6	42.34	2.785	125.5	31.06	13.56
111	2008	116	800	59.26	41.73	2.743	145.6	33.88	13.53
111	2008	116	815	60.47	40.92	4.087	164.2	30.04	13.5
111	2008	116	830	60.63	42.66	4.557	161.2	26.15	13.48
111	2008	116	845	60.75	47.34	4.113	160	26.53	13.46
111	2008	116	900	60.44	49.85	4.25	163.2	26.76	13.45
111	2008	116	915	60.08	48.67	4.121	183.8	33.92	13.43

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	116	930	60.73	49.67	3.859	163.6	31.56	13.4
111	2008	116	945	60.98	49.13	4.762	171.1	34.76	13.41
111	2008	116	1000	60.16	53.04	4.78	196.9	25.98	13.39
111	2008	116	1015	60.49	51.4	4.363	201.7	29.9	13.39
111	2008	116	1030	60.88	51.54	4.758	189.5	30.15	13.36
111	2008	116	1045	60.64	57.46	5.173	193.4	27.48	13.36
111	2008	116	1100	61.13	53.51	5.437	188.2	26.45	13.35
111	2008	116	1115	61.42	46.05	5.572	181.3	31.73	13.35
111	2008	116	1130	61.58	52.64	5.423	171	22.69	13.35
111	2008	116	1145	62.19	38.19	5.79	185.9	27.06	13.35
111	2008	116	1200	62.31	41.74	5.538	200.4	28.79	13.35
111	2008	116	1215	62.48	37.93	5.973	211.6	29.19	13.34
111	2008	116	1230	63.25	42.44	5.854	218.6	24.19	13.33
111	2008	116	1245	63.42	43.38	6.192	209.3	31.93	13.33
111	2008	116	1300	63.38	51.37	6.158	214.8	37.26	13.31
111	2008	116	1315	62.92	50.03	7.01	223.3	28.72	13.32
111	2008	116	1330	62.93	48.29	6.751	219.2	26.92	13.31
111	2008	116	1345	62.9	43.74	6.958	231.1	34.08	13.31
111	2008	116	1400	62.66	36.15	6.916	225.2	30.85	13.31
111	2008	116	1415	62.68	32.94	7.34	236.9	22.06	13.32
111	2008	116	1430	62.37	28.89	7.46	230.8	22.04	13.31
111	2008	116	1445	62.57	27.09	7.4	223.7	25.51	13.31
111	2008	116	1500	62.61	28.83	6.809	220.2	29.73	13.31
111	2008	116	1515	62.38	30.03	6.628	223.7	31.28	13.31
111	2008	116	1530	61.81	34.15	6.321	219.3	23.46	13.33
111	2008	116	1545	61.66	31.61	6.618	236.5	23.55	13.32
111	2008	116	1600	62.17	30.3	7.65	252	25.07	13.33
111	2008	116	1615	61.65	31.34	8.94	244.9	25.29	13.34
111	2008	116	1630	61.18	32.14	7.16	256.3	20.34	13.35
111	2008	116	1645	60.27	35.79	8.13	244	23.86	13.36
111	2008	116	1700	60.82	37.32	7.76	251.4	23.19	13.36
111	2008	116	1715	60.49	42.98	7.93	250.6	19.79	13.32
111	2008	116	1730	60.69	42.54	7.03	251.7	22.44	13.31
111	2008	116	1745	60.25	44.05	6.684	255.2	23.95	13.22
111	2008	116	1800	60.12	46.02	6.571	254	27.28	13.05
111	2008	116	1815	59.78	47.36	7.34	263.6	22.18	13.05
111	2008	116	1830	59.29	50.64	7.09	264.8	19.6	12.89
111	2008	116	1845	58.56	56.7	6.196	250.8	24.61	12.8
111	2008	116	1900	57.66	62.26	5.421	251.2	26.09	12.76
111	2008	116	1915	57.26	65.44	4.677	248.6	22.86	12.74
111	2008	116	1930	56.86	67.45	4.559	259.7	21.57	12.73
111	2008	116	1945	56.72	68.72	4.585	262	19.41	12.71
111	2008	116	2000	56.58	69.96	4.825	267.1	18.95	12.69
111	2008	116	2015	56.41	71.3	4.14	257.9	27.06	12.68
111	2008	116	2030	56.19	72	4.246	264.3	21.38	12.68
111	2008	116	2045	56.03	74.3	3.143	240.4	29.42	12.68
111	2008	116	2100	55.52	75.7	3.027	248.9	19.73	12.66
111	2008	116	2115	55.58	76.2	3.561	259.7	21.55	12.66
111	2008	116	2130	55.56	77.2	4.254	268.9	17.3	12.66
111	2008	116	2145	55.52	78.6	4.19	269.3	17.59	12.65
111	2008	116	2200	55.35	79.9	3.765	273.1	15.39	12.64
111	2008	116	2215	55.31	81.5	3.583	274.4	17.12	12.63
111	2008	116	2230	55.25	82.2	3.084	276	15.43	12.63
111	2008	116	2245	55.19	83	1.847	257.9	23.25	12.63
111	2008	116	2300	55.12	84.1	2.2	273	16.14	12.63
111	2008	116	2315	55.3	84.7	3.316	276.9	18.16	12.63
111	2008	116	2330	55.35	85.7	3.296	260.3	20.86	12.62
111	2008	116	2345	55.13	86.1	2.182	260	19.7	12.61
111	2008	116	2400	55.11	86.3	2.496	256.3	26.97	12.62
111	2008	117	15	54.87	87.1	1.658	253.3	20.77	12.61

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	117	30	55.06	87.1	3.142	276.2	14.95	12.61
111	2008	117	45	55.28	86.5	2.972	279.1	29.06	12.61
111	2008	117	100	55.55	85.9	2.723	234.3	53.66	12.6
111	2008	117	115	55.94	84.8	3.686	264.9	30.32	12.6
111	2008	117	130	56.13	83.6	3.342	279.6	32.74	12.6
111	2008	117	145	55.81	83.2	2.614	257	54.7	12.6
111	2008	117	200	55.97	83.4	2.109	124.7	30.09	12.6
111	2008	117	215	56.01	84	2.719	138	30.11	12.59
111	2008	117	230	55.6	84.8	3.11	131.3	29.26	12.59
111	2008	117	245	54.97	84.8	4.017	135.6	24.51	12.59
111	2008	117	300	54.57	84.4	4.25	132.7	28.36	12.58
111	2008	117	315	54.28	83.9	4.73	129.6	25.68	12.58
111	2008	117	330	53.75	80.5	4.917	124	25.96	12.57
111	2008	117	345	53.33	81.1	5.145	141.5	24.73	12.58
111	2008	117	400	53.11	82.1	4.77	139.5	26.73	12.56
111	2008	117	415	52.83	81.8	5.804	124.2	23.57	12.55
111	2008	117	430	52.4	81.4	5.298	129.5	24.59	12.55
111	2008	117	445	51.82	81.9	6.329	128.6	21.49	12.55
111	2008	117	500	51.17	81.7	6.233	129.7	23.2	12.54
111	2008	117	515	50.64	80.3	7.04	123.5	21.73	12.53
111	2008	117	530	50.45	77.2	6.686	127.9	24.12	12.52
111	2008	117	545	50.55	73.6	5.06	140.2	23.12	12.51
111	2008	117	600	50.77	69.78	5.657	138.4	22.52	12.5
111	2008	117	615	51.18	64.59	5.596	140.4	25.16	12.5
111	2008	117	630	51.56	61.15	5.975	144.4	23.28	12.5
111	2008	117	645	51.82	59.17	5.91	140.3	24.01	12.5
111	2008	117	700	51.98	59.4	5.238	129.8	32.75	12.48
111	2008	117	715	52.15	60.04	5.673	127.3	28.83	12.5
111	2008	117	730	52.25	60.91	5.749	125	31.23	12.51
111	2008	117	745	51.95	62.99	7.86	124.4	23.11	12.58
111	2008	117	800	51.95	62.88	6.732	123	31.4	12.66
111	2008	117	815	51.9	62.35	7.31	116.9	28.1	12.94
111	2008	117	830	51.78	59.84	7.69	124.5	37.65	13.19
111	2008	117	845	52.56	56.63	8.34	126.9	29.46	13.5
111	2008	117	900	52.99	57.33	9.4	122.4	24.55	13.5
111	2008	117	915	53.08	55.35	10.76	121.3	28.95	13.48
111	2008	117	930	53.41	53.38	8.57	125.8	26.61	13.48
111	2008	117	945	54.23	54.51	8.55	140.6	27.41	13.48
111	2008	117	1000	54.03	50.83	8.84	125.1	28.29	13.48
111	2008	117	1015	54.48	54.3	9.26	125.1	27.13	13.47
111	2008	117	1030	54.08	52.96	10.07	129.9	28.25	13.46
111	2008	117	1045	54.8	50.35	9.11	134.1	25.38	13.45
111	2008	117	1100	55.12	48.01	9.33	133.1	27.97	13.45
111	2008	117	1115	55.48	49.38	8.89	129.2	24.87	13.44
111	2008	117	1130	55.38	46	8.99	128.1	28.25	13.44
111	2008	117	1145	54.81	46.5	10.59	138.3	25.13	13.43
111	2008	117	1200	54.72	47.01	10.83	136.6	25.51	13.43
111	2008	117	1215	54.83	49.55	9.98	132.8	28.21	13.43
111	2008	117	1230	55.43	49.75	10.03	130.3	25.89	13.43
111	2008	117	1245	54.73	50.42	10.8	136	24.73	13.43
111	2008	117	1300	54.14	52.46	10.06	140.7	22.15	13.43
111	2008	117	1315	53.27	54.4	8.88	123.1	30.8	13.44
111	2008	117	1330	53.61	51.15	8.05	120.5	31.18	13.45
111	2008	117	1345	53.88	51.05	9.32	146.4	21.33	13.45
111	2008	117	1400	53.93	50.79	8.44	135.8	29.12	13.45
111	2008	117	1415	54.69	49.65	9.75	138.1	26.01	13.44
111	2008	117	1430	54.48	48.51	9.73	144.1	20.34	13.43
111	2008	117	1445	54.91	51.96	8.08	133.1	25.79	13.43
111	2008	117	1500	53.82	54.6	9.01	145.2	23.17	13.43
111	2008	117	1515	54.23	50.52	8.4	137.9	26.7	13.45

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	117	1530	54.31	53.46	7.25	143.3	25.14	13.43
111	2008	117	1545	53.79	55.3	7.63	143.3	21.59	13.45
111	2008	117	1600	53.22	52.79	6.601	138.9	22.27	13.45
111	2008	117	1615	53.22	52.19	7.84	148.5	21.61	13.47
111	2008	117	1630	53.09	52.53	8.2	150.6	25.08	13.47
111	2008	117	1645	52.6	52.63	6.293	139.3	29.36	13.47
111	2008	117	1700	52.88	49.92	7.96	150.4	21.74	13.47
111	2008	117	1715	52.34	51.56	7.35	141.3	22.7	13.47
111	2008	117	1730	51.79	54.71	7.23	131.9	26.22	13.48
111	2008	117	1745	51.78	52.77	6.287	140.3	25.72	13.3
111	2008	117	1800	51.8	54.45	5.822	140.2	29.51	13.02
111	2008	117	1815	51.62	51.7	7.53	145.5	21.64	12.94
111	2008	117	1830	52.24	54.52	6.015	136.8	27.01	12.92
111	2008	117	1845	51.65	56.06	7.62	149.8	20.96	12.8
111	2008	117	1900	50.96	56.63	6.785	144.2	21.41	12.75
111	2008	117	1915	50.57	57.8	6.481	143.9	20.31	12.72
111	2008	117	1930	50.1	58.53	5.945	137.2	23.01	12.71
111	2008	117	1945	49.73	58.8	4.955	141.7	25.6	12.7
111	2008	117	2000	49.54	59.54	3.974	128.2	30.41	12.68
111	2008	117	2015	49.45	59.71	3.602	128.5	33.15	12.67
111	2008	117	2030	49.38	57.47	3.398	125.5	31.03	12.66
111	2008	117	2045	49.41	55.07	3.9	132.2	26.14	12.66
111	2008	117	2100	49.45	51.39	5.143	132.3	21.73	12.66
111	2008	117	2115	49.47	47.3	4.553	130.6	24.42	12.64
111	2008	117	2130	49.76	47.54	5.796	139.5	23.89	12.64
111	2008	117	2145	49.54	53.9	5.804	140.3	27.08	12.64
111	2008	117	2200	49.14	55.74	5.657	133.8	27.05	12.63
111	2008	117	2215	48.85	59.16	4.794	134.3	24.19	12.63
111	2008	117	2230	48.65	58.79	4.472	129.2	28.37	12.63
111	2008	117	2245	48.45	60.36	3.698	123.2	30.09	12.62
111	2008	117	2300	48.34	60.33	2.824	131.9	31.5	12.62
111	2008	117	2315	48.19	59.59	3.06	130.5	24.52	12.61
111	2008	117	2330	48.17	58.39	3.305	116.9	32.99	12.61
111	2008	117	2345	48.32	59.22	2.235	67.48	44.87	12.6
111	2008	117	2400	48.22	59.26	2.221	67.6	34.09	12.6
111	2008	118	15	48.42	60.23	3.003	78	31.72	12.59
111	2008	118	30	48.19	61.3	3.215	87.7	24.18	12.6
111	2008	118	45	48.17	61.67	3.189	81.5	27.79	12.59
111	2008	118	100	47.99	63.01	3.398	84.2	26.83	12.59
111	2008	118	115	47.85	63.21	3.698	106.8	34.67	12.58
111	2008	118	130	47.87	63.71	3.787	120.2	28.9	12.58
111	2008	118	145	47.94	63.91	3.473	114.9	32.04	12.58
111	2008	118	200	48.01	64.81	3.312	116.2	27.67	12.58
111	2008	118	215	48.03	65.52	3.26	134.3	30.8	12.56
111	2008	118	230	48.24	66.79	3.863	137.3	29.9	12.56
111	2008	118	245	48.31	68.32	3.573	132.8	25.71	12.56
111	2008	118	300	48.36	68.43	3.513	141.7	21.46	12.55
111	2008	118	315	48.35	69.06	3.739	124.5	26.73	12.55
111	2008	118	330	48.32	69.7	3.821	121.4	25.49	12.54
111	2008	118	345	48.32	70.1	3.906	117.8	31.87	12.54
111	2008	118	400	48.29	71.3	3.233	112.1	38.88	12.52
111	2008	118	415	48.18	72.7	4.156	120.6	27.54	12.52
111	2008	118	430	48.2	72.7	2.805	111.4	37.92	12.52
111	2008	118	445	48.2	72.8	3.015	100	35.02	12.5
111	2008	118	500	48.05	73.1	3.203	95.2	34.83	12.5
111	2008	118	515	48.04	74.4	2.893	93.7	35.15	12.5
111	2008	118	530	47.87	75.1	3.847	81.5	27.56	12.48
111	2008	118	545	47.73	74.9	2.74	103.7	39.64	12.47
111	2008	118	600	47.71	76.6	3.34	125.9	25.33	12.47
111	2008	118	615	47.71	76.3	2.774	124.9	29.87	12.47

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	118	630	47.77	76.2	2.554	95.6	27.74	12.46
111	2008	118	645	47.77	76.7	2.646	87.4	35.02	12.46
111	2008	118	700	47.81	77.2	3.046	79.7	29.2	12.46
111	2008	118	715	47.84	80.1	3.235	76.3	26.83	12.46
111	2008	118	730	47.63	80.7	3.571	84.1	22.54	12.46
111	2008	118	745	47.74	80.4	2.952	70.9	27.34	12.46
111	2008	118	800	47.77	79.9	2.594	74.5	28.1	12.46
111	2008	118	815	47.99	79.4	2.477	80.1	39.46	12.49
111	2008	118	830	48.36	77.8	3.036	83.9	31.97	12.56
111	2008	118	845	48.87	76.2	2.476	104.1	47.72	12.78
111	2008	118	900	48.93	75	3.179	106.2	40.98	13
111	2008	118	915	48.78	74.3	3.152	90.6	32.03	12.92
111	2008	118	930	49.05	73.5	2.356	86	39.38	12.92
111	2008	118	945	49.36	71.9	2.733	115.8	35.39	12.96
111	2008	118	1000	49.42	73.9	1.622	135.2	69.18	13
111	2008	118	1015	49.15	73.4	1.371	176.5	31.19	12.95
111	2008	118	1030	49.54	78.1	1.052	125.6	48.48	12.96
111	2008	118	1045	49.09	81.9	2.925	182.9	30.51	13.04
111	2008	118	1100	48.86	83.5	3.012	156	28.08	13.1
111	2008	118	1115	48.97	85.2	4.845	149.4	22.09	13.22
111	2008	118	1130	48.29	86.2	5.008	151.1	28.97	13.12
111	2008	118	1145	47.79	86.9	4.131	157.4	21.35	13.08
111	2008	118	1200	47.93	86.9	2.894	143.6	28.32	13.06
111	2008	118	1215	47.97	87	3.292	142	26.99	13.06
111	2008	118	1230	48.17	86.4	3.745	146.1	23.79	13.07
111	2008	118	1245	48.43	86	3.162	145.6	24.9	13.04
111	2008	118	1300	48.39	83.7	2.202	112.8	33.34	13.02
111	2008	118	1315	48.83	82.1	2.286	117.3	40.36	13.22
111	2008	118	1330	49.16	81.6	3.259	143.3	29.79	13.22
111	2008	118	1345	49.41	81.2	3.169	138.6	31.06	13.42
111	2008	118	1400	49.77	78.9	3.506	137.3	34.45	13.54
111	2008	118	1415	50.21	79.2	3.733	137.1	32.07	13.54
111	2008	118	1430	50.58	77.4	2.608	131.9	40.91	13.54
111	2008	118	1445	50.94	75.1	4.339	138.5	29.28	13.52
111	2008	118	1500	51.54	72.2	4.583	141.6	29.85	13.52
111	2008	118	1515	51.2	68.24	3.88	115.7	30.8	13.51
111	2008	118	1530	51.46	72.9	4.119	141.6	35.99	13.52
111	2008	118	1545	51.14	73.9	4.976	155.4	24.47	13.52
111	2008	118	1600	50.81	74.8	5.572	166	18.28	13.52
111	2008	118	1615	50.62	75.1	6.583	159.9	16.77	13.53
111	2008	118	1630	50.63	76.6	6.634	159	22	13.52
111	2008	118	1645	50.37	76.7	6.581	151.5	21.78	13.53
111	2008	118	1700	50.25	75.3	5.52	145.1	26.01	13.54
111	2008	118	1715	50.07	76.9	5.743	139.9	23.73	13.54
111	2008	118	1730	49.82	76.1	5.89	144	28.15	13.54
111	2008	118	1745	49.48	76.8	5.771	130.6	28.6	13.24
111	2008	118	1800	49.17	79	5.749	138.6	23.07	13.08
111	2008	118	1815	48.92	80.1	5.258	131.7	27.77	12.91
111	2008	118	1830	48.71	80.8	5.594	148	19.85	12.8
111	2008	118	1845	48.6	81.2	4.885	140.6	24.23	12.76
111	2008	118	1900	48.47	81.7	4.301	128	31.61	12.73
111	2008	118	1915	48.41	81.8	4.258	139.7	26.26	12.71
111	2008	118	1930	48.37	82	3.946	128.9	30.25	12.71
111	2008	118	1945	48.18	82.3	4.992	125.2	30.57	12.69
111	2008	118	2000	48.17	82.4	4.794	129.7	21.88	12.68
111	2008	118	2015	47.9	82.8	5.099	118.7	31.91	12.68
111	2008	118	2030	47.82	82.8	4.853	112	32.88	12.66
111	2008	118	2045	47.72	83.3	5.431	122.4	24.87	12.66
111	2008	118	2100	47.73	83.4	5.31	117.9	30.76	12.66
111	2008	118	2115	47.58	83.8	4.895	116	29.59	12.65

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	118	2130	47.64	83.9	5.187	120.1	30.29	12.64
111	2008	118	2145	47.71	83.8	4.816	122.2	27.55	12.63
111	2008	118	2200	47.71	84.1	4.706	123.8	29.85	12.63
111	2008	118	2215	47.61	84.5	5.467	125.3	25.12	12.63
111	2008	118	2230	47.54	84.6	5.157	123.7	31.77	12.62
111	2008	118	2245	47.35	85.1	5.532	128.7	21.73	12.61
111	2008	118	2300	47.47	85.5	3.64	138.8	32.56	12.6
111	2008	118	2315	47.33	85.6	5.435	125.1	27.51	12.6
111	2008	118	2330	47.12	85.8	5.951	128.2	23.24	12.6
111	2008	118	2345	47	86.2	6.035	136.2	25.21	12.58
111	2008	118	2400	46.92	87.4	5.475	131.8	26.91	12.58
111	2008	119	15	46.63	87.8	5.421	138.3	28.1	12.57
111	2008	119	30	46.44	88.4	4.986	120.3	27.21	12.56
111	2008	119	45	46.48	88	4.548	129.7	29.61	12.55
111	2008	119	100	46.39	88.3	5.199	131.5	24.57	12.54
111	2008	119	115	46.37	88.9	5.268	132.4	24.65	12.52
111	2008	119	130	46.4	89.2	5.53	128.4	25.16	12.52
111	2008	119	145	46.41	89.2	5.923	141.5	28.54	12.51
111	2008	119	200	46.46	89.1	5.642	127.1	26.86	12.5
111	2008	119	215	46.47	89.2	4.774	130.9	26.86	12.49
111	2008	119	230	46.51	89.3	5.473	136.7	25.03	12.47
111	2008	119	245	46.57	89.2	4.831	125.2	27.61	12.47
111	2008	119	300	46.56	89.8	5.248	109.7	30.66	12.46
111	2008	119	315	46.55	90.5	4.478	111	33.83	12.45
111	2008	119	330	46.38	91.2	5.439	110.2	30.87	12.44
111	2008	119	345	46.35	91.6	5.475	123.2	26.86	12.44
111	2008	119	400	46.35	92.3	5.296	118.6	24.18	12.44
111	2008	119	415	46.47	92.8	4.005	125.1	27.12	12.44
111	2008	119	430	46.6	93.3	4.599	122.6	33.48	12.43
111	2008	119	445	46.76	93.5	4.49	106.5	34.72	12.44
111	2008	119	500	46.82	93.7	4.208	108.4	36.54	12.44
111	2008	119	515	46.73	93.7	4.458	92.1	29.62	12.43
111	2008	119	530	46.75	93.9	4.635	94.1	36.74	12.43
111	2008	119	545	46.78	93.9	4.577	108.1	34.14	12.44
111	2008	119	600	46.83	94.2	4.692	96.8	36.8	12.43
111	2008	119	615	47.12	94.2	5.431	106.8	39.54	12.43
111	2008	119	630	47.49	94.1	6.509	114	33.8	12.43
111	2008	119	645	47.91	94.1	6.251	107.5	35.83	12.43
111	2008	119	700	48.31	93.8	7.63	116.5	34.75	12.43
111	2008	119	715	48.4	93.6	7.16	116	38.23	12.43
111	2008	119	730	48.33	93.5	6.746	123.1	32.8	12.43
111	2008	119	745	48.23	93.8	7.61	121.4	30.99	12.44
111	2008	119	800	48.28	93.9	7.51	123.8	28.69	12.43
111	2008	119	815	48.42	94.1	7.24	127.2	33.14	12.44
111	2008	119	830	48.6	94.4	7.97	130.5	29.68	12.44
111	2008	119	845	48.77	94.5	8.19	133.1	28.56	12.44
111	2008	119	900	48.98	94.7	8.24	124.4	28.77	12.43
111	2008	119	915	49.16	95.1	7.48	133.9	36.17	12.44
111	2008	119	930	49.41	95.2	6.557	125.7	31.43	12.44
111	2008	119	945	49.48	95.4	7.39	127.9	34.47	12.44
111	2008	119	1000	49.42	95.6	6.531	134.1	25.19	12.44
111	2008	119	1015	49.76	95.7	7.36	136.7	31.49	12.44
111	2008	119	1030	49.68	95.9	6.317	141.9	34.08	12.44
111	2008	119	1045	50.16	96	5.755	140.1	27.92	12.44
111	2008	119	1100	51.18	96.1	4.113	144.5	30.76	12.44
111	2008	119	1115	52.03	96.1	6.352	177.3	28.9	12.44
111	2008	119	1130	52.6	96.2	5.212	180.8	30.62	12.44
111	2008	119	1145	53.07	96.2	5.155	190.4	28.3	12.45
111	2008	119	1200	53.43	96.3	6.11	209.6	29.16	12.45
111	2008	119	1215	53.42	96.3	4.869	205.1	32.44	12.49

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	119	1230	53.57	96.3	6.247	207.7	24.32	12.5
111	2008	119	1245	53.82	96.3	6.203	214.9	26.61	12.52
111	2008	119	1300	54.06	96.3	5.483	218.9	28.7	12.5
111	2008	119	1315	54.03	96.4	4.611	220	30.76	12.46
111	2008	119	1330	53.91	96.3	3.368	220.2	40.26	12.46
111	2008	119	1345	54.43	96.5	3.581	227.5	32.04	12.48
111	2008	119	1400	54.51	96.4	3.09	215.5	41.21	12.46
111	2008	119	1415	54.33	96.5	3.42	209.3	27.03	12.46
111	2008	119	1430	54.27	96.4	3.843	219.5	30.84	12.46
111	2008	119	1445	54.11	96.5	4.458	218	29.48	12.47
111	2008	119	1500	54.02	96.5	5.125	222.2	26.91	12.46
111	2008	119	1515	54.47	96.5	4.976	231.5	30.82	12.46
111	2008	119	1530	54.77	96.6	5.546	236.5	27.06	12.46
111	2008	119	1545	55.56	96.6	4.863	230.8	33.78	12.48
111	2008	119	1600	55.7	96.5	4.909	225.7	30.2	12.46
111	2008	119	1615	55.55	96.6	6.15	216.9	26.42	12.46
111	2008	119	1630	55.42	96.6	6.581	215.3	26.17	12.46
111	2008	119	1645	54.94	96.5	6.497	210.4	24.58	12.46
111	2008	119	1700	54.64	96.6	6.106	199	28.79	12.46
111	2008	119	1715	54.59	96.6	5.429	202.5	26.04	12.46
111	2008	119	1730	54.86	96.6	6.07	203.1	28.55	12.46
111	2008	119	1745	54.83	96.7	6.162	202.5	31.26	12.45
111	2008	119	1800	54.48	96.7	7.05	207.5	31.89	12.46
111	2008	119	1815	54.69	96.7	6.884	206.2	30.83	12.46
111	2008	119	1830	55.01	96.7	5.864	205.5	37.83	12.46
111	2008	119	1845	55.13	96.7	7.14	209.8	27.27	12.45
111	2008	119	1900	55.08	96.7	7.39	219.1	25.78	12.45
111	2008	119	1915	54.9	96.7	6.072	217.2	26.4	12.45
111	2008	119	1930	54.58	96.7	6.021	213.3	27.8	12.45
111	2008	119	1945	54.15	96.5	5.995	209.2	29.93	12.44
111	2008	119	2000	53.85	96.3	6.491	196.2	29.39	12.44
111	2008	119	2015	53.47	96.3	6.122	190.6	27.01	12.44
111	2008	119	2030	53.46	96.3	7.08	209.8	25.63	12.44
111	2008	119	2045	53.63	96.3	6.924	217.1	26.76	12.44
111	2008	119	2100	54	96.3	7.61	241.5	23.21	12.44
111	2008	119	2115	54.2	96.2	7.06	236.4	23.49	12.44
111	2008	119	2130	53.92	95.8	6.694	233.2	29.7	12.44
111	2008	119	2145	53.45	95.9	5.896	244.3	22.37	12.44
111	2008	119	2200	53.63	95.9	5.282	249.9	26.65	12.43
111	2008	119	2215	53.72	95.9	3.979	229.5	30.27	12.44
111	2008	119	2230	53.66	95.9	4.021	227	31.41	12.43
111	2008	119	2245	53.52	96.2	5.159	225.2	28.2	12.43
111	2008	119	2300	53.48	96.2	4.375	225.6	36.2	12.43
111	2008	119	2315	53.18	96.1	4.728	222.2	39.42	12.43
111	2008	119	2330	53.15	96.2	5.429	256.9	37.02	12.43
111	2008	119	2345	53.09	96.2	6.126	262	26.38	12.43
111	2008	119	2400	52.99	96.2	5.115	258.2	24.92	12.43
111	2008	120	15	53.12	96.2	4.43	266.2	23.16	12.43
111	2008	120	30	53.4	96.3	5.405	268.9	18.27	12.42
111	2008	120	45	53.54	96.3	5.433	268.9	20.41	12.43
111	2008	120	100	53.41	96.2	4.405	285.8	18.58	12.42
111	2008	120	115	53.54	96.2	3.08	279.5	28.49	12.42
111	2008	120	130	53.91	96.3	3.277	260.9	24.33	12.42
111	2008	120	145	53.88	96.2	2.276	242.7	24.69	12.42
111	2008	120	200	53.72	96.2	3.05	214.4	33.3	12.42
111	2008	120	215	53.55	96.2	3.37	210.2	34.27	12.42
111	2008	120	230	53.8	96.3	2.115	274.2	26.18	12.42
111	2008	120	245	54.33	96.3	1.989	268.4	35.22	12.42
111	2008	120	300	54.65	96.3	3.172	260.3	24.28	12.42
111	2008	120	315	54.66	96.4	4.242	295.9	23.96	12.42

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	120	330	54.32	96.3	3.853	285.1	19.25	12.42
111	2008	120	345	54.1	96.3	1.841	286.7	12.45	12.42
111	2008	120	400	54.05	96.3	0.974	289.3	9.55	12.42
111	2008	120	415	54.06	96.4	2.443	311	21.92	12.42
111	2008	120	430	54.13	96.4	1.683	314.8	32.45	12.42
111	2008	120	445	54.17	96.4	0.522	295.6	14.79	12.42
111	2008	120	500	54.15	96.4	0.612	97	16.26	12.42
111	2008	120	515	54.16	96.3	1.399	299.4	24.28	12.42
111	2008	120	530	54.16	96.5	2.703	318.6	19.45	12.42
111	2008	120	545	54.22	96.3	3.932	325	22.51	12.42
111	2008	120	600	54.17	96.1	3.138	331.9	22.95	12.41
111	2008	120	615	53.89	95.5	4.041	352.1	23.51	12.41
111	2008	120	630	53.62	95.3	3.642	354.2	18.37	12.41
111	2008	120	645	53.46	95.1	3.864	5.191	20	12.4
111	2008	120	700	53.58	94.4	3.452	356	22.34	12.4
111	2008	120	715	53.23	94.5	3.988	348.9	22.13	12.41
111	2008	120	730	53.18	94.2	4.198	331.5	18.02	12.41
111	2008	120	745	52.56	93	6.289	338.5	21.59	12.4
111	2008	120	800	51.67	92.8	6.845	353.6	19.82	12.4
111	2008	120	815	50.47	88.8	7.94	2.956	25.37	12.4
111	2008	120	830	49.63	88.2	5.914	10.19	24.26	12.42
111	2008	120	845	49.47	88.9	4.839	329.9	26.94	12.4
111	2008	120	900	48.98	90.4	6.335	347.8	19.9	12.39
111	2008	120	915	47.8	91.6	7.45	354.9	19.25	12.48
111	2008	120	930	47.61	91.5	6.503	354.4	28.12	12.44
111	2008	120	945	47.71	90.9	6.043	12.13	27.41	12.48
111	2008	120	1000	47.94	90.9	5.81	2.701	28.09	12.6
111	2008	120	1015	47.82	90.3	7.18	15.12	27.82	12.64
111	2008	120	1030	47.88	88.9	8.09	16.58	27.23	12.82
111	2008	120	1045	47.43	87.3	6.769	11.87	26.45	12.76
111	2008	120	1100	47.02	89	5.181	27.02	28.12	12.71
111	2008	120	1115	46.95	89.8	5.679	6.168	23.91	12.76
111	2008	120	1130	46.99	89.3	6.728	12.92	28.24	12.78
111	2008	120	1145	47.11	88.1	7.1	6.441	22.31	12.9
111	2008	120	1200	47.43	87.8	7.2	354.9	24.63	13
111	2008	120	1215	47.68	86.4	6.259	340.4	20.85	12.93
111	2008	120	1230	47.64	82	8.3	338.9	23.67	12.79
111	2008	120	1245	47.54	83.3	6.466	351	19.7	12.72
111	2008	120	1300	47.65	81.1	7.36	352.1	24.8	12.76
111	2008	120	1315	47.33	86.6	8.03	349.2	21.83	12.8
111	2008	120	1330	47.38	87.8	5.914	344.5	25.2	13.08
111	2008	120	1345	47.76	87.5	6.666	333.7	19.27	12.96
111	2008	120	1400	47.59	83.4	8.02	344.3	23.86	12.98
111	2008	120	1415	47.27	83.1	8.86	339	22.39	12.98
111	2008	120	1430	47.02	82.1	9.38	340	21.96	12.94
111	2008	120	1445	46.93	84	7.66	346.8	21.45	13.05
111	2008	120	1500	47.82	81.4	7.44	355.1	22.54	13.54
111	2008	120	1515	49.17	74.1	8.26	343.2	25.36	13.04
111	2008	120	1530	51.14	66.94	8.58	350.8	19.68	12.96
111	2008	120	1545	52.3	66.8	7.46	354.1	29.25	12.93
111	2008	120	1600	53.38	63.35	7.98	352.4	20.37	12.91
111	2008	120	1615	54.12	58.17	8.17	353.7	24.46	12.88
111	2008	120	1630	55.02	54.11	7.78	352.3	22.98	12.87
111	2008	120	1645	55.94	50.82	7.47	346	22.05	12.85
111	2008	120	1700	56.36	47.41	8.59	352.7	24.68	12.84
111	2008	120	1715	56.69	46.74	7.83	6.085	30.47	12.82
111	2008	120	1730	56.93	43.63	8.81	347.1	23.55	12.79
111	2008	120	1745	57.17	41.75	8.23	352.2	23.55	12.77
111	2008	120	1800	57.56	41.62	6.783	351.4	28.01	12.76
111	2008	120	1815	57.3	40.68	8.15	350.9	24.21	12.74

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	120	1830	56.91	41.08	7.97	337.4	21.11	12.71
111	2008	120	1845	56.37	41.12	7.77	335.5	24.14	12.7
111	2008	120	1900	55.53	43.43	8.32	339.5	20.03	12.68
111	2008	120	1915	54.8	41.32	7.69	330.6	22.69	12.66
111	2008	120	1930	54.14	41.22	7.65	343.9	20.2	12.65
111	2008	120	1945	53.51	41.8	6.95	343.7	21.52	12.63
111	2008	120	2000	53	43.27	6.436	338.2	23.64	12.62
111	2008	120	2015	52.3	45.78	5.078	339.4	17.98	12.6
111	2008	120	2030	51.77	44.65	5.356	335.3	20.8	12.58
111	2008	120	2045	51.53	43.24	5.598	336.2	21.3	12.57
111	2008	120	2100	50.97	39.93	5.713	350.5	19.57	12.56
111	2008	120	2115	50.79	33.37	6.922	345	26.15	12.54
111	2008	120	2130	50.53	32.4	7.46	0.622	20.94	12.53
111	2008	120	2145	50.01	34.15	6.793	0.249	30.79	12.52
111	2008	120	2200	49.42	35.72	5.528	352.7	30.7	12.5
111	2008	120	2215	48.9	37.9	5.302	353.3	21.52	12.5
111	2008	120	2230	48.42	40.14	4.446	344.8	21.38	12.48
111	2008	120	2245	47.89	41.65	3.864	347.6	19.42	12.46
111	2008	120	2300	47.41	44.02	2.977	345.6	16.5	12.45
111	2008	120	2315	46.53	45.56	2.475	345.4	18.94	12.44
111	2008	120	2330	46.23	45.5	2.999	349.4	24.11	12.43
111	2008	120	2345	46.19	45.97	2.772	348	19.31	12.42
111	2008	120	2400	45.8	47.28	1.867	3.478	25.11	12.41
111	2008	121	15	45.15	48.99	1.869	356.5	24.55	12.4
111	2008	121	30	44.62	48.99	1.843	349.2	13.81	12.39
111	2008	121	45	43.98	51.77	1.298	342.5	13.26	12.38
111	2008	121	100	43.22	55.86	0.693	346.2	14.63	12.36
111	2008	121	115	42.55	55.99	0.96	325	15.52	12.36
111	2008	121	130	42.2	58.98	0.43	334.4	10.92	12.34
111	2008	121	145	41.6	60.68	0.73	329.3	11.41	12.35
111	2008	121	200	40.75	61.89	0.162	345.1	7.85	12.33
111	2008	121	215	40.05	71.5	0	0	0	12.33
111	2008	121	230	38.9	73.1	0.247	309.9	3.291	12.32
111	2008	121	245	38.81	72.1	0.982	305.5	9.92	12.32
111	2008	121	300	39.25	65.59	1.721	314.2	12.86	12.31
111	2008	121	315	39.59	63.48	1.944	328.6	12.96	12.31
111	2008	121	330	40.06	60.87	2.147	331.3	15.3	12.31
111	2008	121	345	40.31	66.76	1.682	316.1	16.83	12.31
111	2008	121	400	38.57	71.3	1.603	301.6	14.98	12.31
111	2008	121	415	38.44	68.51	2.361	293.4	22.61	12.31
111	2008	121	430	37.73	73.4	1.083	261.2	7.35	12.3
111	2008	121	445	36.65	77.9	0.217	295.4	8.31	12.3
111	2008	121	500	36.39	78.9	0.4	294.9	5.15	12.3
111	2008	121	515	36.07	79.9	1.117	290.7	10.21	12.29
111	2008	121	530	36.63	77.5	2.518	283.8	9.85	12.29
111	2008	121	545	38.19	68.41	3.22	303.6	13.82	12.29
111	2008	121	600	39.58	67.54	3.66	307.6	14.08	12.29
111	2008	121	615	39.46	66.3	2.663	319.3	17.15	12.29
111	2008	121	630	39.44	66.2	2.737	325.7	18.06	12.32
111	2008	121	645	39.81	64.48	3.245	323.7	18.08	12.42
111	2008	121	700	40.87	61.36	4.049	322.3	17.67	13.03
111	2008	121	715	42.07	57.84	4.686	329.5	20.29	13.69
111	2008	121	730	43.06	55.9	4.768	329.3	26.79	13.35
111	2008	121	745	44.1	53.51	4.698	339	26.21	13.65
111	2008	121	800	44.76	52.57	4.428	347.6	23.4	13.64
111	2008	121	815	45.3	50.02	6.013	342.5	23.87	13.61
111	2008	121	830	45.88	47.04	5.882	349.9	26.81	13.6
111	2008	121	845	46.47	46	6.787	339.6	23.81	13.58
111	2008	121	900	46.64	48.11	6.618	336.4	28.61	13.56
111	2008	121	915	47.28	47.06	5.612	350.4	34.6	13.54

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	121	930	47.52	42.77	6.551	342.8	29.65	13.54
111	2008	121	945	48.01	43.68	6.078	1.024	27.62	13.53
111	2008	121	1000	48.42	42.27	7.01	350.2	24.2	13.52
111	2008	121	1015	48.68	42.4	7.18	4.814	25.82	13.51
111	2008	121	1030	48.49	41.37	7.71	359	30.64	13.51
111	2008	121	1045	48.83	42.77	7.01	338.5	32.84	13.5
111	2008	121	1100	49.11	41.43	6.738	330.8	32.93	13.49
111	2008	121	1115	49.44	39.12	6.422	352.2	34.61	13.48
111	2008	121	1130	49.75	38.72	8.28	331.4	30.59	13.48
111	2008	121	1145	50.56	34.44	7.52	320.4	27.6	13.47
111	2008	121	1200	50.27	32.26	7.92	342.8	27.41	13.48
111	2008	121	1215	50.75	32.6	6.863	336	31.67	13.47
111	2008	121	1230	50.75	31.73	8.78	346.6	27	13.47
111	2008	121	1245	50.92	32.03	7.66	354.7	23.29	13.48
111	2008	121	1300	51.13	30.99	7.72	333.2	32.92	13.48
111	2008	121	1315	51.93	30.29	7.81	330.2	32.3	13.46
111	2008	121	1330	52.31	29.25	9.01	316.1	27.76	13.45
111	2008	121	1345	52.56	31.28	9.96	343.1	25.22	13.44
111	2008	121	1400	52.52	29.58	9.16	306.8	29.62	13.29
111	2008	121	1415	52.94	27.17	8.82	348.4	23.94	13.19
111	2008	121	1430	53.32	28.17	9.21	314	25.53	13.23
111	2008	121	1445	53.88	24.76	7.43	335.2	35.05	13.24
111	2008	121	1500	54.18	23.95	8.79	336	26.4	13.17
111	2008	121	1515	53.59	25.59	8.23	317	35.78	13.13
111	2008	121	1530	54.39	25.89	7.98	331	30.24	13.11
111	2008	121	1545	54.73	24.39	8.51	324.4	32	13.03
111	2008	121	1600	54.18	24.32	8.6	331.6	28.71	13.06
111	2008	121	1615	55.12	23.72	6.422	338.4	35.15	13.07
111	2008	121	1630	54.69	23.52	7.18	1.014	29.02	13.07
111	2008	121	1645	54.49	24.66	7.91	17.51	27.34	12.97
111	2008	121	1700	54.82	23.62	6.084	9.96	30.43	12.98
111	2008	121	1715	55.16	23.49	5.993	15.62	30.21	12.95
111	2008	121	1730	54.6	24.86	7.73	14.91	31.36	12.93
111	2008	121	1745	54.48	23.99	5.922	23.02	37.09	12.88
111	2008	121	1800	54.24	23.55	5.387	356.4	25.74	12.85
111	2008	121	1815	54.03	23.65	5.906	14.78	35.84	12.81
111	2008	121	1830	53.5	25.39	5.906	4.132	29.68	12.79
111	2008	121	1845	53.56	25.76	4.831	12.47	26	12.76
111	2008	121	1900	52.94	26.27	5.959	6.402	27.72	12.74
111	2008	121	1915	52.27	26.5	5.28	16.06	26.72	12.72
111	2008	121	1930	51.68	28.04	4.277	7.66	21.29	12.71
111	2008	121	1945	51.04	28.78	3.446	9.77	29.86	12.7
111	2008	121	2000	50.39	30.35	2.778	0.968	31.13	12.68
111	2008	121	2015	49.76	32.4	1.479	11.43	26.42	12.68
111	2008	121	2030	49.13	32.94	0.81	20.95	24.49	12.66
111	2008	121	2045	48.31	33.85	0.648	342.1	24.75	12.66
111	2008	121	2100	48.04	36.22	1.162	306.5	18.33	12.64
111	2008	121	2115	47.51	41.85	0.381	318.1	7.94	12.63
111	2008	121	2130	45.94	44.3	na	na	na	12.63
111	2008	121	2145	44.49	49.52	0.079	259.6	2.414	12.62
111	2008	121	2200	43.59	52.04	0.018	284.6	0.187	12.61
111	2008	121	2215	43.08	53.48	0.31	352.2	6.514	12.6
111	2008	121	2230	42.47	56.16	0.094	339.2	2.66	12.59
111	2008	121	2245	41.86	61.12	0.038	347.3	3.005	12.57
111	2008	121	2300	41.25	62.96	na	na	na	12.57
111	2008	121	2315	41.35	64.27	0.058	4.509	2.585	12.57
111	2008	121	2330	40.77	63.87	na	na	na	12.56
111	2008	121	2345	39.95	64.88	na	na	na	12.55
111	2008	121	2400	40.06	65.45	na	na	na	12.55
111	2008	122	15	39.74	68.37	na	na	na	12.54

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	122	30	39.18	69.58	na	na	na	12.53
111	2008	122	45	38.28	72.8	na	na	na	12.52
111	2008	122	100	38.39	72.3	na	na	na	12.52
111	2008	122	115	38.34	73.1	na	na	na	12.51
111	2008	122	130	37.62	76.6	na	na	na	12.51
111	2008	122	145	36.99	78.2	na	na	na	12.5
111	2008	122	200	36.59	79	na	na	na	12.5
111	2008	122	215	35.94	80	na	na	na	12.5
111	2008	122	230	35.75	80.2	0.018	11.58	1.151	12.49
111	2008	122	245	35.7	81.3	na	na	na	12.49
111	2008	122	300	35.01	82.9	na	na	na	12.48
111	2008	122	315	35.01	82.8	na	na	na	12.48
111	2008	122	330	34.94	83.3	na	na	na	12.48
111	2008	122	345	34.83	83.3	na	na	na	12.48
111	2008	122	400	34.75	83.2	na	na	na	12.47
111	2008	122	415	34.56	83.6	na	na	na	12.47
111	2008	122	430	34.45	83.8	na	na	na	12.46
111	2008	122	445	34.24	84.3	na	na	na	12.47
111	2008	122	500	34.05	84.9	na	na	na	12.46
111	2008	122	515	33.95	84.9	0.018	27.79	1.44	12.46
111	2008	122	530	33.84	85	0.127	22.26	4.847	12.45
111	2008	122	545	34.18	84.6	0.018	26.73	0.82	12.45
111	2008	122	600	34.96	83.3	0.038	359.2	6.313	12.45
111	2008	122	615	35.22	83.3	0.294	17.33	9.61	12.46
111	2008	122	630	35.5	81.8	0.271	351.1	10.79	12.48
111	2008	122	645	36.85	80	0.009	333.1	0.004	12.58
111	2008	122	700	38.89	70.5	0.536	33.77	12.08	13.82
111	2008	122	715	41.54	60.57	0.394	27.09	17.7	13.78
111	2008	122	730	44.09	54.1	0.372	28.42	19.7	13.67
111	2008	122	745	46.84	49.67	0.211	55.07	28.41	13.72
111	2008	122	800	49.25	41.59	1.633	129.5	32.96	13.69
111	2008	122	815	49.61	41.28	3.962	149.7	22.49	13.64
111	2008	122	830	50.35	40.24	3.177	154.5	33.54	13.62
111	2008	122	845	50.72	33.17	3.173	180.5	33.26	13.58
111	2008	122	900	50.98	32.63	3.65	178.2	32.5	13.57
111	2008	122	915	51.24	31.29	4.486	173.4	37.01	13.55
111	2008	122	930	51.47	32.93	4.293	178.4	30.05	13.54
111	2008	122	945	51.26	35.27	5.038	193.4	33.44	13.52
111	2008	122	1000	50.87	33.33	4.998	197.5	31.28	13.51
111	2008	122	1015	51.25	36.91	5.636	202.7	26.87	13.49
111	2008	122	1030	51.4	32.19	5.534	190.5	24.86	13.49
111	2008	122	1045	51.35	34.56	5.971	195.3	27.37	13.48
111	2008	122	1100	51.2	33.66	5.993	170.1	31.69	13.48
111	2008	122	1115	52.05	36.6	6.468	171	30.86	13.48
111	2008	122	1130	52.62	36.77	5.542	170.9	33.4	13.46
111	2008	122	1145	51.58	36.74	5.695	186.5	27.37	13.45
111	2008	122	1200	52.12	33.06	6.239	180.3	27.19	13.45
111	2008	122	1215	51.95	32.35	6.35	193.3	27.16	13.45
111	2008	122	1230	51.65	36.5	7.16	194.2	23.27	13.44
111	2008	122	1245	52.3	37.5	6.652	188.8	27.01	13.44
111	2008	122	1300	52.11	38.14	6.781	181.8	24.5	13.43
111	2008	122	1315	52.74	38.57	6.376	184.7	27.04	13.43
111	2008	122	1330	52.68	37.54	6.956	180.7	28.62	13.43
111	2008	122	1345	52.77	36.27	7.47	173	24.32	13.43
111	2008	122	1400	52.33	40.28	7.15	182.2	24.08	13.43
111	2008	122	1415	52.55	40.88	7.2	193.2	28.47	13.42
111	2008	122	1430	52.55	41.12	7.26	203.5	29.72	13.42
111	2008	122	1445	53	45.94	6.946	184.2	29.09	13.42
111	2008	122	1500	52.59	42.92	7.14	183.6	26.49	13.42
111	2008	122	1515	52.29	45.03	7.41	176	28.35	13.43

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	122	1530	52.53	45.7	7.36	173.7	17.14	13.43
111	2008	122	1545	52.13	49.11	7.2	178.7	28.98	13.36
111	2008	122	1600	52.29	48.71	5.949	191.8	31.07	13.43
111	2008	122	1615	52.42	50.65	6.934	172.1	22.35	13.43
111	2008	122	1630	52.54	51.19	6.521	176.2	23.67	13.21
111	2008	122	1645	52.19	53.56	6.698	189.9	30.93	13.21
111	2008	122	1700	51.77	57.51	6.39	198.9	29.95	13.14
111	2008	122	1715	50.88	59.82	5.955	196.9	29.89	13.19
111	2008	122	1730	50.88	60.6	5.433	191.5	25.41	13.11
111	2008	122	1745	50.47	63.88	5.542	191.9	25.07	12.94
111	2008	122	1800	50.53	64.52	5.352	191.4	28	12.86
111	2008	122	1815	50.39	66.3	5.268	198.9	28.48	12.79
111	2008	122	1830	50.26	67.64	4.78	188.4	26.21	12.74
111	2008	122	1845	50.19	69.98	5.391	192.3	26.84	12.72
111	2008	122	1900	50.11	72.6	5.076	187.9	22.97	12.71
111	2008	122	1915	50.09	73.9	5.024	191.5	21.09	12.7
111	2008	122	1930	50.09	74.8	4.387	187.9	25.44	12.68
111	2008	122	1945	50.08	75.5	4.272	181.4	22.65	12.68
111	2008	122	2000	50.1	75.3	3.817	207.5	22.59	12.66
111	2008	122	2015	50.37	74.3	3.481	199.9	25.99	12.66
111	2008	122	2030	50.15	80.1	3.642	198	24.78	12.66
111	2008	122	2045	49.6	83.6	2.759	212.2	33.45	12.64
111	2008	122	2100	49.2	85.2	3.525	219.8	26.06	12.64
111	2008	122	2115	49.18	86.1	2.957	230	33.32	12.63
111	2008	122	2130	49.24	86.6	3.662	234.6	25.74	12.63
111	2008	122	2145	49.07	88.6	3.575	242.3	23.25	12.63
111	2008	122	2200	48.84	89.8	3.257	230.3	24.88	12.62
111	2008	122	2215	48.82	90.5	4.075	214.7	25.27	12.62
111	2008	122	2230	48.84	91	3.434	210.3	29.95	12.61
111	2008	122	2245	48.98	91.5	2.454	205.2	34.86	12.6
111	2008	122	2300	49.37	91.3	2.411	198.5	26.72	12.6
111	2008	122	2315	49.72	91.1	3.185	204.4	24.74	12.6
111	2008	122	2330	49.98	90.3	3.203	195.1	31.93	12.6
111	2008	122	2345	50.17	89.5	3.314	187.1	26.07	12.6
111	2008	122	2400	50.27	89.4	3.931	196.2	31.48	12.59
111	2008	123	15	50.31	89.5	3.074	191.5	30.2	12.59
111	2008	123	30	50.34	89.6	2.209	207.9	41.89	12.58
111	2008	123	45	50.42	89.9	3.05	187	26.97	12.58
111	2008	123	100	50.55	90.1	2.687	160	23.72	12.58
111	2008	123	115	50.64	90	3.197	146.9	27.36	12.52
111	2008	123	130	50.9	89.5	1.904	105.6	43.41	12.52
111	2008	123	145	51.3	88.5	2.543	137.9	47.24	12.46
111	2008	123	200	51.34	87.8	3.289	157	33.11	12.58
111	2008	123	215	51.82	84.8	2.557	122.8	68.01	12.58
111	2008	123	230	51.74	87.6	2.07	73.9	33.75	12.42
111	2008	123	245	51.07	89.6	2.778	115.4	53.63	12.47
111	2008	123	300	50.9	89.6	3.37	120.5	37.08	12.58
111	2008	123	315	50.83	88	5.634	156.2	20.9	12.47
111	2008	123	330	50.19	91.1	7.01	176.9	22.96	12.55
111	2008	123	345	49.74	92.7	6.146	143.9	29.82	12.57
111	2008	123	400	50.07	92.6	6.027	148.1	30.76	12.57
111	2008	123	415	50.42	91.3	5.266	138.7	26.17	12.56
111	2008	123	430	50.44	90.6	4.982	148.4	25.09	12.56
111	2008	123	445	50.61	89.8	4.482	142.1	25.49	12.45
111	2008	123	500	50.64	90.1	3.469	136.4	29.93	12.56
111	2008	123	515	50.69	90	4.003	139.5	23.22	12.55
111	2008	123	530	50.69	90.1	3.43	116.7	31.79	12.55
111	2008	123	545	50.59	90.4	4.057	128.6	26.36	12.55
111	2008	123	600	50.58	90.7	3.473	134.1	28.27	12.55
111	2008	123	615	50.58	90.9	3.833	133	26.74	12.54

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	123	630	50.64	90.8	4.345	122	25.87	12.46
111	2008	123	645	50.75	90.9	3.086	118.5	30.36	12.45
111	2008	123	700	50.89	91.2	2.921	119.3	29.43	12.57
111	2008	123	715	51.35	90.9	2.911	99.1	36.58	12.56
111	2008	123	730	51.83	90.2	3.773	118.2	22.81	12.6
111	2008	123	745	52.24	89.6	3.346	137.6	30.35	12.79
111	2008	123	800	52.64	88.8	3.336	130	32.51	12.82
111	2008	123	815	52.94	88	2.843	118.9	34.42	12.89
111	2008	123	830	53.19	87	4.111	97.4	36.52	12.92
111	2008	123	845	53.45	86.3	4.194	89.7	34.9	12.87
111	2008	123	900	53.99	85.4	4.424	83.5	33.63	13.04
111	2008	123	915	54.14	85.2	4.486	88.2	30.68	13.06
111	2008	123	930	54.7	84.9	4.49	83.7	33.42	13.51
111	2008	123	945	55.4	83.2	4.146	95.3	38.98	13.48
111	2008	123	1000	55.49	82.5	4.23	76.7	31.72	13.49
111	2008	123	1015	55.92	82.2	3.835	82.9	33.5	13.48
111	2008	123	1030	55.95	81.5	4.45	92	36.66	13.49
111	2008	123	1045	56.05	81.6	4.577	79.2	23.11	13.48
111	2008	123	1100	56.31	80.1	4.667	85.6	36.64	13.48
111	2008	123	1115	56.19	82.2	4.635	70	32.65	13.31
111	2008	123	1130	56.25	81	4.569	74.8	31.73	13.48
111	2008	123	1145	56.72	79.3	4.861	76.2	30.71	13.47
111	2008	123	1200	57.13	78.4	3.976	64.47	40.73	13.46
111	2008	123	1215	57.16	78.8	4.532	77	28.61	13.45
111	2008	123	1230	57.19	78.7	4.508	47.58	29.72	13.45
111	2008	123	1245	57.44	78.5	4.095	57.25	31	13.44
111	2008	123	1300	57.41	78.5	4.549	55.38	33.34	13.43
111	2008	123	1315	57.43	78.5	4.478	68.94	30.82	13.43
111	2008	123	1330	57.85	76.1	3.894	80.3	35.4	13.43
111	2008	123	1345	57.96	77.3	3.835	62.14	39.44	13.43
111	2008	123	1400	57.94	75.9	3.001	76.3	41.47	13.43
111	2008	123	1415	57.84	77.2	3.596	60.51	26.09	13.43
111	2008	123	1430	57.16	78.9	4.774	70.2	33.72	13.45
111	2008	123	1445	56.7	79.6	4.831	79.1	24.18	13.19
111	2008	123	1500	56.23	80.5	4.619	71.4	32.61	13.1
111	2008	123	1515	56.54	79.7	3.583	78.5	33.63	13.46
111	2008	123	1530	56.31	80.1	3.692	90	40.49	13.46
111	2008	123	1545	56.43	78.9	4.16	84.3	39.71	13.46
111	2008	123	1600	56.08	79.2	4.746	96.9	32.32	13.43
111	2008	123	1615	55.73	81	4.41	80.5	29.45	12.95
111	2008	123	1630	55.52	81.3	3.918	85.2	30.59	12.97
111	2008	123	1645	55.17	81.4	3.982	67.24	25.44	12.87
111	2008	123	1700	54.46	82.8	5.364	75.9	26.8	12.81
111	2008	123	1715	53.87	84.6	5.064	80.9	31.27	12.77
111	2008	123	1730	53.39	85.7	5.205	77.4	26.16	12.74
111	2008	123	1745	53.07	85.8	4.683	76.9	24.42	12.73
111	2008	123	1800	52.65	86.8	5.324	84.3	28.91	12.72
111	2008	123	1815	51.89	87.7	5.56	81.2	30.35	12.71
111	2008	123	1830	51.58	88.4	5.435	83.2	25.51	12.7
111	2008	123	1845	51.29	89.1	4.605	80.2	29.5	12.69
111	2008	123	1900	51.18	89.4	4.683	91.8	34.2	12.68
111	2008	123	1915	50.83	90	4.673	73.2	26.86	12.68
111	2008	123	1930	50.47	90.8	4.194	77.7	28.81	12.67
111	2008	123	1945	50.34	91	3.217	83.5	30.3	12.67
111	2008	123	2000	50.16	91.4	5.221	97.5	33.35	12.66
111	2008	123	2015	49.98	91.3	4.468	90.4	35.15	12.66
111	2008	123	2030	49.73	91.6	4.939	112.1	36.42	12.66
111	2008	123	2045	49.48	91.7	5.05	88.1	28.82	12.65
111	2008	123	2100	49.3	92.2	4.661	89.9	31.5	12.64
111	2008	123	2115	49.19	92.7	3.662	96.2	34.87	12.63

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	123	2130	49.04	92.7	4.667	93.9	30.95	12.63
111	2008	123	2145	48.7	92.9	4.407	92.5	33.39	12.63
111	2008	123	2200	48.51	93.1	4.325	86.7	32.61	12.62
111	2008	123	2215	48.52	93.2	4.202	86.4	33.76	12.62
111	2008	123	2230	48.41	93.3	4.347	89.7	34.62	12.6
111	2008	123	2245	48.34	93.5	4.138	96.4	35.45	12.6
111	2008	123	2300	48.3	93.6	4.226	97.4	32.67	12.6
111	2008	123	2315	48.25	93.7	4.772	97.3	33.87	12.6
111	2008	123	2330	48.13	93.8	5.199	78.8	25.22	12.59
111	2008	123	2345	48.14	93.8	3.634	74.8	23.84	12.58
111	2008	123	2400	48.08	94.1	4.299	85.5	31.67	12.58
111	2008	124	15	48.11	94.2	3.259	89	35.29	12.57
111	2008	124	30	48.15	94.4	3.656	101.9	37.41	12.57
111	2008	124	45	48.25	94.6	3.618	89.4	32.68	12.56
111	2008	124	100	48.29	94.5	3.902	93.6	41.43	12.56
111	2008	124	115	48.34	94.6	4.442	85.6	27.51	12.55
111	2008	124	130	48.33	94.7	4.492	79.9	28.59	12.55
111	2008	124	145	48.38	94.7	3.942	85.6	26.46	12.55
111	2008	124	200	48.39	94.8	4.482	80.4	21.94	12.55
111	2008	124	215	48.29	94.8	5.058	86.2	25.75	12.54
111	2008	124	230	48.12	94.8	6.12	82.9	21	12.54
111	2008	124	245	48	95	6.325	85.2	24.82	12.54
111	2008	124	300	47.88	94.8	5.578	83.7	26.83	12.54
111	2008	124	315	47.71	94.7	7.41	83.5	27.57	12.52
111	2008	124	330	47.52	94.5	7.44	84	29.73	12.53
111	2008	124	345	47.35	92.8	6.416	84.7	28.64	12.52
111	2008	124	400	47.35	90	5.25	96.5	33.5	12.52
111	2008	124	415	47.52	88	3.847	96.2	31.48	12.52
111	2008	124	430	47.66	86.5	3.577	97	39.47	12.53
111	2008	124	445	47.75	85.3	4.405	87.1	28.85	12.52
111	2008	124	500	47.84	84.7	3.93	83.5	29.94	12.52
111	2008	124	515	47.91	84.2	2.592	85.7	37.94	12.52
111	2008	124	530	48.03	84.1	3.247	88.1	26.75	12.52
111	2008	124	545	48.14	84.2	2.447	82.5	33.19	12.52
111	2008	124	600	48.1	84	2.473	71.7	28.78	12.52
111	2008	124	615	48.02	83.9	2.878	76	29.97	12.52
111	2008	124	630	48.12	83.9	2.772	75.3	30.72	12.52
111	2008	124	645	48.21	84.2	3.459	78.8	22.4	12.52
111	2008	124	700	48.31	85.4	3.575	83.9	31.21	12.52
111	2008	124	715	48.39	86.2	3.253	88.1	33.7	12.52
111	2008	124	730	48.53	86.4	3.509	93.5	29.35	12.52
111	2008	124	745	48.56	86.7	4.649	108.5	41.01	12.52
111	2008	124	800	48.53	86.9	4.321	110.9	34.81	12.55
111	2008	124	815	48.48	87.1	3.831	98.9	41.76	12.57
111	2008	124	830	48.7	86.2	3.684	113.3	37.02	12.59
111	2008	124	845	49.1	84.7	3.906	96.3	40.04	12.69
111	2008	124	900	49.19	83.8	4.482	113.1	37.91	12.85
111	2008	124	915	48.94	83.8	6.456	109	31.6	12.84
111	2008	124	930	49.16	82.1	5.421	90	33.45	12.9
111	2008	124	945	50.13	78.1	4.911	124.5	28.35	13.16
111	2008	124	1000	50.78	75.9	5.679	91	30.69	13.26
111	2008	124	1015	51.62	72.4	5.824	103.1	33.27	13.52
111	2008	124	1030	52.15	72.9	6.914	124.3	28.51	13.51
111	2008	124	1045	52.72	71.4	6.95	105.1	37.96	13.51
111	2008	124	1100	52.33	70.9	7.3	115.5	35.18	13.51
111	2008	124	1115	53.16	68.74	6.18	89.4	32.84	13.49
111	2008	124	1130	54.1	67.56	6.71	120.1	34.71	13.48
111	2008	124	1145	54.53	67.08	6.773	107.4	40.38	13.47
111	2008	124	1200	54.34	67.65	6.271	117	37.94	13.46
111	2008	124	1215	54.07	69.19	8.05	111.8	35.3	13.46

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	124	1230	54.09	67.35	7.76	118.2	36.5	13.46
111	2008	124	1245	54.3	68.35	8.1	133.3	28.73	13.46
111	2008	124	1300	54.38	67.35	6.861	123.4	32.01	13.47
111	2008	124	1315	54.35	67.95	6.154	128.2	24.58	13.47
111	2008	124	1330	54.63	67.05	6.513	122.9	35.69	13.47
111	2008	124	1345	53.98	67.08	6.791	123.6	27.09	13.48
111	2008	124	1400	54.2	67.51	6.277	119.6	32.93	13.48
111	2008	124	1415	54.62	69.05	7.12	105.1	33.54	13.48
111	2008	124	1430	54.03	67.88	6.855	131.9	24.73	13.48
111	2008	124	1445	54.2	67.11	6.261	135.3	31.62	13.48
111	2008	124	1500	53.42	68.89	6.761	132	29.06	13.49
111	2008	124	1515	53.05	70.2	6.881	123.6	28.94	13.5
111	2008	124	1530	52.3	72.9	7.4	124.6	25.34	13.51
111	2008	124	1545	52.04	73.7	7.35	118.8	29.91	13.51
111	2008	124	1600	51.45	74.6	6.775	127.6	27.93	13.4
111	2008	124	1615	51.26	75.4	6.974	126.5	32.53	13.26
111	2008	124	1630	51.21	74.3	7.39	124	34.7	13.54
111	2008	124	1645	50.9	75.1	7.37	117.7	30.87	13.08
111	2008	124	1700	50.58	74.7	7.67	117.3	29.85	13
111	2008	124	1715	50.85	74	6.666	117.9	27.79	12.94
111	2008	124	1730	50.33	76.6	7.73	111.3	34.33	12.82
111	2008	124	1745	49.43	78.1	7.58	123.1	31.68	12.77
111	2008	124	1800	48.98	78.8	7.15	110.8	31.28	12.74
111	2008	124	1815	48.71	79.5	7.74	114.5	29.73	12.72
111	2008	124	1830	48.62	78.7	6.879	106.8	34.66	12.71
111	2008	124	1845	48.55	78.2	7.09	99.9	31.7	12.7
111	2008	124	1900	48.53	79	7.57	120.9	29.7	12.69
111	2008	124	1915	48.42	80	6.751	111.6	33.34	12.69
111	2008	124	1930	48.1	81.7	6.108	114	31.78	12.68
111	2008	124	1945	47.88	84.4	6.811	114.2	34.55	12.67
111	2008	124	2000	47.57	86.1	6.152	103.6	32.84	12.66
111	2008	124	2015	47.38	88.1	6.084	103.9	36.93	12.66
111	2008	124	2030	47.23	89.1	6.084	96.3	38.96	12.66
111	2008	124	2045	47.37	89.7	5.769	88.6	33.84	12.66
111	2008	124	2100	47.44	90.3	6.394	102.2	37.09	12.65
111	2008	124	2115	47.29	91.3	4.98	96.7	30.98	12.64
111	2008	124	2130	47.21	92	5.646	95.4	30.28	12.64
111	2008	124	2145	47.35	91.9	4.953	81.4	29.21	12.63
111	2008	124	2200	47.58	91.7	5.131	101.6	30.53	12.63
111	2008	124	2215	47.77	91.8	5.636	114.5	32.4	12.63
111	2008	124	2230	47.98	92.1	5.086	104.6	36.96	12.62
111	2008	124	2245	48.17	92.3	5.594	106.1	32.51	12.62
111	2008	124	2300	48.15	92.3	5.906	93.9	32.07	12.61
111	2008	124	2315	48.13	92.5	4.625	100.4	42.74	12.6
111	2008	124	2330	48.29	92.2	4.297	93.5	30.01	12.61
111	2008	124	2345	48.38	91.9	5.096	86.3	26.24	12.6
111	2008	124	2400	48.58	91.9	5.054	87	31.73	12.6
111	2008	125	15	48.86	91.9	4.329	111.6	38.76	12.59
111	2008	125	30	49.22	92.1	5.143	115.4	29.46	12.59
111	2008	125	45	49.34	93.5	5.52	116.9	30.13	12.59
111	2008	125	100	49.39	94.1	5.135	126.8	28.82	12.58
111	2008	125	115	49.51	94.5	5.163	118.8	29.48	12.58
111	2008	125	130	49.64	94.8	4.436	116.7	39.12	12.57
111	2008	125	145	49.81	95.2	4.289	117	29.05	12.57
111	2008	125	200	49.91	95.3	4.478	113.8	32.58	12.56
111	2008	125	215	50.02	95.5	4.017	98.3	35.87	12.56
111	2008	125	230	50.17	95.6	3.565	101.9	40.16	12.56
111	2008	125	245	50.31	95.7	1.933	92.7	50.14	12.56
111	2008	125	300	50.41	95.9	2.013	67.62	37.74	12.55
111	2008	125	315	50.58	96	2.032	98.5	31.65	12.54

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	125	330	50.84	95.9	2.28	79.8	29.38	12.54
111	2008	125	345	51	96	1.56	74.9	22.75	12.54
111	2008	125	400	51.21	96.1	2.22	72.9	27.89	12.54
111	2008	125	415	51.21	96.1	2.273	80.5	28.44	12.53
111	2008	125	430	51.24	96.1	2.108	49.19	35.81	12.53
111	2008	125	445	51.24	96.2	2.611	6.369	39.93	12.52
111	2008	125	500	51.21	96.2	2.824	12.3	23.33	12.52
111	2008	125	515	50.79	96.1	2.89	32.69	23.74	12.53
111	2008	125	530	50.57	96.3	2.566	41.09	33.49	12.52
111	2008	125	545	50.19	96.3	2.784	32.98	32.21	12.52
111	2008	125	600	49.94	96.3	2.815	54.62	36.83	12.52
111	2008	125	615	49.74	96.2	2.606	48.04	30.46	12.52
111	2008	125	630	49.8	96.5	2.556	27.21	28.64	12.51
111	2008	125	645	49.82	96.4	2.928	22.06	29.6	12.51
111	2008	125	700	49.84	96.5	3.463	24.53	30.87	12.51
111	2008	125	715	49.88	96.5	3.225	25.05	22.46	12.51
111	2008	125	730	49.88	96.6	3.92	21.84	26.27	12.52
111	2008	125	745	50.09	96.6	3.763	25.15	25.72	12.58
111	2008	125	800	50.31	96.6	4.077	24.17	26.79	12.58
111	2008	125	815	50.3	96.5	5.117	24.15	23.43	12.58
111	2008	125	830	50.17	96.5	5.199	18.4	27.01	12.64
111	2008	125	845	50.38	96.6	4.422	27.78	27.53	12.7
111	2008	125	900	50.12	96.2	5.576	31.84	33.8	12.9
111	2008	125	915	49.86	96.3	4.653	40.18	31.98	12.93
111	2008	125	930	49.9	96.1	6.327	37.08	26.97	13.16
111	2008	125	945	50.35	95.6	5.526	27.17	32.15	13.35
111	2008	125	1000	50.85	94.9	5.024	28.46	30.01	13.52
111	2008	125	1015	51.17	94	5.054	31.02	29.68	13.51
111	2008	125	1030	51.8	92.3	5.326	28.38	32.87	13.51
111	2008	125	1045	52.79	90.2	4.766	20.79	34.72	13.51
111	2008	125	1100	53.07	87.9	5.425	15.59	30.46	13.5
111	2008	125	1115	53.63	84.8	5.096	11.1	23.69	13.48
111	2008	125	1130	54.52	83	5.153	4.75	26.81	13.48
111	2008	125	1145	55.57	80.5	5.395	16.7	31.45	13.45
111	2008	125	1200	57.46	75.5	5.902	28.55	29.12	13.43
111	2008	125	1215	58.65	73.6	6.335	3.809	27.01	13.42
111	2008	125	1230	58.82	72.8	6.847	3.799	27.61	13.41
111	2008	125	1245	59.71	72.2	6.563	4.144	26.72	13.41
111	2008	125	1300	60.21	70.4	7.18	15.25	25.7	13.39
111	2008	125	1315	61.55	66.22	5.896	18.13	36.67	13.38
111	2008	125	1330	62.64	65.32	5.499	358.3	32.84	13.36
111	2008	125	1345	63.74	63.51	5.489	3.521	32.56	13.36
111	2008	125	1400	65.34	60.64	4.7	19.18	40.61	13.35
111	2008	125	1415	65.61	58.19	4.54	355.4	38.39	13.33
111	2008	125	1430	66.93	56.18	3.703	34.65	49.77	13.19
111	2008	125	1445	67.59	51.46	4.458	26.16	44.1	13.28
111	2008	125	1500	67.69	52.49	5.409	2.918	27.87	13.13
111	2008	125	1515	67.41	62.79	4.698	7.19	93.3	13.08
111	2008	125	1530	63.54	64.79	5.26	219.6	26.32	13.05
111	2008	125	1545	64.7	63.36	4.289	194.6	30.75	13.09
111	2008	125	1600	64.18	66.27	5.016	221	39.76	13.02
111	2008	125	1615	62.85	66.67	5.753	196.8	27.26	13.05
111	2008	125	1630	62.49	67.17	5.612	227.1	26.55	13.02
111	2008	125	1645	62.29	66.54	5.413	220.4	28.85	12.99
111	2008	125	1700	63.13	65.34	4.583	212.7	35.33	12.95
111	2008	125	1715	63.48	63.74	4.192	214.5	29.1	12.92
111	2008	125	1730	62.76	65.25	4.825	221.1	27.8	12.9
111	2008	125	1745	62.41	66.82	4.279	217.5	32.48	12.88
111	2008	125	1800	62.3	65.02	4.214	208	24.59	12.87
111	2008	125	1815	61.58	67.06	4.722	233.6	20.71	12.83

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	125	1830	61.21	68.86	2.983	226.8	27.43	12.79
111	2008	125	1845	60.2	70.8	1.872	245.1	19.14	12.77
111	2008	125	1900	60.36	70.9	1.904	185.3	30.36	12.75
111	2008	125	1915	59.52	76.9	2.32	141.2	24.7	12.75
111	2008	125	1930	58.35	77.2	0.622	236.4	28.04	12.73
111	2008	125	1945	58.17	75.9	0.964	193	30.96	12.73
111	2008	125	2000	58.47	74.1	1.189	112	26.04	12.71
111	2008	125	2015	58.57	74.2	0.921	88.5	35.19	12.71
111	2008	125	2030	58.63	74	0.359	69.04	22.28	12.7
111	2008	125	2045	58.49	76.3	0.029	11.02	14.47	12.69
111	2008	125	2100	57.3	79.5	0.009	248.6	0.009	12.69
111	2008	125	2115	56.81	81.1	na	na	na	12.67
111	2008	125	2130	56.27	82.5	na	na	na	12.67
111	2008	125	2145	55.83	83.3	na	na	na	12.66
111	2008	125	2200	55.77	84.4	0.06	27.97	4.623	12.66
111	2008	125	2215	55.97	84.4	na	na	na	12.65
111	2008	125	2230	55.84	84.8	na	na	na	12.65
111	2008	125	2245	55.59	85.2	na	na	na	12.63
111	2008	125	2300	55.07	86.3	na	na	na	12.63
111	2008	125	2315	54.31	87.4	na	na	na	12.63
111	2008	125	2330	53.65	88.6	na	na	na	12.62
111	2008	125	2345	53.28	89.4	na	na	na	12.62
111	2008	125	2400	53.05	90.5	0.664	82.9	40.7	12.6
111	2008	126	15	53.76	90.5	1.347	124.3	28.9	12.6
111	2008	126	30	53.83	90	1.896	137.9	24.42	12.6
111	2008	126	45	53.27	90.3	1.282	89.8	38.99	12.59
111	2008	126	100	52.99	90.2	1.231	70.9	23.41	12.59
111	2008	126	115	52.61	90.5	1.396	32.91	19.02	12.58
111	2008	126	130	52.22	90.6	0.289	44.05	11.18	12.58
111	2008	126	145	51.65	91	na	na	na	12.57
111	2008	126	200	51.12	91.7	0.976	49.79	25.18	12.56
111	2008	126	215	51.07	91.5	0.811	45.47	23.48	12.55
111	2008	126	230	50.72	91.2	0.356	28.27	13.26	12.55
111	2008	126	245	50.36	90.5	na	na	na	12.54
111	2008	126	300	49.96	90.2	na	na	na	12.54
111	2008	126	315	49.4	90.1	na	na	na	12.53
111	2008	126	330	48.81	90.3	0.5	25.38	9.64	12.52
111	2008	126	345	48.68	88.6	1.549	25.11	29.17	12.51
111	2008	126	400	48.67	87.1	0.051	5.394	14.13	12.51
111	2008	126	415	48.11	87.1	0.598	38.43	18.38	12.5
111	2008	126	430	47.66	85.5	1.595	42.21	30.07	12.5
111	2008	126	445	47.72	77.9	2.481	47.76	31.41	12.5
111	2008	126	500	47.93	74.5	1.918	24.74	25.45	12.48
111	2008	126	515	47.98	73.5	1.711	344	27.62	12.48
111	2008	126	530	47.57	71.8	1.349	342.7	36.96	12.48
111	2008	126	545	47.89	66.66	1.25	34.88	31.89	12.47
111	2008	126	600	47.91	65.22	0.682	50.01	27.69	12.47
111	2008	126	615	48.47	65.39	0.437	340.9	21.27	12.47
111	2008	126	630	49.55	63.85	0.676	22.45	10.91	12.53
111	2008	126	645	48.83	61.2	2.254	28.69	22.17	12.62
111	2008	126	700	49.94	58.89	2.878	34.84	32.81	13.62
111	2008	126	715	50.94	54.97	3.503	45.33	34.67	13.61
111	2008	126	730	51.79	50.45	4.216	49.91	41.72	13.59
111	2008	126	745	52.55	44.21	4.452	45.04	36.35	13.58
111	2008	126	800	53.24	40.33	4.978	60.76	42.92	13.56
111	2008	126	815	53.88	38.86	6.519	49.73	41.67	13.55
111	2008	126	830	54.25	37.81	7.11	53.99	38.28	13.52
111	2008	126	845	54.89	34.1	6.539	59.69	38.03	13.52
111	2008	126	900	55.43	34.56	6.908	64.98	39.73	13.51
111	2008	126	915	55.5	34.66	6.797	44.3	43.23	13.48

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	126	930	56.28	35.76	5.757	39.34	33.57	13.47
111	2008	126	945	56.43	37.24	6.342	30	31.8	13.45
111	2008	126	1000	56.94	35.97	5.854	32.89	25.91	13.4
111	2008	126	1015	57.29	35.76	5.028	42.73	46.25	13.41
111	2008	126	1030	57.77	34.73	5.147	26.82	37.63	13.41
111	2008	126	1045	58.42	32.68	3.686	38.85	41.88	13.41
111	2008	126	1100	59.07	35.36	3.827	44.17	50.45	13.4
111	2008	126	1115	59.81	30.71	4.379	71.3	31.74	13.38
111	2008	126	1130	60.44	31.31	3.898	32.6	54.5	13.37
111	2008	126	1145	61.08	29.03	4.762	16.76	32.94	13.36
111	2008	126	1200	61.29	28.43	4.587	20.67	38.69	13.36
111	2008	126	1215	62.01	27.56	4.688	17.01	45.05	13.34
111	2008	126	1230	62.76	30.13	4.756	24.22	45.27	13.35
111	2008	126	1245	63.24	28.29	4.043	45.63	44.44	13.32
111	2008	126	1300	63.63	26.29	4.24	63.84	46.74	13.32
111	2008	126	1315	64.21	27.12	3.678	78.6	38.56	13.31
111	2008	126	1330	63.79	37.02	6.325	228	68.87	13.29
111	2008	126	1345	61.23	42.54	6.785	214.7	28.4	13.3
111	2008	126	1400	60.61	44.98	6.378	229.6	26.88	13.3
111	2008	126	1415	60.68	37.76	6.251	248.5	30.22	13.3
111	2008	126	1430	60.55	33.38	6.313	237.9	25.72	13.31
111	2008	126	1445	60.74	37.66	6.005	228.9	28.12	13.29
111	2008	126	1500	60.68	41.2	5.703	229.1	34.89	13.09
111	2008	126	1515	60.13	43.31	6.636	207.9	28.98	13.07
111	2008	126	1530	58.59	41.51	6.98	213.6	31.37	13.07
111	2008	126	1545	59.1	37.53	6.059	229.9	29.16	13.05
111	2008	126	1600	59.18	38.76	5.616	209.4	32.06	13.04
111	2008	126	1615	59	46.56	5.495	209.4	29.19	13.04
111	2008	126	1630	57.73	43.68	6.176	204	28.82	13.05
111	2008	126	1645	58.15	53.51	5.409	200.6	28.37	13.16
111	2008	126	1700	58.04	49.1	5.179	197.2	31.82	13.33
111	2008	126	1715	57.69	47.66	5.115	202.8	30.57	13.26
111	2008	126	1730	57.29	46.49	4.553	223	28.19	13.33
111	2008	126	1745	57.22	48.17	5.147	222.5	26.18	13.19
111	2008	126	1800	57.14	49.31	5.284	252.5	25.09	13.09
111	2008	126	1815	56.13	50.48	5.985	262.5	21.19	12.97
111	2008	126	1830	55.11	49.88	5.022	247.4	28.14	12.87
111	2008	126	1845	55.17	53.9	3.491	248.1	31.04	12.79
111	2008	126	1900	54.9	55.34	4.327	250.8	22.41	12.74
111	2008	126	1915	54.2	55.57	3.644	238.3	22.16	12.71
111	2008	126	1930	53.89	56.05	2.999	236.1	22.22	12.7
111	2008	126	1945	53.66	58	2.443	238.7	21.83	12.68
111	2008	126	2000	53.29	61.14	1.887	247.7	19.08	12.67
111	2008	126	2015	52.93	64.12	2.287	247.9	19.82	12.66
111	2008	126	2030	52.6	64.66	2.431	241.6	24.46	12.65
111	2008	126	2045	52.27	67.14	2.568	245.5	17.99	12.64
111	2008	126	2100	51.89	69.48	1.53	242.8	18.5	12.63
111	2008	126	2115	51.87	66.93	2.721	260.1	19.14	12.63
111	2008	126	2130	51.73	65.73	1.753	250.9	19.54	12.62
111	2008	126	2145	51.74	66.37	1.909	252.9	17.48	12.61
111	2008	126	2200	51.47	68.85	1.638	254	14.59	12.6
111	2008	126	2215	51.39	67.92	1.692	265.6	18.04	12.6
111	2008	126	2230	51.18	68.99	0.911	266.6	9.18	12.58
111	2008	126	2245	50.51	70.8	0.118	260	3.44	12.59
111	2008	126	2300	50.21	70.3	0.252	269.3	11.32	12.58
111	2008	126	2315	50.39	69.2	0.518	180.8	10.18	12.58
111	2008	126	2330	50.16	72.9	na	na	na	12.58
111	2008	126	2345	49.17	73.6	0.05	212	2.563	12.57
111	2008	126	2400	49.07	74.3	0.076	263.1	2.166	12.56
111	2008	127	15	48.85	75.4	0.011	55.34	0	12.56

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	127	30	48.72	76.3	na	na	na	12.55
111	2008	127	45	48.39	78.6	na	na	na	12.55
111	2008	127	100	47.89	80.9	0.027	303.2	0.23	12.54
111	2008	127	115	47.58	81.8	na	na	na	12.53
111	2008	127	130	47.09	83.9	na	na	na	12.52
111	2008	127	145	46.82	85.5	na	na	na	12.52
111	2008	127	200	46.72	85.9	na	na	na	12.52
111	2008	127	215	46.24	87.5	na	na	na	12.52
111	2008	127	230	46.41	88.3	0.073	47.8	3.043	12.51
111	2008	127	245	46.37	89	0.611	53.27	3.882	12.5
111	2008	127	300	46.27	88.9	0.018	349.4	0.791	12.5
111	2008	127	315	46.06	89	na	na	na	12.5
111	2008	127	330	45.93	89.1	na	na	na	12.49
111	2008	127	345	45.95	89.7	0.809	138.5	21.96	12.48
111	2008	127	400	46.38	89.2	1.256	346.4	7.24	12.48
111	2008	127	415	45.8	89.7	0.395	16.9	8.3	12.48
111	2008	127	430	45.56	89.9	0.049	77.4	4.484	12.48
111	2008	127	445	45.23	90.5	na	na	na	12.46
111	2008	127	500	44.91	90.7	na	na	na	12.46
111	2008	127	515	44.4	90.9	na	na	na	12.46
111	2008	127	530	44.01	91.6	0.545	334.4	35.66	12.45
111	2008	127	545	44.03	91.9	0.234	0.279	8.3	12.44
111	2008	127	600	44.49	92.1	0.509	345.9	11.07	12.44
111	2008	127	615	45.62	89.3	0.486	311.3	8.67	12.44
111	2008	127	630	45.56	90.3	0.555	352.6	29.03	12.48
111	2008	127	645	46.22	90.3	0.826	26.51	20.39	12.61
111	2008	127	700	48.1	88.9	0.497	353.7	16.78	13.63
111	2008	127	715	50.16	85.1	0.266	283.4	7.81	13.61
111	2008	127	730	51.21	83.5	0.918	308.8	10.73	13.59
111	2008	127	745	52.66	76.3	2.422	349.6	19.01	13.58
111	2008	127	800	54.22	71.5	2.604	351.2	15.54	13.56
111	2008	127	815	56.27	63.82	1.737	354.1	34.14	13.52
111	2008	127	830	58.07	59.1	2.1	4.29	38.22	13.49
111	2008	127	845	58.79	54.17	2.305	358.7	29.72	13.47
111	2008	127	900	60.4	51.72	3.577	6.58	25.04	13.46
111	2008	127	915	62.19	48.71	3.61	25.94	31.17	13.42
111	2008	127	930	63.44	46.73	3.16	11.2	30.41	13.4
111	2008	127	945	64.93	38.86	3.082	19.75	50.32	13.38
111	2008	127	1000	66.68	35.89	2.989	19.84	31.37	13.36
111	2008	127	1015	68.03	31.61	2.685	51.45	43.25	13.34
111	2008	127	1030	68.96	26.75	2.61	24.69	65.8	13.32
111	2008	127	1045	69.4	28.09	2.529	29.87	79.6	13.3
111	2008	127	1100	70.1	24.14	2.258	309.6	79.7	13.29
111	2008	127	1115	71.5	23.91	2.41	34.03	73.5	13.27
111	2008	127	1130	71.2	32.3	3.692	218.9	33.48	13.26
111	2008	127	1145	70.2	37.08	4.607	196.5	29.39	13.26
111	2008	127	1200	69.97	39.55	5.328	201.6	32.75	13.26
111	2008	127	1215	70.1	40.69	5.26	229.3	30.01	13.25
111	2008	127	1230	69.86	34.8	6.265	203.9	31.4	13.25
111	2008	127	1245	69.5	32.56	5.197	205.5	32.54	13.21
111	2008	127	1300	69.51	28.99	6.394	228.4	31.45	13.26
111	2008	127	1315	68.96	33.2	6.392	225.7	25.98	13.25
111	2008	127	1330	69.33	32.6	4.915	222.6	38.92	13.15
111	2008	127	1345	69.87	29.99	6.273	243.4	30.55	13.24
111	2008	127	1400	69.5	33.87	6.74	236.7	28.96	13.24
111	2008	127	1415	69.33	32.83	5.88	222	29.53	13.24
111	2008	127	1430	68.97	34.1	6.738	242	27.88	13.24
111	2008	127	1445	68.61	34.6	6.247	228.7	33.25	13.2
111	2008	127	1500	69.07	37.98	5.344	237.2	28.25	13.2
111	2008	127	1515	68.88	35.27	6.414	234.6	30.73	13.18

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	127	1530	68.32	35.27	6.503	241.3	24.86	13.16
111	2008	127	1545	67.95	31.9	6.233	232.9	27.11	13.05
111	2008	127	1600	68.14	33.43	6.102	241.5	27.38	13.05
111	2008	127	1615	68.22	31.93	7.07	260.8	19.48	13.13
111	2008	127	1630	67.14	36.31	6.579	256.2	20.38	13.15
111	2008	127	1645	65.26	41.26	5.62	255.7	22.42	12.88
111	2008	127	1700	64.71	40.16	4.383	274.9	29.17	12.84
111	2008	127	1715	65.07	38.63	3.062	262.7	45.5	12.91
111	2008	127	1730	65.73	39.63	4.496	244.2	20.95	12.94
111	2008	127	1745	66.05	36.99	4.774	240.1	28.37	12.91
111	2008	127	1800	65.58	41.64	4.317	222.8	27.19	12.84
111	2008	127	1815	64.56	45.88	5.812	238.2	28.11	12.85
111	2008	127	1830	63.82	49.5	7.09	260.1	18.98	12.89
111	2008	127	1845	63.11	54.38	6.66	263.9	17.7	12.82
111	2008	127	1900	62.16	55.12	6.36	269.5	18.65	12.76
111	2008	127	1915	61.74	50.67	4.972	272.3	20.15	12.73
111	2008	127	1930	61.79	49.5	5.495	279.7	16.02	12.72
111	2008	127	1945	61.41	49.71	4.262	272.3	16.63	12.71
111	2008	127	2000	61.3	49.75	2.587	286.1	26.5	12.7
111	2008	127	2015	60.78	52.46	2.073	277.1	16.94	12.68
111	2008	127	2030	60.34	53.9	1.351	284.7	18.5	12.68
111	2008	127	2045	59.67	54.9	1.271	277.6	14.4	12.67
111	2008	127	2100	59.55	55.04	2.731	276.6	12.3	12.66
111	2008	127	2115	59.85	56.11	2.88	276.3	15.09	12.66
111	2008	127	2130	59.85	56.78	1.947	296.7	21.02	12.66
111	2008	127	2145	59.56	60.09	1.259	291.5	11.7	12.65
111	2008	127	2200	58.27	63.71	0.009	309.3	0	12.64
111	2008	127	2215	57.36	60.24	0.12	300	17.77	12.64
111	2008	127	2230	57.46	63.55	0.33	354.1	4.877	12.62
111	2008	127	2245	56.25	68.2	0.118	287.1	3.465	12.62
111	2008	127	2300	55.29	68.04	0.156	353.7	1.931	12.61
111	2008	127	2315	54.65	70.4	na	na	na	12.6
111	2008	127	2330	53.76	74.1	na	na	na	12.6
111	2008	127	2345	53.39	74.3	na	na	na	12.59
111	2008	127	2400	53.52	73.9	0.955	39.72	9.78	12.58
111	2008	128	15	54.28	68.37	2.386	23.68	25.16	12.58
111	2008	128	30	54.45	70.3	0.229	227.6	20.6	12.57
111	2008	128	45	53.47	72	0.379	2.983	5.127	12.56
111	2008	128	100	52.8	75.1	0.219	347.3	6.274	12.56
111	2008	128	115	51.97	76.9	0.539	352.4	12.81	12.56
111	2008	128	130	51.71	75.5	0.009	126.5	0	12.56
111	2008	128	145	51.73	78.3	na	na	na	12.55
111	2008	128	200	51.28	76.1	0.396	333.5	5.171	12.55
111	2008	128	215	51.31	75.6	0.175	357.7	1.853	12.54
111	2008	128	230	51.31	78.1	0.018	348.5	1.107	12.53
111	2008	128	245	51.06	76.3	na	na	na	12.53
111	2008	128	300	51.74	73.6	0.069	346.9	1.267	12.52
111	2008	128	315	52.95	63.44	0.493	59.65	30.39	12.52
111	2008	128	330	54.38	67.65	0.513	305.7	4.066	12.52
111	2008	128	345	53.7	72.8	na	na	na	12.52
111	2008	128	400	52.47	75.1	na	na	na	12.51
111	2008	128	415	51.6	75.8	na	na	na	12.51
111	2008	128	430	50.65	77.2	na	na	na	12.5
111	2008	128	445	50.08	76.4	na	na	na	12.5
111	2008	128	500	49.77	77.2	na	na	na	12.49
111	2008	128	515	49.45	78.1	na	na	na	12.49
111	2008	128	530	49.01	80.1	na	na	na	12.48
111	2008	128	545	49.2	76.8	0.667	290.2	7.25	12.48
111	2008	128	600	49.7	75.7	0.792	288.8	7.81	12.48
111	2008	128	615	50.09	75.6	0.836	290.5	11.09	12.47

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	128	630	50.83	73.5	0.341	307.7	5.774	12.53
111	2008	128	645	52.18	70.8	0.539	297.3	7.41	12.63
111	2008	128	700	54.13	61.5	0.093	343.2	9.99	13.57
111	2008	128	715	57.14	50.58	0.878	41.26	33.73	13.54
111	2008	128	730	59.49	50.04	1.521	157.6	44.19	13.52
111	2008	128	745	60.1	42.53	1.265	52.01	36.52	13.49
111	2008	128	800	61.72	39.98	3.845	66.77	36.88	13.46
111	2008	128	815	62.46	39.65	3.853	49.55	29.25	13.45
111	2008	128	830	62.83	38.11	4.254	32.44	35.92	13.43
111	2008	128	845	63.58	36.89	3.912	46.5	42.37	13.41
111	2008	128	900	64.23	35.59	3.561	28.4	33.22	13.39
111	2008	128	915	64.09	35.45	3.884	6.056	29.15	13.37
111	2008	128	930	65.2	35.92	3.279	32.9	44.91	13.37
111	2008	128	945	66.35	32.91	3.219	46.02	44.97	13.35
111	2008	128	1000	66.65	35.35	3.227	103.5	85.9	13.34
111	2008	128	1015	66.73	41.53	3.835	174.2	35.28	13.32
111	2008	128	1030	65.97	40.86	4.551	180	26.26	13.32
111	2008	128	1045	65.97	42.36	5.574	177.3	19.43	13.32
111	2008	128	1100	64.94	38.52	5.238	198.6	27.43	13.31
111	2008	128	1115	64.19	41.73	5.352	210.1	28.7	13.3
111	2008	128	1130	63.92	38.59	5.062	200.6	33.59	13.31
111	2008	128	1145	64.75	39.83	5.145	206.1	28.01	13.31
111	2008	128	1200	64.33	39.83	6.628	199.5	30.86	13.3
111	2008	128	1215	64.83	38.39	6.16	200.1	28.79	13.3
111	2008	128	1230	64.31	41.1	6.269	218.4	30.79	13.3
111	2008	128	1245	65.05	39.53	6.102	223.9	28.04	13.3
111	2008	128	1300	65.48	38.06	6.448	210.1	36.66	13.3
111	2008	128	1315	64.99	38.66	6.664	209.6	26.47	13.29
111	2008	128	1330	65.73	39.82	6.38	187.5	30.06	13.29
111	2008	128	1345	65.67	38.55	6.194	198.6	34.77	13.29
111	2008	128	1400	66.27	35.91	6.561	238.5	29.81	13.28
111	2008	128	1415	65.79	38.18	6.057	234.5	30.77	13.29
111	2008	128	1430	65.18	38.95	7.55	233.4	24.83	13.28
111	2008	128	1445	65.87	35.91	6.535	237.4	25.55	13.28
111	2008	128	1500	65.81	37.21	6.94	215.3	26.75	13.27
111	2008	128	1515	66.3	33.13	5.918	227.3	28.99	13.26
111	2008	128	1530	66.36	35.27	6.132	211.1	33.65	13.12
111	2008	128	1545	65.78	34.2	6.922	223.7	31.01	13.1
111	2008	128	1600	65.51	36.94	6.076	223.2	28.18	13.08
111	2008	128	1615	64.67	35.58	5.914	228.9	33.17	13.22
111	2008	128	1630	64.72	33.94	5.667	233.5	28.57	13.29
111	2008	128	1645	64.75	32.9	6.547	209.1	24.06	13.28
111	2008	128	1700	64.4	34.64	6.086	212.8	33.44	13.15
111	2008	128	1715	64.4	34.78	5.84	236.4	34.88	13.03
111	2008	128	1730	64.27	36.69	5.977	240.3	34.39	12.9
111	2008	128	1745	62.96	41.1	6.628	234.7	26.95	12.89
111	2008	128	1800	62.36	43.28	5.532	226.5	38.23	12.84
111	2008	128	1815	61.82	46.89	6.36	222.2	26.97	12.84
111	2008	128	1830	60.7	49.93	5.661	207.7	28.16	12.8
111	2008	128	1845	59.45	54.05	5.741	209.6	27.15	12.77
111	2008	128	1900	58.91	59.81	4.734	206.5	30.97	12.73
111	2008	128	1915	58.51	64.53	5.084	202.5	29.86	12.72
111	2008	128	1930	57.93	66.58	5.57	202.7	27.01	12.71
111	2008	128	1945	57.62	68.85	4.823	198.4	29.65	12.69
111	2008	128	2000	57.45	71.1	4.996	209.8	30.16	12.68
111	2008	128	2015	57.59	73.8	4.951	226.1	23.6	12.67
111	2008	128	2030	57.44	75.1	4.365	207.3	30.85	12.66
111	2008	128	2045	57.71	76.4	3.017	223.8	31.32	12.65
111	2008	128	2100	57.66	77.1	3.606	227.8	43.5	12.65
111	2008	128	2115	57.46	78.1	4.073	245.4	31.36	12.66

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	128	2130	57.18	77	4.82	236.9	24.73	12.64
111	2008	128	2145	57.25	77.3	5.483	250.7	20.99	12.63
111	2008	128	2200	57.12	77.4	5.542	257.6	23.33	12.63
111	2008	128	2215	57.76	74.6	5.705	253.1	25.4	12.63
111	2008	128	2230	58.92	72.7	6.684	247	25.68	12.62
111	2008	128	2245	59.54	73.6	8.2	256.9	22.8	12.63
111	2008	128	2300	59.05	75.3	7.52	256.2	22.97	12.63
111	2008	128	2315	58.71	75.4	7.77	254.1	23.89	12.62
111	2008	128	2330	58.6	75.4	7.01	256.9	24.93	12.61
111	2008	128	2345	58.81	75.2	7.48	254.4	24.7	12.61
111	2008	128	2400	59.09	75.2	6.871	258.5	27.51	12.62
111	2008	129	15	59.38	74.4	7.63	260.5	21.2	12.61
111	2008	129	30	59.39	73.9	7.32	256.1	27.93	12.61
111	2008	129	45	59.48	72.7	6.368	255.4	31.41	12.61
111	2008	129	100	59.53	73.7	6.531	253.5	27.98	12.6
111	2008	129	115	59.36	73.4	7.95	249.4	26.39	12.6
111	2008	129	130	59.16	75.1	7.06	259.5	23.16	12.6
111	2008	129	145	58.76	77.3	6.366	269.9	23.28	12.59
111	2008	129	200	58.39	79	6.684	255.2	21.32	12.59
111	2008	129	215	58.25	80.1	6.285	257.2	32.06	12.58
111	2008	129	230	58.38	81.6	5.594	255	31.39	12.57
111	2008	129	245	58.4	82.5	6.688	245.1	29.64	12.57
111	2008	129	300	58.42	82.2	6.795	250.6	29.18	12.57
111	2008	129	315	58.54	82.8	7.5	249.7	29.7	12.56
111	2008	129	330	58.4	82.8	6.674	263.3	28	12.56
111	2008	129	345	58.16	83.8	7.04	249	27.59	12.55
111	2008	129	400	57.74	84.1	5.836	249.3	27.73	12.55
111	2008	129	415	57.98	83	6.122	258.2	27.44	12.55
111	2008	129	430	58.12	84.2	7.19	260	20.99	12.55
111	2008	129	445	57.84	84	7.46	261.5	25.84	12.54
111	2008	129	500	57.92	83.4	8.03	263.7	23.3	12.54
111	2008	129	515	57.94	83.4	7.11	270.1	18.48	12.52
111	2008	129	530	58.05	83.2	7.06	262.5	21.3	12.52
111	2008	129	545	57.94	83.9	7.34	260.3	21.31	12.53
111	2008	129	600	58.06	84.1	6.591	270.2	19.74	12.52
111	2008	129	615	57.92	85	6.388	272.5	17.55	12.52
111	2008	129	630	57.8	86.3	6.311	270.1	22.38	12.51
111	2008	129	645	57.78	87	5.236	265.9	21.57	12.51
111	2008	129	700	58.02	86.3	6.384	263.4	21.57	12.51
111	2008	129	715	58.24	85.8	5.987	264.1	18.57	12.52
111	2008	129	730	58.32	86.5	5.052	267.7	23.03	12.52
111	2008	129	745	58.34	86	5.781	267	25.69	12.52
111	2008	129	800	58.13	87.6	5.848	266.2	19.79	12.52
111	2008	129	815	58.15	88.8	4.436	264.6	19.1	12.52
111	2008	129	830	58.16	89.8	4.482	254.5	23.03	12.56
111	2008	129	845	58.15	90.5	5.072	264.1	22.49	12.61
111	2008	129	900	58.6	90.1	4.333	265.9	22.7	12.7
111	2008	129	915	58.59	90.6	4.161	264.6	21.27	12.87
111	2008	129	930	58.72	90.6	4.129	255.4	24.17	12.85
111	2008	129	945	58.29	91.2	4.615	258.5	25.52	12.85
111	2008	129	1000	58.37	91.2	5.01	262.1	22.35	13.07
111	2008	129	1015	58.88	90.9	6.366	268.8	22.05	13.07
111	2008	129	1030	59.48	91.2	5.447	266.3	22.34	13.05
111	2008	129	1045	60.46	90.1	5.238	278.1	27.99	13.17
111	2008	129	1100	61.17	88.6	5.195	264.1	21.16	13.27
111	2008	129	1115	61.04	88.2	4.835	258.4	23.23	13.33
111	2008	129	1130	61.35	86.3	4.601	258.8	23.38	13.38
111	2008	129	1145	61.86	85.5	5.866	262.6	23.54	13.39
111	2008	129	1200	63.29	82.2	6.013	265	26.38	13.37
111	2008	129	1215	64.06	80.5	5.08	258.8	27.17	13.36

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	129	1230	64.67	79.6	4.407	254.5	25.37	13.35
111	2008	129	1245	64.87	79.6	5.181	257.3	27.87	13.18
111	2008	129	1300	64.75	79.3	3.704	248.1	28.33	13.13
111	2008	129	1315	64.81	77.8	4.338	258.1	26.02	13.13
111	2008	129	1330	65.18	76.1	3.864	256.6	29.7	13.29
111	2008	129	1345	66.93	72.2	5.145	271.9	17.68	13.31
111	2008	129	1400	69.46	64.98	7.2	314.3	29.22	13.32
111	2008	129	1415	70.7	64.04	7.37	310.7	21.35	13.31
111	2008	129	1430	70.6	62.16	8	318.4	18.43	13.31
111	2008	129	1445	70.7	62.49	7.46	300.1	23.16	13.3
111	2008	129	1500	70.9	60.82	8.59	303.2	21.8	13.05
111	2008	129	1515	70.3	62.35	7.18	301.7	18.8	12.92
111	2008	129	1530	69.92	65.5	7.55	291.5	17.7	12.98
111	2008	129	1545	69.71	66.77	7.92	294	16.44	13.31
111	2008	129	1600	69.63	66.87	6.718	294.1	17.13	13.31
111	2008	129	1615	69.69	67.94	5.427	296.7	19.99	13.03
111	2008	129	1630	69.79	69.42	3.964	261.9	31.36	13.31
111	2008	129	1645	70.3	67.64	4.103	256	32.95	13.3
111	2008	129	1700	70.8	63.76	4.877	280.1	26.74	13.27
111	2008	129	1715	71.1	63.89	5.912	281.6	20.59	13.3
111	2008	129	1730	70.7	66.94	5.542	263.4	19.91	13.3
111	2008	129	1745	70.4	67.17	5.61	263.7	18.49	13.05
111	2008	129	1800	69.97	67.2	7.08	274.9	19.73	12.92
111	2008	129	1815	69.57	68.61	6.378	275.9	19.86	12.82
111	2008	129	1830	68.99	69.35	6.342	269.4	21.45	12.79
111	2008	129	1845	69.03	67.72	6.652	275.2	18.38	12.77
111	2008	129	1900	69.22	67.05	7.64	280.4	18.01	12.74
111	2008	129	1915	69.34	67.39	6.793	284.2	12.07	12.73
111	2008	129	1930	69.33	67.06	5.798	283.4	16.39	12.73
111	2008	129	1945	69.17	66.96	4.706	286	15.93	12.73
111	2008	129	2000	68.99	67.02	3.974	278.2	18.16	12.72
111	2008	129	2015	68.95	65.62	4.597	281.8	16.11	12.71
111	2008	129	2030	69.16	64.18	5.582	281.2	14.02	12.71
111	2008	129	2045	68.83	66.19	4.198	274.8	16.55	12.71
111	2008	129	2100	67.99	67.09	3.11	270.3	21.8	12.7
111	2008	129	2115	67.55	68.06	2.588	279.1	17.19	12.69
111	2008	129	2130	67.29	67.29	2.168	326.4	31.54	12.69
111	2008	129	2145	67.68	66.49	2.342	333.3	23.43	12.69
111	2008	129	2200	67.8	56.52	2.694	12.74	27.35	12.68
111	2008	129	2215	68.13	46.96	3.781	1.566	18.91	12.68
111	2008	129	2230	67.48	49.23	2.568	353.1	21.75	12.67
111	2008	129	2245	66.47	50.37	1.492	336.2	15.23	12.67
111	2008	129	2300	65.55	52.47	0.279	337.4	6.789	12.66
111	2008	129	2315	64.88	53.38	0.689	14.38	13.7	12.65
111	2008	129	2330	64.32	50.74	1.498	23.77	19.1	12.65
111	2008	129	2345	64	46.7	2.711	31.18	25.76	12.64
111	2008	129	2400	63.49	47	2.954	41.31	31.25	12.63
111	2008	130	15	62.6	48.28	2.86	43.66	41.36	12.63
111	2008	130	30	61.87	50.22	2.166	37.89	37.19	12.62
111	2008	130	45	61.44	50.18	2.333	41.12	29.71	12.61
111	2008	130	100	61.29	50.22	2.294	37.04	23.24	12.6
111	2008	130	115	61.06	49.92	2.671	24.19	21.42	12.6
111	2008	130	130	60.62	50.18	2.309	44.08	40.82	12.59
111	2008	130	145	60.11	50.89	2.113	55.25	33.13	12.59
111	2008	130	200	59.67	50.35	2.693	74.5	36.55	12.58
111	2008	130	215	59.33	50.49	2.584	62.78	48.76	12.57
111	2008	130	230	59.08	51.59	2.302	49.99	34.53	12.56
111	2008	130	245	58.82	51.89	2.128	52.07	33.44	12.56
111	2008	130	300	58.59	52.12	2.456	36.98	31.72	12.55
111	2008	130	315	58.42	54.9	1.823	39.79	28.7	12.55

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	130	330	57.94	56.57	2.122	68.84	32.77	12.54
111	2008	130	345	57.52	59.18	2.757	50.71	41.93	12.53
111	2008	130	400	56.74	62.06	3.102	71	42.56	12.52
111	2008	130	415	56.19	62.73	3.656	62.5	44.78	12.52
111	2008	130	430	55.71	64.24	3.032	57.42	37.8	12.51
111	2008	130	445	55.3	64.45	3.073	45.39	39.95	12.51
111	2008	130	500	54.98	65.16	3.211	50.8	55.21	12.5
111	2008	130	515	54.61	68.61	3.674	50.86	45.53	12.49
111	2008	130	530	53.69	74.9	3.265	61.04	40.18	12.49
111	2008	130	545	52.43	80.8	3.106	51.38	41.14	12.48
111	2008	130	600	51.69	81.4	2.758	75.4	39.18	12.48
111	2008	130	615	51.54	81.3	4.293	76.7	33.51	12.48
111	2008	130	630	51.49	79.9	6.009	83	28.86	12.47
111	2008	130	645	51.61	78.6	5.26	82	31.29	12.47
111	2008	130	700	51.78	79.5	4.41	71.4	38.21	12.47
111	2008	130	715	51.71	81.1	4.667	71.7	33.56	12.46
111	2008	130	730	51.04	86	4.593	80.7	29.25	12.47
111	2008	130	745	50.42	86.6	6.825	79.1	21.14	12.46
111	2008	130	800	50.26	85.9	6.67	83.6	28.93	12.46
111	2008	130	815	50.42	84.2	6.771	84.9	26.48	12.46
111	2008	130	830	50.75	82.2	6.102	88.3	29.21	12.46
111	2008	130	845	50.92	82.9	5.781	87	30.94	12.46
111	2008	130	900	50.8	84.8	4.589	95.9	37.89	12.46
111	2008	130	915	50.35	87.6	5.276	90.5	34.49	12.46
111	2008	130	930	49.98	88.5	6.221	104.2	40.7	12.46
111	2008	130	945	50.1	87	7.14	118.3	29.12	12.46
111	2008	130	1000	50.16	85.4	8.37	114.1	35.89	12.66
111	2008	130	1015	49.88	85.5	8.65	110.9	33.26	12.74
111	2008	130	1030	49.68	86.4	7.65	109.1	39.03	12.56
111	2008	130	1045	49.53	87.4	7.4	93.7	34.97	12.55
111	2008	130	1100	49.26	86.7	8.3	96.6	38.33	12.5
111	2008	130	1115	49.03	87.9	8.07	90.2	31.79	12.46
111	2008	130	1130	48.88	88.4	7.4	91	36.49	12.46
111	2008	130	1145	48.83	88.9	6.841	89.2	34.14	12.48
111	2008	130	1200	48.68	88.8	7.45	88.7	31.89	12.47
111	2008	130	1215	48.5	88.6	8.72	82	35.24	12.46
111	2008	130	1230	48.33	89.4	6.311	86.1	29.69	12.46
111	2008	130	1245	48.22	89.6	6.74	84.9	34.63	12.47
111	2008	130	1300	48.17	89.8	5.389	76	37.97	12.44
111	2008	130	1315	48.09	90.1	6.603	90.7	26.91	12.44
111	2008	130	1330	47.92	91.2	5.892	78.2	34.04	12.46
111	2008	130	1345	47.88	91.7	6.136	78.4	25.34	12.46
111	2008	130	1400	47.95	92.1	5.616	81	26.18	12.48
111	2008	130	1415	48.06	92.7	7.05	79.2	23.4	12.56
111	2008	130	1430	48.06	93	5.985	80.4	36.68	12.63
111	2008	130	1445	48	93.3	5.427	72	34.35	12.55
111	2008	130	1500	47.97	93.6	5.876	85.1	35.21	12.55
111	2008	130	1515	48.09	93.2	6.545	69.19	29.01	12.66
111	2008	130	1530	48.11	92.6	7.05	78.1	35.86	12.63
111	2008	130	1545	48.1	91.1	8.95	82.7	33.89	12.66
111	2008	130	1600	48.23	89.1	9.67	83	32.6	12.64
111	2008	130	1615	48.29	88	9.73	81.5	27.37	12.61
111	2008	130	1630	48.58	86.8	9.78	80.7	35.19	12.57
111	2008	130	1645	48.86	87.2	8.36	86.3	32.18	12.51
111	2008	130	1700	49.02	88.3	8.92	77.8	39.91	12.48
111	2008	130	1715	48.91	89.3	8.42	74.1	31.4	12.48
111	2008	130	1730	48.71	89.6	8	72.2	41.45	12.47
111	2008	130	1745	48.81	89.1	9.42	77.2	33.44	12.47
111	2008	130	1800	49.18	86.4	9.14	78.6	29.13	12.48
111	2008	130	1815	49.62	85.5	7.28	82.4	44.19	12.48

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	130	1830	49.74	85.7	8.3	70.2	35.55	12.46
111	2008	130	1845	49.62	85.7	7.85	67.87	43.49	12.46
111	2008	130	1900	49.46	84.3	7.15	72.7	44.53	12.46
111	2008	130	1915	49.37	84.8	7.49	60.3	41.75	12.46
111	2008	130	1930	49.07	86.3	7.56	59.27	44.1	12.46
111	2008	130	1945	48.89	85.8	8.29	65.66	35.69	12.47
111	2008	130	2000	48.71	85.2	7.13	59.16	35.36	12.46
111	2008	130	2015	48.39	84.8	7.42	50.75	40.17	12.46
111	2008	130	2030	48.19	85	7.49	56.07	40.07	12.46
111	2008	130	2045	47.91	87.2	6.46	45.13	39.66	12.46
111	2008	130	2100	47.61	87.3	5.785	47.38	40.7	12.46
111	2008	130	2115	47.67	86.2	6.71	60.92	40.69	12.46
111	2008	130	2130	47.62	87.7	6.203	49.24	39.33	12.45
111	2008	130	2145	47.26	89.8	6.325	44.19	34.8	12.45
111	2008	130	2200	47.02	91.1	6.14	39.95	41.08	12.44
111	2008	130	2215	46.87	91.2	6.97	40.25	34.71	12.44
111	2008	130	2230	46.57	91.5	6.458	33.46	31.87	12.44
111	2008	130	2245	46.51	91.8	5.785	30.5	27.03	12.44
111	2008	130	2300	46.51	91.6	6.581	33.03	26.27	12.44
111	2008	130	2315	46.54	91.8	6.156	29.92	22.91	12.44
111	2008	130	2330	46.63	92.2	5.834	29.93	30.87	12.43
111	2008	130	2345	46.77	91.8	6.205	26.41	26.89	12.44
111	2008	130	2400	46.75	91.5	6.597	31	34.07	12.44
111	2008	131	15	46.59	91.7	6.867	35.15	30.57	12.43
111	2008	131	30	46.55	91.7	6.422	36.87	30.54	12.42
111	2008	131	45	46.46	91.2	6.205	30.56	34.46	12.42
111	2008	131	100	46.34	90.3	7.13	38.89	40.7	12.44
111	2008	131	115	46.02	90	6.712	44.35	50.18	12.44
111	2008	131	130	45.7	90.6	6.678	39.8	40.71	12.43
111	2008	131	145	45.57	90.3	6.13	44.9	42.29	12.42
111	2008	131	200	45.62	88.8	6.668	45.52	44.45	12.42
111	2008	131	215	45.66	88.4	7.27	37.87	30.32	12.41
111	2008	131	230	45.6	89.6	6.354	38.29	42.06	12.39
111	2008	131	245	45.44	89.5	5.242	41.95	41.31	12.41
111	2008	131	300	45.6	89.3	5.963	43.77	29.15	12.39
111	2008	131	315	45.42	89.1	7.23	38.4	32.92	12.32
111	2008	131	330	45.34	88.8	6.112	35.22	29.99	12.34
111	2008	131	345	45.38	89	4.855	30.62	30.44	12.31
111	2008	131	400	45.63	87.8	4.216	35.63	36.02	12.35
111	2008	131	415	45.96	86.2	3.815	29	33.15	12.37
111	2008	131	430	46.22	85.3	3.95	15.4	30.8	12.33
111	2008	131	445	46.42	84.4	3.38	44.07	27.74	12.37
111	2008	131	500	46.46	83.6	3.186	49.65	44.97	12.37
111	2008	131	515	46.65	82.8	2.743	32.99	39.59	12.34
111	2008	131	530	46.79	82.6	2.859	27.87	31.85	12.37
111	2008	131	545	46.96	82.6	3.011	17.46	31.74	12.37
111	2008	131	600	47.13	82.1	3.408	13.19	25.45	12.37
111	2008	131	615	47.53	80.9	3.221	9.51	29.86	12.38
111	2008	131	630	47.72	80.7	3.086	16.1	28.21	12.41
111	2008	131	645	48.46	76.8	3.956	27.98	31.52	12.55
111	2008	131	700	49.52	72	5.894	26.71	25.97	13.51
111	2008	131	715	50.46	70.7	4.724	28.83	32.35	13.5
111	2008	131	730	50.7	68.15	4.901	26.28	31.58	13.46
111	2008	131	745	51.49	62.42	5.27	36.09	30.91	13.48
111	2008	131	800	51.97	61.38	6.055	31.75	24.65	13.43
111	2008	131	815	52.61	59.07	5.655	32.65	26.1	13.45
111	2008	131	830	53.47	57.73	5.685	36.8	38.47	13.44
111	2008	131	845	54.03	54.95	6.489	35.48	37.77	13.45
111	2008	131	900	54.89	54.38	5.336	33.33	38.78	13.43
111	2008	131	915	55.42	50.79	5.385	41.59	48.47	13.43

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	131	930	55.98	52.53	4.742	52.56	45.1	13.42
111	2008	131	945	56.36	53.5	6.295	59.79	34.4	13.42
111	2008	131	1000	56.9	52.89	6.366	36.71	33.59	13.4
111	2008	131	1015	57.37	52.79	7.16	26.4	28.68	13.41
111	2008	131	1030	58.06	51.69	5.773	55.91	43.44	13.4
111	2008	131	1045	58.58	50.35	6.259	34	40.42	13.39
111	2008	131	1100	59.06	48.58	6.219	40.66	42.77	13.37
111	2008	131	1115	59.6	47.3	6.99	49.68	39.17	13.35
111	2008	131	1130	60.45	47.56	7.07	54.2	37.53	13.34
111	2008	131	1145	60.84	47.53	6.152	36.45	39.01	13.34
111	2008	131	1200	61.25	45.52	6.084	59.84	48.06	13.34
111	2008	131	1215	60.77	45.82	6.315	47.35	39.15	13.32
111	2008	131	1230	61.15	47.86	6.607	73.7	36.64	13.32
111	2008	131	1245	61.95	45.45	5.657	49.23	40.61	13.32
111	2008	131	1300	61.49	47.22	5.435	38.33	43.47	13.32
111	2008	131	1315	61.04	49.23	5.062	67.17	42.89	13.33
111	2008	131	1330	61.79	46.25	5.389	61.31	50.61	13.33
111	2008	131	1345	62.25	45.62	4.696	36.89	41.35	13.32
111	2008	131	1400	62.75	44.62	4.064	40.72	44.51	13.31
111	2008	131	1415	62.85	43.85	3.572	37.1	54.56	13.31
111	2008	131	1430	62.73	41.27	4.756	56.29	40.19	13.31
111	2008	131	1445	63.45	40.7	4.119	347.3	50.5	13.31
111	2008	131	1500	62.78	43.38	4.365	343.2	53.85	13.29
111	2008	131	1515	60.49	60.17	5.147	271.2	27.99	13.31
111	2008	131	1530	57.44	61.61	5.59	250.8	25.58	13.34
111	2008	131	1545	57.13	60.03	6.263	260.9	28.9	13.36
111	2008	131	1600	57.26	59.14	5.759	263.4	25.97	13.37
111	2008	131	1615	57.55	58.28	5.878	251.8	28	13.39
111	2008	131	1630	57.24	57.78	6.759	267.5	25.28	13.39
111	2008	131	1645	57.27	57.91	5.929	253.8	25.44	13.4
111	2008	131	1700	57.25	57.54	5.786	254.3	24.92	13.41
111	2008	131	1715	57.72	57.44	5.556	259.8	21.84	13.42
111	2008	131	1730	58.66	55.3	5.634	264.1	29.22	13.41
111	2008	131	1745	58.58	57.48	5.876	258.3	23.12	13.4
111	2008	131	1800	57.57	57.31	5.55	251.5	26.99	13.05
111	2008	131	1815	56.87	58.98	4.434	256.5	24.92	12.87
111	2008	131	1830	56.26	60.39	4.194	255.4	29.87	12.79
111	2008	131	1845	55.64	63.2	4.204	254.1	25.36	12.76
111	2008	131	1900	55.09	65.64	4.444	260.5	26.98	12.73
111	2008	131	1915	54.61	67.09	2.958	249.8	31.83	12.71
111	2008	131	1930	54.55	67.39	3.042	248.5	31.26	12.71
111	2008	131	1945	54.28	68.77	2.939	253.7	27.85	12.69
111	2008	131	2000	53.9	72.9	2.763	252.2	22.61	12.68
111	2008	131	2015	53.33	77.2	2.729	265.7	20.9	12.67
111	2008	131	2030	53.1	80	3.622	277.6	17.86	12.66
111	2008	131	2045	52.99	81.2	1.788	265.1	23.47	12.66
111	2008	131	2100	52.75	82.4	0.584	265.4	11.92	12.65
111	2008	131	2115	52.44	83.6	0.242	276.4	11.48	12.64
111	2008	131	2130	51.88	84.7	0.127	347.2	13.32	12.63
111	2008	131	2145	51.32	86.1	na	na	na	12.63
111	2008	131	2200	51.01	87.1	0.942	341.2	14.11	12.62
111	2008	131	2215	50.81	87.7	0.74	331.2	8.77	12.62
111	2008	131	2230	50.82	87.7	1.337	321.2	9.11	12.61
111	2008	131	2245	50.79	87.8	1.24	318.2	11.3	12.6
111	2008	131	2300	51.24	84.4	2.401	313	13.87	12.6
111	2008	131	2315	51.88	79.5	2.383	317.8	16.24	12.6
111	2008	131	2330	52.38	76.2	2.816	314.6	15.14	12.59
111	2008	131	2345	52.63	75.3	2.294	322.5	11.87	12.59
111	2008	131	2400	52.09	76.7	1.298	342.1	18.47	12.59
111	2008	132	15	51.28	79.1	0.243	11.66	4.309	12.59

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	132	30	50.27	80.9	0.647	338.3	15.35	12.58
111	2008	132	45	51.01	75.7	1.38	10.11	22.52	12.58
111	2008	132	100	51.45	76	0.578	351.3	14.64	12.58
111	2008	132	115	50.99	75	0.946	19.39	30.79	12.57
111	2008	132	130	51.39	77.6	4.796	84.2	25.29	12.57
111	2008	132	145	50.3	84.7	4.301	84	32	12.58
111	2008	132	200	49.25	87.1	3.95	107.3	39.55	12.57
111	2008	132	215	48.87	86.7	3.446	113.2	25.58	12.56
111	2008	132	230	48.72	83.7	3.6	122.8	29.27	12.56
111	2008	132	245	48.78	80.8	3.362	127.3	28.81	12.56
111	2008	132	300	48.84	78.6	3.884	124.6	27.39	12.56
111	2008	132	315	48.67	79.5	2.32	102.3	34.46	12.56
111	2008	132	330	48.05	80.1	3.009	77.7	16.79	12.55
111	2008	132	345	47.41	81.9	3.956	84.1	23.77	12.55
111	2008	132	400	46.63	82.3	2.44	79.9	18.82	12.55
111	2008	132	415	46.22	82.4	2.621	80.9	20.25	12.54
111	2008	132	430	45.77	83	1.841	81.3	22.61	12.54
111	2008	132	445	45.42	83.5	2.075	78.1	22.95	12.53
111	2008	132	500	45.27	83.1	2.449	81.1	21.64	12.53
111	2008	132	515	45.02	83.8	0.859	70.9	19.78	12.52
111	2008	132	530	44.42	84.6	0.054	42.34	1.422	12.52
111	2008	132	545	44	85.7	0.02	85.3	1.901	12.51
111	2008	132	600	43.74	86.6	0.02	47.93	1.021	12.51
111	2008	132	615	43.93	86.8	0.027	25.14	2.924	12.53
111	2008	132	630	44.29	86.4	0.533	75	18.25	12.59
111	2008	132	645	45.79	82.2	0.976	95	40.23	12.69
111	2008	132	700	47.83	77.5	1.785	86.7	28.69	13.63
111	2008	132	715	49.14	75.1	3.231	82.3	26.07	13.62
111	2008	132	730	50.37	70.4	3.12	91.6	39.73	13.59
111	2008	132	745	51.89	68.36	2.865	119.8	41.17	13.58
111	2008	132	800	53.54	63.56	1.969	116.6	40.82	13.56
111	2008	132	815	53.7	62.22	4.563	133	29.67	13.54
111	2008	132	830	54.45	58.03	4.988	106.1	42.72	13.52
111	2008	132	845	54.53	55.02	5.995	127	32.24	13.51
111	2008	132	900	54.97	55.41	6.096	130.5	23.59	13.5
111	2008	132	915	55.37	55.21	7.11	141.2	23.32	13.48
111	2008	132	930	55.61	55.91	6.289	141.4	24.12	13.47
111	2008	132	945	56.05	55.81	6.307	153.1	25.68	13.46
111	2008	132	1000	55.65	60.89	6.416	157.8	27.14	13.45
111	2008	132	1015	55.25	60.39	7.59	156	20	13.45
111	2008	132	1030	54.71	58.28	8.06	161.7	21.07	13.44
111	2008	132	1045	54.5	59.85	8.54	157.7	19.74	13.44
111	2008	132	1100	54.49	58.68	8.2	163.6	21.51	13.44
111	2008	132	1115	54.7	58.75	7.87	157.8	25.72	13.43
111	2008	132	1130	55.34	59.05	6.69	169.5	22.15	13.43
111	2008	132	1145	55.41	58.08	6.831	165.3	27.69	13.43
111	2008	132	1200	55.36	57.34	7.94	161.3	24.69	13.41
111	2008	132	1215	55.35	60.09	7.08	167.8	27.99	13.41
111	2008	132	1230	55.53	58.98	7.2	168.8	26.49	13.41
111	2008	132	1245	55.55	56.44	7.22	171.5	32.14	13.34
111	2008	132	1300	55.46	58.75	7.91	179.9	28.23	13.4
111	2008	132	1315	55.32	58.72	7.45	184	27.93	13.36
111	2008	132	1330	55.3	61.12	8.31	172.6	25.32	13.4
111	2008	132	1345	54.25	60.92	7.9	197.5	25.15	13.35
111	2008	132	1400	54.17	61.86	7.69	176.4	30.98	13.36
111	2008	132	1415	54.08	63.6	7.77	178.7	25.46	13.39
111	2008	132	1430	53.88	62.63	6.17	188.3	30.35	13.41
111	2008	132	1445	53.67	64.8	7.04	176.4	23.74	13.4
111	2008	132	1500	53.36	63.83	7.34	171.2	21.93	13.37
111	2008	132	1515	53.21	66.68	6.612	162.9	21.63	13.35

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	132	1530	52.96	65.81	6.881	148.1	23.25	13.38
111	2008	132	1545	52.76	65.01	6.396	156.1	21.89	13.46
111	2008	132	1600	52.78	64.24	6.616	155	20.47	13.38
111	2008	132	1615	53.24	64.82	6.668	152.3	23.65	13.46
111	2008	132	1630	53.31	64.75	6.394	143.5	31.21	13.48
111	2008	132	1645	53.27	64.92	7.09	160.6	22.83	13.47
111	2008	132	1700	52.88	66.15	7.72	157.2	24.22	13.48
111	2008	132	1715	52.76	64.69	7.26	147	26.55	13.48
111	2008	132	1730	52.68	62.44	7.38	151.1	18.6	13.48
111	2008	132	1745	52.35	63.92	6.819	143.4	20.6	13.49
111	2008	132	1800	52.43	64.62	6.37	142.3	26.68	13.5
111	2008	132	1815	52.52	66.6	7.44	145.2	21.24	13.38
111	2008	132	1830	51.47	67.87	7.26	158.4	23.54	12.93
111	2008	132	1845	50.65	70.2	6.259	139	25.44	12.8
111	2008	132	1900	50.37	69.98	6.672	153.6	23.89	12.74
111	2008	132	1915	50.01	72.6	5.949	138.7	28.06	12.71
111	2008	132	1930	49.55	73	6.118	135.1	26.84	12.68
111	2008	132	1945	49.24	73.1	6.009	144.2	20.45	12.67
111	2008	132	2000	49.02	72.6	6.334	144.5	22.2	12.66
111	2008	132	2015	48.82	71.7	6.235	143.9	22.24	12.63
111	2008	132	2030	48.81	70.6	5.88	137.4	22.51	12.64
111	2008	132	2045	48.57	72.6	7.24	131.9	24.69	12.63
111	2008	132	2100	48.42	73.5	7.8	130	27.18	12.62
111	2008	132	2115	48.27	75.5	7.11	128.6	26.47	12.62
111	2008	132	2130	48.08	74.4	8.36	123.8	25	12.62
111	2008	132	2145	47.8	74.3	6.928	136	26.55	12.61
111	2008	132	2200	47.42	73.1	8.41	126.3	30.05	12.6
111	2008	132	2215	47.28	73.8	7.76	126.3	25.81	12.6
111	2008	132	2230	47.1	73.3	6.835	124.2	26.79	12.6
111	2008	132	2245	47.14	72.4	8.46	118.8	31.21	12.59
111	2008	132	2300	47.38	72.2	9.03	123	25.22	12.58
111	2008	132	2315	47.54	71.2	7.52	122.7	28.45	12.58
111	2008	132	2330	47.71	68.83	9.11	119.7	29.37	12.58
111	2008	132	2345	47.82	67.69	8.39	127.9	24.21	12.58
111	2008	132	2400	47.95	67.69	10.13	118.7	23.07	12.57
111	2008	133	15	47.89	67.83	9.47	122.7	30.45	12.57
111	2008	133	30	47.73	67.56	10.06	119.3	26.52	12.56
111	2008	133	45	47.65	67.29	10.66	121.4	30.64	12.56
111	2008	133	100	47.67	65.99	8.84	110.7	35.67	12.56
111	2008	133	115	47.75	64.98	10.37	113.2	31.06	12.56
111	2008	133	130	47.98	64.98	9.71	127.5	26.03	12.55
111	2008	133	145	48.19	65.85	9.59	122.8	26.36	12.56
111	2008	133	200	48.26	67.39	11.06	131.7	26.91	12.55
111	2008	133	215	48.18	68.13	10.22	134	27.69	12.55
111	2008	133	230	48.06	68.06	10.12	125.8	21.76	12.55
111	2008	133	245	47.99	68.36	9.79	124.5	26	12.54
111	2008	133	300	47.92	68.23	8.82	130.9	31.75	12.54
111	2008	133	315	47.85	68.43	10.99	118.3	25.7	12.54
111	2008	133	330	47.76	67.73	10.23	119.2	30.01	12.53
111	2008	133	345	47.74	68.06	9.68	121.7	26.59	12.53
111	2008	133	400	47.67	68.13	9.19	111.7	28.51	12.53
111	2008	133	415	47.67	68.4	10.22	120.3	34.06	12.52
111	2008	133	430	47.66	68.66	10.27	117.2	35.17	12.52
111	2008	133	445	47.61	68.73	10.39	112.2	29.23	12.52
111	2008	133	500	47.52	68.63	8.86	112.9	29.71	12.52
111	2008	133	515	47.57	67.79	10.33	112.3	31.78	12.52
111	2008	133	530	47.65	66.42	9.48	105.6	36.53	12.52
111	2008	133	545	47.61	66.69	8.51	94.7	30.12	12.51
111	2008	133	600	47.55	66.79	8.79	91	33.93	12.51
111	2008	133	615	47.52	66.12	9.54	90.8	31.96	12.52

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	133	630	47.6	66.35	9.37	87.1	29.22	12.51
111	2008	133	645	47.57	66.79	9.99	87	25.06	12.51
111	2008	133	700	47.59	66.66	10.72	90.4	30.3	12.5
111	2008	133	715	47.61	67.59	11.42	88.8	28.15	12.5
111	2008	133	730	47.53	68.76	10.53	85.6	28.83	12.5
111	2008	133	745	47.38	68.63	10.72	94.9	36.85	12.5
111	2008	133	800	47.35	68.46	9.32	80.8	28.44	12.5
111	2008	133	815	47.3	68.93	10.87	85.7	25.67	12.5
111	2008	133	830	47.33	68.87	11.33	89.5	28.33	12.5
111	2008	133	845	47.59	69.03	10.52	83.9	24.47	12.51
111	2008	133	900	47.56	68.46	9.63	84.9	26.87	12.5
111	2008	133	915	47.64	67.36	10.21	85.5	24.9	12.5
111	2008	133	930	47.58	69.9	11.22	85.1	22.74	12.5
111	2008	133	945	46.82	77.8	10.67	82.4	26.73	12.5
111	2008	133	1000	45.75	81.3	10.46	89.4	30.15	12.5
111	2008	133	1015	45.73	75.3	11.66	83.7	29.58	12.5
111	2008	133	1030	46.07	78.7	10.03	83.8	26.59	12.61
111	2008	133	1045	45.8	78.8	11.52	76.3	22.95	12.79
111	2008	133	1100	45.47	80.9	9.39	78.8	36.67	12.86
111	2008	133	1115	45	82.6	9.83	87.2	27.65	12.9
111	2008	133	1130	44.77	84.5	9.11	83.5	35.78	12.87
111	2008	133	1145	44.78	83.3	9.04	77.1	37.63	12.86
111	2008	133	1200	45.32	80.3	10.11	86.8	23.98	12.96
111	2008	133	1215	46.31	76.2	9.25	86.4	27.3	13.38
111	2008	133	1230	47.48	68.46	10.83	84.4	22.77	13.45
111	2008	133	1245	48.22	66.45	12.56	86.1	28.3	13.42
111	2008	133	1300	48.95	63.34	12.17	88.1	25.52	13.56
111	2008	133	1315	49.43	60.56	12.81	78.5	23.39	13.32
111	2008	133	1330	49.49	60.69	12.63	87.8	24.5	13.26
111	2008	133	1345	49.69	61.15	11.29	85	31.97	13.58
111	2008	133	1400	49.79	61.31	11.95	80.4	26.83	13.56
111	2008	133	1415	49.69	60.88	12.72	83.1	26.3	13.33
111	2008	133	1430	49.64	61.48	11.84	87.9	27.92	13.22
111	2008	133	1445	49.48	60.68	12.11	86.9	28.89	13.35
111	2008	133	1500	49.37	61.65	9.12	86.5	27.41	13.57
111	2008	133	1515	49.51	63.29	10.02	82.9	33.98	13.33
111	2008	133	1530	48.98	63.72	11.24	79.1	25.73	13.25
111	2008	133	1545	48.84	66.43	11.37	84.7	25.1	13.22
111	2008	133	1600	47.91	74	7.52	87.9	29.86	13.14
111	2008	133	1615	47.16	75	8.94	88.6	23.74	13.08
111	2008	133	1630	47.04	75.5	7.41	78.9	28.22	13.14
111	2008	133	1645	47.59	70.1	6.956	83.2	29.68	13.12
111	2008	133	1700	48.24	68.13	8.52	83	27.87	13.22
111	2008	133	1715	48.65	67.59	8.52	86.7	25.36	13.04
111	2008	133	1730	48.76	67.02	7.54	80.7	28.94	12.97
111	2008	133	1745	48.97	63.94	8.56	85.4	28.97	12.9
111	2008	133	1800	49.17	62.87	7.17	80.8	38.1	12.82
111	2008	133	1815	49.14	63.5	7.48	82.3	25.13	12.76
111	2008	133	1830	48.87	63.74	8.01	83.9	26.09	12.74
111	2008	133	1845	48.81	63.07	9.04	82.3	24.05	12.72
111	2008	133	1900	48.54	62.94	8.95	83.2	24.76	12.72
111	2008	133	1915	48.33	64.01	7.53	81.4	23.96	12.7
111	2008	133	1930	48.15	64.01	9.81	83	20.73	12.69
111	2008	133	1945	48.12	63.54	8.54	84.2	21.19	12.68
111	2008	133	2000	48.15	62.64	8.25	85.1	27.35	12.68
111	2008	133	2015	48.34	61.3	8.15	70.7	37.11	12.67
111	2008	133	2030	48.42	62.24	5.497	69.39	30.62	12.66
111	2008	133	2045	48.52	61.2	5.501	75.6	39.87	12.66
111	2008	133	2100	48.53	62.4	4.559	54.87	43.66	12.65
111	2008	133	2115	48.49	62	5.022	44.54	39.62	12.64

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	133	2130	48.71	61.23	4.885	44.07	40.43	12.63
111	2008	133	2145	49.14	58.49	5.786	41.85	40.53	12.63
111	2008	133	2200	49.59	53.8	5.927	50.39	35.5	12.63
111	2008	133	2215	49.88	51.79	5.653	51.99	42.43	12.62
111	2008	133	2230	49.91	50.18	6.094	55.28	46.7	12.61
111	2008	133	2245	49.97	48.98	6.787	55.6	41.87	12.6
111	2008	133	2300	49.93	49.78	5.584	57.96	56.95	12.59
111	2008	133	2315	49.82	49.78	5.677	59.99	46.34	12.58
111	2008	133	2330	49.75	49.78	5.638	48.44	51.93	12.58
111	2008	133	2345	50.11	47.81	6.676	63.99	36.12	12.56
111	2008	133	2400	50.26	48.28	5.471	66.97	38.45	12.55
111	2008	134	15	50.05	49.88	4.667	58.5	40.96	12.55
111	2008	134	30	49.78	49.08	4.905	52.39	42.37	12.54
111	2008	134	45	49.65	51.22	4.514	42.73	42.41	12.53
111	2008	134	100	49.48	51.42	5.675	58.76	51.79	12.52
111	2008	134	115	49.53	51.72	5.354	54.95	44.28	12.52
111	2008	134	130	49.53	52.56	5.179	62.06	44.35	12.52
111	2008	134	145	49.33	53.6	5.701	38.7	34.48	12.5
111	2008	134	200	49.09	55.21	5.886	31.85	32.28	12.5
111	2008	134	215	48.7	56.14	5.562	37.92	37.33	12.5
111	2008	134	230	48.47	57.05	4.708	32.16	39.78	12.5
111	2008	134	245	48.2	56.61	4.796	37.33	35.49	12.5
111	2008	134	300	48.17	56.65	5.03	36.54	41.4	12.48
111	2008	134	315	48.19	56.41	5.171	45.51	43.94	12.49
111	2008	134	330	48.33	56.71	5.727	41.21	34.88	12.48
111	2008	134	345	48.34	56.55	6.017	38.38	44.38	12.48
111	2008	134	400	48.47	55.51	6.487	43.64	35.14	12.47
111	2008	134	415	48.53	55.04	6.076	37.55	37.53	12.47
111	2008	134	430	48.8	56.75	6.475	37.82	40.29	12.47
111	2008	134	445	48.61	55.84	7.13	49.53	36.9	12.48
111	2008	134	500	48.57	56.14	5.908	43.94	45.42	12.47
111	2008	134	515	48.61	54.9	7.14	47.14	36.91	12.47
111	2008	134	530	48.66	54.94	6.746	40.29	36.63	12.47
111	2008	134	545	48.68	55.54	6.38	48.57	42.73	12.47
111	2008	134	600	48.77	55.14	6.662	52.07	41.53	12.47
111	2008	134	615	48.87	55.78	6.9	47.57	37.06	12.5
111	2008	134	630	49.24	54.67	6.372	54.05	41.14	12.6
111	2008	134	645	49.95	50.22	7.26	57.64	38.4	12.85
111	2008	134	700	51.04	47.03	7.44	61.68	35.41	13.56
111	2008	134	715	51.55	47.67	7.2	54.55	41.84	13.55
111	2008	134	730	52.68	46.29	6.867	45.03	47.39	13.54
111	2008	134	745	53.6	44.48	8.2	56.5	40.82	13.52
111	2008	134	800	54.35	41.63	8.38	64.06	39.27	13.51
111	2008	134	815	54.38	41.43	7.68	44.58	39.24	13.51
111	2008	134	830	53.85	41.56	7.56	55.35	42.31	13.51
111	2008	134	845	53.85	40.33	7.78	57.55	41.3	13.51
111	2008	134	900	54.43	36.75	8.67	55.47	48.94	13.51
111	2008	134	915	55.04	34.4	8.81	54.92	45.45	13.48
111	2008	134	930	55.86	32.99	8.7	40.91	40.3	13.49
111	2008	134	945	56.78	31.28	9.37	45.22	34.78	13.47
111	2008	134	1000	57.99	29.31	8.67	58.56	38.31	13.46
111	2008	134	1015	58.23	29.14	10.02	40.65	38.99	13.45
111	2008	134	1030	58.54	28.27	8.6	54.82	39.54	13.44
111	2008	134	1045	59.09	30.14	7.67	62.03	47.15	13.43
111	2008	134	1100	59.2	28.77	10.79	46.48	38.74	13.41
111	2008	134	1115	59.15	28.9	8.98	50.52	41.44	13.41
111	2008	134	1130	60.11	28.67	8.09	47.58	47.12	13.41
111	2008	134	1145	61.01	28.1	7.28	67.17	39.47	13.4
111	2008	134	1200	62.45	28.03	7	53.86	48.32	13.38
111	2008	134	1215	62.21	28.33	8.05	39.26	43.42	13.37

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	134	1230	62.83	27.76	7.73	40.76	38.5	13.37
111	2008	134	1245	63.33	28.29	8.71	39.84	41.08	13.37
111	2008	134	1300	63.61	27.56	9.06	42.27	39.32	13.35
111	2008	134	1315	64.12	26.52	8.21	50.49	42.8	13.35
111	2008	134	1330	64.86	26.82	7.2	58.36	46.87	13.33
111	2008	134	1345	65.41	28.06	7.46	48.48	46.86	13.33
111	2008	134	1400	65.07	27.29	8.79	83.7	29.15	13.32
111	2008	134	1415	65.4	26.49	6.992	77.8	33.85	13.32
111	2008	134	1430	66.5	25.48	6.148	57.33	46.85	13.31
111	2008	134	1445	66.84	25.18	6.015	75	44.77	13.29
111	2008	134	1500	67.96	24.28	6.055	63.87	43.17	13.28
111	2008	134	1515	67.6	24.98	6.575	49.33	36.17	13.12
111	2008	134	1530	67.68	23.44	7.18	72.7	34.53	13.08
111	2008	134	1545	67.62	24.04	7.35	57.26	35.98	13.04
111	2008	134	1600	68.18	24.11	6.585	58.53	35.67	13.02
111	2008	134	1615	68.68	21.67	5.516	45.08	41.02	12.99
111	2008	134	1630	68.94	22.47	4.957	56.88	44.01	12.96
111	2008	134	1645	68.1	42.23	5.147	106.4	47.84	12.94
111	2008	134	1700	59.51	51.09	6.728	199.7	28.27	12.94
111	2008	134	1715	57.51	51.63	6.245	198.7	33.84	12.92
111	2008	134	1730	56.95	54.11	5.991	188.3	22.09	12.9
111	2008	134	1745	56.6	52.21	5.727	195.6	31.54	12.87
111	2008	134	1800	56.22	52.55	4.5	196.8	32.3	12.84
111	2008	134	1815	55.65	53.29	4.786	216.5	33.32	12.82
111	2008	134	1830	55.65	55.64	5.141	247.5	30.4	12.79
111	2008	134	1845	55.39	58.38	4.182	249.9	33.92	12.76
111	2008	134	1900	54.67	59.58	3.837	244	29.44	12.73
111	2008	134	1915	53.45	61.83	4.538	254.6	26.78	12.72
111	2008	134	1930	52.62	61.9	3.755	268.1	25.02	12.71
111	2008	134	1945	51.83	64.05	2.493	247.8	31.55	12.69
111	2008	134	2000	51.25	64.82	2.629	247.1	23.46	12.68
111	2008	134	2015	50.91	66.83	2.186	265	16.18	12.66
111	2008	134	2030	50.37	68.27	1.565	266.9	15.45	12.65
111	2008	134	2045	50.01	68.72	1.503	266.3	13.52	12.64
111	2008	134	2100	49.86	69.46	1.146	261.7	12.93	12.63
111	2008	134	2115	49.55	70.4	2.04	278.1	10.14	12.62
111	2008	134	2130	49.4	70	2.122	273.2	17.63	12.62
111	2008	134	2145	49.34	70.1	2.258	261.7	18.89	12.61
111	2008	134	2200	49.54	69.07	3.4	291.8	19.08	12.6
111	2008	134	2215	49.35	70.3	3.257	296.7	20.15	12.6
111	2008	134	2230	49.28	71.4	3.918	298	14.81	12.59
111	2008	134	2245	49.43	70.9	3.932	295.6	15.5	12.58
111	2008	134	2300	49.19	71.6	3.65	287.8	12.07	12.58
111	2008	134	2315	49.02	71.1	3.392	303.1	15.84	12.58
111	2008	134	2330	48.8	72.2	3.06	302.1	15.93	12.58
111	2008	134	2345	48.42	73.8	2.088	305.7	16.49	12.57
111	2008	134	2400	48.42	71.9	3.857	304.9	12.62	12.56
111	2008	135	15	48.81	70.8	4.176	308.9	13.71	12.56
111	2008	135	30	48.95	70.9	4.514	301.3	14.11	12.56
111	2008	135	45	49.17	69.37	4.601	300.6	14.99	12.56
111	2008	135	100	49.36	68.26	4.677	306.1	14.98	12.55
111	2008	135	115	49.45	68.13	5.187	304.8	15.03	12.55
111	2008	135	130	49.33	68.26	5.107	305.9	15.74	12.54
111	2008	135	145	49.13	67.89	4.681	307.2	14.88	12.54
111	2008	135	200	49.04	66.99	4.746	310.8	16.35	12.54
111	2008	135	215	48.97	65.99	4.297	312.9	15.37	12.54
111	2008	135	230	49	63.61	4.96	307.1	14.93	12.52
111	2008	135	245	49.11	62.87	4.557	309.7	15.94	12.52
111	2008	135	300	48.95	62.27	3.686	317.4	16.41	12.52
111	2008	135	315	48.82	62.54	3.527	309.3	18.69	12.52

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	135	330	48.64	63.01	3.475	303.5	14.19	12.51
111	2008	135	345	48.57	62.87	3.652	307	14.84	12.51
111	2008	135	400	48.19	64.21	2.921	306	12.28	12.5
111	2008	135	415	47.88	65.32	2.82	306.8	13.94	12.5
111	2008	135	430	47.37	66.86	2.506	305.4	10.43	12.5
111	2008	135	445	46.84	67.96	2.492	308.3	16.12	12.49
111	2008	135	500	46.36	70.2	0.608	310.2	11.42	12.49
111	2008	135	515	45.26	74	0.081	310.8	3.226	12.47
111	2008	135	530	44.89	73.2	0.58	81.1	27.76	12.47
111	2008	135	545	44.98	74.5	0.335	108.7	11.12	12.46
111	2008	135	600	44.68	75.8	0.688	89.1	16.82	12.46
111	2008	135	615	45.17	76.3	0.139	285.1	6.998	12.47
111	2008	135	630	45.8	76	0.279	22.36	10.67	12.55
111	2008	135	645	46.94	70.7	0.564	23.35	15.7	12.74
111	2008	135	700	49.19	64.63	0.881	56.55	19.28	13.62
111	2008	135	715	51.46	59.7	1.015	63.19	23.06	13.6
111	2008	135	730	53.06	55.44	0.892	348.6	34.31	13.56
111	2008	135	745	53.55	55.23	1.689	319.3	27.12	13.55
111	2008	135	800	54.68	53.68	2.377	298.2	27.69	13.52
111	2008	135	815	56.58	50.96	1.999	4.582	40.27	13.49
111	2008	135	830	57.91	49.79	1.765	19.53	48.48	13.46
111	2008	135	845	60.05	45.53	2.689	54.42	51.2	13.45
111	2008	135	900	60.98	43.66	3.076	50.96	41.91	13.43
111	2008	135	915	61.68	42.88	3.676	31.16	40.62	13.41
111	2008	135	930	62.62	44.18	3.346	43.53	35.09	13.4
111	2008	135	945	63.73	42.51	3.148	29.47	37.81	13.38
111	2008	135	1000	64.39	43.21	3.189	48.19	49.38	13.37
111	2008	135	1015	65.03	40	3.346	21.25	58.42	13.35
111	2008	135	1030	65.94	38.43	3.307	64.95	52.21	13.34
111	2008	135	1045	65.77	47.38	4.508	136.4	43.76	13.33
111	2008	135	1100	62.52	47.85	6.392	170.9	22.43	13.32
111	2008	135	1115	61.72	52.17	5.979	174.7	20.39	13.33
111	2008	135	1130	60.62	53.84	6.513	162.2	31.13	13.33
111	2008	135	1145	60.64	54.38	6.489	178.7	25.27	13.34
111	2008	135	1200	60.02	56.62	7.19	156.6	20.83	13.34
111	2008	135	1215	61.14	54.11	6.799	159.4	24.64	13.35
111	2008	135	1230	61.4	53.48	7.18	161.3	19.81	13.35
111	2008	135	1245	61.45	50.47	7.97	163.7	16.53	13.34
111	2008	135	1300	61.77	50.77	8.26	167.5	18.71	13.34
111	2008	135	1315	61.86	47.09	7.89	166.7	24.58	13.35
111	2008	135	1330	62.22	45.75	7.77	164.7	23.05	13.34
111	2008	135	1345	61.62	48.83	8.5	163	17.01	13.33
111	2008	135	1400	60.34	46.92	9.41	162.5	18.94	13.33
111	2008	135	1415	59.86	47.39	8.66	167.8	22.78	13.34
111	2008	135	1430	59.21	52.54	8.53	163.6	24.01	13.35
111	2008	135	1445	58.77	52.84	8.08	174.6	26.76	13.35
111	2008	135	1500	58.08	53.65	7.28	174.1	30.4	13.35
111	2008	135	1515	57.52	52.31	7.55	176.9	26.92	13.36
111	2008	135	1530	56.98	57.57	7.32	173.5	29.04	13.36
111	2008	135	1545	56.58	57	6.654	201.2	28.76	13.37
111	2008	135	1600	56.3	58.65	5.755	180.7	28.01	13.38
111	2008	135	1615	56.1	58.38	5.588	200.6	33.97	13.39
111	2008	135	1630	55.97	58.98	6.106	167.3	20.54	13.39
111	2008	135	1645	55.56	59.59	5.552	175.8	22.94	13.4
111	2008	135	1700	55.33	59.55	5.421	182.7	26.59	13.41
111	2008	135	1715	55.38	60.05	5.431	178.3	29	13.42
111	2008	135	1730	55.21	62.36	5.522	173.2	24.03	13.43
111	2008	135	1745	55.05	61.63	4.8	174	33.26	13.43
111	2008	135	1800	54.65	62.33	4.895	181.6	26.59	13.32
111	2008	135	1815	54.64	63.77	4.742	185.2	28.56	13.2

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	135	1830	54.23	64.07	5.348	184.1	26.82	12.99
111	2008	135	1845	53.37	65.98	4.089	203.3	29.95	12.82
111	2008	135	1900	52.69	67.83	4.023	211.6	30.08	12.75
111	2008	135	1915	52.46	68.27	3.15	200.4	31.97	12.72
111	2008	135	1930	52.39	68.74	3.334	179.8	22.07	12.7
111	2008	135	1945	52.2	68.61	2.594	200.6	33.93	12.68
111	2008	135	2000	51.91	70.5	3.39	187.4	23.85	12.67
111	2008	135	2015	51.71	71.2	3.12	203.1	28.54	12.66
111	2008	135	2030	51.7	70.5	3.055	184.8	23.4	12.66
111	2008	135	2045	51.69	71	3.146	206.6	22.85	12.64
111	2008	135	2100	51.71	71.2	2.649	219.5	32.18	12.64
111	2008	135	2115	51.81	70.7	3.13	209.9	34.17	12.64
111	2008	135	2130	51.82	70.6	2.876	242.2	24.82	12.64
111	2008	135	2145	51.73	71.7	3.172	237.1	26.46	12.63
111	2008	135	2200	51.56	73.8	2.745	243	27.64	12.63
111	2008	135	2215	51.53	72.3	2.735	231.8	41.67	12.62
111	2008	135	2230	51.73	74.9	2.388	252.9	27.76	12.62
111	2008	135	2245	51.62	75.4	2.451	209	26.95	12.61
111	2008	135	2300	51.78	73.8	2.295	222.9	32.68	12.6
111	2008	135	2315	51.87	73.3	3.279	215.1	33.87	12.6
111	2008	135	2330	51.97	73.4	2.945	207.1	32.06	12.6
111	2008	135	2345	52.14	74	3.265	191	26.6	12.6
111	2008	135	2400	52.09	75.6	3.765	195.4	24.98	12.6
111	2008	136	15	52.08	76.5	4.099	178	22.02	12.6
111	2008	136	30	52.06	76.6	3.888	178	26.46	12.59
111	2008	136	45	52.1	77.1	3.514	172.8	25.86	12.59
111	2008	136	100	52.11	77.7	2.991	197.1	31.78	12.59
111	2008	136	115	52.09	78	1.984	227.6	30.3	12.58
111	2008	136	130	52.08	77.4	2.995	208.9	30	12.58
111	2008	136	145	52.16	77.3	3.166	194.3	27.88	12.58
111	2008	136	200	52.33	77.2	2.701	202.1	29.42	12.58
111	2008	136	215	52.43	78	3.058	197.9	26.91	12.57
111	2008	136	230	52.27	79.1	2.81	197	30.02	12.56
111	2008	136	245	52.13	79.8	2.979	185.5	26.28	12.56
111	2008	136	300	52.12	80.3	2.885	180.8	22.83	12.56
111	2008	136	315	52.16	80.2	2.854	192.1	26.93	12.56
111	2008	136	330	52.22	80.4	2.987	182.8	30.9	12.55
111	2008	136	345	52.21	80.7	3.237	185.5	23.55	12.55
111	2008	136	400	52.07	81.5	2.605	191.1	25.17	12.54
111	2008	136	415	51.92	82	2.737	181.4	20.68	12.54
111	2008	136	430	51.91	82.3	2.927	184.7	26.46	12.53
111	2008	136	445	51.98	82.2	3.33	179.8	22.3	12.53
111	2008	136	500	51.9	82.6	3.07	182.6	26.81	12.52
111	2008	136	515	51.83	83.2	2.774	182.4	18.21	12.52
111	2008	136	530	51.81	83.5	3.054	176.4	19.23	12.51
111	2008	136	545	51.89	83.3	2.62	176.8	25.05	12.52
111	2008	136	600	51.97	83.3	2.701	184.9	25.1	12.51
111	2008	136	615	52.06	83.6	2.496	182.3	21.15	12.5
111	2008	136	630	52.23	83.6	2.265	195.2	27.8	12.5
111	2008	136	645	52.35	83.7	0.851	217.8	28.33	12.5
111	2008	136	700	52.46	83.7	1.825	200.2	19.99	12.5
111	2008	136	715	52.53	83.7	0.521	186.9	13.61	12.5
111	2008	136	730	52.66	83.6	1.449	177.2	17.46	12.5
111	2008	136	745	52.92	83.3	1.781	198.3	33.5	12.52
111	2008	136	800	53.11	83	2.475	189.5	31.02	12.6
111	2008	136	815	53.62	81.5	2.598	173.1	27.94	12.8
111	2008	136	830	53.86	81.4	3.348	160.8	25.85	13.1
111	2008	136	845	54.09	81.5	2.197	189.8	49.28	13.1
111	2008	136	900	54.46	79.7	2.524	169.4	47.75	13.39
111	2008	136	915	55.68	77.3	2.341	171.3	43.12	13.46

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	136	930	56.06	77.2	1.811	182.4	49.04	13.44
111	2008	136	945	57.91	73.1	2.978	147.6	33.75	13.41
111	2008	136	1000	57.88	74.2	3.233	172.5	41.26	13.4
111	2008	136	1015	57.93	73.3	4.075	157.2	19.59	13.39
111	2008	136	1030	57.93	74.7	4.536	173.9	27.15	13.39
111	2008	136	1045	57.78	73.4	5.185	172.9	28.08	13.37
111	2008	136	1100	57.77	73.8	4.009	161.5	42.14	13.37
111	2008	136	1115	58.96	73.1	3.644	200.7	40.31	13.36
111	2008	136	1130	59.31	71.9	4.911	174.3	33.3	13.35
111	2008	136	1145	59.44	71.8	4.915	165.4	25.6	13.35
111	2008	136	1200	58.81	72.4	5.439	168.1	24.93	13.35
111	2008	136	1215	58.65	71.5	5.596	179.7	24.48	13.35
111	2008	136	1230	58.86	71.6	6.374	170.1	23.64	13.34
111	2008	136	1245	59.53	70.6	5.423	167.5	27.62	13.34
111	2008	136	1300	59.75	71.4	5.171	152.7	27.32	13.34
111	2008	136	1315	59.95	68.83	5.691	168.9	18.44	13.34
111	2008	136	1330	60.47	68.29	5.769	170	22.03	13.34
111	2008	136	1345	60.76	66.29	5.483	179.4	24.39	13.33
111	2008	136	1400	60.28	71.4	4.962	194.2	30.74	13.33
111	2008	136	1415	60.72	71.8	4.911	200.3	30.62	13.31
111	2008	136	1430	59.91	71.6	5.385	169.3	23.69	13.31
111	2008	136	1445	59.86	71	5.888	160.3	20.22	13.32
111	2008	136	1500	61.32	67.63	4.037	190.4	40.88	13.32
111	2008	136	1515	61.78	65.45	4.063	191.9	32.76	13.31
111	2008	136	1530	62.1	68.76	4.679	197	27.38	13.3
111	2008	136	1545	61.54	68.43	4.611	194.1	35.02	13.28
111	2008	136	1600	61.69	69.03	5.099	181.9	31.18	13.1
111	2008	136	1615	61.41	67.72	4.403	213.6	35.05	13.05
111	2008	136	1630	61.63	66.05	3.787	189.9	28.72	12.94
111	2008	136	1645	62.27	65.68	4.331	205.4	43.01	12.96
111	2008	136	1700	62.51	65.58	3.876	193.2	27	12.92
111	2008	136	1715	61.65	68.76	3.95	187.5	31.99	12.92
111	2008	136	1730	61.19	67.49	3.849	182.5	21.68	12.98
111	2008	136	1745	61.58	67.63	3.501	214.3	29.38	12.95
111	2008	136	1800	62.56	65.32	2.626	175.5	39.69	12.93
111	2008	136	1815	62.3	66.89	2.965	168	33.87	12.84
111	2008	136	1830	62.02	67.39	2.479	192.8	29.32	12.79
111	2008	136	1845	61.01	70.9	2.858	203.9	23.37	12.76
111	2008	136	1900	60.34	73.1	2.373	221.8	28.75	12.75
111	2008	136	1915	60.27	72.2	1.517	236	26.3	12.73
111	2008	136	1930	60.26	71.1	0.513	266.6	40.67	12.72
111	2008	136	1945	60.58	70.9	0.498	252	13.66	12.71
111	2008	136	2000	60.31	71.3	0.992	170.7	32.86	12.71
111	2008	136	2015	60	76.1	1.821	177.5	30.62	12.7
111	2008	136	2030	58.65	78	1.302	253	9.43	12.69
111	2008	136	2045	57.79	81.1	1.643	269.8	19.2	12.67
111	2008	136	2100	57.44	82.4	0.353	258.3	9.98	12.67
111	2008	136	2115	56.92	84	0.121	226.8	6.364	12.67
111	2008	136	2130	56.48	85.2	0.263	255.3	5.372	12.66
111	2008	136	2145	56.39	85.4	na	na	na	12.65
111	2008	136	2200	56.35	85.7	na	na	na	12.64
111	2008	136	2215	56.05	85.6	0.732	311.5	9.27	12.64
111	2008	136	2230	56.03	85.5	2.083	301.4	18.26	12.63
111	2008	136	2245	56.35	85.2	0.361	343.7	18.89	12.63
111	2008	136	2300	56.56	84.8	0.111	88.7	5.487	12.62
111	2008	136	2315	56.51	85	0.084	277.1	1.269	12.62
111	2008	136	2330	55.81	86.4	na	na	na	12.62
111	2008	136	2345	55.86	86.6	na	na	na	12.61
111	2008	136	2400	55.63	86.9	0.516	338.4	18.39	12.6
111	2008	137	15	54.87	87.9	na	na	na	12.6

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	137	30	54.06	89	0.009	356	0	12.59
111	2008	137	45	53.98	89.2	na	na	na	12.58
111	2008	137	100	53.51	90	0.368	273.1	2.014	12.58
111	2008	137	115	53.36	90.3	na	na	na	12.57
111	2008	137	130	53.2	90.8	0.029	23.89	4.839	12.56
111	2008	137	145	53.52	90.5	0.036	1.966	1.837	12.56
111	2008	137	200	53.83	89.8	0.308	330.3	21.92	12.55
111	2008	137	215	53.61	90.1	na	na	na	12.55
111	2008	137	230	53.9	90.6	na	na	na	12.55
111	2008	137	245	54.41	90.4	na	na	na	12.54
111	2008	137	300	54.6	90.8	0.247	85.1	4.803	12.53
111	2008	137	315	54.98	90.4	0.375	65.69	11.9	12.53
111	2008	137	330	55.29	90.7	0.757	72.1	14.67	12.52
111	2008	137	345	55.93	90.4	1.02	76.6	19.14	12.52
111	2008	137	400	56.03	90.6	1.215	79.4	23.3	12.52
111	2008	137	415	56.14	90.6	0.881	61.63	28.76	12.52
111	2008	137	430	56.21	90.2	0.92	64.07	21.35	12.52
111	2008	137	445	56.31	89.6	1.061	82.8	23.8	12.52
111	2008	137	500	56.32	88.6	1.399	96	27.93	12.51
111	2008	137	515	56.3	87.9	0.916	111.3	24.69	12.51
111	2008	137	530	56.28	87.7	0.215	42.89	3.801	12.51
111	2008	137	545	56.15	87.8	0.428	61.61	16.14	12.51
111	2008	137	600	56.23	87	1.501	82.1	16.47	12.5
111	2008	137	615	56.4	86.5	0.837	127.9	40.68	12.5
111	2008	137	630	56.46	86.8	0.774	200.7	15.22	12.51
111	2008	137	645	56.51	86.7	0.639	175.1	20.3	12.5
111	2008	137	700	56.82	83.1	1.356	155.9	25.47	12.49
111	2008	137	715	57.18	79.7	2.644	112.7	30.91	12.5
111	2008	137	730	57.35	78.3	2.65	120.3	27.43	12.5
111	2008	137	745	57.48	77.2	2.512	100.7	32.4	12.5
111	2008	137	800	57.66	74.8	2.776	73.8	39.82	12.5
111	2008	137	815	57.76	74.2	3.743	111.2	36.87	12.51
111	2008	137	830	57.69	74	3.598	94.8	42.32	12.5
111	2008	137	845	57.64	74.2	3.09	70	32.81	12.5
111	2008	137	900	57.41	75.4	3.372	67.68	26.94	12.53
111	2008	137	915	56.64	78.3	3.226	72	36.52	12.51
111	2008	137	930	56.26	77.8	3.336	74.9	27.83	12.5
111	2008	137	945	56.06	76.9	3.978	79.7	25.12	12.5
111	2008	137	1000	56.09	78.7	4.567	77.4	27.95	12.53
111	2008	137	1015	55.61	77.6	5.048	78.4	24.46	12.55
111	2008	137	1030	55.7	75.3	4.804	84.3	25.28	12.6
111	2008	137	1045	55.93	74.2	4.446	82.2	27.01	12.63
111	2008	137	1100	55.79	76.1	4.315	77.4	32.6	12.56
111	2008	137	1115	55.27	80.3	3.525	69.6	26.66	12.55
111	2008	137	1130	54.4	83.9	2.53	48.84	30.28	12.55
111	2008	137	1145	53.99	87.1	2.822	32.74	26.96	12.54
111	2008	137	1200	53.35	88.8	3.581	74	22.49	12.54
111	2008	137	1215	53.36	90	4.039	101.7	40.18	12.6
111	2008	137	1230	53.86	89.1	5.792	122.6	27.55	12.74
111	2008	137	1245	53.57	89.2	6.182	119.5	33.69	12.76
111	2008	137	1300	53.26	88	8.78	121.6	27.33	13.02
111	2008	137	1315	53.48	86	9.47	119.3	29.9	13.43
111	2008	137	1330	52.92	85.9	9.32	121.2	26.39	13.02
111	2008	137	1345	52.13	84.5	7.75	123.8	32.39	12.87
111	2008	137	1400	51.33	85.4	7.95	122.7	31.51	12.8
111	2008	137	1415	51.03	86	7.1	116.5	32.38	12.76
111	2008	137	1430	50.7	89	7.07	121	29.16	12.81
111	2008	137	1445	50.19	89.8	7.11	116	32.73	12.72
111	2008	137	1500	49.99	89.7	8.38	117	30.42	12.72
111	2008	137	1515	49.88	90.3	6.851	112.9	33.55	12.66

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	137	1530	49.63	90.1	6.958	106.5	38.05	12.62
111	2008	137	1545	49.25	90.4	6.99	112.3	36.04	12.61
111	2008	137	1600	48.93	90.2	5.769	105.2	32.75	12.56
111	2008	137	1615	48.59	90.8	7.19	105.8	40.76	12.55
111	2008	137	1630	48.36	91.3	6.744	104.8	37.75	12.54
111	2008	137	1645	48	92.4	7.08	91.9	30.84	12.53
111	2008	137	1700	47.64	92.5	5.957	82	30.9	12.52
111	2008	137	1715	47.31	92.8	4.297	71.5	37.8	12.51
111	2008	137	1730	47.03	93.1	5.763	80.7	27.83	12.5
111	2008	137	1745	47	93.3	6.964	87.8	29.21	12.5
111	2008	137	1800	47.2	93.4	6.477	83	30.32	12.5
111	2008	137	1815	47.4	93.1	7.32	80.6	25.45	12.5
111	2008	137	1830	47.61	93.1	6.38	79.8	25.25	12.5
111	2008	137	1845	47.7	92.8	6.271	80.9	25.98	12.49
111	2008	137	1900	47.94	92.9	4.929	77.5	39	12.49
111	2008	137	1915	47.93	93	6.196	77.3	38.18	12.49
111	2008	137	1930	47.77	92.8	5.904	80	37.6	12.48
111	2008	137	1945	47.63	93.1	4.52	67.47	38.7	12.48
111	2008	137	2000	47.55	93.3	5.032	69.65	46.3	12.49
111	2008	137	2015	47.38	93.4	7.15	79.3	32.79	12.48
111	2008	137	2030	47.19	93.5	8	84.9	29.95	12.48
111	2008	137	2045	47.4	93.3	7.1	83.8	23.86	12.48
111	2008	137	2100	47.69	93.1	4.804	89	31.11	12.48
111	2008	137	2115	47.8	93.3	7.02	81.2	26.86	12.48
111	2008	137	2130	48.01	93.6	4.641	73.5	32.54	12.47
111	2008	137	2145	48.47	94	4.285	65.22	53.42	12.48
111	2008	137	2200	48.78	93.6	5.661	80.8	43	12.48
111	2008	137	2215	48.74	92.9	6.835	76.6	42.61	12.48
111	2008	137	2230	48.64	92.9	6.221	68.27	32.92	12.48
111	2008	137	2245	48.9	92.8	5.761	40.6	35.77	12.47
111	2008	137	2300	48.95	93	5.129	47.93	39.06	12.48
111	2008	137	2315	48.84	93.3	5.217	62.05	41.48	12.48
111	2008	137	2330	48.85	93	6.684	71.8	41.72	12.47
111	2008	137	2345	48.78	92.7	7.06	71.4	43.11	12.47
111	2008	137	2400	48.54	92.6	6.066	50.24	38.5	12.47
111	2008	138	15	48.41	92.9	5.036	43.36	36.12	12.47
111	2008	138	30	48.52	93.1	5.647	37.93	34.95	12.48
111	2008	138	45	48.7	93.2	6.329	43.11	39.47	12.47
111	2008	138	100	48.96	92.4	7.27	40.92	41.14	12.47
111	2008	138	115	48.97	91.9	7.91	30.76	30.17	12.47
111	2008	138	130	48.64	92.1	7.31	23.43	34.87	12.47
111	2008	138	145	48.39	91.8	7.07	22.2	30.62	12.47
111	2008	138	200	48.29	91.3	7.49	20.93	26.18	12.47
111	2008	138	215	48.16	91.4	7.99	20.44	30.31	12.46
111	2008	138	230	47.91	91.7	7.36	25.51	29.03	12.46
111	2008	138	245	47.77	91.5	7.35	17.93	23.3	12.46
111	2008	138	300	47.81	90.8	7.49	11.97	27.39	12.46
111	2008	138	315	47.78	91.1	6.821	360	27.16	12.46
111	2008	138	330	47.63	90.1	7.06	14.49	25.15	12.46
111	2008	138	345	47.54	88.8	6.93	16.77	26.37	12.46
111	2008	138	400	47.37	87.6	6.194	10.22	27.94	12.46
111	2008	138	415	47.12	87.9	5.566	14.57	26.32	12.45
111	2008	138	430	46.87	86.7	6.146	21.24	23.59	12.45
111	2008	138	445	46.93	86.4	5.387	7.04	27.56	12.44
111	2008	138	500	46.77	87.2	4.855	352.8	23.63	12.44
111	2008	138	515	46.56	87.6	3.872	356.8	25.15	12.45
111	2008	138	530	46.35	88.5	3.815	341.5	21.74	12.44
111	2008	138	545	46.46	88.9	4.214	327.1	20.14	12.44
111	2008	138	600	46.62	89.7	4.44	322.3	20	12.44
111	2008	138	615	46.99	89.3	4.357	329.9	23.14	12.44

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	138	630	47.12	89.4	3.054	326	19.51	12.47
111	2008	138	645	47.64	88.4	3.12	324.7	18.92	13.61
111	2008	138	700	48.26	86.8	4.438	324.7	21.13	13.6
111	2008	138	715	49.09	82.9	4.76	332.9	28.69	13.58
111	2008	138	730	50.12	79.8	4.329	327.3	24.34	13.58
111	2008	138	745	51.21	76.6	5.844	329.5	22.83	13.56
111	2008	138	800	51.85	73	7.07	321.8	21.85	13.56
111	2008	138	815	52.53	69.65	7.58	339.4	24.03	13.54
111	2008	138	830	53.57	64.73	6.996	338.3	24.47	13.54
111	2008	138	845	54.77	61.28	7.02	339.6	25.52	13.52
111	2008	138	900	55.69	58.02	7.52	342.1	26.3	13.51
111	2008	138	915	56.86	54.4	6.936	349.4	30.8	13.49
111	2008	138	930	57.97	52.26	7.82	353.6	21.82	13.48
111	2008	138	945	59.08	48.75	6.541	342.2	29.84	13.47
111	2008	138	1000	59.79	48.64	7.67	341	23.7	13.46
111	2008	138	1015	60.6	47.11	7.28	346.9	30.89	13.45
111	2008	138	1030	60.9	45.43	6.609	331	25.23	13.43
111	2008	138	1045	61.46	45.86	6.305	329.1	26.4	13.42
111	2008	138	1100	61.74	44.72	7.62	318.9	21.9	13.41
111	2008	138	1115	62.77	40.64	8.05	345.3	26.55	13.4
111	2008	138	1130	63.39	41.51	6.622	341.5	29.64	13.4
111	2008	138	1145	64.33	37.39	6.612	331.3	25.37	13.38
111	2008	138	1200	64.63	41.77	8.16	305.7	29.04	13.37
111	2008	138	1215	64.79	44.28	8.14	323.3	24.15	13.37
111	2008	138	1230	65.9	37.19	8.57	328.4	34.96	13.36
111	2008	138	1245	66.36	37.99	8.67	303.1	22.96	13.36
111	2008	138	1300	67.74	31.77	7.5	316.3	31.97	13.34
111	2008	138	1315	68.75	35.72	7.92	307.6	30.72	13.33
111	2008	138	1330	69.51	30.33	8.28	326.9	33.58	13.32
111	2008	138	1345	69.62	29.66	7.87	328.8	33.4	13.32
111	2008	138	1400	70.1	30.53	9.52	306.1	27.08	13.32
111	2008	138	1415	69.95	31.76	10.32	320.1	21.44	13.31
111	2008	138	1430	70.3	30.39	7.42	317.5	29.98	13.12
111	2008	138	1445	68.63	43.4	8.65	271.1	28.99	13.1
111	2008	138	1500	67.02	44.6	8.84	252.3	27.52	13.33
111	2008	138	1515	68.26	40.79	7.52	255.6	28.77	13.33
111	2008	138	1530	68.21	42.29	9.45	253.8	25.31	13.33
111	2008	138	1545	68.03	47.34	8.03	252.4	27.05	13.19
111	2008	138	1600	67.96	44.57	10.37	267.2	23.4	13.18
111	2008	138	1615	66.62	48.75	8.36	259	25.69	13.11
111	2008	138	1630	65.71	53.43	7.97	255	25.35	13.02
111	2008	138	1645	62.66	61.13	7.1	245.8	27.01	13.1
111	2008	138	1700	61.82	61.8	5.82	234.9	27.03	13.13
111	2008	138	1715	64.06	55.22	6.583	259.5	29.83	13.02
111	2008	138	1730	65.64	54.38	7.5	244.5	31.56	12.96
111	2008	138	1745	68.71	39.8	11.75	277.9	22.75	12.95
111	2008	138	1800	69.65	41.27	10.44	278.9	23.15	12.94
111	2008	138	1815	69.01	43.58	10.04	278.3	19.6	12.92
111	2008	138	1830	68.69	44.01	9.65	281.4	21.6	12.87
111	2008	138	1845	68.49	44.25	9.55	283	19.81	12.83
111	2008	138	1900	68.37	44.85	7.93	285.4	15.6	12.81
111	2008	138	1915	67.92	45.72	6.251	286.6	16.91	12.81
111	2008	138	1930	67.65	45.62	5.761	291.9	19.05	12.79
111	2008	138	1945	67.36	45.95	4.468	278.7	24.38	12.78
111	2008	138	2000	67.19	46.52	4.637	271.7	20.62	12.77
111	2008	138	2015	66.63	55.82	4.488	246	38.68	12.76
111	2008	138	2030	60.56	70.8	4.538	228.6	30.62	12.76
111	2008	138	2045	58.33	73.6	3.882	241.5	27.58	12.75
111	2008	138	2100	57.67	74.7	4.609	248.7	27.1	12.74
111	2008	138	2115	57.63	74.7	3.395	250.7	24.94	12.73

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	138	2130	58.11	74.7	3.581	265.9	27.71	12.72
111	2008	138	2145	58.44	74.6	3.191	267.8	19.98	12.71
111	2008	138	2200	58.22	76.5	2.725	251.8	26.04	12.71
111	2008	138	2215	58.12	76.6	2.283	231.8	24.44	12.71
111	2008	138	2230	57.88	77.4	2.546	251.1	28.34	12.71
111	2008	138	2245	58.27	74.9	3.293	262.2	24.13	12.69
111	2008	138	2300	58.59	74.5	3.243	266.3	23.92	12.69
111	2008	138	2315	59.04	72.7	3.839	273.9	17.84	12.68
111	2008	138	2330	59.39	76.5	5.282	268.6	23.18	12.69
111	2008	138	2345	58.11	81.1	5.296	263.2	28.39	12.68
111	2008	138	2400	57.48	82.4	4.992	272.6	20.46	12.68
111	2008	139	15	57.31	83.2	3.994	262.4	18.34	12.67
111	2008	139	30	57.01	84	3.485	268.9	23.14	12.67
111	2008	139	45	57.09	83.3	3.156	270.4	17.59	12.66
111	2008	139	100	57.67	82.1	3.035	263	21.7	12.66
111	2008	139	115	57.9	81.5	4.027	272.1	22.16	12.66
111	2008	139	130	58.03	81.3	3.626	276.4	16.71	12.65
111	2008	139	145	58.28	79.4	4.301	291.1	16.91	12.65
111	2008	139	200	58.53	79.9	2.163	266.6	25.09	12.65
111	2008	139	215	58.08	81.3	1.893	273.4	16.01	12.65
111	2008	139	230	57.69	83	2.132	260.9	21.23	12.65
111	2008	139	245	57.86	82.4	3.416	295.2	16.49	12.65
111	2008	139	300	57.77	82.6	3.487	288.1	16.23	12.64
111	2008	139	315	57.22	83.9	3.585	294.2	20.13	12.64
111	2008	139	330	57.03	85	2.78	303	19.64	12.63
111	2008	139	345	56.72	85.2	2.941	306	15.9	12.63
111	2008	139	400	56.53	85.5	3.173	279.7	17.19	12.63
111	2008	139	415	56.03	86	1.455	277.2	25.13	12.62
111	2008	139	430	55.44	87.2	1.032	305.6	13.8	12.62
111	2008	139	445	55.33	86.9	2.533	317	16.54	12.62
111	2008	139	500	55.09	87.4	2.339	320	19.85	12.61
111	2008	139	515	54.71	88	1.944	328.2	16.71	12.61
111	2008	139	530	54.42	86.1	2.828	317	18.03	12.6
111	2008	139	545	54.23	85.3	2.443	312.8	15.06	12.6
111	2008	139	600	53.93	84	2.971	327	17.16	12.6
111	2008	139	615	54.28	81.8	3.352	321.6	21.7	12.6
111	2008	139	630	54.85	79.8	4.593	319.5	20.84	12.64
111	2008	139	645	55.74	76.8	5.135	320	18.73	13.55
111	2008	139	700	56.54	73.9	6.291	313.2	16.3	13.53
111	2008	139	715	57.09	71.5	6.481	318	21.59	13.52
111	2008	139	730	57.72	68.66	6.718	312.2	22.29	13.51
111	2008	139	745	58.21	66.11	6.382	325.3	28.08	13.51
111	2008	139	800	58.53	62.6	6.996	338.5	28.32	13.49
111	2008	139	815	59.08	61.19	5.395	331.3	25.29	13.48
111	2008	139	830	59.92	56.27	5.58	349	33.65	13.47
111	2008	139	845	60.37	54.4	5.622	336.7	30.42	13.46
111	2008	139	900	61.32	52.32	4.436	347.2	30.1	13.45
111	2008	139	915	61.97	51.61	4.714	321.8	32.5	13.44
111	2008	139	930	61.91	49.53	5.02	284.4	27.66	13.43
111	2008	139	945	62.59	44.45	5.225	318.4	26.26	13.42
111	2008	139	1000	63.07	44.05	4.559	289.8	39.97	13.41
111	2008	139	1015	63.76	42.14	3.037	316.1	37.89	13.38
111	2008	139	1030	64.29	45.89	4.81	303.2	38.72	13.38
111	2008	139	1045	64.27	48.76	5.266	255	34.61	13.38
111	2008	139	1100	63.81	49.9	5.55	227.2	39.57	13.37
111	2008	139	1115	63.87	55.95	6.265	233.8	36.93	13.37
111	2008	139	1130	62.82	55.11	6.614	218	31.73	13.37
111	2008	139	1145	63.68	50	4.494	220.8	39.41	13.37
111	2008	139	1200	62.61	55.25	6.346	211.4	22.16	13.37
111	2008	139	1215	62.57	56.96	5.681	226.8	30.27	13.37

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	139	1230	62.68	54.78	5.886	223.1	32	13.36
111	2008	139	1245	62.38	59.93	6.068	224.6	29.11	13.36
111	2008	139	1300	60.92	62.41	5.864	227.8	31	13.36
111	2008	139	1315	58.72	67.26	6.283	214.2	27.61	13.39
111	2008	139	1330	58.44	66.66	5.119	217	25.91	13.41
111	2008	139	1345	59.16	60.1	6.39	209.1	29.62	13.42
111	2008	139	1400	59.57	63.35	6.414	202.4	30.09	13.42
111	2008	139	1415	58.42	67.03	5.876	218.4	37.3	12.95
111	2008	139	1430	57.6	66.14	4.984	246.2	33.45	12.88
111	2008	139	1445	56.65	78.1	3.517	251.1	36	12.92
111	2008	139	1500	55.06	81.6	4.399	245.8	28.66	12.87
111	2008	139	1515	54.64	82.6	3.237	233.5	36.42	12.85
111	2008	139	1530	54.56	83.1	1.729	256.5	20.03	12.78
111	2008	139	1545	54.49	84.5	1.072	227.9	22.28	12.76
111	2008	139	1600	54.6	85.9	0.927	217	32.65	12.75
111	2008	139	1615	54.42	88.4	1.38	256.5	31.59	12.74
111	2008	139	1630	54.39	90.6	3.251	182.1	22.13	12.74
111	2008	139	1645	54.7	91.3	3.577	170.7	31.39	12.9
111	2008	139	1700	55.14	90.8	3.561	163.9	27.08	13.1
111	2008	139	1715	55.08	90	4.43	171.5	23.74	13.07
111	2008	139	1730	55.22	87.3	4.617	192.6	25.54	13.05
111	2008	139	1745	55.14	88.4	4.694	191.5	30.7	13.56
111	2008	139	1800	54.88	87.1	4.637	209.5	31.45	13.13
111	2008	139	1815	53.98	88.6	4.597	215.2	27.35	12.88
111	2008	139	1830	53.52	89.4	3.489	224.5	36.06	12.82
111	2008	139	1845	53.49	89.9	3.344	239	29.93	12.79
111	2008	139	1900	53.6	90.4	2.723	249.5	26.83	12.73
111	2008	139	1915	53.79	91	2.033	278.5	26.39	12.71
111	2008	139	1930	53.94	91.6	2.367	259.5	29.94	12.7
111	2008	139	1945	54.21	92.2	3.124	268.6	21.92	12.69
111	2008	139	2000	54.86	91.6	4.962	278.5	21.15	12.68
111	2008	139	2015	55.41	90.4	5.129	277.4	17.18	12.68
111	2008	139	2030	55.58	87.7	6.329	280.3	16.71	12.68
111	2008	139	2045	55.41	85.4	5.149	277.7	16.72	12.68
111	2008	139	2100	55.27	85.4	4.031	286.9	18.88	12.68
111	2008	139	2115	55.14	85.6	4.438	292.7	20.44	12.67
111	2008	139	2130	54.79	86.8	3.243	285.1	13.92	12.67
111	2008	139	2145	54.65	87.4	2.965	305.3	16.41	12.66
111	2008	139	2200	54.46	88.1	2.878	303.2	16.17	12.66
111	2008	139	2215	54.29	88.9	2.852	300.2	12.34	12.66
111	2008	139	2230	53.93	89.3	2.462	286.7	14.87	12.66
111	2008	139	2245	53.56	90.6	2.508	286.2	17.2	12.66
111	2008	139	2300	53.8	90.3	2.969	279.9	16.91	12.64
111	2008	139	2315	53.93	90.6	2.327	289.4	15.11	12.64
111	2008	139	2330	54.09	89.6	3.658	293.7	15.76	12.63
111	2008	139	2345	54.17	88.4	4.313	308.4	15.7	12.63
111	2008	139	2400	54.01	87.8	4.853	304.5	15.14	12.63
111	2008	140	15	53.43	87.7	4.133	313.9	16.76	12.62
111	2008	140	30	52.93	85.3	3.868	319.9	19.85	12.62
111	2008	140	45	52.61	78.9	4.923	321.8	18.97	12.61
111	2008	140	100	52.05	78.4	3.914	323.7	22.13	12.6
111	2008	140	115	51.26	79.3	3.471	335.5	16.93	12.6
111	2008	140	130	50.75	77.4	4.011	339.4	18.66	12.59
111	2008	140	145	50.64	77.7	4.025	338.1	23.74	12.58
111	2008	140	200	50.54	75.4	4.536	334.7	21.79	12.58
111	2008	140	215	50.4	76.2	3.729	323.1	19.41	12.57
111	2008	140	230	49.87	78.3	3.134	327.7	16.71	12.56
111	2008	140	245	49.61	78.8	3.64	303.7	18.52	12.56
111	2008	140	300	49.33	79.6	3.531	313.5	16.4	12.56
111	2008	140	315	48.98	79.7	3.265	333	21.29	12.56

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	140	330	48.57	78.5	3.622	313.6	21.56	12.55
111	2008	140	345	48.49	75.9	3.557	304.3	16.22	12.55
111	2008	140	400	47.96	74.8	2.717	307.9	15.69	12.55
111	2008	140	415	47.5	74.1	2.743	307.9	16.12	12.54
111	2008	140	430	47.01	72.6	2.248	308.4	19.16	12.54
111	2008	140	445	46.87	70.8	2.927	311.5	16.74	12.53
111	2008	140	500	46.51	71.2	1.874	325.7	19.64	12.53
111	2008	140	515	45.79	73.6	0.654	297.6	14.97	12.53
111	2008	140	530	45.2	75.4	0.949	285.8	12.82	12.52
111	2008	140	545	46.23	69.75	2.01	294.7	19.23	12.51
111	2008	140	600	47.61	63.63	2.703	285.2	19.94	12.52
111	2008	140	615	48.3	62.38	3.63	289.7	20.68	12.56
111	2008	140	630	48.8	62.95	3.422	287.4	18.32	12.69
111	2008	140	645	49.16	60.66	5.151	281.6	17.72	13.21
111	2008	140	700	49.95	58.96	5.314	296.3	22.97	13.63
111	2008	140	715	50.62	59.45	6.66	299.6	22.72	13.62
111	2008	140	730	51.36	56.5	7.66	299.5	24.68	13.6
111	2008	140	745	52	51.94	8.25	315.1	23.81	13.59
111	2008	140	800	52.72	47.79	7.74	316.5	23.83	13.58
111	2008	140	815	52.92	45.28	9.04	310.8	21.69	13.57
111	2008	140	830	53.29	41.83	8.54	317.9	24.7	13.56
111	2008	140	845	53.67	40.46	10.71	310.3	25.51	13.55
111	2008	140	900	53.72	42.09	10.54	321.3	20.13	13.54
111	2008	140	915	54.09	43.7	10.89	308	27	13.54
111	2008	140	930	54.54	40.48	10.14	300.3	19.38	13.53
111	2008	140	945	55.13	37.67	9.66	306.6	27.95	13.51
111	2008	140	1000	55.53	39.31	10.56	307.2	24.89	13.5
111	2008	140	1015	55.61	38.17	11.58	318.6	26.99	13.51
111	2008	140	1030	55.17	39.48	11.16	307	18.82	13.51
111	2008	140	1045	55.86	40.98	11.24	298.7	19.56	13.51
111	2008	140	1100	56.34	37.7	12.21	296.4	24.44	13.49
111	2008	140	1115	57.02	36.03	10.88	306.2	28.47	13.45
111	2008	140	1130	56.73	37.57	10.19	315.9	27.21	13.49
111	2008	140	1145	56.05	36.94	11.29	321.9	20.22	13.49
111	2008	140	1200	56.38	35.4	11.5	317.9	26.62	13.5
111	2008	140	1215	57.06	37.04	12.07	301.2	23.87	13.5
111	2008	140	1230	56.95	36.23	8.87	304	26.29	13.49
111	2008	140	1245	56.67	36.1	11.76	308.3	23.38	13.49
111	2008	140	1300	56.53	35.2	10.75	315.9	27.89	13.51
111	2008	140	1315	56.15	37.81	10.65	308.8	25.27	13.5
111	2008	140	1330	56.35	36.77	11.04	310	23.09	13.07
111	2008	140	1345	55.19	41.45	12.97	302.8	21.31	13.02
111	2008	140	1400	55.52	40.38	10.24	292.1	23.31	13.53
111	2008	140	1415	55.48	44.53	13.96	307.5	18.78	13.08
111	2008	140	1430	53.34	47.68	11.5	308.4	22.75	13.28
111	2008	140	1445	55.1	41.22	12.96	307.6	23.58	13.47
111	2008	140	1500	56.95	41.19	11.66	302.2	20.12	13.51
111	2008	140	1515	56.26	43.33	10.85	313.6	24.05	13.51
111	2008	140	1530	56.12	44.86	10.14	318.1	25.6	13.51
111	2008	140	1545	57.02	41.39	9.94	309.9	25.36	13.51
111	2008	140	1600	57.69	38.34	10.28	307.3	23.26	13.09
111	2008	140	1615	57.6	35.83	8.77	315.5	28.1	13.33
111	2008	140	1630	57.27	38.81	10.03	320.7	21.98	13.49
111	2008	140	1645	57.26	38.98	9.27	312.8	25.83	13.5
111	2008	140	1700	58.06	33.89	9.4	312.1	23.27	13.13
111	2008	140	1715	58.88	34.96	9.76	319	26.88	13.11
111	2008	140	1730	57.58	33.36	10.02	320.4	24.27	13.3
111	2008	140	1745	58.13	33.56	10.42	316.9	23.14	13.15
111	2008	140	1800	58.42	31.48	12.16	315.2	19.3	13.11
111	2008	140	1815	58.12	32.75	10.61	315.2	24.91	12.96

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	140	1830	58	32.52	10.01	319.8	25.71	12.92
111	2008	140	1845	57.83	31.68	11.16	303.2	17.02	12.85
111	2008	140	1900	57.44	32.65	9.61	320.8	25.53	12.81
111	2008	140	1915	56.99	33.29	10.27	316.3	19.52	12.79
111	2008	140	1930	56.56	35.66	7.24	324.2	22.57	12.77
111	2008	140	1945	56.04	36.3	6.227	312.2	25.28	12.76
111	2008	140	2000	55.73	35.47	7.18	320.6	20.99	12.75
111	2008	140	2015	55.3	37.65	4.867	320.8	22.02	12.74
111	2008	140	2030	54.91	39.36	5.669	326.1	23.41	12.72
111	2008	140	2045	54.48	41.93	5.844	331	21.57	12.72
111	2008	140	2100	54.03	44.38	5.598	341.8	24.51	12.71
111	2008	140	2115	53.45	44.95	6.531	338.1	26.81	12.71
111	2008	140	2130	53.17	42.87	6.811	335.3	25.65	12.7
111	2008	140	2145	52.9	43.71	4.688	325.5	26.38	12.69
111	2008	140	2200	52.4	44.85	4.486	330	27.29	12.68
111	2008	140	2215	52.39	43.01	8.1	328.7	24.85	12.68
111	2008	140	2230	52.14	44.38	6.233	316.4	25.24	12.67
111	2008	140	2245	51.78	44.85	4.526	323.3	25.99	12.67
111	2008	140	2300	51.4	45.82	3.899	318.9	20.67	12.66
111	2008	140	2315	50.71	48.03	2.196	301.8	24.34	12.66
111	2008	140	2330	49.64	51.92	1.561	276.5	19.04	12.65
111	2008	140	2345	48.63	52.56	1.858	284.5	32.69	12.64
111	2008	140	2400	48.21	55.61	0.972	284.3	30.03	12.63
111	2008	141	15	46.57	63.01	0.147	238.8	3.642	12.62
111	2008	141	30	45.23	66.09	0.076	329.7	3.075	12.61
111	2008	141	45	45.25	65.02	0.915	272.3	14.13	12.6
111	2008	141	100	45.23	65.97	1.228	275.6	16.89	12.59
111	2008	141	115	45.05	65.34	1.535	274.9	11.03	12.58
111	2008	141	130	45.57	61.75	1.717	279.8	11.95	12.57
111	2008	141	145	45.73	62.66	0.969	271.7	16.29	12.57
111	2008	141	200	46.23	61.89	3.094	278.1	14.44	12.56
111	2008	141	215	47.32	63.19	3.747	279	13.88	12.55
111	2008	141	230	47.74	66.84	3.41	275.2	14.32	12.55
111	2008	141	245	47.82	68.41	3.261	281.8	12.76	12.55
111	2008	141	300	47.52	69.58	2.685	280.3	12.47	12.54
111	2008	141	315	47.73	66.5	3.42	287.8	17.75	12.53
111	2008	141	330	47.96	66	2.933	287.8	19.34	12.53
111	2008	141	345	47.62	67.34	2.477	276.6	13.63	12.53
111	2008	141	400	46.34	70.9	1.243	268.1	14.5	12.53
111	2008	141	415	45.63	74.4	1.52	286.2	16.33	12.52
111	2008	141	430	45.85	74.3	2.475	284	10.76	12.52
111	2008	141	445	45.95	75.3	1.822	270.3	13.6	12.51
111	2008	141	500	45.79	76.1	2.101	273.6	19.46	12.51
111	2008	141	515	46.12	75.9	2.177	286.4	15.55	12.51
111	2008	141	530	46.63	76	2.518	282.1	17.29	12.51
111	2008	141	545	47.91	73.4	3.211	274.4	14.84	12.51
111	2008	141	600	49.09	72.8	3.338	278.2	16.62	12.5
111	2008	141	615	49.79	72.4	2.075	284.6	15.39	12.51
111	2008	141	630	49.46	74.8	1.263	273.6	10.95	12.51
111	2008	141	645	49.45	74.7	0.478	283	6.961	12.55
111	2008	141	700	49.81	73.4	2.903	274.9	18.51	12.61
111	2008	141	715	50.41	71.1	3.475	275	18.55	12.64
111	2008	141	730	50.97	70.5	3.731	271.5	18.35	12.67
111	2008	141	745	51.28	69.27	3.807	280.1	16.92	12.73
111	2008	141	800	51.71	68.82	3.106	273.8	21.47	12.9
111	2008	141	815	52.1	64.73	3.346	266.6	18.65	13.03
111	2008	141	830	52.42	61.55	3.612	261.2	23.96	13.06
111	2008	141	845	52.72	66.2	4.426	260.7	21.37	13.06
111	2008	141	900	52.85	66.13	4.607	264.1	23.08	13.14
111	2008	141	915	53.2	61.28	3.906	273.9	28.07	13.26

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	141	930	53.7	60.41	2.946	281.8	18.03	13.14
111	2008	141	945	54.08	58.63	1.854	242.1	28.29	13.12
111	2008	141	1000	54.01	65.29	3.446	256.8	24.76	13.08
111	2008	141	1015	53.24	74.6	2.817	254.3	31.14	13.05
111	2008	141	1030	52.58	77.8	2.637	243.9	32.77	13.07
111	2008	141	1045	52.07	82.9	3.34	248.6	28.27	13.08
111	2008	141	1100	52.09	84.4	3.501	244.3	33.46	13.22
111	2008	141	1115	52.35	82.5	4.138	250.5	28.75	13.58
111	2008	141	1130	52.67	80.3	3.161	244.9	31.5	13.58
111	2008	141	1145	52.77	80.3	3.34	223.7	38.21	13.58
111	2008	141	1200	53.63	79.5	3.011	196.8	39.75	13.56
111	2008	141	1215	53.58	77.4	2.991	170.1	32.8	13.31
111	2008	141	1230	52.88	79	3.269	163	27.79	13.4
111	2008	141	1245	52.71	77.6	2.868	153.8	37.2	13.22
111	2008	141	1300	52.54	80.2	3.648	152	32.14	13.22
111	2008	141	1315	52.05	82.3	3.368	142.7	28.25	13.06
111	2008	141	1330	51.61	83.8	2.89	148.7	28.89	12.96
111	2008	141	1345	51.53	84.9	2.094	125.4	34.52	12.92
111	2008	141	1400	51.35	85.3	2.882	124	25.05	12.9
111	2008	141	1415	50.85	87.4	3.751	124.3	27.49	12.96
111	2008	141	1430	50.25	89.2	3.594	150	34.86	12.88
111	2008	141	1445	49.9	90.4	3.201	140.3	36.8	12.87
111	2008	141	1500	49.82	91.2	3.231	139.7	29.83	12.82
111	2008	141	1515	49.49	91.3	4.242	121.5	27.68	12.8
111	2008	141	1530	49.3	91	4.105	118.3	28.98	12.77
111	2008	141	1545	48.95	91.8	3.618	122.1	30.35	12.74
111	2008	141	1600	48.67	91.7	3.688	120.1	34.57	12.74
111	2008	141	1615	48.4	92	3.023	98.9	39.59	12.72
111	2008	141	1630	48.32	92.3	2.505	68.25	32.1	12.71
111	2008	141	1645	48.26	92.7	2.178	27.67	26.87	12.7
111	2008	141	1700	48.31	93.4	2.822	17.18	26.71	12.69
111	2008	141	1715	48.2	93.9	2.862	324.6	22.05	12.68
111	2008	141	1730	48.36	94.1	3.336	11.25	30.92	12.67
111	2008	141	1745	48.19	93.8	3.467	9.42	32.55	12.66
111	2008	141	1800	47.81	94.1	3.232	25.66	26.81	12.66
111	2008	141	1815	47.72	94.5	2.428	39.52	29.41	12.63
111	2008	141	1830	47.82	95	2.686	38.61	43.35	12.63
111	2008	141	1845	47.98	94.8	3.839	6.708	25.77	12.64
111	2008	141	1900	48	94.9	3.418	351.8	22.81	12.61
111	2008	141	1915	48.06	95	2.655	11.38	27.31	12.6
111	2008	141	1930	48.1	94.6	2.62	349	24.05	12.58
111	2008	141	1945	48.09	94.6	2.017	352.5	19.18	12.57
111	2008	141	2000	48.06	94.5	1.291	332.4	17.66	12.56
111	2008	141	2015	48.04	94.7	0.789	315	17.47	12.56
111	2008	141	2030	48.14	94.7	1.247	318.5	14.62	12.55
111	2008	141	2045	48.13	94.8	0.236	315.3	5.994	12.54
111	2008	141	2100	48.09	94.7	1.674	324.4	13.14	12.54
111	2008	141	2115	47.92	94.7	3.779	338.8	18.92	12.52
111	2008	141	2130	47.73	94.3	3.737	328.5	23.12	12.52
111	2008	141	2145	47.29	93.5	3.509	329.1	20.89	12.52
111	2008	141	2200	46.86	93	3.722	327.2	17.98	12.52
111	2008	141	2215	46.64	92.7	4.222	318.2	20.33	12.52
111	2008	141	2230	46.54	92.5	3.511	327	15.13	12.51
111	2008	141	2245	46.35	92.6	1.624	316.5	20.42	12.51
111	2008	141	2300	46.1	92.6	2.49	305.3	14.82	12.51
111	2008	141	2315	45.99	92.9	2.818	295.1	14.58	12.5
111	2008	141	2330	46.21	92.6	3.283	303.9	16.37	12.5
111	2008	141	2345	46.26	92.5	3.203	302.3	14.18	12.5
111	2008	141	2400	46.2	92.4	3.406	296.6	14.47	12.5
111	2008	142	15	46.18	92.4	3.811	300.5	12.98	12.5

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	142	30	46.14	92.4	4.696	309	13.63	12.5
111	2008	142	45	46.33	92.4	4.748	304.5	16	12.5
111	2008	142	100	46.4	92.5	5.115	287.8	15.6	12.5
111	2008	142	115	46.57	92.8	5.022	293.1	14.49	12.5
111	2008	142	130	46.83	92.6	5.236	301.5	14	12.5
111	2008	142	145	46.9	92.9	4.665	304.3	15.79	12.5
111	2008	142	200	46.83	93	4.242	312.4	15.33	12.5
111	2008	142	215	46.68	93.4	4.742	302	14.99	12.49
111	2008	142	230	46.62	93.6	4.603	309.1	14.88	12.49
111	2008	142	245	46.61	93.7	3.999	318.3	15.45	12.49
111	2008	142	300	46.45	93.9	3.882	310.8	16.42	12.49
111	2008	142	315	46.25	94	3.557	308	14.75	12.49
111	2008	142	330	46.25	94.1	4.021	310.1	15.46	12.49
111	2008	142	345	46.34	94.2	3.718	306.8	12	12.48
111	2008	142	400	46.47	94	3.876	310.2	14.17	12.48
111	2008	142	415	46.38	93.8	3.316	316.6	15.35	12.48
111	2008	142	430	46.21	93.9	3.358	321.4	18.49	12.48
111	2008	142	445	46.06	93.9	2.649	316.8	16.78	12.48
111	2008	142	500	45.83	94	3.241	308.6	14.44	12.47
111	2008	142	515	45.39	93.8	1.55	298.1	13.34	12.47
111	2008	142	530	44.89	94.4	2.661	280.5	7.81	12.48
111	2008	142	545	45.67	94.4	2.051	297.3	18.05	12.47
111	2008	142	600	46.17	93.8	2.072	310.1	13.35	12.47
111	2008	142	615	46.29	93.5	1.946	316.8	12.86	12.47
111	2008	142	630	46.4	93.6	2.349	310.9	16.7	12.48
111	2008	142	645	46.89	93	2.651	319.1	19.26	12.64
111	2008	142	700	47.56	91.8	3.412	310.3	17.53	12.91
111	2008	142	715	48.48	90.4	3.225	315.8	16.65	13.3
111	2008	142	730	49.22	88.4	3.612	309.9	15.83	13.46
111	2008	142	745	50.39	86.3	2.955	315.2	19	13.62
111	2008	142	800	51.09	85.2	2.679	334	15.28	13.55
111	2008	142	815	52.01	82.3	2.755	311.1	18.06	13.6
111	2008	142	830	54.06	74.1	3.535	335.6	28.26	13.57
111	2008	142	845	55.5	69.38	4.27	337.2	22.06	13.54
111	2008	142	900	56.71	65.52	4.051	306.1	21.98	13.52
111	2008	142	915	57.49	62.16	3.912	309.1	21.48	13.51
111	2008	142	930	58.78	57.78	5.258	293.6	28.97	13.48
111	2008	142	945	59.83	52.59	5.074	319.2	23.61	13.46
111	2008	142	1000	60.89	51.15	4.057	310.4	31.68	13.45
111	2008	142	1015	61.58	55.76	5.362	282.8	40.83	13.43
111	2008	142	1030	61.5	56.46	4.976	261.1	31.75	13.39
111	2008	142	1045	61.75	59.4	4.879	273.1	30.79	13.25
111	2008	142	1100	60.28	70.9	6.509	227.9	30.63	13.26
111	2008	142	1115	59.61	69.93	4.663	248.8	35.53	13.41
111	2008	142	1130	59.04	64.62	4.297	234.8	31.16	13.41
111	2008	142	1145	61.59	61.37	6.118	257.8	26.28	13.4
111	2008	142	1200	59.94	70.9	6.19	224.4	30.2	13.17
111	2008	142	1215	57.91	68.93	5.997	233.9	31.54	13.3
111	2008	142	1230	60.21	69.17	6.585	235	35.83	13.41
111	2008	142	1245	58.4	72.4	7.35	245.1	27.43	13.4
111	2008	142	1300	57.91	65.89	6.922	233.8	29.14	13.41
111	2008	142	1315	59.17	61.98	7.47	251.4	26.26	13.41
111	2008	142	1330	60.53	58.7	5.451	247.1	34.45	13.41
111	2008	142	1345	61.75	56.56	6.271	244.5	37.19	13.39
111	2008	142	1400	60.69	61.31	6.694	228.9	29.92	13.38
111	2008	142	1415	60.22	61.44	7.46	231.1	35.39	13.38
111	2008	142	1430	60.4	57.63	6.491	227	36.74	13.38
111	2008	142	1445	61.38	57.89	6.609	229.9	38.05	13.39
111	2008	142	1500	60.92	62.11	7.61	215.3	31.37	13.38
111	2008	142	1515	59.88	58.63	6.511	219	31.57	13.39

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	142	1530	58.97	65.28	6.616	236.8	36.89	13.4
111	2008	142	1545	57.11	73.7	5.221	254.2	30.85	13.04
111	2008	142	1600	56.8	73.8	6.416	283.9	24.1	13.04
111	2008	142	1615	57.62	71.9	7.87	282.7	17.25	13.44
111	2008	142	1630	57.34	75	6.72	268.3	24.3	13.43
111	2008	142	1645	57.32	73.3	6.436	251.4	34.84	13.44
111	2008	142	1700	57.56	73.6	6.69	248.5	25.78	13.45
111	2008	142	1715	57.39	71.1	5.888	259.7	25.72	13.45
111	2008	142	1730	57.23	67.51	6.279	262.4	28.72	12.93
111	2008	142	1745	56.92	69.66	5.977	266.3	25.72	12.85
111	2008	142	1800	57.19	68.69	3.45	270.9	32.94	12.82
111	2008	142	1815	57.56	70	2.935	239.5	27.76	12.87
111	2008	142	1830	57.82	68.69	3.434	234.4	30.56	12.83
111	2008	142	1845	58.07	67.45	3.352	224.2	31.33	12.79
111	2008	142	1900	57.54	68.82	2.574	263.1	36.03	12.77
111	2008	142	1915	57.46	69.29	2.204	297.5	38.06	12.75
111	2008	142	1930	57.34	61.56	4.345	346.3	23.04	12.73
111	2008	142	1945	56.66	62.76	3.013	353.7	21.26	12.72
111	2008	142	2000	56.16	61.96	2.331	328.1	21.5	12.73
111	2008	142	2015	55.96	61.09	2.295	327.1	28.46	12.72
111	2008	142	2030	55.89	61.01	2.961	341.5	25.7	12.71
111	2008	142	2045	55.62	62.81	4.418	312.6	23.74	12.71
111	2008	142	2100	55.3	64.69	2.305	266	29.96	12.71
111	2008	142	2115	54.88	65.82	0.507	196.1	12.31	12.69
111	2008	142	2130	54.43	67.43	0.787	249.8	21.4	12.69
111	2008	142	2145	53.81	70.6	na	na	na	12.69
111	2008	142	2200	53.7	70.7	na	na	na	12.68
111	2008	142	2215	53.75	70.9	0.085	259.5	3.932	12.68
111	2008	142	2230	53.88	72.4	0.299	269.5	6.522	12.67
111	2008	142	2245	53.39	75.3	0.091	263.7	2.392	12.67
111	2008	142	2300	52.49	78.6	na	na	na	12.66
111	2008	142	2315	52.25	77.1	1.187	277.1	46.31	12.66
111	2008	142	2330	52.85	76.8	2.146	277.6	16.4	12.66
111	2008	142	2345	52.81	78	1.212	288.1	10.34	12.66
111	2008	142	2400	52.9	77.9	1.875	282.6	16.7	12.65
111	2008	143	15	52.95	78.6	3.098	279.7	14.79	12.64
111	2008	143	30	53.17	79.2	3.859	283.5	17.05	12.64
111	2008	143	45	53.29	78.6	5.904	282.3	16.15	12.64
111	2008	143	100	53.32	80.4	5.975	282.3	14.84	12.63
111	2008	143	115	53.19	81	4.603	292.6	20.16	12.63
111	2008	143	130	53.1	81.5	4.367	300.1	17.54	12.63
111	2008	143	145	52.92	79.5	5.038	310.2	18.34	12.63
111	2008	143	200	52.65	77.5	4.551	328.8	23.61	12.63
111	2008	143	215	51.82	75.9	4.131	334.1	20.11	12.62
111	2008	143	230	51.11	75.7	4.355	324.9	18.16	12.62
111	2008	143	245	50.85	72.4	4.49	324	18.68	12.61
111	2008	143	300	50.7	71.9	4.013	324.3	21.73	12.6
111	2008	143	315	50.53	69.95	4.375	319.5	18.7	12.6
111	2008	143	330	50.09	71.1	3.67	320.4	17.99	12.6
111	2008	143	345	49.4	71.7	3.291	325	21.63	12.6
111	2008	143	400	48.82	73	3.166	306.3	15.76	12.59
111	2008	143	415	48.13	74.9	3.312	299.4	14.07	12.58
111	2008	143	430	47.58	75.6	2.903	299.3	14.88	12.57
111	2008	143	445	47.2	75.5	2.78	301.7	16.49	12.57
111	2008	143	500	46.97	75.2	2.622	304.6	15.62	12.56
111	2008	143	515	46.97	73.7	3.382	308.9	16.24	12.56
111	2008	143	530	47.14	72.7	3.356	311.1	13.97	12.55
111	2008	143	545	47.76	70.3	2.963	301.2	17.59	12.55
111	2008	143	600	49.1	69.1	2.604	302	20.27	12.55
111	2008	143	615	49.19	67.86	3.084	305.4	17.3	12.56

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	143	630	48.75	69.43	2.987	296.2	19.67	12.54
111	2008	143	645	48.72	69.67	3.307	291.6	18.43	12.54
111	2008	143	700	48.83	67.89	3.283	298.2	20.12	12.54
111	2008	143	715	49.17	67.59	2.927	288	17.78	12.57
111	2008	143	730	49.27	67.62	3.789	300.3	20.92	12.56
111	2008	143	745	49.68	64.7	4.301	291.1	20.77	12.61
111	2008	143	800	50.1	63.53	5.094	292.5	16.92	12.7
111	2008	143	815	51.09	60.65	4.446	299.6	19.89	13.6
111	2008	143	830	52.11	56.96	7.3	291.9	21.18	13.57
111	2008	143	845	52.68	59.5	6.986	296.9	19.62	13.57
111	2008	143	900	52.45	66.03	7.85	294.3	22.79	13.31
111	2008	143	915	50.88	75.1	8.7	292	23.57	13.2
111	2008	143	930	49.91	78.8	6.765	300.2	19.32	13.6
111	2008	143	945	50.12	80	5.352	307.5	22.52	13.61
111	2008	143	1000	50.49	75.8	6.186	310	21.49	13.6
111	2008	143	1015	51.26	76.3	6.678	298.7	20.32	13.6
111	2008	143	1030	52.49	69.54	7.92	298.6	19.94	13.57
111	2008	143	1045	53.37	71.6	8.31	297.9	23.34	13.56
111	2008	143	1100	53.29	69.48	7.49	304.2	21.75	13.55
111	2008	143	1115	53.88	67.2	7.44	308	26.21	13.54
111	2008	143	1130	53.84	68.96	6.16	288.3	29.82	13
111	2008	143	1145	53.21	70.1	5.985	306	20.86	12.9
111	2008	143	1200	53.52	68.73	5.534	310.6	28.25	12.89
111	2008	143	1215	53.64	71.7	6.301	282.8	32.12	13.03
111	2008	143	1230	48.22	85.6	6.579	337.3	30.56	12.94
111	2008	143	1245	47.6	85.4	3.074	301	33.88	13.58
111	2008	143	1300	50.12	79.6	4.641	300.5	23.04	13.57
111	2008	143	1315	52.72	73.2	5.679	298	30.47	13.54
111	2008	143	1330	54.15	66.87	6.092	299.7	23.97	13.53
111	2008	143	1345	55.82	61.57	7.5	324.5	30.12	13.51
111	2008	143	1400	57.19	56.11	9.16	310.3	20.1	13.48
111	2008	143	1415	56.2	58.58	6.914	342.5	25.99	13.5
111	2008	143	1430	56.79	49.68	8.1	329.8	28.09	13.49
111	2008	143	1445	58.42	49.01	8.32	341.5	25.12	13.47
111	2008	143	1500	56.49	52.79	8.74	336.6	23.9	13.48
111	2008	143	1515	56.99	46.5	7.38	321	23.98	13.15
111	2008	143	1530	58.09	43.83	7.58	355.7	26.83	13.13
111	2008	143	1545	59.08	45.5	6.853	347.9	30.37	13.04
111	2008	143	1600	58.66	46.47	6.472	323.5	28.52	13.11
111	2008	143	1615	57.49	56.47	9.67	334.5	25.99	13.05
111	2008	143	1630	55.02	55.5	6.192	339.6	23.19	13.5
111	2008	143	1645	56.18	50.35	6.027	320.7	23.74	13.17
111	2008	143	1700	58.09	43.33	8.04	326.7	22.67	13.13
111	2008	143	1715	57.8	46.37	9.12	326.5	23.03	13.45
111	2008	143	1730	58.66	45.47	9.67	320.1	29.54	13
111	2008	143	1745	58.08	43.76	8.76	322.6	23.88	12.97
111	2008	143	1800	58.5	44.83	8.4	327.7	27.16	12.91
111	2008	143	1815	57.95	47.94	7.43	329.1	27.71	12.89
111	2008	143	1830	57.82	47.71	9.03	330.7	27.33	12.87
111	2008	143	1845	57.85	46.14	8.01	329	22.59	12.84
111	2008	143	1900	57.73	45.77	9.41	333.7	27.32	12.82
111	2008	143	1915	57.36	47.67	7.7	337.6	29.44	12.79
111	2008	143	1930	57.04	48.28	6.243	340	27.31	12.77
111	2008	143	1945	56.5	49.38	7.06	343.6	24.63	12.76
111	2008	143	2000	55.92	51.32	5.62	347	26.03	12.75
111	2008	143	2015	55.16	53.8	4.47	351.1	21.19	12.74
111	2008	143	2030	54.3	57.02	3.036	350.4	19.62	12.73
111	2008	143	2045	53.51	58.7	2.411	338.9	22.97	12.72
111	2008	143	2100	53.16	56.96	3.202	322.7	21.84	12.72
111	2008	143	2115	53.31	56.26	3.326	328	18.96	12.71

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	143	2130	52.89	57.83	2.101	316.5	15.32	12.7
111	2008	143	2145	52.25	60.98	2.199	307.7	16.42	12.68
111	2008	143	2200	52.28	57.43	3.986	320.2	23.21	12.68
111	2008	143	2215	52.92	55.12	5.85	327.1	25.52	12.67
111	2008	143	2230	53.44	55.09	6.738	321.8	22.74	12.67
111	2008	143	2245	53.35	56.46	5.072	331	23.79	12.66
111	2008	143	2300	53.21	57.2	5.211	326.7	25.06	12.66
111	2008	143	2315	53.11	57.87	5.493	319.6	24.21	12.66
111	2008	143	2330	53.23	57.4	6.797	330.6	18.21	12.66
111	2008	143	2345	53.2	58.67	5.078	324.7	20.93	12.65
111	2008	143	2400	52.76	58.67	4.782	315.5	22.67	12.64
111	2008	144	15	52.24	60.54	3.394	315.2	17.02	12.63
111	2008	144	30	51.88	60.95	4.639	312.4	20.32	12.63
111	2008	144	45	51.8	62.35	4.462	303.5	20.91	12.63
111	2008	144	100	51.44	63.23	4.154	303.1	20.8	12.62
111	2008	144	115	51.32	64.4	3.626	310.1	15.74	12.61
111	2008	144	130	50.9	65.84	4.041	285.8	16.79	12.6
111	2008	144	145	51.09	64.98	5.421	292.9	17.17	12.59
111	2008	144	200	51.31	64.54	5.79	307.3	15.45	12.59
111	2008	144	215	51.6	63.3	5.941	307.1	18.29	12.58
111	2008	144	230	52.03	63.54	6.253	311.3	18.97	12.58
111	2008	144	245	51.78	64.97	6.495	309	18.25	12.57
111	2008	144	300	51.31	66.04	6.368	307.5	16.92	12.56
111	2008	144	315	50.97	67.11	5.792	310.8	20.78	12.56
111	2008	144	330	50.75	67.95	5.219	310.8	17.42	12.56
111	2008	144	345	50.67	68.52	5.534	300.6	14.47	12.55
111	2008	144	400	50.36	69.26	5.014	298.4	16.69	12.55
111	2008	144	415	50.01	70.8	4.516	295.5	13.57	12.54
111	2008	144	430	49.57	70.8	5.078	300.5	16.77	12.53
111	2008	144	445	49.14	72.5	4.339	293.1	15.13	12.52
111	2008	144	500	48.59	73.8	4.148	294.9	12.8	12.52
111	2008	144	515	48.51	73.5	5.096	293.4	17.15	12.52
111	2008	144	530	48.66	72.8	5.542	308.6	15.81	12.52
111	2008	144	545	48.86	72.2	5.973	308.3	16.36	12.51
111	2008	144	600	49.21	71.9	5.898	314.5	17.83	12.51
111	2008	144	615	49.87	70.2	5.939	312	16.98	12.51
111	2008	144	630	50.68	68.16	6.122	317.5	21.29	12.51
111	2008	144	645	51.74	66.42	7.06	314.9	20.98	13.59
111	2008	144	700	52.55	65.3	6.793	318.4	20.95	13.58
111	2008	144	715	53.25	63.19	7.85	321.7	22.28	13.57
111	2008	144	730	53.91	61.64	8.08	319.5	22.67	13.56
111	2008	144	745	54.76	60.3	8.35	328.7	27.59	13.55
111	2008	144	800	55.66	58.62	7.94	336.4	25.34	13.54
111	2008	144	815	56.4	56.84	7.94	344.8	24.44	13.52
111	2008	144	830	56.9	55.64	9.65	351.8	21.53	13.51
111	2008	144	845	57.43	54.03	8.83	344.7	25.94	13.51
111	2008	144	900	58.07	53.83	7.85	337.5	26.34	13.49
111	2008	144	915	58.57	52.46	9.3	340.5	28.65	13.49
111	2008	144	930	58.58	51.52	9.76	343.8	26.34	13.48
111	2008	144	945	59.34	51.02	8.86	339.4	26.07	13.47
111	2008	144	1000	59.78	49.08	8.88	339.2	28.2	13.46
111	2008	144	1015	60.23	50.05	8.79	339.2	25.26	13.43
111	2008	144	1030	60.47	49.07	8.59	345.5	22.98	13.45
111	2008	144	1045	60.81	48.6	9.15	348.6	27.2	13.45
111	2008	144	1100	61.31	47.66	9.16	337.6	27.01	13.44
111	2008	144	1115	62	46.96	9.53	341.1	29.82	13.43
111	2008	144	1130	62.4	44.85	7.98	336.8	29.86	13.43
111	2008	144	1145	63.47	44.72	7.98	346.8	31.65	13.41
111	2008	144	1200	63.76	42.17	8.11	325.4	27.13	13.41
111	2008	144	1215	63.7	41.1	9.16	334.1	23.41	13.4

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	144	1230	64.27	41	9.29	337.8	28.29	13.4
111	2008	144	1245	64.62	44.11	9.1	347.2	28.42	13.4
111	2008	144	1300	65	38.36	9.04	328.4	30.1	13.39
111	2008	144	1315	65.33	37.96	9.6	326.4	30.2	13.38
111	2008	144	1330	65.83	38.66	8.41	331.5	30.43	13.38
111	2008	144	1345	66.27	37.46	10.06	348.4	22.18	13.36
111	2008	144	1400	66.29	36.75	9.08	339.3	33.91	13.15
111	2008	144	1415	66.66	35.72	9.45	332.6	27.34	13.26
111	2008	144	1430	67	35.75	8.1	328.1	29.47	13.13
111	2008	144	1445	67.26	34.41	7.6	336.7	28.82	13.24
111	2008	144	1500	67.16	33.34	8.21	347.9	33.06	13.15
111	2008	144	1515	67.77	35.44	7.32	346.8	36.91	13.11
111	2008	144	1530	67.42	35.21	7.46	334	25.02	13.08
111	2008	144	1545	68.32	34.07	7.31	335.2	26.93	13.01
111	2008	144	1600	67.54	35.17	7.82	340.2	27.38	13
111	2008	144	1615	68.24	34.1	7.51	324.4	31.64	13.04
111	2008	144	1630	67.96	33.97	8.08	316.7	22.95	13.04
111	2008	144	1645	68.51	32.8	8.23	326.4	28.92	13.09
111	2008	144	1700	68.58	32.23	7.45	324.6	28.92	13.04
111	2008	144	1715	68.12	33.43	8.74	321.9	26.27	13.02
111	2008	144	1730	67.95	32.03	8.03	326.4	24.65	13.02
111	2008	144	1745	67.93	33.67	8.79	323.6	26.55	12.93
111	2008	144	1800	67.57	33.87	8.27	317.6	30.24	12.9
111	2008	144	1815	67.59	33.37	8.18	330.5	22.94	12.96
111	2008	144	1830	67.56	32.97	8.12	330.5	29.26	12.87
111	2008	144	1845	66.86	34.91	9.23	327.8	23.21	12.84
111	2008	144	1900	66.52	34.11	7.89	327.9	24.98	12.81
111	2008	144	1915	66.03	35.08	6.865	323.1	24.9	12.8
111	2008	144	1930	65.6	36.09	6.011	334.4	24.09	12.79
111	2008	144	1945	64.95	38.39	4.305	331.1	28.74	12.78
111	2008	144	2000	64.09	39.97	5.171	325.2	24.86	12.77
111	2008	144	2015	63.55	41.01	4.957	323.2	22.9	12.76
111	2008	144	2030	63.02	42.05	5.286	336	20.99	12.75
111	2008	144	2045	62.38	43.12	4.69	334.4	23.22	12.74
111	2008	144	2100	61.87	43.59	4.381	324.7	17.81	12.73
111	2008	144	2115	61.36	44.33	4.514	328.8	21.09	12.72
111	2008	144	2130	60.95	44.66	4.426	330.2	23.89	12.72
111	2008	144	2145	60.53	45.97	3.475	325.6	18.83	12.71
111	2008	144	2200	59.98	46.57	3.162	324	18.18	12.71
111	2008	144	2215	59.45	47.98	3.309	325.2	16.82	12.7
111	2008	144	2230	58.9	48.58	3.924	326.8	18.66	12.69
111	2008	144	2245	58.67	48.88	4.526	327.7	17.68	12.68
111	2008	144	2300	58.37	49.62	3.208	325	20.56	12.68
111	2008	144	2315	57.85	51.33	2.457	328.5	17.72	12.67
111	2008	144	2330	57.32	52	3.469	339.2	21.46	12.67
111	2008	144	2345	57.02	53.58	3.418	341	22.35	12.66
111	2008	144	2400	56.34	55.62	2.431	342.9	18.31	12.65
111	2008	145	15	55.51	58.33	1.962	329.1	20.56	12.65
111	2008	145	30	54.93	59.77	2.81	315.5	15.45	12.64
111	2008	145	45	54.41	60.37	3.628	323.4	16.72	12.63
111	2008	145	100	54.43	60.51	3.809	323	18.92	12.63
111	2008	145	115	54.48	61.08	3.851	319.8	17.2	12.62
111	2008	145	130	54.37	60.68	3.63	320.4	21.06	12.62
111	2008	145	145	53.99	61.85	2.911	331.5	22.75	12.6
111	2008	145	200	53.68	61.88	3.213	324.7	21.03	12.6
111	2008	145	215	53.75	61.91	3.799	333.4	18.82	12.6
111	2008	145	230	53.66	63.15	3.656	331.6	19.67	12.59
111	2008	145	245	53.35	63.89	3.438	325.5	18.45	12.58
111	2008	145	300	53.16	64.66	3.866	331.9	20.93	12.58
111	2008	145	315	52.95	65.6	3.894	334.4	21.73	12.58

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	145	330	52.74	66.9	3.4	330.9	17.99	12.57
111	2008	145	345	52.52	67.57	3.505	338.5	22.06	12.56
111	2008	145	400	52.19	68.64	3.436	344.6	19.84	12.56
111	2008	145	415	51.96	69.88	3.066	340.8	19.45	12.55
111	2008	145	430	51.87	70.2	3.114	329.5	19.77	12.55
111	2008	145	445	51.59	71.7	2.913	332	16.69	12.54
111	2008	145	500	51.32	72.1	2.564	329	19.66	12.54
111	2008	145	515	51.27	72.5	2.782	317.1	19	12.53
111	2008	145	530	51.17	72.5	2.606	328.1	18.66	12.52
111	2008	145	545	51.31	71.9	2.854	342.8	22.39	12.52
111	2008	145	600	51.89	70.7	2.892	349.7	23.73	12.52
111	2008	145	615	52.44	69.94	2.905	341	24.2	12.52
111	2008	145	630	53.23	67.69	4.367	358.5	22.87	12.54
111	2008	145	645	54.25	66.44	4.432	359	26.19	13.58
111	2008	145	700	54.92	65.73	4.78	354.4	22.06	13.56
111	2008	145	715	55.49	63.56	5.034	352.3	25.23	13.56
111	2008	145	730	56.03	62.28	5.848	350.7	17.58	13.54
111	2008	145	745	57	60.13	5.08	351.1	21.12	13.53
111	2008	145	800	58.2	55.97	4.675	342.8	27.06	13.52
111	2008	145	815	59.38	49.35	5.856	349.3	28.57	13.51
111	2008	145	830	60.91	45.4	6.194	21.3	32.38	13.49
111	2008	145	845	61.77	45	6.287	14.18	27.89	13.47
111	2008	145	900	62.12	44.96	6.456	21.96	36.3	13.45
111	2008	145	915	62.73	44.49	6.779	3.923	33	13.45
111	2008	145	930	63.76	41.41	5.576	25.02	35.33	13.43
111	2008	145	945	64.22	42.68	5.669	45.38	43.16	13.43
111	2008	145	1000	64.56	42.81	5.246	35.13	47.91	13.41
111	2008	145	1015	65.43	40.07	5.836	26.92	42.54	13.4
111	2008	145	1030	64.81	39.36	6.892	17.37	40.86	13.4
111	2008	145	1045	65.34	40.16	6.483	12.65	34.13	13.4
111	2008	145	1100	65.26	37.76	6.46	357.6	29.47	13.39
111	2008	145	1115	65.13	37.59	6.759	355.3	37.31	13.4
111	2008	145	1130	66.51	35.52	7.35	349.9	33.69	13.38
111	2008	145	1145	66.55	32.77	8.39	353.1	29.82	13.38
111	2008	145	1200	66.8	32.84	7.22	3.424	31.65	13.38
111	2008	145	1215	67.84	31.5	8.23	11.1	26.89	13.37
111	2008	145	1230	68.1	33.37	7.72	9.42	40.44	13.36
111	2008	145	1245	68.35	31.63	8.46	6.515	29.47	13.35
111	2008	145	1300	68.69	31.53	7.37	16.89	30.82	13.34
111	2008	145	1315	68.67	31.66	6.833	17.74	31.24	13.34
111	2008	145	1330	68.94	29.89	7.01	7.46	34.02	13.34
111	2008	145	1345	69	30.02	6.884	6.526	37.42	13.33
111	2008	145	1400	69.38	31.63	7.27	16.4	35.64	13.33
111	2008	145	1415	68.57	31.16	7.11	10.24	47.28	13.33
111	2008	145	1430	68.64	30.52	7.03	7.58	36.96	13.34
111	2008	145	1445	68.81	34.2	5.788	36.36	43.45	13.33
111	2008	145	1500	69.36	30.93	5.767	12.09	41.12	13.33
111	2008	145	1515	68.39	30.52	5.691	353.4	39.05	13.34
111	2008	145	1530	69.35	30.69	6.271	25.05	35.1	13.32
111	2008	145	1545	68.35	31.03	6.66	12.65	37.26	13.33
111	2008	145	1600	68.07	31.43	6.749	348.8	29.15	13.34
111	2008	145	1615	68.13	31.76	6.634	22.69	33.27	13.34
111	2008	145	1630	68.45	31.96	4.42	38.14	40.99	13.35
111	2008	145	1645	68.06	31.76	4.875	11.75	33.12	13.36
111	2008	145	1700	67.52	32.27	5.366	348.5	29.1	13.36
111	2008	145	1715	67.94	31.7	4.212	333.2	28.41	13.37
111	2008	145	1730	67.99	31.1	5.445	347.5	30.8	13.13
111	2008	145	1745	67.89	29.8	5.284	6.618	35	13.38
111	2008	145	1800	68.94	31	3.96	356	36.95	12.97
111	2008	145	1815	68.48	30.47	4.454	345.8	23.56	12.94

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	145	1830	68.6	30.26	4.897	331.4	27.82	12.95
111	2008	145	1845	67.88	30.46	5.705	340.5	23.71	12.89
111	2008	145	1900	68.33	29.93	5.217	353.2	22.91	12.84
111	2008	145	1915	68.24	30.4	4.633	357.9	24.3	12.82
111	2008	145	1930	67.72	31.37	3.968	1.968	29.22	12.8
111	2008	145	1945	66.87	32.91	3.35	351.4	23.4	12.79
111	2008	145	2000	66.16	34.58	2.943	342.4	20.69	12.77
111	2008	145	2015	65.39	36.62	2.61	330.4	20.33	12.77
111	2008	145	2030	64.77	38.03	2.616	325	19.35	12.76
111	2008	145	2045	64.64	37.66	3.579	343.4	19.52	12.75
111	2008	145	2100	64.09	40.3	2.163	335.1	14.53	12.75
111	2008	145	2115	63.33	42.11	1.506	322.3	15.88	12.73
111	2008	145	2130	62.68	43.72	2.147	334.5	21.26	12.73
111	2008	145	2145	62.07	46.1	1.657	334.8	16.83	12.72
111	2008	145	2200	61.03	48.21	1.132	342.3	18.35	12.72
111	2008	145	2215	60.23	49.62	0.804	339.5	12.59	12.71
111	2008	145	2230	59.84	49.28	2.173	348.8	15.51	12.71
111	2008	145	2245	59.54	50.15	1.826	340.1	18.15	12.69
111	2008	145	2300	58.94	51.22	2.008	347	18.54	12.68
111	2008	145	2315	58.51	52.26	2.111	334.9	21.19	12.68
111	2008	145	2330	57.95	52.97	2.022	337	20.5	12.67
111	2008	145	2345	57.51	53.65	2.212	345	19.21	12.66
111	2008	145	2400	56.79	55.45	2.119	350.5	23.47	12.66
111	2008	146	15	57	51.41	2.74	17.92	30.94	12.66
111	2008	146	30	58.12	48.73	3.559	16.13	23.79	12.64
111	2008	146	45	58.43	49.03	3.733	14.16	27.37	12.64
111	2008	146	100	58.17	50.3	3.632	13.07	26.73	12.64
111	2008	146	115	57.4	52.68	2.067	11.15	21.67	12.63
111	2008	146	130	56.21	56.79	0.797	332.4	15.82	12.63
111	2008	146	145	54.82	58.6	1.259	342.1	14.64	12.62
111	2008	146	200	54.12	60.37	1.4	340.4	18.44	12.62
111	2008	146	215	53.47	61.65	1.708	356	24.87	12.6
111	2008	146	230	53.51	61.61	2.306	11.47	23.69	12.6
111	2008	146	245	53.73	61.88	2.473	359.2	23.29	12.59
111	2008	146	300	53.84	62.08	2.927	353.8	21.85	12.58
111	2008	146	315	53.83	62.72	2.814	357.9	21.61	12.58
111	2008	146	330	53.6	63.29	2.606	357.1	21.63	12.58
111	2008	146	345	53.39	64.03	2.606	354.6	18.39	12.57
111	2008	146	400	52.93	65.53	1.973	347.9	19.98	12.57
111	2008	146	415	52.28	66.87	1.485	351.5	21.15	12.56
111	2008	146	430	51.81	67.95	1.696	343.2	21.81	12.55
111	2008	146	445	51.75	67.66	2.053	351.7	18.04	12.55
111	2008	146	500	51.62	68.6	1.44	346.5	17.79	12.54
111	2008	146	515	51.06	70	1.141	356.4	15.43	12.54
111	2008	146	530	50.63	70.9	0.989	3.601	12.57	12.52
111	2008	146	545	50.67	70.5	1.341	1.815	20.23	12.52
111	2008	146	600	51.1	69.67	0.917	10.03	25.93	12.52
111	2008	146	615	51.77	67.86	1.47	360	28.06	12.58
111	2008	146	630	52.89	64.35	1.805	9.96	22.63	12.61
111	2008	146	645	54.68	61.1	2.884	6.178	26.15	13.6
111	2008	146	700	56.17	58.17	3.14	15.48	25.93	13.59
111	2008	146	715	57.4	55.19	3.928	18.25	26.06	13.56
111	2008	146	730	58.59	52.24	4.426	16.66	26.48	13.54
111	2008	146	745	59.5	50.42	5.516	10.65	26.46	13.52
111	2008	146	800	60.39	48.71	5.316	18.18	20.52	13.51
111	2008	146	815	61.55	45.57	5.107	5.549	31.72	13.49
111	2008	146	830	62.36	43.59	5.967	9.09	26.11	13.48
111	2008	146	845	63.51	41.25	5.572	11.55	28.12	13.46
111	2008	146	900	64.31	39.03	5.008	23.92	37.6	13.44
111	2008	146	915	65.37	38.63	3.974	30.03	40.78	13.43

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	146	930	66.16	37.46	4.837	16.3	31.72	13.41
111	2008	146	945	66.4	34.62	5.181	17.79	25.15	13.4
111	2008	146	1000	66.93	35.15	4.256	7.56	43.84	13.39
111	2008	146	1015	67.85	33.84	3.976	22.42	45.31	13.38
111	2008	146	1030	68.99	31.66	3.735	48.13	50.55	13.36
111	2008	146	1045	69.41	30.56	3.432	52.33	49.55	13.36
111	2008	146	1100	69.91	30.56	3.498	45.19	64.43	13.34
111	2008	146	1115	69.66	27.42	3.93	342.1	67.99	13.34
111	2008	146	1130	70.1	29.35	3.707	359.1	47.34	13.33
111	2008	146	1145	70.3	24.41	4.293	343.3	50.98	13.32
111	2008	146	1200	70.9	25.58	4.758	318.8	39.88	13.32
111	2008	146	1215	71	26.04	5.399	311.6	33.33	13.31
111	2008	146	1230	70.8	31.83	4.748	270.1	51.05	13.31
111	2008	146	1245	70.1	32.66	5.135	236.6	47.14	13.3
111	2008	146	1300	69.75	31.93	6.356	277.4	30.58	13.3
111	2008	146	1315	69.67	31.86	6.932	261.7	39.57	13.3
111	2008	146	1330	70.3	32.23	5.989	249.4	34.56	13.3
111	2008	146	1345	70.3	31.66	7.88	271.3	21.55	13.3
111	2008	146	1400	69.93	31.8	7.89	263.8	25.76	13.3
111	2008	146	1415	69.79	29.25	6.894	238.8	25.93	13.3
111	2008	146	1430	69.58	30.69	7.52	248.3	34.41	13.3
111	2008	146	1445	69.57	30.52	7.03	241.1	30.81	13.3
111	2008	146	1500	69.63	30.36	8.21	262.2	24.58	13.13
111	2008	146	1515	69.46	32.87	7.24	257.2	27.8	13.05
111	2008	146	1530	69.58	27.82	7.86	259.8	22.49	13.02
111	2008	146	1545	70	28.25	6.871	254.3	34.31	13
111	2008	146	1600	70.4	31.8	6.914	250.8	33.8	12.98
111	2008	146	1615	70.7	30.32	5.908	217	33.54	12.96
111	2008	146	1630	71.3	28.62	5.483	254.1	32.21	12.94
111	2008	146	1645	72.1	28.22	5.375	248.6	38.91	12.93
111	2008	146	1700	70.6	31.16	7.05	255.7	26.55	12.92
111	2008	146	1715	69.36	37.78	7.15	264.1	25.09	12.91
111	2008	146	1730	67.23	41.52	7.27	253.6	25.5	12.9
111	2008	146	1745	66.41	42.69	8.1	262.4	25.97	12.88
111	2008	146	1800	65.36	47.04	8.64	266	24.7	12.86
111	2008	146	1815	65.03	48.08	8.1	274.7	24.18	12.84
111	2008	146	1830	64.87	45.88	8.26	270.1	24.79	12.82
111	2008	146	1845	64.14	49.63	9.13	272.2	19.83	12.81
111	2008	146	1900	63.31	52.47	8.81	274.4	19.67	12.78
111	2008	146	1915	62.45	52.41	8.16	274	17.24	12.77
111	2008	146	1930	62.14	51.84	6.7	271.6	19.65	12.76
111	2008	146	1945	61.85	52.31	5.274	271.9	22.21	12.76
111	2008	146	2000	61.32	51.95	5.03	266.8	22.24	12.75
111	2008	146	2015	60.96	53.59	4.957	258.4	24.25	12.73
111	2008	146	2030	60.54	54.26	4.359	260.5	27.15	12.72
111	2008	146	2045	60.17	56.87	4.766	259	28.35	12.72
111	2008	146	2100	59.69	59.99	4.627	261.8	26.43	12.71
111	2008	146	2115	59.42	60.72	4.645	262.2	28.74	12.71
111	2008	146	2130	59.31	61.02	5.074	261.7	25.29	12.69
111	2008	146	2145	59.23	60.52	6.088	259.5	23.24	12.69
111	2008	146	2200	58.93	62.56	4.907	257.3	28.77	12.68
111	2008	146	2215	58.55	64.84	4.015	263.4	25.86	12.68
111	2008	146	2230	58.29	65.84	4.194	269.9	27.9	12.67
111	2008	146	2245	58.09	66.68	4.681	275.8	22.46	12.65
111	2008	146	2300	57.84	67.36	4.841	272.1	23.08	12.66
111	2008	146	2315	57.67	68.36	4.168	262.1	28.21	12.65
111	2008	146	2330	57.53	68.4	3.799	261.5	28.84	12.65
111	2008	146	2345	57.55	68.6	5.175	260.4	28.84	12.64
111	2008	146	2400	57.43	68.07	5.042	264.4	24.51	12.63
111	2008	147	15	57.43	68.3	5.022	262.8	22.6	12.63

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	147	30	57.62	69.34	6.307	267.5	21.68	12.62
111	2008	147	45	57.72	71.2	5.651	266.4	24.75	12.61
111	2008	147	100	57.77	71.2	6.636	279.2	18.62	12.61
111	2008	147	115	57.69	70.9	6.426	272.2	20.34	12.6
111	2008	147	130	57.74	69.94	5.769	272.4	21.19	12.6
111	2008	147	145	57.67	71.3	6.098	273.1	18.49	12.59
111	2008	147	200	57.43	72.6	5.64	270.8	20.78	12.59
111	2008	147	215	57.23	73.5	5.947	272.4	22.06	12.58
111	2008	147	230	57.03	74.9	5.981	273.5	21.46	12.58
111	2008	147	245	56.57	76.5	4.549	271.1	17.74	12.57
111	2008	147	300	56.24	77.9	4.877	276.3	17.08	12.57
111	2008	147	315	56.04	78.4	5.167	272.9	19.79	12.56
111	2008	147	330	56	78.9	5.238	272.3	19.14	12.55
111	2008	147	345	55.71	79.8	4.367	283.6	18.38	12.55
111	2008	147	400	55.33	80	3.946	269.3	19.98	12.55
111	2008	147	415	54.98	79.6	3.446	269.5	20.24	12.55
111	2008	147	430	55.05	77.9	3.678	276.8	20	12.54
111	2008	147	445	55.02	76.3	3.515	286.4	16.12	12.54
111	2008	147	500	54.94	75.8	3.209	284.3	18.32	12.53
111	2008	147	515	54.74	74.6	3.261	274.6	18.63	12.53
111	2008	147	530	54.97	73.4	4.212	271.5	16.45	12.52
111	2008	147	545	55.47	72.5	4.343	274	20.77	12.52
111	2008	147	600	56.21	71.8	4.647	283.1	19.24	12.56
111	2008	147	615	56.67	71	4.407	277.2	16.45	12.66
111	2008	147	630	57.36	69.54	4.081	269.3	23.11	12.76
111	2008	147	645	58.17	68.44	4.46	266.1	22.42	13.53
111	2008	147	700	58.8	67.16	4.573	267.8	24.02	13.51
111	2008	147	715	59.03	67.65	5.62	266.2	22.22	13.49
111	2008	147	730	59.49	68.72	5.139	258.1	22.88	13.48
111	2008	147	745	59.63	66.91	6.587	263.8	25.21	13.48
111	2008	147	800	59.63	68.38	6.867	266.7	25.69	13.47
111	2008	147	815	59.84	67.58	6.69	266.4	23.42	13.46
111	2008	147	830	60.24	66.14	6.61	264.3	28.92	13.45
111	2008	147	845	61.03	64.86	6.261	256.7	30.45	13.45
111	2008	147	900	61.19	63.75	6.666	258.6	30.71	13.43
111	2008	147	915	61.26	64.02	6.875	263.7	27.25	13.43
111	2008	147	930	61.93	63.45	6.609	255.3	28.05	13.42
111	2008	147	945	61.57	64.52	7.79	255.3	29.51	13.41
111	2008	147	1000	62	65.22	6.616	258.5	33.01	13.41
111	2008	147	1015	62.23	65.92	6.477	246	29.22	13.41
111	2008	147	1030	62.45	65.85	6.793	257	35.63	13.41
111	2008	147	1045	62.51	62.78	8.58	270.2	23.06	13.4
111	2008	147	1100	62.87	66.09	7.29	244.6	29.46	13.4
111	2008	147	1115	63.12	63.75	7.52	245.8	33.87	13.4
111	2008	147	1130	63.67	64.75	6.815	233.5	34.31	13.39
111	2008	147	1145	63.63	63.68	7.56	227.6	30.16	13.38
111	2008	147	1200	63.82	64.72	7.9	249.4	37.13	13.38
111	2008	147	1215	63.59	60.5	8.85	238.5	32.93	13.38
111	2008	147	1230	64.02	56.86	8.63	254.4	29.95	13.37
111	2008	147	1245	65	57.46	7.41	231.5	37.28	13.37
111	2008	147	1300	64.38	56.65	8.7	232.3	31.09	13.36
111	2008	147	1315	64.5	57.66	8.43	234.4	38.25	13.36
111	2008	147	1330	64.07	60.4	9.02	239.2	34.37	13.36
111	2008	147	1345	64.66	63.44	8.5	248.4	37.24	13.36
111	2008	147	1400	63.82	64.94	9.34	240.9	33.6	13.35
111	2008	147	1415	63.7	66.65	9.04	248.1	31.09	13.36
111	2008	147	1430	63.36	67.22	8.53	240.5	38.78	13.36
111	2008	147	1445	63.48	67.52	7.67	237.6	40.78	13.36
111	2008	147	1500	63.51	70	7.39	237.6	38.57	13.36
111	2008	147	1515	62.98	68.96	7.98	243.7	33.11	13.34

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	147	1530	63.16	69.8	7.55	250.8	37.1	13.19
111	2008	147	1545	63.06	70.9	6.626	244.7	38.12	13.13
111	2008	147	1600	62.72	69.66	8.07	252.9	37.18	13.25
111	2008	147	1615	62.27	71.7	8.33	232.2	34.71	13.15
111	2008	147	1630	62.22	72.1	8.72	252.9	27.59	13.11
111	2008	147	1645	62.54	70.8	8.18	258.7	30.27	13.07
111	2008	147	1700	62.48	72.6	7.37	248.7	35.43	13.03
111	2008	147	1715	62.17	73	7.24	239.4	35.07	12.93
111	2008	147	1730	62.23	73.2	8.11	242.5	40.09	12.95
111	2008	147	1745	62.1	73	7.92	246.3	32.04	12.93
111	2008	147	1800	62.05	72	7.56	242.7	39.87	12.91
111	2008	147	1815	62.5	72	7.38	248.2	33.94	12.87
111	2008	147	1830	61.74	74.3	8.91	248.6	28.68	12.85
111	2008	147	1845	61.5	75	8.24	257.3	36.63	12.81
111	2008	147	1900	61.25	75.2	8.2	258	33.13	12.79
111	2008	147	1915	61.15	76.4	7.97	256.3	30.51	12.78
111	2008	147	1930	60.96	76.8	8.56	255	29.19	12.76
111	2008	147	1945	60.77	77.2	8.25	260.8	27.69	12.76
111	2008	147	2000	60.58	77.7	8.52	258.5	24.34	12.75
111	2008	147	2015	60.38	78.6	8.94	264.4	23.48	12.74
111	2008	147	2030	60.19	79.6	8.51	261.4	23.41	12.73
111	2008	147	2045	60.31	78.9	9.05	262.8	23.56	12.73
111	2008	147	2100	60.42	79.2	8.89	261.1	26.64	12.72
111	2008	147	2115	60.58	79	8.49	257	24.8	12.72
111	2008	147	2130	60.46	79.3	8.46	258.5	30.14	12.71
111	2008	147	2145	60.48	79.3	8.75	261.1	28.36	12.71
111	2008	147	2200	60.58	78.8	8.81	267.8	23.45	12.71
111	2008	147	2215	60.97	78.1	8.73	264.8	26.98	12.71
111	2008	147	2230	61.19	78	9.39	259	26.49	12.69
111	2008	147	2245	61.28	77.9	7.99	267.6	33.74	12.69
111	2008	147	2300	61.35	77.8	9.13	268	26.69	12.69
111	2008	147	2315	61.06	78.2	9.76	262.7	27.3	12.68
111	2008	147	2330	60.88	78.6	8.78	258.2	28.33	12.68
111	2008	147	2345	60.76	79	8.23	264.3	31.22	12.68
111	2008	147	2400	60.49	79.8	8.68	260.1	30.92	12.67
111	2008	148	15	60.4	80.4	8.96	269.9	25.84	12.67
111	2008	148	30	60.25	80.8	8.1	268.8	24.53	12.66
111	2008	148	45	59.97	81.3	7.62	262.3	28.12	12.65
111	2008	148	100	59.89	81.1	8.44	264	25.66	12.65
111	2008	148	115	59.79	81.2	8.87	267.5	26.09	12.65
111	2008	148	130	59.66	82.1	8.69	257.2	26.61	12.64
111	2008	148	145	59.3	82.6	8.29	259.4	27.33	12.63
111	2008	148	200	59.44	83.1	7.98	265.5	24.46	12.63
111	2008	148	215	59.38	84.2	7.09	261.8	28.6	12.63
111	2008	148	230	59.27	84.6	6.99	264.6	30.29	12.62
111	2008	148	245	59.24	85.3	5.987	264.5	25.43	12.61
111	2008	148	300	59.21	86.7	6.059	264.7	25.04	12.61
111	2008	148	315	58.8	87.6	5.651	262.1	25.93	12.6
111	2008	148	330	58.76	87.5	6.444	265.6	23.86	12.6
111	2008	148	345	59.02	87	6.869	270	21.45	12.59
111	2008	148	400	58.94	87	5.393	268.9	26.06	12.58
111	2008	148	415	58.98	87.1	6.023	268.2	23.55	12.58
111	2008	148	430	59.04	87.2	5.556	266.3	18.14	12.57
111	2008	148	445	59.09	87.4	5.435	267.6	25.46	12.57
111	2008	148	500	59.13	87.5	6.279	264.7	21.63	12.57
111	2008	148	515	59.02	87.7	5.342	263.4	22.48	12.57
111	2008	148	530	58.75	89.4	5.08	270.8	19.44	12.56
111	2008	148	545	58.65	90.3	4.625	276.6	21.5	12.56
111	2008	148	600	58.7	91	3.513	254.7	32.04	12.56
111	2008	148	615	58.71	91.4	3.15	257	31.42	12.55

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	148	630	58.54	91.8	4.047	267.1	21.64	12.55
111	2008	148	645	58.42	92.1	4.837	267.3	22.6	12.55
111	2008	148	700	58.49	92	5.038	272.8	19.56	12.55
111	2008	148	715	58.61	92.1	4.802	267.7	21.27	12.55
111	2008	148	730	58.91	92.4	4.629	270.8	21.59	12.55
111	2008	148	745	59.29	92.4	3.751	264.6	23.2	12.56
111	2008	148	800	59.58	92.5	4.498	247.4	24.46	12.57
111	2008	148	815	59.66	92.5	4.21	264.7	25.36	12.61
111	2008	148	830	59.93	92.1	6.088	291.4	26.02	12.6
111	2008	148	845	60.48	91.9	4.549	270.5	27.48	12.69
111	2008	148	900	60.77	92.2	4.089	280.6	22.92	12.71
111	2008	148	915	61.22	91.9	4.349	262	22.73	12.98
111	2008	148	930	61.94	91.2	3.86	261.2	30.01	13.27
111	2008	148	945	62.39	90.5	3.539	250.4	34.85	13.21
111	2008	148	1000	61.43	90.8	4.317	264.4	27.69	13.11
111	2008	148	1015	60.8	91.1	5.953	273.1	25.71	13.1
111	2008	148	1030	60.83	91	5.205	269.1	25.3	13.18
111	2008	148	1045	61.52	90.6	4.964	266.5	19.1	13.32
111	2008	148	1100	62	90	5.713	275.1	21.83	13.43
111	2008	148	1115	62.72	89.1	5.203	268.7	23.16	13.43
111	2008	148	1130	64.34	84.8	6.303	274.6	23.09	13.41
111	2008	148	1145	65.41	84.1	7.31	277.7	21.98	13.38
111	2008	148	1200	66.49	81.9	7.41	285	18.26	13.37
111	2008	148	1215	68.76	77.8	4.653	254.5	33.43	13.35
111	2008	148	1230	69.37	78.1	6.394	247.2	40.47	13.32
111	2008	148	1245	68.9	78.3	6.886	238.8	27.46	13.32
111	2008	148	1300	68.09	78.8	6.448	242.8	35.19	13.31
111	2008	148	1315	69.1	76.4	6.626	270.3	30.94	13.3
111	2008	148	1330	69.17	77.7	6.501	256.3	33.51	13.29
111	2008	148	1345	68.92	75.5	6.289	266.4	27.37	13.29
111	2008	148	1400	69.11	74.3	5.695	218.5	31.1	13.29
111	2008	148	1415	68.43	75	6.36	242	30.35	13.29
111	2008	148	1430	67.93	74.2	6.382	260.8	35.2	13.28
111	2008	148	1445	67.82	73.8	5.747	235.9	30.98	13.29
111	2008	148	1500	67.79	73.1	5.808	246.6	32.54	13.29
111	2008	148	1515	67.9	73.9	6.158	243.5	32.15	13.28
111	2008	148	1530	69.1	73.4	5.292	242.5	34.12	13.26
111	2008	148	1545	68.33	73.6	5.449	235.3	36.52	13.28
111	2008	148	1600	67.99	75.4	5.324	230.7	32.83	13.24
111	2008	148	1615	66.55	78.2	4.756	249	36.39	13.29
111	2008	148	1630	65.84	79.4	6.06	270.6	19.9	13.32
111	2008	148	1645	67.17	75.7	5.423	246.4	46.87	13.32
111	2008	148	1700	67.98	75.7	4.659	264.2	38.5	13.28
111	2008	148	1715	68.62	72.4	2.743	336.9	60.76	13.22
111	2008	148	1730	68.58	74.9	4.201	317.1	36.21	12.96
111	2008	148	1745	69.37	73.7	1.914	21.59	76.5	12.86
111	2008	148	1800	68.72	86.6	3.348	174.8	63.32	12.84
111	2008	148	1815	66.48	88.9	3.511	157.5	31.61	12.82
111	2008	148	1830	66.15	89.7	3.859	259.2	61.98	12.79
111	2008	148	1845	66.93	90.1	3.929	253.1	74.4	12.78
111	2008	148	1900	65.58	91.3	2.146	185	27.06	12.76
111	2008	148	1915	64.9	92.1	2.794	194.1	28.14	12.76
111	2008	148	1930	64.49	92.6	1.076	240.2	21.87	12.76
111	2008	148	1945	64.5	92.6	0.898	213.6	25.52	12.75
111	2008	148	2000	64.46	92.9	2.149	278.7	37.47	12.73
111	2008	148	2015	64.57	93.2	1.629	283.3	27.71	12.73
111	2008	148	2030	64.81	93.3	0.402	14.76	16.19	12.73
111	2008	148	2045	64.67	93.4	0.93	267.3	9.07	12.72
111	2008	148	2100	64.6	93.8	1.327	290.7	17.1	12.72
111	2008	148	2115	64.86	93.8	1.046	329	35.62	12.72

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	148	2130	65.18	93.9	0.9	324.6	30.72	12.71
111	2008	148	2145	65.4	93.5	2.05	266.4	18.5	12.71
111	2008	148	2200	65.06	93.9	4.8	278.9	19.96	12.71
111	2008	148	2215	65.48	94	4.27	311.5	26.57	12.71
111	2008	148	2230	65.87	93.8	1.561	333.2	27.71	12.71
111	2008	148	2245	65.67	90.6	3.552	28.79	29.92	12.69
111	2008	148	2300	64.18	84.2	4.597	32.37	36.65	12.69
111	2008	148	2315	63.18	80.7	4.339	38.99	38.39	12.68
111	2008	148	2330	62.32	81	4.065	49.4	42.87	12.67
111	2008	148	2345	61.09	73.1	5.689	33.05	42.13	12.67
111	2008	148	2400	59.61	70.9	6.38	25.61	33.31	12.66
111	2008	149	15	58.22	70.8	6.936	30.31	37.93	12.65
111	2008	149	30	57.37	67.31	7.84	18.45	29.94	12.64
111	2008	149	45	56.67	67.88	8.44	22.56	25.46	12.63
111	2008	149	100	56.08	65.94	7.62	19.82	33.4	12.63
111	2008	149	115	55.75	63.44	8.01	20.74	29.83	12.62
111	2008	149	130	55.6	62.3	8.54	20.67	27.05	12.61
111	2008	149	145	55.43	62.21	7.79	28.32	25.44	12.6
111	2008	149	200	55.29	61.14	8.95	22.06	27.35	12.59
111	2008	149	215	55.08	61.28	7.37	35.11	34.96	12.59
111	2008	149	230	54.99	59	7.5	30.64	35.88	12.58
111	2008	149	245	54.92	55.89	7	44.66	41.66	12.58
111	2008	149	300	54.83	50.7	6.624	32.44	35.21	12.57
111	2008	149	315	54.83	50.87	7.41	32.43	35.57	12.56
111	2008	149	330	54.7	50.37	6.964	32.02	32.56	12.56
111	2008	149	345	54.65	49.3	7.61	29.36	29.82	12.56
111	2008	149	400	54.63	49.16	6.974	39.08	39.1	12.55
111	2008	149	415	54.57	50.07	7.01	35.08	35.48	12.54
111	2008	149	430	54.42	50.27	5.679	43.79	44.35	12.54
111	2008	149	445	54.39	51	5.975	43.84	40.89	12.54
111	2008	149	500	54.23	51.84	4.512	45.79	45.08	12.53
111	2008	149	515	54.08	52.94	5.06	38.2	37.33	12.53
111	2008	149	530	53.89	52.38	5.37	42.8	44.81	12.52
111	2008	149	545	53.95	51.91	5.31	45.11	40.69	12.53
111	2008	149	600	53.92	51.71	5.439	41.01	38.77	12.52
111	2008	149	615	53.88	50.17	5.542	41.39	39.61	12.52
111	2008	149	630	53.76	49.16	6.192	48.1	40.16	12.55
111	2008	149	645	53.57	49.2	6.257	41.29	38.14	12.78
111	2008	149	700	53.52	48.83	5.447	40.09	38.94	12.99
111	2008	149	715	53.79	50.3	4.714	41.26	49.47	13.55
111	2008	149	730	54.14	48.89	6.025	39.25	51.26	13.54
111	2008	149	745	54.78	48.86	6.126	51.91	40.03	13.53
111	2008	149	800	54.7	49.73	6.281	52.71	46.08	13.52
111	2008	149	815	54.32	49.02	6.809	40.44	37.72	13.52
111	2008	149	830	54.97	46.57	6.128	54.5	41.13	13.52
111	2008	149	845	55.46	40.58	5.53	51.04	51.85	13.51
111	2008	149	900	55.55	39.51	6.807	31.54	43.09	13.5
111	2008	149	915	54.94	44.53	7.3	29.89	28.27	13.51
111	2008	149	930	55.84	41.55	6.483	48.64	44.05	13.5
111	2008	149	945	56.13	38.07	5.85	49.83	41.26	13.49
111	2008	149	1000	56.27	38.44	5.816	32.11	49.63	13.48
111	2008	149	1015	55.84	39.38	6.769	62.12	34.07	13.48
111	2008	149	1030	56.34	38.94	5.675	44.36	40.63	13.48
111	2008	149	1045	55.82	38.27	5.348	43.23	38.12	13.48
111	2008	149	1100	56.05	39.24	4.305	38.62	45.5	13.49
111	2008	149	1115	56.44	35.56	6.39	20.68	40.89	13.48
111	2008	149	1130	57.76	36.13	5.29	43.81	49.87	13.46
111	2008	149	1145	58.47	32.22	5.775	45.29	33.75	13.45
111	2008	149	1200	59.28	36.23	5.51	33.27	45.01	13.45
111	2008	149	1215	59.94	32.28	5.904	43.27	45.86	13.44

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	149	1230	60.82	31.61	4.202	45.26	64.21	13.43
111	2008	149	1245	61.74	29.87	5.254	14.68	43.81	13.41
111	2008	149	1300	61.72	31.11	5.211	25.39	43.32	13.41
111	2008	149	1315	62.16	29.93	4.835	7.26	48.15	13.4
111	2008	149	1330	62.02	29.53	6.251	348.9	28.9	13.4
111	2008	149	1345	62.89	27.63	5.526	8.08	39.73	13.4
111	2008	149	1400	63.24	27.99	7.05	356.9	37.27	13.39
111	2008	149	1415	62.87	27.69	6.99	333.9	31.35	13.39
111	2008	149	1430	63.8	27.19	5.888	348.5	49.32	13.39
111	2008	149	1445	63.64	27.19	5.802	343.9	37.59	13.38
111	2008	149	1500	64.54	25.89	5.578	1.736	43.57	13.3
111	2008	149	1515	65.47	25.72	5.056	11.57	41.91	13.13
111	2008	149	1530	65.34	23.61	5.922	13.62	43.87	13.1
111	2008	149	1545	65.73	21.74	5.066	26.83	46.35	13.08
111	2008	149	1600	65.89	21.9	5.507	14.76	41.25	13.06
111	2008	149	1615	65.39	22.64	5.783	346.6	34.52	13.05
111	2008	149	1630	65.96	23.31	4.81	15.01	47.08	13.03
111	2008	149	1645	65.08	42.47	5.004	91.5	76.9	13
111	2008	149	1700	63.18	22.84	5.217	335.2	83.5	12.98
111	2008	149	1715	63.68	48.99	5.526	287.3	60.27	12.96
111	2008	149	1730	60.39	51.47	5.594	222.1	47.93	12.94
111	2008	149	1745	59.57	53.58	5.278	238.2	33.68	12.92
111	2008	149	1800	59.09	55.82	6.257	243	30.19	12.89
111	2008	149	1815	58.36	56.49	6.364	241.4	31.74	12.87
111	2008	149	1830	57.58	58.63	6.299	246.2	28.71	12.85
111	2008	149	1845	57.38	59.34	7.09	266.7	22.23	12.81
111	2008	149	1900	57.23	56.3	5.32	256.6	24.96	12.79
111	2008	149	1915	57.28	57.64	4.127	261.3	27.58	12.77
111	2008	149	1930	57.01	60.89	3.471	239.8	33.98	12.76
111	2008	149	1945	56.06	63.6	4.178	253.9	30.08	12.75
111	2008	149	2000	55.2	67.01	2.542	254.3	30.67	12.74
111	2008	149	2015	54.78	67.72	2.735	263.6	22.46	12.73
111	2008	149	2030	54.4	68.7	2.27	237.2	36	12.71
111	2008	149	2045	53.99	72.2	2.229	268.1	17.11	12.71
111	2008	149	2100	53.56	73.8	3.209	264.7	17.63	12.7
111	2008	149	2115	53.62	72.6	3.696	267.5	22.09	12.69
111	2008	149	2130	53.13	73.2	1.699	261.2	16.49	12.68
111	2008	149	2145	52.7	73.2	0.882	262.1	16.29	12.68
111	2008	149	2200	52.4	72.8	2.584	270	11.34	12.66
111	2008	149	2215	52.28	73.4	2.733	273.3	12.12	12.66
111	2008	149	2230	52.78	71.2	4.047	276.4	13.86	12.65
111	2008	149	2245	53.01	73.3	3.531	280.4	17.64	12.64
111	2008	149	2300	53.22	72.2	4.27	273.9	16.58	12.64
111	2008	149	2315	53.3	68.18	4.534	274.2	26.98	12.63
111	2008	149	2330	53.27	70.1	2.745	311.3	37.09	12.63
111	2008	149	2345	53.16	67.61	3.338	275.2	16.78	12.62
111	2008	149	2400	53.53	67.28	3.358	276.7	15.59	12.62
111	2008	150	15	53.04	68.55	2.638	281.8	22.71	12.61
111	2008	150	30	53.29	66.67	4.327	278.8	19.56	12.6
111	2008	150	45	53.3	64.93	4.996	280.1	13.19	12.59
111	2008	150	100	53.26	67.37	4.027	288.3	14.71	12.6
111	2008	150	115	52.8	69.14	3.62	307.4	17	12.58
111	2008	150	130	52.3	71.7	3.511	299.6	11.92	12.57
111	2008	150	145	51.62	73.4	2.646	300.9	17.54	12.58
111	2008	150	200	50.6	77	1.77	297.7	19.51	12.56
111	2008	150	215	49.74	77.9	1.773	314.1	19.25	12.55
111	2008	150	230	49.54	79.1	1.812	308.6	16.64	12.54
111	2008	150	245	49.31	79.3	2.526	312.4	14.47	12.54
111	2008	150	300	49.19	79.4	3.358	317.2	13.55	12.52
111	2008	150	315	49.39	78.9	3.755	317.1	17.59	12.52

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	150	330	49.19	79.3	3.185	322.3	19.46	12.52
111	2008	150	345	48.77	79.4	2.069	329.1	20.58	12.51
111	2008	150	400	48.16	79.9	2.026	336.5	13.47	12.51
111	2008	150	415	47.74	80	2.032	321.3	13.45	12.5
111	2008	150	430	47.46	79.5	2.244	334.2	18.15	12.49
111	2008	150	445	47.11	78.5	1.789	352.2	11.08	12.48
111	2008	150	500	46.75	79.4	1.04	329.1	14.94	12.48
111	2008	150	515	46.38	80	1.255	323.2	11.72	12.47
111	2008	150	530	46.03	80.5	1.315	326	11.65	12.47
111	2008	150	545	46.37	78.8	0.531	319.1	5.394	12.47
111	2008	150	600	46.39	78.9	na	na	na	12.47
111	2008	150	615	46.73	79.5	0.213	282.5	2.973	12.49
111	2008	150	630	47.78	72.1	0.813	309.5	13.07	12.52
111	2008	150	645	49.77	64.12	0.913	312.7	12.92	13.67
111	2008	150	700	51.61	58.96	2.486	316.6	19.75	13.65
111	2008	150	715	53.14	53.76	3.694	323	16.59	13.62
111	2008	150	730	54.72	44.92	3.191	341.9	27.21	13.6
111	2008	150	745	55.57	41.6	4.188	333.9	22.24	13.58
111	2008	150	800	56.54	37.58	4.403	327.2	25.58	13.56
111	2008	150	815	56.88	36.87	4.655	326.3	24.38	13.53
111	2008	150	830	57.54	35.9	3.96	333.2	32.71	13.52
111	2008	150	845	58.33	34.06	4.569	332.7	30.01	13.51
111	2008	150	900	58.98	33.19	5.26	336.6	39.47	13.49
111	2008	150	915	59.2	34.12	5.137	316.4	28.75	13.48
111	2008	150	930	59.99	31.81	4.825	330.8	28.17	13.46
111	2008	150	945	60.32	31.71	5.931	315.8	38.02	13.45
111	2008	150	1000	61.4	28.36	5.731	323	28.29	13.44
111	2008	150	1015	62.37	26.46	6.271	303.6	22.3	13.43
111	2008	150	1030	62.85	28.39	5.552	328.5	31.04	13.43
111	2008	150	1045	63.88	28.26	5.552	342.9	29.37	13.41
111	2008	150	1100	64.51	28.8	6.875	318.6	27.29	13.41
111	2008	150	1115	64.97	29.36	7.37	314.6	24.68	13.4
111	2008	150	1130	65.46	30.03	8.54	299.6	21.88	13.39
111	2008	150	1145	65.92	27.19	7.73	320.9	29.41	13.38
111	2008	150	1200	66.56	28.43	6.908	328.5	31.23	13.38
111	2008	150	1215	67.08	27.22	8.48	307.4	21.17	13.37
111	2008	150	1230	67.55	27.66	8.29	313	38.62	13.37
111	2008	150	1245	68.37	27.76	6.579	299.9	28.1	13.36
111	2008	150	1300	69.22	25.68	7.43	301.2	33.2	13.34
111	2008	150	1315	69.34	34.14	7.98	277.8	25.74	13.34
111	2008	150	1330	67.96	32.57	8.29	267.8	24.45	13.33
111	2008	150	1345	68.54	32.36	8.6	253.7	28.55	13.33
111	2008	150	1400	68.88	34.1	8.26	253.1	30.79	13.33
111	2008	150	1415	69.2	38.01	9.16	263	27.06	13.33
111	2008	150	1430	68.58	40.82	8.93	261.2	29.76	13.32
111	2008	150	1445	66.81	41.73	9.27	259.5	24.03	13.32
111	2008	150	1500	66.91	44.94	9.22	268.3	24.03	13.32
111	2008	150	1515	66.78	46.11	8.65	266.5	25.08	13.11
111	2008	150	1530	66.76	50.15	6.539	260.9	33.11	13.08
111	2008	150	1545	67.6	48.45	8.28	265.7	28.88	13.05
111	2008	150	1600	67.47	45.64	9.08	260.1	29.03	13.04
111	2008	150	1615	68.17	45.17	8.82	267.7	30.85	13.01
111	2008	150	1630	67.2	50.08	7.41	255.5	31.72	12.99
111	2008	150	1645	65.58	53.43	8.11	253.3	24.56	12.97
111	2008	150	1700	65.06	50.45	9.18	258.6	26.99	12.95
111	2008	150	1715	65.42	49.72	9.02	262.5	27.99	12.94
111	2008	150	1730	65.07	51.23	7.14	250	28.61	12.92
111	2008	150	1745	65.12	52.1	7.33	258.4	23.86	12.9
111	2008	150	1800	64.64	54.64	7.1	255.5	27.63	12.88
111	2008	150	1815	64.65	56.95	6.279	261.8	24.53	12.87

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	150	1830	63.67	60.97	7.55	269.2	23.31	12.84
111	2008	150	1845	63.16	61.54	7.39	272	24.81	12.82
111	2008	150	1900	63.19	59.46	5.356	267.4	22.5	12.79
111	2008	150	1915	63.49	61.54	5.457	267.8	26.56	12.78
111	2008	150	1930	62.04	68.56	6.422	267.1	23	12.78
111	2008	150	1945	60.73	72.4	5.931	267.9	26.36	12.76
111	2008	150	2000	59.87	74.4	4.416	270.4	20.23	12.76
111	2008	150	2015	59.48	75.8	4.933	265.3	27.99	12.74
111	2008	150	2030	58.91	77.9	3.543	267.3	21.23	12.73
111	2008	150	2045	58.19	80.3	1.628	262	19.72	12.72
111	2008	150	2100	57.9	80	2.962	277.4	13.3	12.71
111	2008	150	2115	58.34	78.2	4.79	283.4	12.01	12.71
111	2008	150	2130	57.99	79.6	2.17	260.8	26.26	12.7
111	2008	150	2145	57.54	80.5	2.498	275.8	19.73	12.69
111	2008	150	2200	57.57	80.3	2.074	278	16.67	12.68
111	2008	150	2215	57.02	81	1.095	274.7	13.76	12.67
111	2008	150	2230	56.31	82.3	0.04	253.4	2.197	12.67
111	2008	150	2245	55.82	83.6	0.263	353.4	4.81	12.66
111	2008	150	2300	55.04	85	0.105	335.2	1.924	12.65
111	2008	150	2315	54.33	86.5	0.119	311.4	11.94	12.64
111	2008	150	2330	53.51	87.7	0.405	260.7	13.57	12.63
111	2008	150	2345	53	88.6	0.145	277.4	2.103	12.62
111	2008	150	2400	52.71	89	0.107	279.6	1.307	12.62
111	2008	151	15	52.49	89.1	0.009	183.1	0	12.6
111	2008	151	30	51.99	89.4	na	na	na	12.6
111	2008	151	45	51.61	90.3	na	na	na	12.59
111	2008	151	100	51.55	90.9	1.027	302.8	19.3	12.58
111	2008	151	115	51.84	90.3	0.437	289.1	13.07	12.58
111	2008	151	130	51.45	90.4	na	na	na	12.57
111	2008	151	145	51.35	90.7	na	na	na	12.56
111	2008	151	200	51.22	90.3	0.681	294.9	6.69	12.56
111	2008	151	215	50.34	90.7	na	na	na	12.55
111	2008	151	230	49.87	91	na	na	na	12.54
111	2008	151	245	49.58	91.5	na	na	na	12.53
111	2008	151	300	49.61	91.4	na	na	na	12.52
111	2008	151	315	49.7	90.8	na	na	na	12.52
111	2008	151	330	49.39	90.9	na	na	na	12.51
111	2008	151	345	49.03	90.8	na	na	na	12.51
111	2008	151	400	48.56	91.4	na	na	na	12.5
111	2008	151	415	48.45	91.2	na	na	na	12.5
111	2008	151	430	47.99	91.1	na	na	na	12.49
111	2008	151	445	47.54	91.3	na	na	na	12.48
111	2008	151	500	47.53	91.3	na	na	na	12.48
111	2008	151	515	47.25	91.5	na	na	na	12.48
111	2008	151	530	47.73	90.7	na	na	na	12.47
111	2008	151	545	47.85	90.4	na	na	na	12.47
111	2008	151	600	48.03	89.8	na	na	na	12.47
111	2008	151	615	48.88	87.9	na	na	na	12.49
111	2008	151	630	50.59	85.5	na	na	na	12.53
111	2008	151	645	53.51	75.4	na	na	na	13.63
111	2008	151	700	56.16	71.4	na	na	na	13.61
111	2008	151	715	58.49	58.71	na	na	na	13.58
111	2008	151	730	60.58	56.56	0.217	225.1	9.3	13.56
111	2008	151	745	62.47	52.53	0.164	225.3	4.377	13.52
111	2008	151	800	63.63	52.02	0.325	245.7	16.66	13.49
111	2008	151	815	65.36	47.97	0.056	213.4	2.324	13.46
111	2008	151	830	67.61	42.04	0.662	193.3	61.51	13.43
111	2008	151	845	70.2	34.55	1.693	102.6	31.03	13.41
111	2008	151	900	71.9	32.07	1.525	121.5	53.29	13.38
111	2008	151	915	72.5	30.13	1.841	108.3	54.04	13.36

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	151	930	74.1	27.22	2.096	74	66.8	13.34
111	2008	151	945	74.1	24.44	3.302	56.19	64.19	13.32
111	2008	151	1000	74.1	26.68	2.727	56.06	59.63	13.32
111	2008	151	1015	74.2	29.35	3.303	153.1	54.76	13.3
111	2008	151	1030	72.9	30.39	4.949	195.7	23.15	13.3
111	2008	151	1045	72.8	31.02	4.941	201.8	26.22	13.29
111	2008	151	1100	73.4	28.61	4.863	175.8	30.72	13.28
111	2008	151	1115	73.4	26.04	5.229	170	24.2	13.29
111	2008	151	1130	74	25.64	4.825	176.4	30.91	13.29
111	2008	151	1145	73.5	29.95	6.344	165.9	19.63	13.28
111	2008	151	1200	73	29.72	5.554	185.3	27.58	13.28
111	2008	151	1215	72.9	26.24	5.83	175.8	25.47	13.28
111	2008	151	1230	73	26.95	5.63	186.4	27.68	13.28
111	2008	151	1245	73	24.64	5.767	178.9	31.18	13.28
111	2008	151	1300	73.1	25.81	5.419	179.8	33.83	13.28
111	2008	151	1315	72.8	29.79	6.511	165.4	21.2	13.28
111	2008	151	1330	72.2	24.64	5.328	207.7	33.74	13.28
111	2008	151	1345	72.1	30.12	5.207	210.5	30.37	13.27
111	2008	151	1400	72.8	34.87	4.895	181	34.29	13.27
111	2008	151	1415	72.2	31.43	4.893	192.3	35.43	13.27
111	2008	151	1430	71.1	31.66	6.027	179.5	26.05	13.27
111	2008	151	1445	71.4	29.62	4.909	208	33.86	13.28
111	2008	151	1500	71.4	29.39	4.24	215	45.29	13.28
111	2008	151	1515	70.7	37.91	5.481	200.2	30.84	13.03
111	2008	151	1530	70.5	37.04	5.304	188.6	36.1	12.97
111	2008	151	1545	69.79	41.99	5.951	191	28.57	12.95
111	2008	151	1600	69.78	42.19	4.732	188.1	30.88	12.94
111	2008	151	1615	69.53	38.95	5.29	200.8	36.66	12.92
111	2008	151	1630	69.05	41.32	5.54	200	28.72	12.9
111	2008	151	1645	68.52	44.93	5.312	214.5	36.39	12.89
111	2008	151	1700	68.46	47.64	4.915	207.4	37.59	12.88
111	2008	151	1715	67.81	53.19	4.629	237.3	38.91	12.87
111	2008	151	1730	67.34	57.57	5.058	213.7	44.41	12.87
111	2008	151	1745	66.41	64.76	4.929	213.8	39	12.9
111	2008	151	1800	64.85	67.6	4.323	225.7	33.79	12.92
111	2008	151	1815	64.5	70.6	3.918	216.3	41.32	13.02
111	2008	151	1830	64.36	71.5	3.031	217.7	40.54	12.89
111	2008	151	1845	64.06	71.9	3.336	218.8	40.79	12.85
111	2008	151	1900	63.45	75.1	3.948	220.8	34.99	12.79
111	2008	151	1915	62.42	75.5	4.17	227.2	48.08	12.77
111	2008	151	1930	62.98	71.3	3.648	235.2	41.41	12.76
111	2008	151	1945	63.25	71.7	5.177	218.3	39.77	12.75
111	2008	151	2000	62.76	73.9	5.302	227.1	30	12.73
111	2008	151	2015	62.58	72.7	4.581	232.7	37.98	12.73
111	2008	151	2030	62.94	69.11	4.504	246.1	37.48	12.73
111	2008	151	2045	63.46	69.18	6.243	254.4	28.17	12.73
111	2008	151	2100	63.18	70.1	6.372	258.2	34.39	12.72
111	2008	151	2115	63.13	68.81	7.12	258.8	29.65	12.7
111	2008	151	2130	63.27	68.15	6.704	260.3	35.59	12.71
111	2008	151	2145	63.13	69.85	7.44	260.2	29.84	12.71
111	2008	151	2200	62.48	70.3	6.853	255.3	30.72	12.71
111	2008	151	2215	62.35	69.45	6.968	259.1	28.15	12.7
111	2008	151	2230	62.06	70.5	6.217	255.7	35.1	12.69
111	2008	151	2245	61.79	70.7	6.767	258.8	28.59	12.68
111	2008	151	2300	61.59	70.8	6.035	251.2	34.75	12.68
111	2008	151	2315	61.32	71.3	6.668	254.7	28.71	12.67
111	2008	151	2330	61.1	71.9	6.422	240.3	35.45	12.67
111	2008	151	2345	60.83	72.2	5.082	254.4	30.57	12.66
111	2008	151	2400	60.63	72.4	5.89	251.9	28.35	12.65
111	2008	152	15	60.64	71.7	6.319	261.3	31.31	12.65

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	152	30	60.84	69.19	6.535	259.2	30.76	12.65
111	2008	152	45	61.18	69.09	7.96	262.5	30.19	12.64
111	2008	152	100	61.17	69.19	7.44	259.3	30.21	12.63
111	2008	152	115	60.98	70.1	7.58	263.9	23.73	12.63
111	2008	152	130	60.91	69.42	8.46	264.8	23.72	12.63
111	2008	152	145	60.92	69.42	7.74	262.4	24.38	12.62
111	2008	152	200	60.86	69.12	7.47	257.2	28.02	12.62
111	2008	152	215	60.47	71.2	7.62	257.6	29.79	12.61
111	2008	152	230	59.79	73.2	7.24	260.8	34.42	12.6
111	2008	152	245	59.5	74.4	6.533	267.7	27.69	12.59
111	2008	152	300	59.46	75.8	6.746	263	29.53	12.59
111	2008	152	315	59.24	78.1	5.973	260.4	27.41	12.59
111	2008	152	330	59.05	80	5.532	259.6	25.38	12.57
111	2008	152	345	58.91	81.1	5.231	266.5	25.71	12.57
111	2008	152	400	59.11	81	5.383	275.7	21.69	12.57
111	2008	152	415	59.39	80.1	5.894	274.1	26.11	12.56
111	2008	152	430	59.55	79.2	5.957	260.6	36.46	12.56
111	2008	152	445	59.58	79.2	5.614	268.9	31.9	12.56
111	2008	152	500	59.4	78.9	5.421	241.3	32.51	12.55
111	2008	152	515	59.18	79.1	4.911	240.8	34.27	12.55
111	2008	152	530	58.95	80	4.424	257.2	34.6	12.55
111	2008	152	545	58.83	80.8	4.988	248.2	34.79	12.55
111	2008	152	600	58.87	82	4.889	249.4	32.79	12.55
111	2008	152	615	58.91	82.9	5.076	246.3	36.08	12.55
111	2008	152	630	59.06	83.7	4.416	264.2	30.04	12.58
111	2008	152	645	59.55	83.6	4.913	262.1	29.35	12.74
111	2008	152	700	59.79	85	5.918	258.8	27.25	12.92
111	2008	152	715	59.86	85.9	6.261	266.3	25.14	12.82
111	2008	152	730	59.94	86.8	6.527	264.3	25.28	12.9
111	2008	152	745	59.25	91.2	5.955	256.8	33.07	12.75
111	2008	152	800	59.04	92.5	4.99	248.7	28.08	12.69
111	2008	152	815	59.15	93.1	5.272	250.5	29.01	12.65
111	2008	152	830	59.28	93.6	5.501	234.4	37.95	12.65
111	2008	152	845	59.72	93.5	6.231	246.6	34.16	13.06
111	2008	152	900	59.69	93.8	6.305	255.7	38.52	13.02
111	2008	152	915	59.63	94.3	6.511	270	30.58	13
111	2008	152	930	60	94.4	6.569	263.6	28.07	13.14
111	2008	152	945	60.33	94.5	6.712	258.5	28.94	13.32
111	2008	152	1000	60.71	94.3	7.97	261.8	30.13	13.45
111	2008	152	1015	60.87	94.1	7.13	259	31.74	13.34
111	2008	152	1030	60.85	93.8	7.22	258.6	27.18	13.39
111	2008	152	1045	60.84	94.1	7.56	251.2	33.04	13.43
111	2008	152	1100	61.24	93.6	7.64	254.3	32.17	13.43
111	2008	152	1115	61.34	93.5	7.6	268.5	26.41	13.43
111	2008	152	1130	60.8	93.7	8.1	267.1	27.14	13.43
111	2008	152	1145	60.73	94	7.91	268.9	27.48	13.43
111	2008	152	1200	60.98	93.6	8.33	264.6	24.15	13.44
111	2008	152	1215	61.14	93.3	8.77	270.8	25.53	13.43
111	2008	152	1230	61.33	92.5	7.76	256.7	27.32	13.43
111	2008	152	1245	61.21	92.5	7.85	257.4	26.23	13.43
111	2008	152	1300	61.3	92.5	8.7	272.4	24.19	13.15
111	2008	152	1315	60.79	92.9	8.73	274.8	21	12.92
111	2008	152	1330	60.57	93.4	8.46	278.8	19.51	12.85
111	2008	152	1345	60.11	94	6.779	258.7	32.06	12.82
111	2008	152	1400	59.95	94.6	7.49	271.4	25.83	12.81
111	2008	152	1415	60.92	94.5	6.062	262.9	36.57	13.05
111	2008	152	1430	61.63	94.2	6.497	264.3	29.65	13.45
111	2008	152	1445	62.64	92.5	6.257	256.5	30.04	13.43
111	2008	152	1500	61.8	92.9	6.446	249.1	37.77	13.36
111	2008	152	1515	61.19	93	7.12	252.1	33.55	13.44

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	152	1530	61.01	93	7.52	263.2	30.13	13.44
111	2008	152	1545	61.09	92.6	6.261	268.1	26.41	13.45
111	2008	152	1600	61.62	91.6	5.783	263.7	32.34	13.45
111	2008	152	1615	62.23	89.6	7.31	262.8	25.55	13.44
111	2008	152	1630	62.23	87.6	8.05	266.4	26.13	13.43
111	2008	152	1645	62.04	88.7	6.428	257.7	31.68	13.19
111	2008	152	1700	61.99	89.7	6.293	258.2	33.21	12.93
111	2008	152	1715	61.86	90.6	8.63	260.9	29.16	12.85
111	2008	152	1730	61.2	91.5	9.08	262	30.67	12.8
111	2008	152	1745	60.92	91.9	8.68	263	25.08	12.79
111	2008	152	1800	61	91.9	8.7	265.4	26.96	12.82
111	2008	152	1815	61.31	91.8	8.07	270	22.94	12.79
111	2008	152	1830	61.51	91.9	8.94	274.4	25.84	12.76
111	2008	152	1845	61.76	91.9	8.63	272.3	19.73	12.76
111	2008	152	1900	62	91.7	8.97	277.5	19.67	12.86
111	2008	152	1915	62.42	90.9	8.41	274	21.38	12.89
111	2008	152	1930	62.37	92.3	7.63	265.2	28.82	12.76
111	2008	152	1945	62.06	92.9	7.39	271.9	23.07	12.74
111	2008	152	2000	62.28	92.9	8.05	279.3	24.11	12.73
111	2008	152	2015	62.69	92.9	7.66	286.7	20.75	12.73
111	2008	152	2030	63	92.8	4.877	280.4	23.15	12.72
111	2008	152	2045	63.12	92.9	4.061	303.3	40.68	12.72
111	2008	152	2100	63.35	93.2	3.376	194.7	51.7	12.72
111	2008	152	2115	62.8	93.9	4.474	227.9	63.97	12.71
111	2008	152	2130	62.91	94	2.776	326.2	98.9	12.71
111	2008	152	2145	62.58	93.7	3.565	246.6	38.19	12.7
111	2008	152	2200	61.62	93.9	3.027	228.2	33.6	12.69
111	2008	152	2215	60.86	94	1.316	238.9	32.46	12.69
111	2008	152	2230	60.48	94.2	1.308	235.1	28.28	12.68
111	2008	152	2245	60.34	94.6	2.88	255.5	32.04	12.67
111	2008	152	2300	61.24	94.4	5.149	287.1	21.11	12.65
111	2008	152	2315	62.23	93.6	6.755	287.4	20.45	12.65
111	2008	152	2330	62.46	93.5	6.724	282.4	16.66	12.65
111	2008	152	2345	62.64	93.6	5.395	283.7	13.52	12.64
111	2008	152	2400	62.76	93.6	3.515	268.9	18.24	12.63
111	2008	153	15	62.71	93.8	2.441	266.8	27.15	12.63
111	2008	153	30	62.64	94	3.634	268.9	31.04	12.62
111	2008	153	45	62.99	93.9	5.03	287.1	15.3	12.61
111	2008	153	100	63.06	93.9	4.534	289.1	20.65	12.6
111	2008	153	115	63.2	93.9	5.308	293.9	14.48	12.59
111	2008	153	130	63.44	93.6	6.311	281.7	19.27	12.59
111	2008	153	145	63.24	93.3	5.278	285.2	20.98	12.59
111	2008	153	200	62.84	93.5	3.92	290.6	18.8	12.57
111	2008	153	215	62.47	93.8	2.298	286.2	17.09	12.57
111	2008	153	230	62.25	94	2.486	276.1	18.42	12.57
111	2008	153	245	62.26	94.2	3.134	305.6	16.7	12.56
111	2008	153	300	62.33	94.2	2.455	293.3	18.41	12.56
111	2008	153	315	62.18	94.3	2.677	276.9	22.05	12.56
111	2008	153	330	61.98	94.3	2.587	282.5	27.88	12.55
111	2008	153	345	61.81	94.7	3.515	303.5	19.34	12.55
111	2008	153	400	62.26	94.3	3.368	291.7	13.49	12.55
111	2008	153	415	62.68	93.6	4.639	309.4	14.74	12.55
111	2008	153	430	63.43	91.7	4.939	303.9	15.53	12.55
111	2008	153	445	63.88	89.9	4.839	310.3	15.41	12.55
111	2008	153	500	64.32	88.6	5.59	299.6	16.09	12.55
111	2008	153	515	64.26	89.1	4.293	293	16.11	12.55
111	2008	153	530	63.68	90.2	3.336	289.7	13.52	12.55
111	2008	153	545	63.57	90.2	4.345	311.1	14.49	12.55
111	2008	153	600	63.75	90.2	3.672	303.8	13.96	12.71
111	2008	153	615	64.07	89.8	3.968	287	15.96	13.26

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	153	630	64.42	89.6	3.777	282.2	14.28	13.43
111	2008	153	645	64.95	88.2	4.222	291.3	14.71	13.41
111	2008	153	700	65.6	86	4.393	291.7	18.35	13.41
111	2008	153	715	66.42	83.2	4.895	304.6	17.77	13.4
111	2008	153	730	67.36	80.7	5.713	296.2	18.09	13.39
111	2008	153	745	68.25	78.1	5.947	295.9	17.82	13.37
111	2008	153	800	69.32	73.8	5.999	302.1	21.88	13.36
111	2008	153	815	70.4	69.82	7.95	303	20.6	13.35
111	2008	153	830	71.2	68.35	7.71	307.7	20.32	13.35
111	2008	153	845	72.1	64.9	7.24	304.1	18.7	13.34
111	2008	153	900	73	59.65	8.46	307.4	20.62	13.32
111	2008	153	915	73.6	57.77	8.01	304.3	20.27	13.32
111	2008	153	930	74.2	54.86	9.19	305	18.6	13.31
111	2008	153	945	74.6	51.42	8.31	300.7	17.17	13.3
111	2008	153	1000	75.6	47.07	7.09	322.6	27.45	13.29
111	2008	153	1015	75.8	43.23	9.33	309.6	17.05	13.29
111	2008	153	1030	76.4	43.29	8.25	311.5	21.67	13.29
111	2008	153	1045	76.9	44.12	8.47	313.4	23.9	13.28
111	2008	153	1100	76.9	42.12	8.79	313.2	22.07	13.27
111	2008	153	1115	76.9	41.11	10.54	306.2	24.95	13.27
111	2008	153	1130	77.1	39.84	8.7	301	16.53	13.28
111	2008	153	1145	77.3	40.81	9.99	294.4	20.13	13.26
111	2008	153	1200	77.9	37.83	8.71	302.8	25.29	13.26
111	2008	153	1215	78.2	36.57	10.07	312.8	20.66	13.26
111	2008	153	1230	78.2	35.23	10.39	302.3	23.67	13.26
111	2008	153	1245	78.6	34.19	8.44	300	25.46	13.26
111	2008	153	1300	78.4	35.23	8.91	299	22.1	13.26
111	2008	153	1315	78.7	33.86	7.65	297.4	27.81	13.26
111	2008	153	1330	78.8	34.29	9.16	307.7	22.78	13.26
111	2008	153	1345	79	40.51	6.551	276	24.82	13.25
111	2008	153	1400	78	41.48	8.13	273.4	25.75	13.25
111	2008	153	1415	78	36.83	8.22	281.4	26.58	13.26
111	2008	153	1430	78.3	39.2	6.62	267	32.69	13.26
111	2008	153	1445	78	38.9	8.23	272.6	20.55	13.25
111	2008	153	1500	78.4	45.55	8.1	272.1	29.04	13.26
111	2008	153	1515	77.2	45.09	6.561	264.5	27.01	13.26
111	2008	153	1530	76.4	46.16	6.865	272.2	19.95	13.26
111	2008	153	1545	74.3	55.32	5.685	270.1	31.67	13.27
111	2008	153	1600	71.8	56.56	5.705	255	28.32	13.14
111	2008	153	1615	70.8	57.44	6.301	275.2	19.38	12.99
111	2008	153	1630	71.7	56.4	4.706	263.5	27.76	12.99
111	2008	153	1645	72.2	54.23	5.548	265.6	26.58	13.31
111	2008	153	1700	73.7	54.83	6.06	279.5	21.82	13.11
111	2008	153	1715	72.8	55.2	5.054	272.6	24.63	13.1
111	2008	153	1730	71.8	56.94	5.018	265.9	25.52	13.16
111	2008	153	1745	72.6	56.34	4.504	268	27.85	13.06
111	2008	153	1800	73.3	54.23	4.287	261.7	30.66	12.96
111	2008	153	1815	72.8	55.4	3.338	260	37.75	12.94
111	2008	153	1830	71.6	58.88	4.808	264	24.75	12.94
111	2008	153	1845	70.7	60.78	4.49	270.4	23.06	12.92
111	2008	153	1900	69.55	64.06	2.936	266.7	29.14	12.84
111	2008	153	1915	69.66	62.39	0.797	214.3	34.8	12.81
111	2008	153	1930	70	64.46	1.022	244.9	19.78	12.79
111	2008	153	1945	69.35	66.7	0.05	196.7	1.194	12.77
111	2008	153	2000	69.16	67.91	0	0	0	12.76
111	2008	153	2015	68.94	69.86	0.79	210.2	59.6	12.76
111	2008	153	2030	69.19	68.19	1.689	56.02	24.68	12.75
111	2008	153	2045	69.42	67.49	0.934	24.09	20.13	12.74
111	2008	153	2100	69.77	66.22	1.204	30.81	29.93	12.74
111	2008	153	2115	70	59.63	1.82	47.7	28.79	12.73

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	153	2130	70.5	53.01	2.047	53.23	29.1	12.73
111	2008	153	2145	70.7	51.3	2.703	48.24	33.97	12.72
111	2008	153	2200	70.3	49.6	3.483	51.77	24.26	12.73
111	2008	153	2215	69.68	49.36	4.009	42.06	32.9	12.73
111	2008	153	2230	68.83	48.96	3.778	42.35	34.08	12.71
111	2008	153	2245	68.26	49.97	3.28	41.4	32.28	12.71
111	2008	153	2300	67.67	51.17	2.342	30.92	38.82	12.71
111	2008	153	2315	66.88	52.34	1.516	48.71	39.99	12.71
111	2008	153	2330	66.34	52.11	1.634	45.06	38.54	12.7
111	2008	153	2345	66.29	52.01	1.829	30.57	46.82	12.69
111	2008	153	2400	66.13	52.51	1.317	352.9	25.18	12.68
111	2008	154	15	65.95	53.08	2.053	359.9	25.72	12.68
111	2008	154	30	65.59	51.81	2.698	345.7	21.97	12.67
111	2008	154	45	65.38	52.52	2.806	337.4	21.3	12.67
111	2008	154	100	64.87	53.86	2.896	348.7	20.06	12.65
111	2008	154	115	64.39	53.66	2.683	350.2	22.51	12.66
111	2008	154	130	64	53.83	2.945	347.7	19.18	12.65
111	2008	154	145	63.49	55.44	2.394	350.2	23.79	12.65
111	2008	154	200	62.89	57.04	1.194	6.443	26.77	12.64
111	2008	154	215	62.26	59.18	0.458	341.1	12.09	12.64
111	2008	154	230	61.76	60.22	0.574	330.2	13.19	12.63
111	2008	154	245	61.27	63.03	na	na	na	12.63
111	2008	154	300	60.36	66.88	na	na	na	12.62
111	2008	154	315	60	65.88	0.136	326	5.409	12.61
111	2008	154	330	59.69	68.25	0.027	307.2	0.316	12.6
111	2008	154	345	58.76	71.1	na	na	na	12.6
111	2008	154	400	58.92	68.76	0.327	340.7	7.15	12.59
111	2008	154	415	59.11	68.59	1.319	4.108	16.48	12.58
111	2008	154	430	58.83	69.56	1.326	5.108	24.09	12.57
111	2008	154	445	58.23	69.9	2.599	344.6	23.46	12.57
111	2008	154	500	58.04	68.8	3.098	349.3	23.86	12.57
111	2008	154	515	57.89	69.27	1.543	313.8	24.21	12.56
111	2008	154	530	56.94	73.4	0.373	279.7	17.49	12.56
111	2008	154	545	57.02	70.9	1.538	329.7	16.54	12.55
111	2008	154	600	58.17	68.04	2.34	325.5	19.58	13.53
111	2008	154	615	59.32	66.56	1.624	317.8	17.05	13.51
111	2008	154	630	60.09	65.92	1.794	301.9	19.21	13.5
111	2008	154	645	60.5	66.75	2.45	315.7	19.27	13.48
111	2008	154	700	60.68	67.15	3.251	321.2	25.1	13.48
111	2008	154	715	61.32	65.54	3.908	325.4	28.86	13.47
111	2008	154	730	61.72	64.43	3.924	332.1	23.44	13.46
111	2008	154	745	62.52	62.38	4.927	340	26.72	13.45
111	2008	154	800	63.23	59.53	4.544	334.4	22.32	13.43
111	2008	154	815	63.65	58.76	5.636	334.5	23.45	13.42
111	2008	154	830	64.44	55.49	5.236	321.6	30.82	13.41
111	2008	154	845	64.75	54.11	5.078	334.7	28.93	13.4
111	2008	154	900	65.82	53.58	4.055	334.8	34.54	13.4
111	2008	154	915	66.64	47.65	4.516	351	42.38	13.38
111	2008	154	930	67.09	47.89	5	350.6	33.22	13.38
111	2008	154	945	67.85	46.74	5.572	359.5	38.16	13.36
111	2008	154	1000	68.32	44.94	6.273	351.2	38.79	13.36
111	2008	154	1015	69.02	43.7	5.205	340.9	27.61	13.35
111	2008	154	1030	69.21	41.83	6.666	332.4	28.21	13.34
111	2008	154	1045	69.78	42.23	5.92	341.4	29.13	13.34
111	2008	154	1100	70.7	40.19	5.737	348.9	26.82	13.34
111	2008	154	1115	71.7	36.64	5.227	359	41.81	13.32
111	2008	154	1130	72.4	38.38	5.268	346.6	43.25	13.32
111	2008	154	1145	72.8	36.34	5.747	356.2	34.24	13.31
111	2008	154	1200	73	36.94	6.017	355.8	39.33	13.3
111	2008	154	1215	73.1	36.81	7.08	324.2	25.64	13.3

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	154	1230	73.3	35.14	7.67	320.5	21.3	13.3
111	2008	154	1245	74.1	33.6	7.71	345.8	27.67	13.3
111	2008	154	1300	74.7	32.53	6.66	339.2	36.81	13.29
111	2008	154	1315	75.3	33.73	7.07	349.7	29.23	13.28
111	2008	154	1330	75.6	34.3	6.317	340.5	36.73	13.28
111	2008	154	1345	76.2	31.42	6.847	357.8	37.91	13.19
111	2008	154	1400	76	31.52	7.74	356.4	22.1	13.27
111	2008	154	1415	76.1	31.65	5.953	3.727	34.32	13.05
111	2008	154	1430	76.4	30.28	6.281	2.064	39.91	13.12
111	2008	154	1445	77.1	31.32	6.706	345.1	27.43	13.05
111	2008	154	1500	77.2	29.78	6.738	346.8	37.26	13.24
111	2008	154	1515	77.3	30.38	6.716	336.2	31.79	13.05
111	2008	154	1530	77.6	29.41	7.2	322.5	27.24	13.09
111	2008	154	1545	77.7	29.45	7.36	338.8	32.71	12.97
111	2008	154	1600	77.7	29.25	6.626	331.2	36.87	12.98
111	2008	154	1615	78.5	28.68	6.499	330.1	26.96	13
111	2008	154	1630	78.8	30.25	5.844	329.8	36.33	12.92
111	2008	154	1645	79.1	29.34	6.63	337.8	36.54	12.94
111	2008	154	1700	77.1	48.96	6.823	298.3	44.57	12.93
111	2008	154	1715	70.2	57.49	6.064	251.1	26.52	12.88
111	2008	154	1730	69.55	55.39	6.458	257.2	30.7	12.86
111	2008	154	1745	68.62	57.4	7.61	254.6	27.78	12.87
111	2008	154	1800	67.8	58.91	6.466	261.1	26.5	12.87
111	2008	154	1815	67.77	60.61	6.726	260.3	28.81	12.84
111	2008	154	1830	67.01	60.82	6.064	265.3	24.98	12.81
111	2008	154	1845	66.81	60.65	7.15	264	22.07	12.8
111	2008	154	1900	66.96	59.45	6.116	269.9	18.54	12.79
111	2008	154	1915	67.01	61.6	4.379	268	21.3	12.77
111	2008	154	1930	66.56	63.01	5.209	264.9	22.89	12.76
111	2008	154	1945	65.37	66.65	5.129	269.5	20.79	12.76
111	2008	154	2000	64.46	68.29	5.322	273.9	17.04	12.75
111	2008	154	2015	64.36	66.76	6.219	274.1	19.88	12.74
111	2008	154	2030	64.18	66.09	5.548	278.6	14.41	12.73
111	2008	154	2045	63.97	66.5	4.758	280.3	12.48	12.72
111	2008	154	2100	63.68	67.74	2.661	276.9	14.58	12.71
111	2008	154	2115	63.32	66.54	2.647	280.1	18.64	12.71
111	2008	154	2130	63.21	65.54	1.888	302.9	13.7	12.69
111	2008	154	2145	63.51	65.5	3.505	288.6	12.56	12.69
111	2008	154	2200	62.74	67.41	0.613	273.4	7.64	12.68
111	2008	154	2215	61.79	70.7	na	na	na	12.68
111	2008	154	2230	60.8	73	0.521	281.5	6.123	12.67
111	2008	154	2245	60.58	73.8	0.456	274.8	5.722	12.66
111	2008	154	2300	59.64	77.1	na	na	na	12.66
111	2008	154	2315	59.13	78.1	na	na	na	12.64
111	2008	154	2330	58.64	79.3	na	na	na	12.63
111	2008	154	2345	58.11	81	na	na	na	12.63
111	2008	154	2400	57.73	82.5	na	na	na	12.61
111	2008	155	15	57.31	83.7	na	na	na	12.61
111	2008	155	30	56.97	84.9	na	na	na	12.6
111	2008	155	45	56.4	85.9	0.027	278	0.896	12.6
111	2008	155	100	56.13	86.8	na	na	na	12.58
111	2008	155	115	56.16	87.2	na	na	na	12.58
111	2008	155	130	55.93	88	na	na	na	12.57
111	2008	155	145	55.75	88.3	na	na	na	12.56
111	2008	155	200	55.59	89.1	0.174	288.4	1.069	12.56
111	2008	155	215	55.7	89.2	0.22	263.4	9.11	12.55
111	2008	155	230	55.74	88.9	0.129	18.53	3.226	12.54
111	2008	155	245	55.64	89	0.053	351	1.495	12.54
111	2008	155	300	55.3	89.5	na	na	na	12.54
111	2008	155	315	55.03	90	0.018	290.1	0.402	12.53

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	155	330	54.82	90.2	na	na	na	12.53
111	2008	155	345	54.56	90.7	na	na	na	12.52
111	2008	155	400	54.38	90.8	na	na	na	12.52
111	2008	155	415	54.16	91.1	na	na	na	12.52
111	2008	155	430	54.07	91.6	na	na	na	12.52
111	2008	155	445	54.46	91.3	0.387	260.1	23.16	12.51
111	2008	155	500	54.56	91.1	na	na	na	12.51
111	2008	155	515	54.35	91.1	0.332	264.5	4.981	12.52
111	2008	155	530	54.36	91.6	na	na	na	12.51
111	2008	155	545	55.23	91.2	na	na	na	12.52
111	2008	155	600	56.62	89.1	na	na	na	13.08
111	2008	155	615	57.76	85.8	na	na	na	13.45
111	2008	155	630	59.29	82.4	na	na	na	13.55
111	2008	155	645	60.84	78.5	na	na	na	13.33
111	2008	155	700	61.01	79.4	na	na	na	13.2
111	2008	155	715	60.88	82.3	na	na	na	13.23
111	2008	155	730	62.66	73.6	1.151	238.5	30.04	13.51
111	2008	155	745	64.78	70.9	0.867	274.1	18.77	13.48
111	2008	155	800	66.8	65.2	1.614	254	39.87	13.46
111	2008	155	815	68.44	60.37	1.574	277	27.15	13.42
111	2008	155	830	70	61.21	2.808	247.2	28.28	13.39
111	2008	155	845	70.2	60.66	3.922	266.1	26.78	13.37
111	2008	155	900	70.7	55.34	3.604	263	39.14	13.35
111	2008	155	915	72.2	53.76	2.81	260.7	32.74	13.34
111	2008	155	930	73.4	51.09	2.972	245.8	40.66	13.32
111	2008	155	945	73.5	51.62	3.716	236.9	31.3	13.3
111	2008	155	1000	73.7	50.07	3.628	226.6	33.1	13.3
111	2008	155	1015	74.2	45.9	4.681	250.9	29.77	13.29
111	2008	155	1030	74.4	46.43	5.294	252.1	30.91	13.28
111	2008	155	1045	74.8	47.33	4.976	251.6	30.69	13.28
111	2008	155	1100	73.8	49.63	5.373	254.6	30	13.26
111	2008	155	1115	74.5	50.23	4.357	246.6	32.37	13.27
111	2008	155	1130	73.4	53.08	4.538	249.9	30.79	13.27
111	2008	155	1145	72.8	54.85	4.994	253.1	31.07	13.27
111	2008	155	1200	71.8	57.63	3.787	248.2	30.37	13.28
111	2008	155	1215	72.1	52.59	4.42	255.1	30.24	13.28
111	2008	155	1230	73.5	48.78	6.039	258.4	30.81	13.28
111	2008	155	1245	74	49.04	5.671	245.3	34.06	13.27
111	2008	155	1300	74.4	49.21	5.967	252.2	28.2	13.26
111	2008	155	1315	74.5	50.77	6.269	242.3	31.21	13.26
111	2008	155	1330	73.7	48.77	7	262.2	28.25	13.26
111	2008	155	1345	74.1	49.07	6.656	257.6	27.34	13.26
111	2008	155	1400	75	46.66	6.638	258.1	34.61	13.25
111	2008	155	1415	75.2	46.73	7.65	258.1	30.7	13.25
111	2008	155	1430	74.2	48.56	7.4	255.6	34.8	13.26
111	2008	155	1445	74.5	51.07	7.35	247.3	30.21	13.25
111	2008	155	1500	73.5	49.6	8	266.2	25.55	13.26
111	2008	155	1515	74.4	47.66	7.27	248.2	35.58	13.25
111	2008	155	1530	74.8	45.36	7.27	268.3	27.51	13.25
111	2008	155	1545	74.5	46.16	7.42	253.6	27.94	13.26
111	2008	155	1600	73.8	44.72	7.12	255.4	30.08	13.26
111	2008	155	1615	73.3	45.86	7.49	257.3	27.23	13.26
111	2008	155	1630	73.1	45.46	7.9	254	28.77	13.25
111	2008	155	1645	72.3	46.13	8.58	263.4	30.64	13.27
111	2008	155	1700	72.1	46.97	7.91	260.4	26.6	13.27
111	2008	155	1715	72.3	45.97	7.23	262.5	30.83	13.24
111	2008	155	1730	72	45.84	7.23	260.2	26.18	13.16
111	2008	155	1745	71.4	49.08	6.962	263.3	27.76	13.04
111	2008	155	1800	70.6	51.02	6.456	259.6	30.81	12.96
111	2008	155	1815	69.34	53.53	6.273	261.9	28.1	12.94

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	155	1830	68.22	57.61	6.563	261.9	27.07	12.92
111	2008	155	1845	67.13	59.85	6.591	259.9	29.93	12.9
111	2008	155	1900	66.74	58.82	6.196	253.2	33.51	12.84
111	2008	155	1915	66.37	61.27	5.57	249.3	37.56	12.8
111	2008	155	1930	65.98	62.31	5.751	262.1	27.63	12.78
111	2008	155	1945	65.68	63.04	6.235	262	26.33	12.77
111	2008	155	2000	65.24	60.6	5.9	262.7	29.96	12.76
111	2008	155	2015	65.14	58.66	6.192	264.8	29.99	12.75
111	2008	155	2030	64.85	58.3	6.396	263	24.96	12.74
111	2008	155	2045	65	58.4	7.12	263.1	25.77	12.73
111	2008	155	2100	64.56	61.31	5.896	260.7	27.22	12.72
111	2008	155	2115	64.49	59.97	7.07	263.3	27.76	12.72
111	2008	155	2130	64.58	60.64	6.589	253.7	32.42	12.72
111	2008	155	2145	64.23	63.55	5.254	256.8	30.86	12.71
111	2008	155	2200	64.1	64.13	5.34	257.8	32.76	12.71
111	2008	155	2215	63.99	63.76	6.102	260.6	28.16	12.71
111	2008	155	2230	64.01	64.73	5.296	263.9	27.08	12.71
111	2008	155	2245	63.76	68.41	5.509	252.5	24.49	12.69
111	2008	155	2300	63.43	67.61	4.675	260	31.42	12.69
111	2008	155	2315	63.71	67.64	5.342	262.8	29.64	12.69
111	2008	155	2330	63.72	70.2	5.207	254	41.61	12.68
111	2008	155	2345	63.19	72.8	4.972	252.1	35.06	12.68
111	2008	155	2400	62.75	74.6	5.077	252.2	32.45	12.68
111	2008	156	15	62.58	74.9	4.923	261.8	30.58	12.68
111	2008	156	30	62.59	76.2	4.021	246.2	32.6	12.67
111	2008	156	45	62.43	76.9	4.903	250.9	31.35	12.67
111	2008	156	100	62.29	78.2	4.178	243	36.3	12.66
111	2008	156	115	62.07	79.6	4.281	247.5	28.23	12.65
111	2008	156	130	61.78	79.3	7.13	249.8	27.43	12.65
111	2008	156	145	60.6	82.5	6.888	258.8	27.46	12.64
111	2008	156	200	58.41	84.1	6.696	262.8	28.68	12.63
111	2008	156	215	57.4	88.2	5.352	250.4	31.07	12.63
111	2008	156	230	56.35	92	3.567	266.3	26.1	12.63
111	2008	156	245	56.61	92	3.329	256.9	36.43	12.61
111	2008	156	300	57.07	92.5	3.288	228.5	40.63	12.6
111	2008	156	315	56.9	90.4	5.459	228.5	37.39	12.6
111	2008	156	330	55.59	92.2	4.041	215.7	41.66	12.6
111	2008	156	345	55.98	92	4.818	199.5	25.8	12.59
111	2008	156	400	56.2	91.8	4.571	188.8	29.86	12.58
111	2008	156	415	56.09	92.4	4.154	192.7	28.63	12.58
111	2008	156	430	56.27	93.2	5.139	189	31.4	12.58
111	2008	156	445	56.7	93.8	6.257	176.7	24.91	12.56
111	2008	156	500	57.08	93.7	6.259	173.6	28.33	12.56
111	2008	156	515	56.71	94.1	6.313	160.9	23.18	12.56
111	2008	156	530	56.8	94	5.729	158.5	25.39	12.55
111	2008	156	545	56.96	94.1	6.68	159	26.55	12.55
111	2008	156	600	57.42	94.2	6.966	164.5	28.94	12.55
111	2008	156	615	58.14	94.2	6.877	170.4	28.53	12.54
111	2008	156	630	58.69	94.4	7.82	175.4	28.59	12.54
111	2008	156	645	59.06	94.7	7.76	177.6	25.82	12.54
111	2008	156	700	59.55	94.8	6.914	174.1	27.86	12.54
111	2008	156	715	59.85	95	6.384	195.9	37.55	12.54
111	2008	156	730	59.96	94.9	6.815	196.9	38.03	12.54
111	2008	156	745	60.01	94.9	5.9	213	49.85	12.54
111	2008	156	800	60.05	94.9	6.019	223.4	33.85	12.54
111	2008	156	815	59.98	94.8	6.045	227.8	42.44	12.54
111	2008	156	830	59.91	94.7	5.133	242.2	44.94	12.54
111	2008	156	845	59.91	94.7	5.675	257	30.41	12.55
111	2008	156	900	60.18	94.3	6.577	255	31.17	12.54
111	2008	156	915	60.26	94.3	5.953	251.9	29.54	12.55

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	156	930	60.3	94.2	6.66	253.9	30.29	12.55
111	2008	156	945	60.19	94.3	5.717	255.9	33.69	12.58
111	2008	156	1000	60.08	94	6.934	267.1	25.76	12.58
111	2008	156	1015	60.08	93.5	6.348	265.7	27.51	12.6
111	2008	156	1030	60.17	93	5.806	264.9	32.09	12.73
111	2008	156	1045	60.2	92.4	6.251	267	22.67	12.83
111	2008	156	1100	60.33	91.8	6.19	267.2	23.47	12.95
111	2008	156	1115	60.71	91.8	4.962	262.4	29.04	13.19
111	2008	156	1130	61.07	90.5	5.925	271.8	21.64	13.39
111	2008	156	1145	61.27	90.3	6.724	279.7	23.98	13.38
111	2008	156	1200	61.69	89.7	4.482	263.3	24.59	13.38
111	2008	156	1215	62.69	89.5	3.198	288.9	33.65	13.41
111	2008	156	1230	63.54	88.3	1.335	284	45.23	13.3
111	2008	156	1245	64.07	87.9	1.254	230.2	29.24	13.26
111	2008	156	1300	64.17	87.5	2.601	217.5	54.34	13.16
111	2008	156	1315	63.74	88.9	2.367	222.8	33.94	13.11
111	2008	156	1330	64.13	88	2.977	265	27.6	13.39
111	2008	156	1345	64.65	87.1	3.223	237.1	33.16	13.38
111	2008	156	1400	64.51	86.7	3.134	246.9	30.78	13.38
111	2008	156	1415	64.41	86.9	2.073	228.2	31.42	13.07
111	2008	156	1430	64.27	87.6	2.249	270.1	25.83	12.94
111	2008	156	1445	64.56	87.5	1.636	293.4	24.6	12.93
111	2008	156	1500	65.02	86.3	1.086	351.6	35.51	12.95
111	2008	156	1515	65.73	85	1.67	36.37	43.85	13.03
111	2008	156	1530	66.35	83	1.909	50.93	30.38	13.18
111	2008	156	1545	66.91	81.5	2.528	32.56	25.59	13.23
111	2008	156	1600	67.31	81.4	3.044	57.83	44.09	13.37
111	2008	156	1615	67.18	80.9	1.824	44.97	37.22	13.19
111	2008	156	1630	67.32	79.1	2.453	37.33	31.19	13.11
111	2008	156	1645	67.66	77.6	3.408	31.31	30.88	13.14
111	2008	156	1700	67.73	77.5	3.359	28.02	30.6	13.08
111	2008	156	1715	67.81	75.8	3.398	21.69	30.59	13.37
111	2008	156	1730	67.9	76.7	3.406	52.65	34.67	13.21
111	2008	156	1745	67.96	75.3	2.228	40.4	35.1	13.24
111	2008	156	1800	67.9	75.4	3.239	64.74	28.43	13.27
111	2008	156	1815	68.01	75.5	3.483	53.66	31.35	13.08
111	2008	156	1830	67.24	77	3.238	45.32	32.93	12.91
111	2008	156	1845	66.99	76.4	2.833	32.29	39.93	12.85
111	2008	156	1900	66.78	77.7	2.351	43.74	32.94	12.81
111	2008	156	1915	66.5	78	2.841	57.46	42.92	12.8
111	2008	156	1930	66.27	78.4	2.5	75.2	30.37	12.78
111	2008	156	1945	66.13	80.2	2.397	62.72	30.08	12.78
111	2008	156	2000	65.68	81.7	3.412	87.4	21.5	12.77
111	2008	156	2015	64.89	84.4	3.841	80.1	19.75	12.76
111	2008	156	2030	64.28	85.9	3.652	80.9	22.53	12.75
111	2008	156	2045	63.64	87.2	3.896	86	27.74	12.74
111	2008	156	2100	63.13	87.4	3.414	78.3	23.97	12.73
111	2008	156	2115	62.92	88	2.792	78.1	21.15	12.73
111	2008	156	2130	62.78	88.6	2.519	81.1	29.88	12.73
111	2008	156	2145	62.73	88.7	2.818	80.1	28.86	12.72
111	2008	156	2200	62.67	88.7	2.946	79.1	29.07	12.71
111	2008	156	2215	62.72	89.1	2.336	75.6	27.19	12.71
111	2008	156	2230	62.59	89.9	2.798	77.6	19.66	12.69
111	2008	156	2245	62.51	90.3	2.271	86.2	22.77	12.69
111	2008	156	2300	62.43	90.9	2.439	83.7	22.02	12.69
111	2008	156	2315	62.31	91.5	3.012	84.9	27.69	12.68
111	2008	156	2330	62.18	92.1	3.074	72	24.06	12.67
111	2008	156	2345	62.1	92.5	2.985	74.3	32.11	12.67
111	2008	156	2400	62.01	92.8	3.686	79.1	21.31	12.66
111	2008	157	15	61.94	93	3.596	79	22.99	12.65

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	157	30	61.86	93.2	4.395	76.7	19.21	12.64
111	2008	157	45	61.71	93.1	4.512	78.8	27.06	12.64
111	2008	157	100	61.59	93	4.266	80.7	26.97	12.63
111	2008	157	115	61.54	92.9	4.033	71.4	26.19	12.63
111	2008	157	130	61.46	92.6	5.211	82.2	27.82	12.61
111	2008	157	145	61.4	92.6	4.615	117.1	17.09	12.61
111	2008	157	200	61.37	92.5	3.267	85.3	29.19	12.6
111	2008	157	215	61.09	92.7	3.636	77.2	31.71	12.6
111	2008	157	230	60.93	92.9	4.129	77.9	20.35	12.59
111	2008	157	245	60.65	92.9	4.389	72.8	27.8	12.58
111	2008	157	300	60.15	93.4	4.079	71.5	28.01	12.57
111	2008	157	315	59.83	93.6	4.232	72.1	30.8	12.57
111	2008	157	330	59.53	93.8	4.029	79.1	28.66	12.56
111	2008	157	345	59.3	93.9	4.518	69.83	28.85	12.55
111	2008	157	400	59.15	93.7	4.75	59.76	34.59	12.55
111	2008	157	415	59.04	93.5	4.186	71.1	33.7	12.55
111	2008	157	430	59	93.6	3.984	54.98	29.55	12.55
111	2008	157	445	58.88	93.5	3.902	61.11	36.83	12.53
111	2008	157	500	58.7	93.4	4.065	55.95	34.33	12.54
111	2008	157	515	58.6	93.3	3.579	54.48	31.92	12.53
111	2008	157	530	58.48	93.2	3.66	51.67	36.33	12.53
111	2008	157	545	58.44	93	4.131	47.28	32.81	12.54
111	2008	157	600	58.52	92.3	4.218	43.62	31.39	12.53
111	2008	157	615	58.55	91.7	4.407	42.75	28.26	12.53
111	2008	157	630	58.63	91.2	4.472	42	23.47	12.52
111	2008	157	645	58.75	90.2	4.476	42.56	30.56	12.52
111	2008	157	700	58.97	89.5	4.103	43	29.04	12.56
111	2008	157	715	59.22	88.3	4.913	43.06	28.93	12.67
111	2008	157	730	59.78	86.6	4.496	46.07	35.1	13
111	2008	157	745	59.98	85.8	5.32	34.79	28.26	13.23
111	2008	157	800	60.41	84.4	5.667	28.03	33.15	13.43
111	2008	157	815	60.93	83.5	5.785	26.97	32.75	13.43
111	2008	157	830	61.41	81.4	6.557	35.89	33.38	13.43
111	2008	157	845	61.59	81.4	6.114	45.03	35.52	13.43
111	2008	157	900	62.1	80	4.945	52.54	34.17	13.43
111	2008	157	915	62.69	78.2	5.211	46.53	34.35	13.41
111	2008	157	930	63.47	76.6	4.158	64.25	41.76	13.4
111	2008	157	945	64.39	74.5	4.865	43.86	39.81	13.4
111	2008	157	1000	64.4	74.2	4.992	38.92	30.49	13.4
111	2008	157	1015	64.55	73.7	5.705	29.39	38.09	13.39
111	2008	157	1030	64.91	72.1	4.859	37.32	42.53	13.39
111	2008	157	1045	65.34	72.7	4.823	60.79	43.67	13.38
111	2008	157	1100	65.49	73.4	5.028	63.33	38.39	13.38
111	2008	157	1115	65.28	72	5.397	51.14	34.15	13.38
111	2008	157	1130	66	70.1	4.953	42.05	31.39	13.37
111	2008	157	1145	66.96	68.16	5.904	57.03	36.49	13.37
111	2008	157	1200	67.59	67.89	5.771	47.24	37.53	13.35
111	2008	157	1215	67.04	68.92	5.562	39.92	37.84	13.35
111	2008	157	1230	66.92	67.95	4.456	58.3	34.4	13.35
111	2008	157	1245	67.24	67.25	4.099	41.82	36.62	13.35
111	2008	157	1300	66.93	68.98	4.401	50.95	34.11	13.35
111	2008	157	1315	66.9	67.98	4.941	67.4	31.02	13.36
111	2008	157	1330	67.25	66.65	4.911	29.27	28.17	13.36
111	2008	157	1345	67.48	64.71	4.704	22.17	38.24	13.35
111	2008	157	1400	67.66	65.37	4.359	24.14	37.77	13.35
111	2008	157	1415	67.91	64.93	4.665	51.04	39.99	13.34
111	2008	157	1430	68.88	64.63	3.563	21.94	51.84	13.35
111	2008	157	1445	68.45	63.66	4.136	36.36	42.48	13.33
111	2008	157	1500	68.45	64.06	3.912	12.4	39.17	13.33
111	2008	157	1515	69.25	61.42	3.773	22.39	37.69	13.33

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	157	1530	69.75	63.49	3.651	71.8	47.29	13.32
111	2008	157	1545	69.49	60.28	4.867	44.13	42.37	13.32
111	2008	157	1600	71	58.68	4.567	31.23	43.25	13.17
111	2008	157	1615	71.2	58.24	4.075	22.08	45.53	13.17
111	2008	157	1630	72.3	57.1	4.432	37.7	33.24	13.29
111	2008	157	1645	72.3	56.34	4.436	18.85	39.13	13.29
111	2008	157	1700	72.4	58.24	5.534	60.04	30.26	13.16
111	2008	157	1715	71.2	59.18	4.571	52.55	29.48	13.14
111	2008	157	1730	71.7	57.84	4.128	29.35	31.16	13.29
111	2008	157	1745	71.8	58.14	3.93	48.34	33.62	13.31
111	2008	157	1800	71.7	57.94	4.464	62.63	36	13.12
111	2008	157	1815	71.2	59.04	3.98	61.65	30.71	13.09
111	2008	157	1830	71	59.08	3.666	76.7	34.42	12.96
111	2008	157	1845	70.4	60.85	4.325	70.7	26.8	12.89
111	2008	157	1900	70	69.01	3.452	101.3	54.79	12.84
111	2008	157	1915	67.85	70.5	5.008	149.9	22.86	12.81
111	2008	157	1930	66.87	73	5.044	155	22.12	12.79
111	2008	157	1945	66.23	74.8	4.81	157.3	20.07	12.78
111	2008	157	2000	65.5	77	4.873	154.8	23.7	12.77
111	2008	157	2015	65.18	78.6	4.609	152.4	21.82	12.76
111	2008	157	2030	64.66	79	3.499	141.4	22.1	12.75
111	2008	157	2045	64.42	79.4	3.718	148.4	18.26	12.74
111	2008	157	2100	63.96	80.4	3.144	137.6	21.12	12.73
111	2008	157	2115	63.58	80.7	3.005	137.6	19.12	12.73
111	2008	157	2130	63.18	82.9	2.182	184.7	36.17	12.72
111	2008	157	2145	62.58	84.1	0.896	161.7	18.39	12.71
111	2008	157	2200	62.71	83.6	2.186	141.8	26.52	12.71
111	2008	157	2215	62.73	83.8	2.953	130.1	20.09	12.71
111	2008	157	2230	62.35	84.8	2.627	133.4	18.91	12.69
111	2008	157	2245	61.99	85.5	2.296	124.2	20.2	12.69
111	2008	157	2300	62.02	82.4	3.718	106.2	30.97	12.69
111	2008	157	2315	62.08	81.6	3.866	87.8	19.06	12.69
111	2008	157	2330	61.91	81.5	3.888	107.9	24.07	12.68
111	2008	157	2345	61.7	81.5	3.239	121.4	21	12.67
111	2008	157	2400	61.42	81.9	2.54	123.1	33.73	12.67
111	2008	158	15	61.34	81.8	3.843	122.9	22.35	12.67
111	2008	158	30	61.25	83.1	4.575	146.9	29.27	12.67
111	2008	158	45	59.79	86.4	6.92	150.6	15.73	12.66
111	2008	158	100	58.85	88	7.47	139.8	21.8	12.65
111	2008	158	115	58.48	88.6	6.859	142.3	17.3	12.65
111	2008	158	130	58.28	88.4	6.104	138.5	26.99	12.64
111	2008	158	145	57.97	88.1	6.765	137.1	24.36	12.64
111	2008	158	200	57.67	88.1	7.22	137	17.82	12.63
111	2008	158	215	57.41	88.2	5.487	137.2	22.75	12.63
111	2008	158	230	57.44	88.3	4.446	136.8	23.82	12.63
111	2008	158	245	57.51	88.8	5.689	142.3	21.76	12.62
111	2008	158	300	57.79	88.8	5.475	143.2	19.56	12.61
111	2008	158	315	57.9	88.5	7.31	146.8	19.22	12.61
111	2008	158	330	57.73	88.5	7.77	135.7	20.46	12.6
111	2008	158	345	57.59	88.6	6.374	130.6	25.19	12.6
111	2008	158	400	57.45	89.1	4.663	138.6	27.7	12.59
111	2008	158	415	57.37	89.1	5.723	142.3	23.3	12.59
111	2008	158	430	57.4	88.9	5.274	137.9	24.22	12.58
111	2008	158	445	57.5	88.6	5.02	141	21.78	12.58
111	2008	158	500	57.77	88.2	5.858	153.5	19.72	12.57
111	2008	158	515	57.66	89	5.403	157.8	20.15	12.57
111	2008	158	530	57.49	89.7	4.696	167.2	22.64	12.56
111	2008	158	545	57.45	90	3.639	174.6	44	12.56
111	2008	158	600	57.51	90.3	4.242	160.9	23.1	12.55
111	2008	158	615	57.67	90.2	3.405	199.4	36.31	12.55

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	158	630	57.71	90	3.5	194.1	32.63	12.55
111	2008	158	645	57.79	89.9	3.702	192.9	38.21	12.54
111	2008	158	700	57.9	89.6	1.363	225.8	25.64	12.54
111	2008	158	715	58.15	89.6	2.965	189	33.34	12.53
111	2008	158	730	58.32	88.9	3.152	189	36.08	12.53
111	2008	158	745	58.36	88.9	2.945	194.9	28.71	12.53
111	2008	158	800	58.52	88.7	3.39	199.7	29.98	12.53
111	2008	158	815	58.67	88.5	2.845	196.8	30.18	12.53
111	2008	158	830	58.64	88.5	2.378	184.6	30.93	12.53
111	2008	158	845	58.72	88.5	2.794	96.5	93.7	12.53
111	2008	158	900	58.7	89.1	3.577	209.3	29.68	12.55
111	2008	158	915	58.84	89.6	4.458	217.2	33.75	12.7
111	2008	158	930	58.66	90.2	3.422	227.4	40.87	12.76
111	2008	158	945	58.45	90.8	2.283	219.5	44.19	12.64
111	2008	158	1000	58.31	91.2	3.755	247.3	33.55	12.67
111	2008	158	1015	58.29	91.5	4.325	241.8	29.32	12.73
111	2008	158	1030	58.54	91	3.992	254.2	31.08	12.87
111	2008	158	1045	59.36	88.9	3.741	251.5	43.25	13.17
111	2008	158	1100	59.29	89.1	3.229	232.5	38.01	13.09
111	2008	158	1115	59	90.1	3.237	224.5	33.68	13.04
111	2008	158	1130	59.06	89.8	3.499	205.1	36.78	13.1
111	2008	158	1145	59.48	89.7	3.666	236.7	38.88	13.31
111	2008	158	1200	59.64	89.2	4.557	231.6	37.68	13.43
111	2008	158	1215	59.88	89.4	4.015	252.1	30.05	13.43
111	2008	158	1230	60.25	86.8	4.661	233.7	34.79	13.38
111	2008	158	1245	60.96	85.7	3.77	243.2	32.97	13.43
111	2008	158	1300	61.52	84.5	3.229	212.2	39.83	13.41
111	2008	158	1315	61.55	84	3.884	209.6	34.84	13.39
111	2008	158	1330	61.53	83.5	4.601	195.8	30.45	13.38
111	2008	158	1345	61.82	83.5	3.21	216.7	43.48	13.33
111	2008	158	1400	61.9	84.2	5.221	190.9	29.06	13.36
111	2008	158	1415	61.88	84.1	5.16	206.2	36.43	13.35
111	2008	158	1430	61.84	82.8	5.246	225.3	43.67	13.35
111	2008	158	1445	62.26	83	5.147	233.4	38.25	13.35
111	2008	158	1500	62.2	82.3	4.996	227.9	37.36	13.35
111	2008	158	1515	61.75	85.3	4.764	203.7	31.19	13.34
111	2008	158	1530	61.03	84.5	4.686	214.3	39.43	13.36
111	2008	158	1545	61.45	85.5	4.432	187.4	35.7	13.36
111	2008	158	1600	61.08	85.3	3.878	215.7	38.89	13.36
111	2008	158	1615	61.27	86	4.204	215.2	40.84	13.38
111	2008	158	1630	61.13	86.3	4.279	212.9	34.12	13.38
111	2008	158	1645	61.15	85.3	4.48	230.6	42.41	13.37
111	2008	158	1700	61.43	85.1	4.2	200.7	34.91	13.38
111	2008	158	1715	61.85	84.2	2.983	221.4	42.79	13.38
111	2008	158	1730	62.3	82.8	4.432	195.6	41.1	13.32
111	2008	158	1745	62.01	83.4	3.982	187.5	30.38	13.39
111	2008	158	1800	62.03	83.4	4.111	201	36.09	13.12
111	2008	158	1815	61.44	85.4	3.325	211.3	40.34	12.94
111	2008	158	1830	60.73	86.9	3.219	202.7	31.47	12.83
111	2008	158	1845	60.6	87.1	3.183	180.4	28.71	12.82
111	2008	158	1900	60.49	87.8	2.474	198.7	31.27	12.78
111	2008	158	1915	60.11	88.7	3.394	185.7	29.53	12.76
111	2008	158	1930	59.93	88.8	3.571	186.8	27.82	12.75
111	2008	158	1945	59.8	89.2	2.574	205.4	37.34	12.74
111	2008	158	2000	59.61	89.7	3.261	197.5	30.5	12.69
111	2008	158	2015	59.48	89.9	3.223	193.5	30.08	12.72
111	2008	158	2030	59.31	90.5	3.859	190.7	32.58	12.72
111	2008	158	2045	59.16	91	3.434	202.4	30.01	12.71
111	2008	158	2100	59.07	91.3	3.328	220.4	33.23	12.71
111	2008	158	2115	59.05	91.6	3.811	215	29.81	12.71

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	158	2130	59.05	91.8	3.684	226.3	35.36	12.69
111	2008	158	2145	59	92	2.622	227.2	39.91	12.68
111	2008	158	2200	59.12	91.9	2.163	211.9	31.09	12.68
111	2008	158	2215	59.27	91.8	2.619	226.8	34.44	12.68
111	2008	158	2230	59.23	91.9	1.833	233.7	39.78	12.68
111	2008	158	2245	59.31	92	2.914	222.7	32.83	12.67
111	2008	158	2300	59.37	92.2	2.403	232	36.34	12.66
111	2008	158	2315	59.49	92.1	1.52	243.5	33.53	12.66
111	2008	158	2330	59.56	92.4	1.682	252.8	23.71	12.65
111	2008	158	2345	59.67	92.4	1.626	251.9	26.28	12.65
111	2008	158	2400	59.85	92.5	0.839	259	19.9	12.65
111	2008	159	15	60.02	92.5	0.832	249.1	21.02	12.64
111	2008	159	30	60.18	92.6	1.627	239.6	28.41	12.63
111	2008	159	45	60.29	92.6	1.33	227	29.24	12.63
111	2008	159	100	60.39	92.8	1.517	202.3	32.07	12.63
111	2008	159	115	60.4	92.9	1.995	222.3	23.75	12.61
111	2008	159	130	60.34	93.2	1.644	233.2	30.41	12.61
111	2008	159	145	60.24	93.5	2.038	216.1	38.56	12.6
111	2008	159	200	60.17	93.7	1.836	207.2	29.28	12.6
111	2008	159	215	60.01	94	2.097	208.2	22.15	12.59
111	2008	159	230	60.01	94.3	1.96	200.6	32.04	12.58
111	2008	159	245	60	94.5	2.169	204.8	29.81	12.57
111	2008	159	300	60.06	94.7	1.256	241.6	42.68	12.56
111	2008	159	315	60.11	94.8	1.101	222.1	39.66	12.56
111	2008	159	330	60.15	94.9	1.401	206.5	31.69	12.53
111	2008	159	345	60.18	95	1.694	217.9	32.66	12.53
111	2008	159	400	60.2	95.1	0.803	231.8	25.58	12.51
111	2008	159	415	60.23	95.1	1.946	220.9	34.21	11.89
111	2008	159	430	60.26	95.1	1.592	218.4	29.32	12.31
111	2008	159	445	60.31	95.1	1.555	242	26.57	11.86
111	2008	159	500	60.3	95.1	1.514	261.9	27.23	12.45
111	2008	159	515	60.29	95.1	1.373	264.2	26.05	12.44
111	2008	159	530	60.35	95.2	0.706	255.4	23.3	12.45
111	2008	159	545	60.38	95.2	1.56	261	23.2	12.44
111	2008	159	600	60.51	95.1	1.832	258.4	20.52	12.44
111	2008	159	615	60.73	95.2	1.496	285.9	14.87	12.45
111	2008	159	630	61.07	95.1	1.14	290.8	21.33	12.53
111	2008	159	645	61.41	94.8	1.666	267.7	34.85	12.79
111	2008	159	700	61.84	94.2	2.759	275.4	31.84	12.89
111	2008	159	715	62.38	93.3	3.249	291.6	17.31	13.07
111	2008	159	730	63.29	92.2	2.699	282.3	18.82	13.23
111	2008	159	745	64.22	90.6	2.532	280.6	29.12	13.25
111	2008	159	800	65.35	88.7	2.622	280.4	27.28	13.27
111	2008	159	815	66.51	87.3	4.138	283.1	21.47	13.25
111	2008	159	830	67.74	85.2	4.311	305	19.14	13.24
111	2008	159	845	69.09	83.2	5.217	296	20.71	13.24
111	2008	159	900	70.4	80.4	5.008	288.8	28.09	13.18
111	2008	159	915	71.7	78.4	3.696	275.4	22.42	13.18
111	2008	159	930	73	77	3.352	251.5	34.56	13.05
111	2008	159	945	73.5	76.6	3.672	226.3	33.37	13.05
111	2008	159	1000	73.6	76.4	3.825	270.8	24.25	13.18
111	2008	159	1015	74	72.9	4.686	274.1	22.61	13.18
111	2008	159	1030	74.6	73.7	3.739	258.2	36.75	13.16
111	2008	159	1045	74.7	72.8	4.365	255.8	30.8	13.15
111	2008	159	1100	74.8	73.4	4.818	262.4	28.54	13.13
111	2008	159	1115	75	72	4.748	257.4	30.97	13.08
111	2008	159	1130	75.5	72.8	4.853	250.7	32.87	13.14
111	2008	159	1145	75.5	71.9	5.918	265.4	25.43	13.14
111	2008	159	1200	75.5	71.9	5.308	252.6	31.6	13.14
111	2008	159	1215	76.2	71.7	5.008	254.2	33.79	13.13

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	159	1230	76.2	71.5	6.13	271.5	26.05	13.14
111	2008	159	1245	76	74.6	5.951	252.4	32.28	13.16
111	2008	159	1300	76.2	73.9	5.296	250.9	30.94	13.15
111	2008	159	1315	76.6	72.5	5.58	258.6	31.02	13.16
111	2008	159	1330	76.9	75	5.524	248.4	33.08	13.15
111	2008	159	1345	76.5	74.7	4.99	241.5	29.16	13.15
111	2008	159	1400	76.2	76	6.003	251.6	26.85	13.15
111	2008	159	1415	76.3	75.7	7.11	268.2	25.86	13.15
111	2008	159	1430	76.8	76.4	5.779	258.2	33.64	13.15
111	2008	159	1445	77.8	74.1	4.97	250.9	39.29	13.14
111	2008	159	1500	77.3	72.6	5.82	260.3	32.07	13.15
111	2008	159	1515	77.6	72.7	5.35	252	31.4	13.1
111	2008	159	1530	77.7	72.8	4.957	251.7	30.26	13.05
111	2008	159	1545	77.6	71.8	4.901	254.4	24.13	13.01
111	2008	159	1600	77.2	73	4.359	233	36.23	13
111	2008	159	1615	76.6	74.2	5.373	269.6	24.82	13
111	2008	159	1630	76.3	73.6	5.312	273	29.36	13.07
111	2008	159	1645	75.6	76.4	5.231	240.6	31.81	13.14
111	2008	159	1700	75.3	75.9	5.379	269.2	29.01	13.08
111	2008	159	1715	75	76.2	5.375	266.2	26.35	13.03
111	2008	159	1730	74.5	78.1	6.376	266.3	26.06	13.13
111	2008	159	1745	74.8	77.5	6.728	276.3	19.09	13.02
111	2008	159	1800	75.1	75.8	5.433	268.7	26.41	12.93
111	2008	159	1815	74.7	78	5.55	260.7	32.29	12.83
111	2008	159	1830	73.3	80.9	5.729	258.5	28.06	12.77
111	2008	159	1845	73	79.7	6.015	276.4	17.99	12.75
111	2008	159	1900	73.4	78.1	3.807	261.3	24.32	12.74
111	2008	159	1915	73.7	78.8	3.797	255.2	26.43	12.72
111	2008	159	1930	73.3	79.5	4.851	266.1	20.06	12.7
111	2008	159	1945	72.9	80.2	5.159	273.7	16.03	12.7
111	2008	159	2000	73	79.4	4.005	275.9	15.8	12.69
111	2008	159	2015	72.9	79.6	4.448	274.2	16.92	12.69
111	2008	159	2030	72.6	80.2	2.904	275.3	17.32	12.68
111	2008	159	2045	72.4	80.8	1.757	264.5	21.11	12.68
111	2008	159	2100	72.1	81	1.121	268.8	18.8	12.67
111	2008	159	2115	71.9	81.7	1.368	264.2	30.95	12.66
111	2008	159	2130	71.9	81.8	1.352	258.8	34.55	12.66
111	2008	159	2145	71.9	81.7	0.664	254.1	19.58	12.65
111	2008	159	2200	72.1	81.1	0.03	235.4	1.379	12.65
111	2008	159	2215	72.3	81	1.228	261.1	49.21	12.65
111	2008	159	2230	72.8	79.7	0.394	313.1	22.47	12.65
111	2008	159	2245	73.1	80	0.584	286.1	6.391	12.64
111	2008	159	2300	73.6	78	0.135	196.8	13.2	12.64
111	2008	159	2315	74.3	77.3	0.224	256.3	4.343	12.64
111	2008	159	2330	75.4	72.7	1.13	259.4	21.88	12.64
111	2008	159	2345	76.4	72.5	0.465	223.7	15.37	12.64
111	2008	159	2400	75.9	74.2	na	na	na	12.63
111	2008	160	15	75.5	76	0.322	211.9	3.332	12.63
111	2008	160	30	74.8	77	0.262	195.4	4.922	12.62
111	2008	160	45	74.1	79.8	na	na	na	12.63
111	2008	160	100	73.2	82.4	na	na	na	12.62
111	2008	160	115	72.4	83.9	na	na	na	12.61
111	2008	160	130	71.9	84.4	0.208	275.6	2.094	12.6
111	2008	160	145	71.5	85.4	na	na	na	12.6
111	2008	160	200	71.6	84.2	0.7	293.9	7.95	12.6
111	2008	160	215	72.9	74.5	1.857	292.2	9.3	12.59
111	2008	160	230	74.3	72.1	1.283	294.1	10.77	12.59
111	2008	160	245	74.3	72.8	0.707	269	11.4	12.59
111	2008	160	300	73.2	78.3	0.38	294.3	3.728	12.58
111	2008	160	315	72.2	79	na	na	na	12.57

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	160	330	71.8	80.3	0.009	327.4	0	12.57
111	2008	160	345	71.3	81.7	0.336	279.4	5.031	12.56
111	2008	160	400	70.9	83.1	na	na	na	12.55
111	2008	160	415	70.5	83.6	na	na	na	12.55
111	2008	160	430	70.2	85	1.633	287.3	10.62	12.54
111	2008	160	445	71.1	83.2	1.359	287.8	9.31	12.54
111	2008	160	500	71.1	84.5	1.253	300.4	13.49	12.53
111	2008	160	515	71.4	85.4	0.962	310.8	17.33	12.53
111	2008	160	530	72	84.5	2.432	306.7	10.95	12.53
111	2008	160	545	72.2	84.1	1.633	308.4	9.84	12.53
111	2008	160	600	72.5	83.8	0.287	321	10.14	12.67
111	2008	160	615	73.2	82	0.244	356.3	11.84	12.98
111	2008	160	630	74.1	79.6	0.383	322.5	9.69	13.26
111	2008	160	645	74.9	76.2	2.629	308.6	11.66	13.25
111	2008	160	700	76.7	73.5	2.932	312	16.45	13.24
111	2008	160	715	78	70.3	3.372	322.1	20.26	13.22
111	2008	160	730	79.1	68.3	4.232	322.6	22.47	13.21
111	2008	160	745	80	66.63	4.708	309	15.34	13.21
111	2008	160	800	80.6	64.94	5.207	309.2	18.35	13.19
111	2008	160	815	81.7	61.83	4.113	317.5	22.32	13.18
111	2008	160	830	82.6	59.22	4.673	308.8	20.17	13.18
111	2008	160	845	83.9	57.25	3.946	323.1	29.62	13.16
111	2008	160	900	84.1	55.51	5.088	309.8	23.21	13.16
111	2008	160	915	85.2	54.21	5.649	325.3	23.88	13.14
111	2008	160	930	85.7	52.9	5.991	314.4	22.48	13.14
111	2008	160	945	86	51.96	6.964	312.6	28.99	13.13
111	2008	160	1000	86.5	49.68	6.759	311.9	28.4	13.13
111	2008	160	1015	86.9	49.28	6.194	316.2	32.05	13.12
111	2008	160	1030	86.9	50.99	6.176	296.7	20	13.12
111	2008	160	1045	87.2	49.88	6.62	294.4	23.61	13.11
111	2008	160	1100	87.6	47.88	7.13	299.4	23.53	13.11
111	2008	160	1115	87.7	46.51	6.62	301.5	27.7	13.11
111	2008	160	1130	87.9	45.71	6.855	303.4	29.04	13.1
111	2008	160	1145	88.6	44.37	6.033	311.5	29.56	13.1
111	2008	160	1200	89.3	41.43	7.24	298.5	23.06	13.1
111	2008	160	1215	89.9	42.3	7.5	291.1	19.1	13.09
111	2008	160	1230	88.1	54.06	6.634	261.8	29.03	13.09
111	2008	160	1245	87.8	52.19	6.682	268	26.64	13.09
111	2008	160	1300	87.8	50.55	7.25	258.5	32.78	13.09
111	2008	160	1315	87.9	53.86	8.32	264.9	20.95	13.09
111	2008	160	1330	87.3	52.56	8.7	270.9	20.4	13.09
111	2008	160	1345	87.8	49.45	8.88	266.3	28.43	13.09
111	2008	160	1400	87.7	52.32	8.88	269.8	19.62	13.09
111	2008	160	1415	87.5	49.55	9.18	260.5	24.42	13.09
111	2008	160	1430	87.8	51.65	7.71	261	25.02	13.09
111	2008	160	1445	87.4	53.46	8.5	266.4	22.3	13.09
111	2008	160	1500	87.9	53.16	7.84	267.5	31.46	13.09
111	2008	160	1515	87.1	54.39	7.34	264.6	21.56	13.09
111	2008	160	1530	86.7	54.29	5.933	264	23.58	13.08
111	2008	160	1545	86.3	57	7.67	267.2	21.28	13.04
111	2008	160	1600	85.1	59.27	6.785	264.1	24.96	13.02
111	2008	160	1615	85.8	57.13	5.235	263.9	27.06	13.11
111	2008	160	1630	85.1	61.04	6.797	271	21	13.11
111	2008	160	1645	84.5	62.02	6.09	260.5	27.51	13.12
111	2008	160	1700	81.8	66.27	7.58	267.6	20.06	13.12
111	2008	160	1715	81.6	64.7	5.785	270.5	20.58	13.13
111	2008	160	1730	81.7	67.51	4.649	274.1	39.29	12.86
111	2008	160	1745	80.1	83.1	4.748	88.4	45.99	12.79
111	2008	160	1800	77.9	86.8	2.4	255	38.28	12.76
111	2008	160	1815	77.6	88.1	1.571	338.1	77.4	12.74

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	160	1830	77.1	86.5	4.218	154.8	24.29	12.72
111	2008	160	1845	75.8	87	2.332	95.7	30.94	12.7
111	2008	160	1900	75.7	87.9	2.384	47.33	25.06	12.7
111	2008	160	1915	75.8	86.9	1.612	85.2	40	12.69
111	2008	160	1930	76	85.8	3.372	16.21	46.01	12.69
111	2008	160	1945	74.2	88.6	4.16	91.3	52.34	12.67
111	2008	160	2000	73.7	90.5	2.682	269.2	19.23	12.67
111	2008	160	2015	74.1	90.6	4.861	281.6	15.8	12.66
111	2008	160	2030	73.2	87.6	6.511	272.8	18.66	12.66
111	2008	160	2045	72.9	87	4.355	272	27.33	12.65
111	2008	160	2100	73	88.6	2.853	267.7	25.15	12.65
111	2008	160	2115	73.2	89.4	1.69	314.4	37.17	12.64
111	2008	160	2130	72.9	90.5	0.809	263.2	13.91	12.64
111	2008	160	2145	72.9	90.8	2.717	293.5	38.66	12.64
111	2008	160	2200	72.5	86.8	3.602	267.4	25.13	12.63
111	2008	160	2215	71.1	85.9	4.637	268.1	20.55	12.63
111	2008	160	2230	69.75	87.1	3.112	263.8	25.07	12.62
111	2008	160	2245	69.5	86.7	4.142	292.6	21.45	12.62
111	2008	160	2300	69.65	88	5.07	308.9	24.02	12.61
111	2008	160	2315	69.93	87.3	4.081	281.5	13.91	12.61
111	2008	160	2330	69.83	87.6	2.159	273.7	16.15	12.61
111	2008	160	2345	69.7	87.8	2.804	279	15.53	12.6
111	2008	160	2400	69.91	86.4	3.831	284.6	11.32	12.6
111	2008	161	15	69.91	86.2	3.692	282.5	11.02	12.6
111	2008	161	30	70.1	86	3.541	288	11.75	12.59
111	2008	161	45	69.97	86.4	3.253	283.7	13.46	12.58
111	2008	161	100	69.75	87.1	2.306	275.3	16.83	12.58
111	2008	161	115	69.68	87.2	1.911	265.8	24.43	12.57
111	2008	161	130	69.74	87.5	1.486	273.8	13.91	12.57
111	2008	161	145	70.1	87.1	2.123	303.1	17.32	12.57
111	2008	161	200	70.4	86	3.531	283.7	15.2	12.57
111	2008	161	215	70.7	85.4	3.245	278.9	13	12.56
111	2008	161	230	70.6	85.9	1.975	275.1	22.49	12.56
111	2008	161	245	70.6	86.4	2.465	279.3	32.87	12.55
111	2008	161	300	70.4	86.8	3.269	324.7	17.96	12.55
111	2008	161	315	70.1	87.7	3.449	321	19.97	12.55
111	2008	161	330	70.3	86.5	4.17	309.1	15.51	12.55
111	2008	161	345	70.6	86.7	3.009	319.8	17.45	12.54
111	2008	161	400	70.7	87	2.387	313.2	17.26	12.54
111	2008	161	415	70.7	87.3	1.521	328.1	14.56	12.53
111	2008	161	430	70.7	87.6	0.056	333.5	2.861	12.53
111	2008	161	445	70.2	89	na	na	na	12.53
111	2008	161	500	69.82	89.9	na	na	na	12.52
111	2008	161	515	69.55	90.7	na	na	na	12.52
111	2008	161	530	69.9	90.6	1.258	303.3	10.66	12.52
111	2008	161	545	70.9	88.8	1.185	305.3	14.36	12.52
111	2008	161	600	71.7	86.3	1.31	344.3	7.79	12.52
111	2008	161	615	73.1	83.5	0.545	311.8	10.7	13.01
111	2008	161	630	74.1	81.2	1.353	319.7	13.97	13.04
111	2008	161	645	74.9	79.7	1.703	327.9	17.58	13.04
111	2008	161	700	76.2	74.9	2.083	314.5	20.62	13.25
111	2008	161	715	78.5	70.9	2.967	321.1	17.42	13.13
111	2008	161	730	79.7	68.27	3.471	325.5	22.22	13.22
111	2008	161	745	81	65.28	4.22	317.9	21.13	13.27
111	2008	161	800	81.7	63.64	5.479	324.4	21.81	13.26
111	2008	161	815	82.3	61.9	4.78	333.3	23.43	13.25
111	2008	161	830	82.9	59.93	5.775	329.1	19.53	13.24
111	2008	161	845	83.5	58.39	5.475	335.8	24.37	13.24
111	2008	161	900	84.5	57.89	3.837	326.6	35.41	13.22
111	2008	161	915	84.9	57.32	4.907	335.8	22.69	13.22

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	161	930	85.4	55.38	4.631	325.9	30.84	13.21
111	2008	161	945	86.1	54.7	5.395	316.9	25.82	13.2
111	2008	161	1000	86.9	54.03	4.296	337.9	34.7	13.19
111	2008	161	1015	87.9	48.95	4.698	321	29.5	13.18
111	2008	161	1030	88.3	46.74	5.806	314.3	29.27	13.18
111	2008	161	1045	88.7	46.91	6.95	321.1	23.41	13.17
111	2008	161	1100	88.9	47.64	6.194	310.3	21.72	13.17
111	2008	161	1115	89.3	46.41	5.628	317.1	21.81	13.16
111	2008	161	1130	90	45.44	6.803	308.3	29.74	13.15
111	2008	161	1145	90.4	45.37	6.118	321.7	30.92	13.14
111	2008	161	1200	90.6	46.21	7.86	324.2	24.16	13.14
111	2008	161	1215	90.8	43.5	7.1	331	28.6	13.14
111	2008	161	1230	91.4	41.86	7.04	330.2	29.9	13.14
111	2008	161	1245	91.6	44.94	7.64	309.7	24.06	13.14
111	2008	161	1300	91.7	44.17	7.74	321.1	28.5	13.13
111	2008	161	1315	92.3	41.03	7.53	314.9	28.55	13.13
111	2008	161	1330	93	41.53	6.616	323.3	32.34	13.13
111	2008	161	1345	93.7	39.16	7.75	311.5	30.04	13.13
111	2008	161	1400	94	38.96	7.75	311	24.62	13.11
111	2008	161	1415	94.3	47.08	7.05	297	35.38	13.12
111	2008	161	1430	91.6	48.58	5.689	282.8	28.73	13.11
111	2008	161	1445	90.4	51.72	5.731	258	33.24	13.11
111	2008	161	1500	90.4	50.82	6.696	261.3	26.19	13.02
111	2008	161	1515	89.4	52.79	6.964	254.2	29.88	13.04
111	2008	161	1530	87.1	54.16	7.89	261.9	22.56	13.03
111	2008	161	1545	86.9	56.9	6.321	259.5	27.06	13.03
111	2008	161	1600	86.4	54.46	7.28	276.2	23	13.07
111	2008	161	1615	86.6	54.29	6.321	269.4	24.47	13.04
111	2008	161	1630	86.2	56.27	6.69	270.7	22.94	13.03
111	2008	161	1645	85.4	57	7.11	263.8	22.76	12.97
111	2008	161	1700	83.1	61.88	7.51	268.2	21.08	12.95
111	2008	161	1715	82.6	61.85	7.25	265.9	26.36	12.92
111	2008	161	1730	83	60.82	7.96	279.4	20.73	12.9
111	2008	161	1745	82.7	62.5	8.19	274.7	20.97	12.88
111	2008	161	1800	82.6	60.79	7.9	271.6	20.28	12.86
111	2008	161	1815	82.9	61.2	6.892	286.1	19.99	12.84
111	2008	161	1830	82.5	61.43	7.44	282	16.71	12.82
111	2008	161	1845	81.9	62.67	8.37	279.1	17.66	12.8
111	2008	161	1900	81.5	63.17	6.914	277.6	20.09	12.79
111	2008	161	1915	80.9	64.1	6.676	282.4	20.89	12.78
111	2008	161	1930	80.6	64.57	5.914	277.6	20.49	12.78
111	2008	161	1945	80.4	65.47	7.37	278.7	17.71	12.77
111	2008	161	2000	79.3	68.08	5.499	277.3	20.41	12.76
111	2008	161	2015	78.1	69.66	4.893	271.4	20.96	12.76
111	2008	161	2030	77.1	71	3.815	267.8	21.73	12.75
111	2008	161	2045	76.4	72.2	2.955	271.6	20.78	12.74
111	2008	161	2100	75.9	73	2.991	270.9	13.9	12.74
111	2008	161	2115	75.6	73.4	2.661	274.5	15.26	12.73
111	2008	161	2130	75.1	74.8	2.022	267.4	16.68	12.73
111	2008	161	2145	74.9	75.4	1.888	268.4	16	12.72
111	2008	161	2200	74.5	76.8	0.009	268.6	0	12.71
111	2008	161	2215	74.2	77.7	na	na	na	12.7
111	2008	161	2230	73.9	78.7	1.27	269.8	15.55	12.7
111	2008	161	2245	73.7	79.2	0.971	266.9	12.63	12.69
111	2008	161	2300	73.4	79	2.224	277.3	14.35	12.69
111	2008	161	2315	73.4	79.1	2.096	276.2	13.71	12.68
111	2008	161	2330	73.1	79.2	0.975	273.8	14.31	12.67
111	2008	161	2345	73.1	79.3	0.339	264.3	5.106	12.67
111	2008	161	2400	73	79.8	na	na	na	12.67
111	2008	162	15	72.6	81	na	na	na	12.66

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	162	30	72.3	80.7	na	na	na	12.65
111	2008	162	45	72.9	78.7	1.131	287.7	10.97	12.65
111	2008	162	100	73.8	78.3	0.836	302.3	17.77	12.65
111	2008	162	115	73.8	77.7	1.342	287.5	9.31	12.64
111	2008	162	130	74.4	78.4	0.491	290.2	8.35	12.64
111	2008	162	145	74.1	79.5	0.051	312.4	5.373	12.63
111	2008	162	200	73.9	80.7	0.033	255	0.798	12.63
111	2008	162	215	74.4	79.7	0.842	269.7	10.54	12.62
111	2008	162	230	74.8	79.7	1.113	270.1	10.76	12.62
111	2008	162	245	74.4	81.1	2.093	276.4	13.66	12.62
111	2008	162	300	73.9	82.1	0.913	281.2	12.06	12.61
111	2008	162	315	73.3	83.7	0.009	262.9	0	12.62
111	2008	162	330	72.5	85.2	na	na	na	12.61
111	2008	162	345	72	86.8	na	na	na	12.6
111	2008	162	400	71.5	87.7	na	na	na	12.6
111	2008	162	415	71.2	88.4	na	na	na	12.6
111	2008	162	430	70.7	89.2	na	na	na	12.6
111	2008	162	445	70.5	89.6	na	na	na	12.58
111	2008	162	500	70.3	90.2	na	na	na	12.59
111	2008	162	515	70.2	90.6	na	na	na	12.58
111	2008	162	530	70.5	90.3	na	na	na	12.58
111	2008	162	545	70.9	90	0.009	283.6	0.004	12.58
111	2008	162	600	71.7	88.8	na	na	na	12.65
111	2008	162	615	72.8	86.4	0.073	307.6	3.854	13
111	2008	162	630	74.4	82.3	0.058	297.9	8.53	13.33
111	2008	162	645	76.2	77.9	0.188	265.9	4.502	13.32
111	2008	162	700	77.8	74	0.3	274.8	3.852	13.3
111	2008	162	715	79.3	72.3	0.152	275.8	6.092	13.29
111	2008	162	730	80.1	71.2	0.872	271.5	20.55	13.28
111	2008	162	745	82	65.18	0.85	293.8	17.72	13.26
111	2008	162	800	82.8	65.08	2.536	297.3	18.09	13.24
111	2008	162	815	84	60.6	2.382	305	20.25	13.24
111	2008	162	830	85.1	57.95	2.656	293.8	23.63	13.22
111	2008	162	845	86.6	55.21	2.182	284.8	32.25	13.2
111	2008	162	900	87.8	51.96	1.728	282.8	21.5	13.2
111	2008	162	915	88.6	49.45	2.02	306.8	27.09	13.18
111	2008	162	930	89.2	53.99	1.849	308.3	48.61	13.17
111	2008	162	945	88.9	61.68	3.305	171.4	27.21	13.17
111	2008	162	1000	86.9	60.51	3.775	167.7	24.01	13.16
111	2008	162	1015	87.3	59.37	3.303	189	27.29	13.16
111	2008	162	1030	87.5	59.27	3.682	210.3	33.98	13.16
111	2008	162	1045	87.6	57.8	3.312	223.1	32.52	13.15
111	2008	162	1100	87.4	57.23	4.025	206.2	28.66	13.15
111	2008	162	1115	87.3	55.86	4.073	196.4	26.63	13.15
111	2008	162	1130	87.4	55.6	4.41	211	27.73	13.15
111	2008	162	1145	87.6	55.46	4.262	212.6	31.05	13.15
111	2008	162	1200	88.4	52.09	4.264	244	35.04	13.14
111	2008	162	1215	88.5	50.48	4.087	252	32.48	13.14
111	2008	162	1230	88.4	49.48	4.945	256.8	30.07	13.14
111	2008	162	1245	88.3	49.35	5.528	251.1	36.37	13.14
111	2008	162	1300	87.9	49.25	5.153	248.8	33.64	13.14
111	2008	162	1315	88.4	49.62	5.01	258.2	33.33	13.13
111	2008	162	1330	88.5	50.92	4.696	256.7	32.39	13.13
111	2008	162	1345	88.1	51.29	6.253	265.8	29.16	13.14
111	2008	162	1400	87.4	53.69	5.407	250	30.41	13.14
111	2008	162	1415	87.4	51.09	6.015	254.7	37.09	13.14
111	2008	162	1430	87.3	51.72	6.051	246.3	37.51	13.14
111	2008	162	1445	87.4	51.62	5.564	252.8	37.35	13.15
111	2008	162	1500	87.3	49.92	5.61	253	30.57	13.15
111	2008	162	1515	88	47.48	4.524	246.6	34.73	13.13

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	162	1530	87.9	50.12	5.554	244.5	38.96	13.12
111	2008	162	1545	87.4	53.02	4.974	250.7	30.13	13.09
111	2008	162	1600	86.9	55.06	5.199	259.1	25.58	13.08
111	2008	162	1615	85.5	58.37	6.001	254.9	29.45	13.06
111	2008	162	1630	83.6	59.87	5.489	251.3	30.96	13.04
111	2008	162	1645	83.8	58.3	4.784	245.5	34.97	13
111	2008	162	1700	84.6	55.66	5.096	252.5	34.78	12.97
111	2008	162	1715	82.6	57.2	7.09	258.8	24.84	12.95
111	2008	162	1730	82.1	56.81	7.75	268.9	21.32	12.93
111	2008	162	1745	82	57.25	7.59	266.1	25.69	12.9
111	2008	162	1800	81.9	59.09	6.827	261.8	29.18	12.88
111	2008	162	1815	81.2	59.52	6.545	252.5	30.66	12.86
111	2008	162	1830	80.8	58.99	6.747	265.1	32.38	12.84
111	2008	162	1845	80.9	59.93	5.892	259.1	29	12.81
111	2008	162	1900	80.5	61.4	5.352	246.1	41.46	12.79
111	2008	162	1915	79.7	62.4	6.06	257.8	26.85	12.78
111	2008	162	1930	79	63.14	4.605	255	36.02	12.78
111	2008	162	1945	78.3	65.08	6.023	264.9	30.1	12.76
111	2008	162	2000	77.3	66.02	6.585	262.2	28.6	12.76
111	2008	162	2015	77	66.86	7.61	266.7	24.22	12.75
111	2008	162	2030	76.6	67.67	7.06	267.8	27.22	12.75
111	2008	162	2045	76.4	68.27	7.11	278.2	20.97	12.74
111	2008	162	2100	76.3	68.14	7.56	274.6	21.42	12.74
111	2008	162	2115	76	69.88	6.787	271.9	25.53	12.73
111	2008	162	2130	75.4	71.9	6.712	269.2	20.58	12.73
111	2008	162	2145	74.8	72.9	6.749	273.9	21.2	12.72
111	2008	162	2200	74.8	72.3	6.589	283.3	21.55	12.7
111	2008	162	2215	76.7	60.21	8.89	317.8	26.65	12.71
111	2008	162	2230	77.7	57.74	8.31	316.1	21.77	12.71
111	2008	162	2245	77.2	58.31	5.759	321.7	25.01	12.7
111	2008	162	2300	77	61.52	4.027	339	28.5	12.7
111	2008	162	2315	76.7	64.73	4.81	348.6	22.77	12.7
111	2008	162	2330	76.2	66.06	2.029	0.976	29.83	12.68
111	2008	162	2345	75.7	68.1	2.651	346.5	18.49	12.69
111	2008	162	2400	75.2	68.77	2.495	358.1	24.32	12.68
111	2008	163	15	75	70.2	1.383	320.4	19.04	12.67
111	2008	163	30	74.4	71.8	0.811	332.5	13.56	12.67
111	2008	163	45	74.1	72.4	1.706	294.9	25.21	12.66
111	2008	163	100	74	72.9	1.262	315	18.68	12.65
111	2008	163	115	73.9	73.5	0.406	353.8	11.17	12.65
111	2008	163	130	73.7	74.7	1.894	315.9	26.72	12.65
111	2008	163	145	73.3	75.4	0.168	340.1	13.77	12.65
111	2008	163	200	72.8	77.1	0.277	305.8	14.62	12.64
111	2008	163	215	72.7	76.6	0.369	335.6	30.27	12.63
111	2008	163	230	72.5	78.4	0.609	280.9	7.37	12.63
111	2008	163	245	72.2	78.1	0.058	356.6	12.79	12.63
111	2008	163	300	72.5	77.7	0.62	314.9	10.13	12.62
111	2008	163	315	72.6	76.6	1.104	312.8	11.96	12.62
111	2008	163	330	72.6	76.3	0.699	327.9	17.68	12.61
111	2008	163	345	72.5	76	0.963	340.5	16.7	12.61
111	2008	163	400	72.3	75.7	1.805	333.1	21.29	12.61
111	2008	163	415	72	76.2	1.566	330.7	20.17	12.6
111	2008	163	430	71.7	76.6	2.176	338.4	20.81	12.6
111	2008	163	445	71.4	76.6	2.044	349.9	20	12.59
111	2008	163	500	71.4	76.7	2.633	349.2	25.49	12.59
111	2008	163	515	71.4	75.4	3.155	1.477	24.9	12.59
111	2008	163	530	71.6	73.9	2.438	17.37	30.54	12.58
111	2008	163	545	71.9	69.5	4.442	26.03	31.18	12.59
111	2008	163	600	72.1	69.29	4.357	36.22	36.73	12.59
111	2008	163	615	72	69.8	4.602	26.18	31.03	12.59

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	163	630	71.9	69.6	4.012	24.62	37.24	12.61
111	2008	163	645	71.9	68.26	4.716	28.23	33.65	12.96
111	2008	163	700	72.7	64.34	4.42	33.79	30.82	13.33
111	2008	163	715	73.5	61.02	5.449	42.42	37.95	13.32
111	2008	163	730	73	58.51	6.078	37.14	38.17	13.31
111	2008	163	745	73.1	55.13	6.662	34.12	29.99	13.32
111	2008	163	800	73.3	55.17	5.733	29.63	41.82	13.32
111	2008	163	815	73.5	53.19	6.45	32.03	35.12	13.31
111	2008	163	830	74.1	52.72	5.999	39.48	33.13	13.31
111	2008	163	845	74.8	53.33	5.83	19.58	31.42	13.3
111	2008	163	900	75	54.4	6.136	9.99	31.26	13.29
111	2008	163	915	75	53.93	6.156	15.13	36.94	13.28
111	2008	163	930	76.2	51.99	5.193	21.73	33.12	13.28
111	2008	163	945	76.4	50.65	5.884	3.579	33.84	13.27
111	2008	163	1000	76.9	47.63	6.269	7.67	34.42	13.26
111	2008	163	1015	76.7	45.99	7.06	354	28.93	13.26
111	2008	163	1030	77.2	44.72	6.515	8.13	35.73	13.26
111	2008	163	1045	78	44.95	6.265	20.06	30.27	13.26
111	2008	163	1100	78	42.75	5.908	356.6	40.84	13.26
111	2008	163	1115	78.6	43.32	6.059	4.026	37.65	13.25
111	2008	163	1130	78.6	40.94	7.17	344.7	26.93	13.24
111	2008	163	1145	79	40.91	5.862	347.4	32.63	13.24
111	2008	163	1200	79.7	41.34	5.55	20.95	36.52	13.24
111	2008	163	1215	80.6	38.4	5.266	9.61	47.6	13.23
111	2008	163	1230	80.7	39.67	4.82	5.728	45.7	13.22
111	2008	163	1245	81.1	41.14	5.231	350.9	49.21	13.22
111	2008	163	1300	81.2	39	5.048	345.5	32.21	13.22
111	2008	163	1315	80.9	37.57	6.863	326.4	26.53	13.22
111	2008	163	1330	81.6	35.8	7.75	339.3	28.85	13.21
111	2008	163	1345	81.7	37.03	6.744	348.5	36.45	13.21
111	2008	163	1400	81.8	33.39	5.969	359.3	35.99	13.21
111	2008	163	1415	82.2	35.7	5.578	340.1	34.88	13.21
111	2008	163	1430	82.7	34.46	6.503	321.3	36.46	13.21
111	2008	163	1445	82.8	33.99	6.517	327.1	35.37	13.2
111	2008	163	1500	83	34.63	6.587	327.5	33.2	13.07
111	2008	163	1515	83.3	35.16	5.892	356.7	27.94	13
111	2008	163	1530	83.8	35.23	4.895	349.6	33.7	12.96
111	2008	163	1545	83.3	34.49	5.655	345.6	23.01	12.98
111	2008	163	1600	83.8	36.23	4.887	353.3	32.24	12.94
111	2008	163	1615	83.5	36.4	3.836	322.2	41.78	12.98
111	2008	163	1630	84	35.26	4.962	311.3	43.02	12.98
111	2008	163	1645	82.7	40.64	5.856	299	24.09	12.93
111	2008	163	1700	81.9	35.53	3.732	276.7	46.78	12.94
111	2008	163	1715	84.3	33.09	5.534	339.8	27.41	12.97
111	2008	163	1730	84.3	34.59	5.415	340.2	34.78	12.89
111	2008	163	1745	84	33.59	6.327	324.8	24.14	12.87
111	2008	163	1800	84.5	32.82	5.401	337.2	29.65	12.85
111	2008	163	1815	83.8	33.12	5.542	339.2	22.38	12.84
111	2008	163	1830	83.8	33.86	5.628	341.2	22.76	12.83
111	2008	163	1845	83.8	34.79	4.367	331.6	23.61	12.82
111	2008	163	1900	83.5	35.26	4.869	330.6	24.89	12.81
111	2008	163	1915	83.3	36.1	3.737	335.7	23.76	12.8
111	2008	163	1930	83	36.53	3.465	329.3	21.66	12.8
111	2008	163	1945	82.3	37.17	3.537	318.5	21.05	12.8
111	2008	163	2000	81.3	39.87	2.556	320.6	19.61	12.79
111	2008	163	2015	80.4	41.68	2.177	316	16.41	12.78
111	2008	163	2030	79.7	43.06	2.026	317.5	11.39	12.77
111	2008	163	2045	78.6	48.27	0.645	313.3	6.485	12.76
111	2008	163	2100	76.3	53.96	0.141	318.6	3.291	12.76
111	2008	163	2115	76.2	46.81	1.919	311.9	11.99	12.74

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	163	2130	77.1	48.34	2.25	309.4	10.89	12.73
111	2008	163	2145	76.8	46.61	2.155	313.9	13.65	12.73
111	2008	163	2200	76.4	48.55	1.972	308	16.01	12.72
111	2008	163	2215	75.1	52.29	1.819	277.2	10.11	12.71
111	2008	163	2230	73.3	56.51	0.219	276.8	2.597	12.71
111	2008	163	2245	72.5	57.52	1.05	301.9	10.68	12.69
111	2008	163	2300	73.1	55.22	1.875	306.4	8.39	12.69
111	2008	163	2315	73.1	54.58	1.964	308.2	7.58	12.67
111	2008	163	2330	72.2	58.03	1.267	301.6	12.01	12.66
111	2008	163	2345	70.9	62.37	0.529	286.7	5.519	12.66
111	2008	163	2400	70.3	63.65	0.07	284.9	0.743	12.65
111	2008	164	15	69.64	65.25	0.107	294.3	2.118	12.65
111	2008	164	30	69.11	67.73	0.16	312.5	2.671	12.63
111	2008	164	45	68.61	63.95	0.064	332.7	0.725	12.63
111	2008	164	100	68.92	63.11	0.227	325.2	6.64	12.62
111	2008	164	115	68.93	66.72	0.073	320.4	2.284	12.62
111	2008	164	130	68.09	64.25	0.407	306.3	6.256	12.61
111	2008	164	145	68.74	61.98	0.405	314.9	7.33	12.6
111	2008	164	200	68.92	61.21	1.202	319.9	13.6	12.6
111	2008	164	215	69.28	59.97	1.762	319.7	11.32	12.59
111	2008	164	230	69.1	62.38	0.854	319.5	11.34	12.59
111	2008	164	245	68.56	65.82	0.303	339.6	9.81	12.58
111	2008	164	300	68.1	66.72	0.106	321.4	2.094	12.58
111	2008	164	315	67.97	61.68	2.081	20.16	30.32	12.57
111	2008	164	330	69.46	59.03	3.352	26.45	27.91	12.57
111	2008	164	345	69.67	59.97	3.052	29.88	38.78	12.57
111	2008	164	400	69.47	61.67	2.696	29.12	29.89	12.57
111	2008	164	415	68.96	63.25	1.335	28.3	25.53	12.56
111	2008	164	430	68.18	65.45	0.246	32.46	12.61	12.56
111	2008	164	445	67.66	67.6	0.299	15.21	13.86	12.55
111	2008	164	500	66.92	70.2	0.223	358.9	10.21	12.55
111	2008	164	515	66.35	71.8	0.009	356.9	0	12.55
111	2008	164	530	66.06	72.9	0.134	29.2	7.46	12.55
111	2008	164	545	66.4	69.55	0.992	9.28	17.89	12.55
111	2008	164	600	67.75	65.71	1.384	12.62	26.43	13.05
111	2008	164	615	68.99	61.89	2.178	31.03	30.42	13.41
111	2008	164	630	69.88	61.01	2.428	15.23	27.83	13.4
111	2008	164	645	70.5	59.33	3.104	21.56	26.15	13.38
111	2008	164	700	71.3	57.32	3.864	20.96	28.79	13.37
111	2008	164	715	72	52.74	3.958	23.63	39.66	13.36
111	2008	164	730	72.9	49.89	4.869	35.72	29.17	13.34
111	2008	164	745	73.1	48.55	5.24	34.55	35.57	13.35
111	2008	164	800	73.5	48.18	5.59	44.51	34.98	13.32
111	2008	164	815	73.7	46.24	5.268	29.17	35.02	13.32
111	2008	164	830	73.8	46	5.665	25.89	35.32	13.32
111	2008	164	845	74.3	45.3	5.941	23.85	32.66	13.31
111	2008	164	900	74.5	44.1	6.279	23.74	33.99	13.3
111	2008	164	915	75.6	42.33	4.319	17.57	42.65	13.3
111	2008	164	930	75.3	43.76	5.892	358.9	34.77	13.29
111	2008	164	945	76.1	40.69	5.564	19.71	40.47	13.29
111	2008	164	1000	76.2	41.15	5.794	14.81	31.61	13.27
111	2008	164	1015	76.9	37.91	5.501	36.28	33.22	13.27
111	2008	164	1030	77.5	36.84	6.211	33.41	34.35	13.27
111	2008	164	1045	77.9	36.83	5.59	13.37	44.79	13.26
111	2008	164	1100	78.8	33.96	4.798	8.72	38.46	13.26
111	2008	164	1115	78.1	36.8	6.456	13.6	33.74	13.25
111	2008	164	1130	79	32.25	5.584	28.23	39.17	13.25
111	2008	164	1145	78.6	30.98	6.69	13.84	35.59	13.24
111	2008	164	1200	79	31.78	5.788	30.27	37.8	13.24
111	2008	164	1215	79.3	33.92	5.719	49.5	33.07	13.24

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	164	1230	79.9	32.89	5.205	47.77	39.86	13.24
111	2008	164	1245	79.6	32.39	6.017	26.96	43.34	13.23
111	2008	164	1300	80.2	34.02	5.052	8.15	39.69	13.22
111	2008	164	1315	80.5	33.76	5.644	9.61	43.2	13.22
111	2008	164	1330	80.2	33.19	5.912	349.6	36	13.22
111	2008	164	1345	81.2	32.75	5.3	28.81	36.18	13.21
111	2008	164	1400	80.9	31.48	5.987	40.23	37.96	13.21
111	2008	164	1415	81.2	31.75	5.9	19.17	40.64	13.21
111	2008	164	1430	81.4	30.48	6.382	42.5	41.01	13.21
111	2008	164	1445	81.1	31.85	5.882	15.19	34.31	13.21
111	2008	164	1500	81.8	30.21	5.669	12.85	38.15	13.14
111	2008	164	1515	82	30.55	5.054	11.43	47.28	13.04
111	2008	164	1530	82.4	26.37	6.144	28.78	43.14	12.98
111	2008	164	1545	82.9	28.04	5.719	30.62	40.87	12.97
111	2008	164	1600	82.6	28.41	5.854	26.88	47.12	12.96
111	2008	164	1615	82.3	28.71	5.989	27.34	42.62	12.95
111	2008	164	1630	82.7	28.44	5.558	35.33	33.58	12.94
111	2008	164	1645	82.4	27.77	5.86	34.79	33.85	12.92
111	2008	164	1700	82.2	27.87	5.147	27.23	39.82	12.9
111	2008	164	1715	81.9	26.87	5.918	6.441	28.62	12.9
111	2008	164	1730	82.2	27.87	4.893	32.23	39.04	12.88
111	2008	164	1745	81.3	26.04	5.473	63.7	33.72	12.87
111	2008	164	1800	81.4	25.3	5.117	30.21	39.62	12.86
111	2008	164	1815	81.2	25.4	4.887	55.82	36.55	12.84
111	2008	164	1830	81	26.64	4.714	48.58	35.83	12.83
111	2008	164	1845	80.7	23.3	4.974	43.02	42.31	12.82
111	2008	164	1900	80.1	23.53	4.724	57.5	32.54	12.8
111	2008	164	1915	79.3	25.03	4.343	63.07	29.06	12.8
111	2008	164	1930	78.9	25.97	3.265	38.56	39.08	12.78
111	2008	164	1945	78.1	27.38	2.957	57.58	29.49	12.78
111	2008	164	2000	77.2	28.58	2.832	33.89	30.12	12.78
111	2008	164	2015	76.2	28.59	2.793	39.14	27.92	12.76
111	2008	164	2030	75.4	30.32	1.919	44.07	34.99	12.76
111	2008	164	2045	74.4	31.46	2.55	48.74	30.62	12.75
111	2008	164	2100	73.5	31.43	2.313	41.4	32.64	12.74
111	2008	164	2115	72.6	31.77	3.027	63.31	26.29	12.73
111	2008	164	2130	72	31.77	3.223	74.7	14.68	12.72
111	2008	164	2145	71.5	31.2	2.3	64.81	30.83	12.71
111	2008	164	2200	71.3	31.47	1.267	69.32	21.34	12.7
111	2008	164	2215	69.66	38.33	1.98	286	7.04	12.69
111	2008	164	2230	67.97	44.25	0.44	305.6	7.62	12.68
111	2008	164	2245	66.7	45.52	0.252	279.8	5.882	12.67
111	2008	164	2300	65.14	48.7	1.016	269.9	9.48	12.66
111	2008	164	2315	64.13	51.25	0.033	265.9	0.25	12.65
111	2008	164	2330	64.03	51.19	0	0	0	12.64
111	2008	164	2345	63.39	53.06	1.844	281.5	4.735	12.63
111	2008	164	2400	63.11	53.76	0.957	285.2	12.66	12.63
111	2008	165	15	62.48	55.47	0.135	271.7	2.966	12.62
111	2008	165	30	61.99	57.48	0.059	336.5	1.993	12.61
111	2008	165	45	61.5	58.51	0.646	268.5	11.7	12.6
111	2008	165	100	61.23	59.22	0.284	336.8	7.49	12.59
111	2008	165	115	61.17	61.63	0.159	289.6	16.4	12.58
111	2008	165	130	60.75	61.13	na	na	na	12.58
111	2008	165	145	60.23	61.67	na	na	na	12.58
111	2008	165	200	59.74	62.17	na	na	na	12.56
111	2008	165	215	59.79	61.74	0.123	348.3	2.897	12.55
111	2008	165	230	59.81	65.19	0.197	274.1	12.45	12.55
111	2008	165	245	59.18	65.76	na	na	na	12.54
111	2008	165	300	58.69	69.21	na	na	na	12.53
111	2008	165	315	57.81	70.5	0.222	297.8	4.236	12.52

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	165	330	57.65	70.8	na	na	na	12.52
111	2008	165	345	57.47	71.1	na	na	na	12.52
111	2008	165	400	57.07	72.7	0.018	348.4	0.014	12.51
111	2008	165	415	57.04	73.3	na	na	na	12.5
111	2008	165	430	56.5	74.3	na	na	na	12.5
111	2008	165	445	56.82	72.6	0.08	21.34	2.802	12.5
111	2008	165	500	56.81	71.3	0.079	348.2	5.894	12.5
111	2008	165	515	57	73	0.073	334.7	8.2	12.49
111	2008	165	530	57.46	67.84	0.436	357.8	7.05	12.5
111	2008	165	545	58.58	64.63	0.079	34.08	13.92	12.62
111	2008	165	600	60.27	64.26	0.181	22.45	16.25	13.56
111	2008	165	615	61.87	66.33	1.063	23.9	24.1	13.53
111	2008	165	630	63.56	66.32	2.741	32.91	25.08	13.51
111	2008	165	645	65.09	59.22	2.452	64.05	39.37	13.49
111	2008	165	700	65.94	55	3.868	69.75	33.24	13.47
111	2008	165	715	66.9	51.02	3.489	71.3	28.47	13.44
111	2008	165	730	68.01	46.56	3.243	74.7	27.79	13.43
111	2008	165	745	68.76	40.17	4.629	74.4	24.3	13.41
111	2008	165	800	69.38	39.36	4.964	76	23.41	13.41
111	2008	165	815	70.1	38.43	4.806	79.5	28.4	13.39
111	2008	165	830	71.4	33.84	4.212	106.2	25.45	13.37
111	2008	165	845	71.8	34.98	4.891	78	34.21	13.36
111	2008	165	900	73.1	31.56	3.751	115.1	30.93	13.34
111	2008	165	915	73.6	29.46	4.305	106.8	29.97	13.33
111	2008	165	930	73.6	30.42	3.779	165.1	37.55	13.32
111	2008	165	945	73.7	31.76	3.817	172.7	43.55	13.3
111	2008	165	1000	73.2	37.58	4.407	180.2	35.04	13.3
111	2008	165	1015	73.3	37.68	4.794	179.5	31.88	13.3
111	2008	165	1030	73.2	36.04	4.907	186.4	37.31	13.29
111	2008	165	1045	73	39.28	5.229	179	33.77	13.3
111	2008	165	1100	73.4	37.18	4.949	180.5	31.05	13.29
111	2008	165	1115	73.5	34.17	5.538	175.1	33.8	13.28
111	2008	165	1130	74.1	31.73	5.336	177.7	31.92	13.27
111	2008	165	1145	74.2	32.46	5.094	178.6	32.84	13.27
111	2008	165	1200	73.5	31.76	5.975	181	29.4	13.27
111	2008	165	1215	73.5	38.18	6.059	175.1	32.78	13.28
111	2008	165	1230	73.2	41.09	5.888	188.6	34.44	13.27
111	2008	165	1245	73.2	36.51	5.993	177.3	33.36	13.27
111	2008	165	1300	73.7	39.45	4.955	194.9	32.44	13.27
111	2008	165	1315	73.4	32.8	5.9	181.2	31.48	13.27
111	2008	165	1330	73.4	34.7	6.336	173	25.94	13.26
111	2008	165	1345	73.5	37.98	6.156	176.3	25.96	13.26
111	2008	165	1400	74	34.56	5.683	195.5	39.15	13.26
111	2008	165	1415	73.5	37.77	5.29	194	36.89	13.26
111	2008	165	1430	73.9	40.55	5.699	175.1	29.91	13.26
111	2008	165	1445	74.3	40.35	4.21	215.6	49.33	13.26
111	2008	165	1500	73.1	37.37	5.572	199.5	31.96	13.26
111	2008	165	1515	73.6	44.7	5.231	191.7	36.19	13.26
111	2008	165	1530	72.4	49.75	5.26	193.1	36.62	13.18
111	2008	165	1545	72.4	49.85	5.544	209.6	38.07	13.05
111	2008	165	1600	72.4	49.45	5.346	199.9	37.19	13.02
111	2008	165	1615	72.5	52.96	5.526	204.8	37.18	12.96
111	2008	165	1630	72.8	49.21	4.438	232.1	36.26	12.94
111	2008	165	1645	72.5	51.52	5.695	237	36.62	12.93
111	2008	165	1700	72.8	49.62	4.546	233.6	37.96	12.91
111	2008	165	1715	73	51.35	4.434	239.2	45.25	12.89
111	2008	165	1730	72.6	53.43	4.262	221	36.56	12.88
111	2008	165	1745	72	52.96	4.909	241.3	30.99	12.86
111	2008	165	1800	72.5	56.3	3.231	220.3	46.06	12.85
111	2008	165	1815	72	59.34	3.982	241	38.59	12.83

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	165	1830	72	62.19	4.148	241	44.36	12.82
111	2008	165	1845	71.1	61.82	4.268	214.6	37.55	12.8
111	2008	165	1900	71	59.14	3.722	227.3	39.09	12.79
111	2008	165	1915	70.7	62.59	3.706	224.2	35.41	12.78
111	2008	165	1930	70.2	68.61	3.594	214	34.86	12.78
111	2008	165	1945	69.45	68.31	3.164	239.9	34.07	12.76
111	2008	165	2000	68.81	71.3	2.663	233.4	29.49	12.76
111	2008	165	2015	68.2	74.1	2.07	214.7	40.14	12.75
111	2008	165	2030	67.89	76.4	2.087	221.8	30.84	12.74
111	2008	165	2045	67.64	77.8	2.054	222.8	27.89	12.73
111	2008	165	2100	67.61	79.5	2.309	220.8	26.66	12.72
111	2008	165	2115	67.41	81.9	2.195	231.3	36.85	12.71
111	2008	165	2130	67.48	82.5	1.914	196.1	28.32	12.71
111	2008	165	2145	67.55	83.1	2.236	204.9	32.02	12.7
111	2008	165	2200	67.42	84.3	1.961	229.2	40.13	12.69
111	2008	165	2215	67.35	84.6	2.238	232.2	32.96	12.68
111	2008	165	2230	67.37	84.9	2.367	247.7	34.92	12.68
111	2008	165	2245	67.41	85.1	2.518	243.2	33.05	12.67
111	2008	165	2300	67.41	85.6	2.846	245.4	31.33	12.67
111	2008	165	2315	67.24	86.6	2.204	252.7	26.7	12.66
111	2008	165	2330	67.22	87.3	2.317	242.4	36.4	12.65
111	2008	165	2345	67.34	87.2	3.384	269.4	19.94	12.65
111	2008	165	2400	67.21	87.5	1.137	241	27.42	12.65
111	2008	166	15	67.17	87.8	1.067	230.2	32.03	12.64
111	2008	166	30	67.35	87.2	2.002	262	19.59	12.63
111	2008	166	45	67.34	87.7	1.167	186	20.94	12.63
111	2008	166	100	67.06	87.9	0.963	227.2	23.97	12.63
111	2008	166	115	66.9	88.2	1.045	253.9	29.62	12.61
111	2008	166	130	67.13	87.4	1.665	263.2	21.29	12.61
111	2008	166	145	67.23	87.1	1.156	250.2	35.88	12.61
111	2008	166	200	67.26	87	0.973	235.2	26.22	12.6
111	2008	166	215	67.19	86.6	2.806	272.8	20.54	12.59
111	2008	166	230	67.45	85.4	3.906	277.4	18.1	12.59
111	2008	166	245	67.54	85.1	3.158	274.2	20.57	12.58
111	2008	166	300	67.56	84.7	2.386	273.8	20.99	12.57
111	2008	166	315	67.41	85.7	1.661	270.3	18.33	12.57
111	2008	166	330	67.02	85.8	1.994	280.6	14.06	12.57
111	2008	166	345	66.88	84.7	2.274	282.3	21.64	12.56
111	2008	166	400	66.84	84.6	1.924	289.4	18.95	12.56
111	2008	166	415	66.22	85.6	0.353	275.7	8.08	12.56
111	2008	166	430	65.72	86.5	0.081	340.8	8.19	12.55
111	2008	166	445	65.68	86.3	na	na	na	12.55
111	2008	166	500	65.35	87.3	na	na	na	12.55
111	2008	166	515	65.66	86.6	na	na	na	12.55
111	2008	166	530	65.49	87.1	na	na	na	12.55
111	2008	166	545	65.61	87.1	na	na	na	12.55
111	2008	166	600	66.11	85.9	0.646	285.3	12.64	12.56
111	2008	166	615	66.98	83.2	2.25	278.1	13	12.69
111	2008	166	630	67.89	80.8	2.003	267.6	22.39	12.89
111	2008	166	645	68.71	78.1	3.314	284.5	14.04	13.09
111	2008	166	700	69.34	75.4	3.517	285.6	18.95	13.32
111	2008	166	715	69.85	72.4	4.375	285	16.1	13.3
111	2008	166	730	70.1	71.1	4.007	272.7	19.9	13.37
111	2008	166	745	70.7	68.73	3.874	275	21	13.37
111	2008	166	800	71.7	68.52	3.89	283.1	22.06	13.35
111	2008	166	815	72.1	69.62	3.914	277.9	25.32	13.34
111	2008	166	830	71.9	68.81	3.207	244.8	36.25	13.33
111	2008	166	845	72.2	67.1	3.588	265.8	29.06	13.33
111	2008	166	900	72.6	65.96	2.843	254.5	39.8	13.32
111	2008	166	915	73.4	65.13	3.696	234.5	35.63	13.31

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	166	930	74.3	63.36	4.202	254.1	34.17	13.3
111	2008	166	945	74.9	61.92	4.186	263.2	32.16	13.29
111	2008	166	1000	74.8	64.22	4.883	264.1	26.22	13.28
111	2008	166	1015	75.1	61.64	5.02	265.9	29.48	13.28
111	2008	166	1030	75.3	63.48	4.571	257.1	30.14	13.27
111	2008	166	1045	75.5	64.68	4.617	243.6	35.82	13.26
111	2008	166	1100	75.4	64.51	4.931	256.5	35.57	13.25
111	2008	166	1115	75.4	64.34	4.804	257.5	30.84	13.25
111	2008	166	1130	75.4	66.48	5.197	261.1	38.92	13.26
111	2008	166	1145	75.3	67.38	4.746	249.9	35.03	13.25
111	2008	166	1200	75.8	65.88	4.637	241.7	39.39	13.24
111	2008	166	1215	75.9	64.27	5.538	255.7	35.29	13.24
111	2008	166	1230	76.8	61.86	4.951	241.7	42.29	13.24
111	2008	166	1245	77.4	64.97	4.482	240.2	41.43	13.24
111	2008	166	1300	77.9	62.07	4.597	236.3	47.35	13.22
111	2008	166	1315	78.1	65.64	4.365	239.4	42.66	13.22
111	2008	166	1330	78.3	61.63	4.69	229.8	46.05	13.21
111	2008	166	1345	78.3	61.86	5.199	248.7	30.77	13.22
111	2008	166	1400	78.5	59.83	4.631	247.2	39.58	13.22
111	2008	166	1415	78.8	60.26	5.231	254.6	32.61	13.21
111	2008	166	1430	78.2	63.47	5.554	250.6	35.38	13.21
111	2008	166	1445	77.9	64.24	6.761	267.5	21.97	13.2
111	2008	166	1500	78.2	64.81	5.578	242.4	37.22	13.22
111	2008	166	1515	78.5	65.27	4.941	233	38.86	13.2
111	2008	166	1530	78.4	65.41	5.401	252.9	35.7	13.21
111	2008	166	1545	77.8	66.21	5.115	231.3	30.84	13.21
111	2008	166	1600	78.2	67.01	5.06	258.5	37.49	13.21
111	2008	166	1615	77.7	67.18	5.229	241.4	36.03	13.22
111	2008	166	1630	77.7	66.64	5.368	259	31.86	13.22
111	2008	166	1645	77	70.8	6.906	265.3	33.46	13.22
111	2008	166	1700	76	74	6.144	265.8	27.89	13.06
111	2008	166	1715	75	76.1	5.183	260.4	27.11	12.9
111	2008	166	1730	73.8	78.2	6.843	271	19.52	12.87
111	2008	166	1745	73.8	78	4.492	270.7	21.99	12.84
111	2008	166	1800	73.8	78.5	4.675	260.6	24.86	12.83
111	2008	166	1815	73.5	79	5.927	271.8	21.4	12.81
111	2008	166	1830	73.5	78.6	6.106	277.6	16.36	12.79
111	2008	166	1845	73.3	80.8	5.165	270	27.1	12.78
111	2008	166	1900	72.9	84.6	4.78	273.8	18.81	12.78
111	2008	166	1915	72.2	86.2	3.7	264.9	25.21	12.77
111	2008	166	1930	72	86.1	3.535	271	19.79	12.75
111	2008	166	1945	72	86.7	0.886	274.9	24.57	12.75
111	2008	166	2000	72	87.1	0.932	358.1	49.19	12.73
111	2008	166	2015	72.1	88	3.088	354.2	34.93	12.74
111	2008	166	2030	72.1	87.8	2.827	1.237	27.8	12.73
111	2008	166	2045	72.2	87.5	4.17	40.87	30.15	12.73
111	2008	166	2100	70.6	92.1	5.485	66.04	29.77	12.73
111	2008	166	2115	69.33	94.1	4.887	9.73	41.18	12.72
111	2008	166	2130	69.1	94.8	2.492	343.2	37.68	12.71
111	2008	166	2145	69.12	94.9	3.956	106.9	17.08	12.71
111	2008	166	2200	69.04	95.2	4.373	125.1	17.31	12.71
111	2008	166	2215	68.96	95.3	3.419	269.8	55.92	12.7
111	2008	166	2230	68.95	95.5	3.573	273.9	18.77	12.69
111	2008	166	2245	68.92	95.5	1.618	255.8	26.63	12.69
111	2008	166	2300	68.91	95.5	1.885	231.2	36.94	12.68
111	2008	166	2315	68.88	95.6	2.584	250.8	35.55	12.68
111	2008	166	2330	68.62	95.7	2.677	254.7	28.65	12.67
111	2008	166	2345	68.53	95.7	2.572	246.2	31.8	12.66
111	2008	166	2400	68.5	95.7	1.765	268.2	48.37	12.66
111	2008	167	15	68.37	95.7	1.032	297.1	26.82	12.66

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	167	30	68.36	95.8	1.079	63.4	15.39	12.65
111	2008	167	45	68.23	95.8	0.724	115.6	12.59	12.65
111	2008	167	100	68.38	95.9	1.001	67.97	26.15	12.65
111	2008	167	115	68.38	95.8	0.479	357.5	18.09	12.64
111	2008	167	130	68.31	95.9	na	na	na	12.64
111	2008	167	145	68.32	95.9	1.177	274.5	8.23	12.63
111	2008	167	200	68.37	95.9	2.635	290.3	19.25	12.63
111	2008	167	215	68.27	96	2.042	269.3	18.38	12.63
111	2008	167	230	68.36	96	3.108	294.2	18.4	12.62
111	2008	167	245	68.07	95.9	4.706	288.9	22.56	12.62
111	2008	167	300	67.55	95.8	4.15	278.8	20.57	12.61
111	2008	167	315	67.43	95.8	3.04	273.8	19.44	12.6
111	2008	167	330	67.31	95.8	1.726	256.3	24.43	12.6
111	2008	167	345	67.3	95.9	1.155	251.2	23.19	12.59
111	2008	167	400	67.33	95.9	1.429	254.1	27	12.59
111	2008	167	415	67.42	95.9	1.487	270.1	14.99	12.59
111	2008	167	430	67.68	95.8	2.862	294.9	15.92	12.59
111	2008	167	445	67.73	95.7	2.117	313.6	15.91	12.58
111	2008	167	500	67.61	95.7	3.158	304.9	14.21	12.58
111	2008	167	515	67.58	95.5	2.945	305.8	13.54	12.57
111	2008	167	530	67.68	95.4	1.8	293.6	16.53	12.57
111	2008	167	545	67.75	95.6	1.136	332.2	20.51	12.57
111	2008	167	600	67.79	95.4	1.603	338.4	19.97	12.57
111	2008	167	615	67.86	95.3	2.006	327	21.46	12.57
111	2008	167	630	67.99	95.4	1.744	321.6	18.83	12.57
111	2008	167	645	68.2	95.4	1.437	331.7	20.34	12.57
111	2008	167	700	68.42	95.2	0.781	348.4	18.55	12.58
111	2008	167	715	68.85	95.1	1.702	344.7	26.82	12.7
111	2008	167	730	69.39	94.9	1.167	330.7	24.44	12.93
111	2008	167	745	69.68	94.3	2.57	325.4	24.61	12.86
111	2008	167	800	69.93	94.1	1.769	332.9	20.73	12.84
111	2008	167	815	70.6	93.5	1.573	335.8	25.23	13.08
111	2008	167	830	70.7	92.5	2.733	350.4	21.22	13
111	2008	167	845	70.8	92.2	2.076	337.4	23.6	12.92
111	2008	167	900	71.2	91.6	2.08	11.98	26.71	12.94
111	2008	167	915	71.9	88.6	2.1	19.92	33.1	12.95
111	2008	167	930	72.6	84.1	2.717	36.3	42.13	13.32
111	2008	167	945	73.5	78.1	3.704	57.7	34.63	13.31
111	2008	167	1000	73.5	78	3.646	24.01	34.39	13.31
111	2008	167	1015	73.7	77.3	2.729	27.85	31.78	13.31
111	2008	167	1030	73.9	75.1	3.185	28.17	28.19	13.28
111	2008	167	1045	73.9	75.9	3.068	21.27	42.49	13.16
111	2008	167	1100	73.3	76.2	3.662	341.7	22.36	13.14
111	2008	167	1115	73.7	74.3	3.545	24.47	35.97	13.32
111	2008	167	1130	74.1	74	3.688	18.63	36.75	13.31
111	2008	167	1145	74.4	73.4	4.113	16.68	25.21	13.31
111	2008	167	1200	74.6	72	3.996	13.02	31.05	13.3
111	2008	167	1215	75.2	71.2	3.783	8.44	27.85	13.3
111	2008	167	1230	76.1	68.54	3.287	34.6	39.22	13.29
111	2008	167	1245	76.9	65.4	3.354	41.28	45.81	13.27
111	2008	167	1300	76.3	67.3	4.236	336.4	29.28	13.26
111	2008	167	1315	77.5	67.35	3.938	21.03	37.29	13.26
111	2008	167	1330	78.1	62.53	4.145	64.78	42.72	13.24
111	2008	167	1345	78.1	66.14	3.008	53.8	72.1	13.24
111	2008	167	1400	78.2	65.68	3.866	56.52	34.31	13.2
111	2008	167	1415	78.1	64.77	2.661	37.06	42.39	13.14
111	2008	167	1430	78	67.68	4.089	59.33	32.95	13.24
111	2008	167	1445	76.9	67.21	3.805	59.19	31.14	13.23
111	2008	167	1500	77.2	75	3.892	104.5	54.13	13.26
111	2008	167	1515	71.8	84.3	7.05	157.1	20.8	13.26

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	167	1530	69.85	86.3	6.321	146.9	26.58	13.14
111	2008	167	1545	69.65	84.9	5.632	138.2	24.61	13.3
111	2008	167	1600	72	79.6	6.281	126.5	29.63	13.3
111	2008	167	1615	72.3	78.4	5.953	137.9	22.64	13.29
111	2008	167	1630	70.6	81.4	5.461	149.1	26.1	13.29
111	2008	167	1645	68.83	82.6	6.168	155.3	19.76	13.31
111	2008	167	1700	68.44	81.4	6.354	159	22.51	13.32
111	2008	167	1715	68.07	81.8	6.726	155.5	22.95	13.12
111	2008	167	1730	67.59	82.1	5.788	156.7	26.24	13.03
111	2008	167	1745	67.78	81	7.23	156	18.11	13.34
111	2008	167	1800	66.97	79.7	7.75	149.4	22.18	13.34
111	2008	167	1815	65.67	81.2	7.94	153.9	22.64	13.34
111	2008	167	1830	64.05	82.1	9.04	153	20.8	13.05
111	2008	167	1845	63.42	81.1	7.93	138.3	22.57	12.9
111	2008	167	1900	63.1	81	7.38	154.7	19.63	12.84
111	2008	167	1915	62.86	81.4	7.66	142.3	16.73	12.79
111	2008	167	1930	62.74	81.4	6.261	133.9	21.21	12.76
111	2008	167	1945	62.65	83.1	6.781	142.8	21.18	12.74
111	2008	167	2000	62.56	84.3	6.549	138.3	19.8	12.74
111	2008	167	2015	62.46	84.8	5.522	125	21.43	12.73
111	2008	167	2030	62.38	85.1	6.305	137	25.53	12.72
111	2008	167	2045	62.11	85.6	6.519	125.4	24.88	12.71
111	2008	167	2100	61.97	86.5	5.8	135.3	19.9	12.71
111	2008	167	2115	61.84	86	6.557	140.1	19.41	12.71
111	2008	167	2130	61.75	85.2	5.703	131	23.49	12.71
111	2008	167	2145	61.83	84.9	5.274	133	28.06	12.7
111	2008	167	2200	61.8	84.7	5.344	134.4	23.53	12.69
111	2008	167	2215	61.71	84.7	5.435	135.9	23.66	12.69
111	2008	167	2230	61.63	84.7	4.635	145.5	21.46	12.68
111	2008	167	2245	61.6	85	4.196	125.6	24.85	12.68
111	2008	167	2300	61.47	85.2	3.898	137.6	25.55	12.67
111	2008	167	2315	61.48	85.4	3.833	143.4	16.78	12.67
111	2008	167	2330	61.52	85.3	4.15	150	23.59	12.67
111	2008	167	2345	61.51	85.2	3.986	131.3	26.22	12.67
111	2008	167	2400	61.65	84.8	4.057	123.7	20.56	12.66
111	2008	168	15	61.76	84.1	4.244	133	18.67	12.65
111	2008	168	30	61.86	84.4	4.281	132.5	24.4	12.65
111	2008	168	45	62.02	83.7	5.314	153.8	22.91	12.65
111	2008	168	100	62.12	84	4.023	156.4	23.25	12.65
111	2008	168	115	62.13	83.9	3.525	165.4	29.35	12.64
111	2008	168	130	61.97	83.9	2.187	170.4	34.27	12.64
111	2008	168	145	62.02	83.8	2.899	145.1	26.32	12.64
111	2008	168	200	62.06	84.7	2.055	188.1	34.83	12.63
111	2008	168	215	61.82	86	2.432	189.1	28.1	12.63
111	2008	168	230	61.77	86.6	1.821	172.6	28.67	12.63
111	2008	168	245	61.66	87.9	2.326	200.7	32.94	12.61
111	2008	168	300	61.65	88.2	2.145	204.6	42.57	12.61
111	2008	168	315	61.64	88.9	2.485	211.4	37.92	12.6
111	2008	168	330	61.59	89.8	2.174	220.9	50.95	12.6
111	2008	168	345	61.69	90.4	2.267	185.1	30.1	12.6
111	2008	168	400	61.71	91	1.74	221.8	27.2	12.59
111	2008	168	415	61.71	91.7	2.104	245.7	28.76	12.58
111	2008	168	430	61.78	91.9	1.761	230.1	44.86	12.57
111	2008	168	445	61.8	92.3	1.875	214.8	24.84	12.57
111	2008	168	500	61.88	92.5	0.895	204.3	27.79	12.57
111	2008	168	515	61.98	92.5	2.544	170.5	26.61	12.56
111	2008	168	530	62.14	92.7	2.064	175.5	25.77	12.55
111	2008	168	545	62.41	92.5	2.154	196.2	31.36	12.55
111	2008	168	600	62.63	92.1	1.514	183.1	35.15	12.55
111	2008	168	615	62.84	91.7	2.37	194.3	29.08	12.55

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	168	630	62.84	91.8	2.398	185.8	29.98	12.55
111	2008	168	645	63	91.9	3.332	170.7	25.98	12.55
111	2008	168	700	63.07	91.9	2.997	198.3	40.9	12.55
111	2008	168	715	63.07	92.2	2.122	207.9	35.74	12.55
111	2008	168	730	63.08	92.8	3.69	188.4	30.33	12.55
111	2008	168	745	63.04	93.2	3.859	195.4	28.3	12.56
111	2008	168	800	63.25	93.3	3.38	184.9	30.86	12.58
111	2008	168	815	63.65	92.8	3.094	197.2	38.18	12.65
111	2008	168	830	63.92	92.4	3.698	195.5	36.52	12.68
111	2008	168	845	64.16	91.7	4.198	196.6	37.4	12.74
111	2008	168	900	64.32	91.7	3.718	185.1	40.98	12.78
111	2008	168	915	64.84	90.5	4.16	185	32.48	12.93
111	2008	168	930	65.45	88.8	4.611	186.7	31.1	13.13
111	2008	168	945	66.09	87.2	4.911	200.6	33.02	13.33
111	2008	168	1000	66.17	87.2	3.771	189.6	53.52	13.17
111	2008	168	1015	65.97	87.2	2.1	246.2	57.31	12.96
111	2008	168	1030	65.83	87.7	1.908	257.6	36.8	12.89
111	2008	168	1045	65.92	87.9	2.498	187.3	30	12.89
111	2008	168	1100	65.98	88.4	3.799	190	24.88	12.9
111	2008	168	1115	66.9	86.7	3.446	198.2	43.32	13.27
111	2008	168	1130	67.76	82.3	4.79	198.8	32.77	13.36
111	2008	168	1145	68.29	83.5	5.473	182.8	33.24	13.34
111	2008	168	1200	68.53	82.3	4.937	173.7	29.42	13.33
111	2008	168	1215	68.46	82.6	4.722	199	37.93	13.34
111	2008	168	1230	68.84	82.9	5.542	173.4	25.15	13.33
111	2008	168	1245	68.94	84.5	5.387	182.6	29.88	13.33
111	2008	168	1300	68.35	85.6	5.649	186.6	27.78	13.33
111	2008	168	1315	68.3	85.4	4.881	190.1	36.88	13.34
111	2008	168	1330	68.65	83.8	4.228	203.7	36.83	13.33
111	2008	168	1345	69	85.3	4.5	182	29.98	13.33
111	2008	168	1400	69.25	83.7	3.976	184.8	35.85	13.33
111	2008	168	1415	69.77	83.2	4.454	178.6	34.04	13.32
111	2008	168	1430	69.26	84.5	5.096	179.9	28.9	13.33
111	2008	168	1445	69.49	84.3	4.895	177	31.53	13.33
111	2008	168	1500	69.87	81	5.157	179.8	29	13.32
111	2008	168	1515	70.4	78.4	4.444	191.1	35.15	13.32
111	2008	168	1530	70.6	78.9	5.322	188.7	26.85	13.32
111	2008	168	1545	70.3	78.4	4.962	188.5	38.83	13.32
111	2008	168	1600	70	80.5	5.733	188.8	31.84	13.31
111	2008	168	1615	69.77	81.4	5.175	181.8	32.18	13.31
111	2008	168	1630	69.51	82.9	4.341	195.3	36.92	13.33
111	2008	168	1645	69.36	83.2	4.527	198.4	38.18	13.19
111	2008	168	1700	68.99	84.5	5.86	187.4	28.82	13.07
111	2008	168	1715	69.38	83.5	4.588	191.7	41.28	13.35
111	2008	168	1730	69.61	84.3	4.911	179.8	32.03	13.35
111	2008	168	1745	69.38	84.8	5.096	177.9	29.69	13.35
111	2008	168	1800	69.16	85.3	4.377	180.1	26.37	13.12
111	2008	168	1815	69.23	86.1	5.012	180.5	27.78	13.14
111	2008	168	1830	69.25	86.4	5.139	181.8	33.43	12.99
111	2008	168	1845	69.14	86.5	5.195	174.8	28.59	12.87
111	2008	168	1900	68.88	86.6	4.587	187.2	37.07	12.82
111	2008	168	1915	69.14	83.3	5.209	211.5	36.75	12.81
111	2008	168	1930	69.54	82.7	2.155	259.6	69.63	12.79
111	2008	168	1945	69.7	69.4	8.89	307.2	42.43	12.78
111	2008	168	2000	65.42	83.8	11.44	348.5	24.68	12.77
111	2008	168	2015	62.48	90.4	5.939	349.1	31.29	12.76
111	2008	168	2030	62.37	90.6	5.276	13.66	30.48	12.75
111	2008	168	2045	62.61	90.3	4.786	21.61	25.97	12.73
111	2008	168	2100	62.6	91.1	3.97	58.54	35.05	12.73
111	2008	168	2115	62.57	91.9	3.859	71.7	35.54	12.73

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	168	2130	62.51	91.2	4.089	46.87	37.27	12.72
111	2008	168	2145	62.51	91	2.481	49.82	39.31	12.71
111	2008	168	2200	62.43	91.3	3.934	351.9	48.83	12.71
111	2008	168	2215	62.46	91.6	5.993	300.8	18.56	12.71
111	2008	168	2230	62.52	91.2	1.598	348.3	50.96	12.69
111	2008	168	2245	62.39	91.2	0.018	53.28	6.503	12.69
111	2008	168	2300	62.28	91.8	0.593	152.6	6.518	12.68
111	2008	168	2315	62.29	91.7	2.13	135.2	25.19	12.68
111	2008	168	2330	62.28	91.4	1.615	124.6	23.21	12.67
111	2008	168	2345	62.17	91.7	1.95	148.5	20.84	12.67
111	2008	168	2400	62.09	92.6	1.74	216.5	63.32	12.66
111	2008	169	15	62.62	91.9	4.526	194.3	28.77	12.65
111	2008	169	30	62.53	91.5	2.864	199.6	31.43	12.66
111	2008	169	45	62.29	91.6	3.396	189.2	34.31	12.66
111	2008	169	100	61.98	91.6	2.963	194.2	35.23	12.65
111	2008	169	115	61.61	91	2.874	194.2	22.93	12.65
111	2008	169	130	61.41	90.9	1.864	208.5	35.42	12.64
111	2008	169	145	61.14	91	1.561	254.6	24.13	12.63
111	2008	169	200	60.98	91.2	0.844	238.9	22.31	12.63
111	2008	169	215	60.73	91.6	0.078	122.7	2.458	12.61
111	2008	169	230	60.44	92.3	0.627	258.3	63.43	12.61
111	2008	169	245	60.12	92.4	1.141	305.8	42.1	12.6
111	2008	169	300	59.65	93	0.469	202	29.88	12.59
111	2008	169	315	59.51	93.1	0.529	281.1	21.21	12.58
111	2008	169	330	59.28	93.2	0.139	317.8	1.074	12.58
111	2008	169	345	59.01	93.6	0.009	3.662	0	12.57
111	2008	169	400	58.85	93.8	na	na	na	12.56
111	2008	169	415	58.29	94.1	0.62	280.4	10.02	12.55
111	2008	169	430	58.57	94.4	1.477	283.6	12.96	12.55
111	2008	169	445	59.32	94.4	1.705	279.2	14.27	12.54
111	2008	169	500	59.87	94.5	1.558	277.3	19.48	12.54
111	2008	169	515	60.12	94.4	0.086	277.5	4.888	12.52
111	2008	169	530	60.05	94.5	0.109	263.1	4.019	12.53
111	2008	169	545	60.31	94.4	0.198	316.7	4.411	12.53
111	2008	169	600	60.36	94.5	na	na	na	12.77
111	2008	169	615	61.28	94.4	0.091	286.8	10.68	13.48
111	2008	169	630	62.35	93.9	0.14	266.6	6.431	13.46
111	2008	169	645	63.76	92.6	1.405	258.9	25.51	13.46
111	2008	169	700	64.84	90.2	3.013	264	22.52	13.44
111	2008	169	715	65.62	86.2	4.115	273.8	21.66	13.43
111	2008	169	730	66.2	83.5	5.364	282.7	21.39	13.42
111	2008	169	745	66.64	80.2	6.192	282.5	16.62	13.41
111	2008	169	800	67.19	75.9	6.374	287.6	17.26	13.4
111	2008	169	815	67.61	72.3	6.587	305	20.89	13.39
111	2008	169	830	67.91	69.36	6.886	307.8	23.9	13.38
111	2008	169	845	68.12	69.79	6.096	309.7	23.18	13.37
111	2008	169	900	69	68.35	4.933	307.6	23.12	13.37
111	2008	169	915	69.35	68.31	5.477	316.7	26.33	13.35
111	2008	169	930	70.2	65.33	4.198	303.3	20.22	13.34
111	2008	169	945	70.9	63.32	4.132	321	26.53	13.33
111	2008	169	1000	71.4	62.15	4.444	330.4	32.44	13.33
111	2008	169	1015	72.5	58.98	4.955	340.5	25.71	13.32
111	2008	169	1030	73.1	57.74	5.596	304.2	26.08	13.32
111	2008	169	1045	73.6	55.77	4.949	333.2	41.57	13.31
111	2008	169	1100	73.9	48.65	5.082	315.9	28.56	13.3
111	2008	169	1115	74.7	48.31	5.485	295.9	27.41	13.3
111	2008	169	1130	75.3	45.77	7.4	301.5	23.38	13.28
111	2008	169	1145	75.2	43.63	6.916	301.4	19.38	13.28
111	2008	169	1200	75.4	44.99	5.294	303.3	35.81	13.28
111	2008	169	1215	75.4	45.29	5.707	290.5	24.4	13.28

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	169	1230	75.5	46.56	4.808	319.4	24.32	13.28
111	2008	169	1245	74.8	47.2	4.873	305.3	31.43	13.28
111	2008	169	1300	73.4	64.39	4.043	259.5	34.15	13.28
111	2008	169	1315	73.9	48.38	4.486	270.1	37.88	13.28
111	2008	169	1330	73.6	62.22	4.98	277.1	38.42	13.29
111	2008	169	1345	72.6	58.11	4.275	265.5	25.1	13.06
111	2008	169	1400	73	47.68	3.573	309.1	26.2	12.93
111	2008	169	1415	73.9	46.07	4.148	307.6	24.73	12.98
111	2008	169	1430	75.2	43.63	5.834	306.9	35.24	13.29
111	2008	169	1445	76.3	40.09	6.199	298.5	31.85	13.28
111	2008	169	1500	75.9	43.53	6.777	309.9	20.78	13.28
111	2008	169	1515	73.9	42.8	5.6	318.9	30.4	13.21
111	2008	169	1530	75.1	38.45	6.884	332.8	24.97	13.29
111	2008	169	1545	74.8	37.01	5.574	312.3	25.04	13.29
111	2008	169	1600	74.9	38.15	7.36	309.9	25.51	13.3
111	2008	169	1615	74.9	41.56	7.73	323	28.59	13.3
111	2008	169	1630	74.6	37.81	7.61	340.9	27.37	13.3
111	2008	169	1645	75	38.52	7.42	330.5	22.87	13.03
111	2008	169	1700	73.4	39.55	6.386	329.2	19.93	13.05
111	2008	169	1715	74.7	37.88	6.744	334.6	31.62	13.17
111	2008	169	1730	74.7	37.71	7.59	324.2	27.34	13.06
111	2008	169	1745	74.3	36.94	6.287	336.7	23.6	13.02
111	2008	169	1800	74.2	37.91	7.2	329.8	22.31	12.96
111	2008	169	1815	73.2	36.64	6.229	322.6	20.66	12.89
111	2008	169	1830	73.5	37.65	5.364	317.9	22.18	12.91
111	2008	169	1845	73.6	37.91	4.746	327.7	26.44	12.92
111	2008	169	1900	73	41.19	5.923	333.5	25.01	12.84
111	2008	169	1915	72.6	42.26	6.108	344.9	22.31	12.81
111	2008	169	1930	72.2	42.46	4.794	327	22.16	12.79
111	2008	169	1945	71.6	42.73	4.716	335.1	19.63	12.79
111	2008	169	2000	70.6	44.97	3.765	332.8	19.79	12.78
111	2008	169	2015	69.75	46.22	3.61	336.6	21.06	12.77
111	2008	169	2030	68.94	47.22	2.8	335.5	19.69	12.76
111	2008	169	2045	68.17	49.5	2.704	342.8	18.66	12.75
111	2008	169	2100	67.41	52.44	1.904	340.2	21.39	12.74
111	2008	169	2115	66.5	53.55	2.19	337.1	19.77	12.73
111	2008	169	2130	66.34	52.31	3.495	343	23.86	12.73
111	2008	169	2145	66.3	52.22	3.255	342.7	23.37	12.72
111	2008	169	2200	66.11	52.35	2.243	332.8	21.36	12.71
111	2008	169	2215	66.11	51.32	3.033	327.4	20.24	12.71
111	2008	169	2230	66.09	51.68	3.436	327.2	27.48	12.71
111	2008	169	2245	65.67	52.49	3.585	314.4	20.16	12.69
111	2008	169	2300	64.99	53.36	3.612	315.4	19.35	12.69
111	2008	169	2315	64.12	55.74	2.274	305.6	15.04	12.68
111	2008	169	2330	63.44	56.44	1.311	326.2	15.97	12.68
111	2008	169	2345	62.57	59.18	0.526	329.3	12.39	12.67
111	2008	169	2400	61.63	60.92	1.251	345.8	12.22	12.66
111	2008	170	15	61.06	61.86	1.084	342.1	14.18	12.66
111	2008	170	30	60.49	64.54	0.926	321.8	10.79	12.65
111	2008	170	45	59.92	63.43	1.918	319.3	14.72	12.64
111	2008	170	100	60.11	62.97	2.876	311.9	13.75	12.63
111	2008	170	115	59.98	63.81	2.747	326.1	18.03	12.63
111	2008	170	130	59.61	65.18	2.248	328.3	15.6	12.62
111	2008	170	145	59.24	66.59	2.162	322.3	17.8	12.62
111	2008	170	200	59.05	67.09	2.822	315.4	14.94	12.61
111	2008	170	215	58.83	68.6	2.703	322.8	16.32	12.6
111	2008	170	230	58.58	69.37	2.967	317.8	16.82	12.6
111	2008	170	245	58.45	70	3.787	311.6	13.04	12.59
111	2008	170	300	58.29	71.1	3.422	311.3	15.01	12.58
111	2008	170	315	57.84	72.5	2.973	312.8	15.13	12.57

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	170	330	57.29	74.5	3.205	312.4	13.84	12.57
111	2008	170	345	56.92	77.1	0.732	300.4	9.22	12.56
111	2008	170	400	56.09	79.2	0.553	307	6.67	12.55
111	2008	170	415	55.75	79.7	1.613	307.5	10.94	12.55
111	2008	170	430	55.46	79.9	1.836	320.6	10.87	12.54
111	2008	170	445	55.45	79.5	2.294	315.9	11.24	12.53
111	2008	170	500	55.34	80.6	0.847	318.9	7.86	12.52
111	2008	170	515	54.17	83	na	na	na	12.52
111	2008	170	530	53.3	86.1	0.009	323.3	0	12.51
111	2008	170	545	53.63	86.5	0.009	327.3	0	12.5
111	2008	170	600	54.54	85	na	na	na	13.58
111	2008	170	615	55.91	81.7	0.04	316.3	2.901	13.57
111	2008	170	630	57.15	74.9	2.28	308.7	15.54	13.56
111	2008	170	645	58.73	70.6	2.322	305.8	13.15	13.53
111	2008	170	700	60.38	64.75	2.004	297	23.72	13.52
111	2008	170	715	61.83	62.13	1.648	292.7	22.11	13.48
111	2008	170	730	54.49	-0.067	1.564	285.8	24.94	13.47
111	2008	170	745	32.76	56.27	1.551	253.3	66.38	13.19
111	2008	170	800	66.53	49.03	2.647	321.5	71.2	13.12
111	2008	170	815	66.87	51.37	2.777	332.5	41.01	13.41
111	2008	170	830	67.09	51.51	3.978	322.5	34.47	13.4
111	2008	170	845	67.36	53.71	5.056	317.8	30.76	13.39
111	2008	170	900	67.87	52.43	4.82	324.7	31.2	13.38
111	2008	170	915	67.8	55.2	5.074	325.5	30.84	13.37
111	2008	170	930	68.47	53.83	5.914	295.9	29.53	13.36
111	2008	170	945	68.54	55.07	5.771	315.8	32.44	13.35
111	2008	170	1000	68.83	51.89	5.965	321.8	35.45	13.34
111	2008	170	1015	69.51	53.26	5.661	314.3	36.52	13.34
111	2008	170	1030	70	52.62	5.469	311.4	33.38	13.32
111	2008	170	1045	69.37	56.24	6.747	304.3	41.07	13.32
111	2008	170	1100	70.1	51.82	6.761	296.7	40.58	13.32
111	2008	170	1115	70.2	52.72	7.79	304.5	29.2	13.31
111	2008	170	1130	70.9	50.15	6.213	316.9	38.57	13.31
111	2008	170	1145	71.6	47.78	7.12	329.6	29.08	13.31
111	2008	170	1200	72.6	44.6	6.571	323.9	31.67	13.3
111	2008	170	1215	73.4	45.67	6.849	316.1	31.17	13.29
111	2008	170	1230	73.4	45.5	7.33	317.7	35.53	13.29
111	2008	170	1245	73	48.18	7.51	325.1	31.02	13.28
111	2008	170	1300	72.7	47.94	7.4	326.9	30.05	13.28
111	2008	170	1315	73	46.37	7.23	313.5	36.53	13.28
111	2008	170	1330	73.7	53.02	6.867	313.1	40.54	13.28
111	2008	170	1345	73.7	46.73	6.541	310.1	36.51	13.26
111	2008	170	1400	73.5	50.11	6.575	297.7	34.75	13.27
111	2008	170	1415	73.1	47.4	6.575	286.6	33.78	13.26
111	2008	170	1430	72.7	49.44	7.19	292.8	36.33	13.27
111	2008	170	1445	71.4	50.11	8.42	286.9	36.89	13.27
111	2008	170	1500	71.7	49.45	7.12	291.3	40.17	13.28
111	2008	170	1515	72.2	50.52	7.99	308.4	32.6	13.24
111	2008	170	1530	71.4	54.5	8.49	289.4	33.36	13.28
111	2008	170	1545	71.1	56.7	7.85	272.2	33.1	13.28
111	2008	170	1600	70.4	59.31	7.85	277.9	35.8	13.04
111	2008	170	1615	70.1	61.08	7.15	283	36.28	13.31
111	2008	170	1630	69.44	63.76	6.938	278.1	32.01	13.32
111	2008	170	1645	69.84	60.75	6.553	276.6	37.67	13.33
111	2008	170	1700	70.9	60.95	6.541	285.5	36.68	13.33
111	2008	170	1715	69.99	63.49	7.61	286.8	32.98	13.33
111	2008	170	1730	68.92	67.67	6.791	317	37.68	13.16
111	2008	170	1745	68.08	70.8	6.352	307.3	35.04	13.11
111	2008	170	1800	67.81	65.54	5.632	316	45.09	12.99
111	2008	170	1815	67.95	61.87	5.979	304.4	30.28	13.01

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	170	1830	67.58	61.64	4.476	5.097	45.55	12.87
111	2008	170	1845	66.98	63.71	1.43	48.06	38.7	12.81
111	2008	170	1900	66.69	63.78	0.061	342.9	4.245	12.79
111	2008	170	1915	66.78	67.99	1.548	307.1	36.82	12.78
111	2008	170	1930	66.74	73.4	1.463	297.3	36.73	12.76
111	2008	170	1945	66.7	74.4	2.408	296.1	30.29	12.76
111	2008	170	2000	66.89	74.7	1.835	281.9	25.08	12.75
111	2008	170	2015	66.98	76.1	2.513	326	26.3	12.75
111	2008	170	2030	63.51	87.8	6.652	40.24	41.42	12.74
111	2008	170	2045	59.47	90.8	1.435	78.8	42.26	12.73
111	2008	170	2100	59.19	91.7	0.373	137.3	12.68	12.72
111	2008	170	2115	58.84	92	1.586	111.8	30.17	12.72
111	2008	170	2130	58	92.4	0.229	116.9	10.59	12.71
111	2008	170	2145	58.02	92.4	0.472	112.7	12.11	12.7
111	2008	170	2200	57.59	92.6	0.027	143.3	0.926	12.69
111	2008	170	2215	57.41	92.8	0.054	60.58	9.44	12.68
111	2008	170	2230	57.3	93.5	0.04	312.1	3.748	12.68
111	2008	170	2245	57.5	93.5	na	na	na	12.67
111	2008	170	2300	57.32	93.8	na	na	na	12.66
111	2008	170	2315	57.26	93.8	0.377	98.2	11.62	12.66
111	2008	170	2330	56.95	94.2	0.104	89.7	5.249	12.66
111	2008	170	2345	56.84	94.2	0.063	134.3	10.62	12.65
111	2008	170	2400	56.68	94.1	na	na	na	12.64
111	2008	171	15	56.31	94.3	na	na	na	12.63
111	2008	171	30	56.46	94.6	na	na	na	12.63
111	2008	171	45	56.37	94.7	0.049	78.9	2.404	12.62
111	2008	171	100	56.2	94.7	na	na	na	12.61
111	2008	171	115	56.08	94.8	na	na	na	12.6
111	2008	171	130	55.99	94.9	na	na	na	12.6
111	2008	171	145	56.08	94.9	na	na	na	12.59
111	2008	171	200	55.87	95	0.033	25.25	0.415	12.59
111	2008	171	215	55.94	95.3	0.768	29.27	14.52	12.58
111	2008	171	230	56.36	95.3	1.247	19.12	16.78	12.58
111	2008	171	245	56.44	95.2	0.613	12.36	22.05	12.58
111	2008	171	300	56.19	95.2	0.617	44.45	24.83	12.56
111	2008	171	315	56.01	95.2	0.339	327	10.12	12.56
111	2008	171	330	55.81	95.2	0.227	346.5	13.87	12.56
111	2008	171	345	55.58	95.2	0.142	13.81	4.373	12.55
111	2008	171	400	55.5	95.3	0.553	15.1	11.06	12.54
111	2008	171	415	55.28	95.3	0.053	73.1	2.606	12.53
111	2008	171	430	54.99	95.4	0.158	69.74	5.661	12.52
111	2008	171	445	54.85	95.3	0.158	64.63	4.425	12.52
111	2008	171	500	54.69	95.5	0.272	63.88	7.64	12.51
111	2008	171	515	54.46	95.4	0.027	66.53	3.535	12.51
111	2008	171	530	54.2	95.5	na	na	na	12.5
111	2008	171	545	54.23	95.7	0.06	40.68	5.331	12.5
111	2008	171	600	54.95	95.9	0.236	76.5	12.17	12.69
111	2008	171	615	56.34	95.9	0.235	96.8	12.2	13.11
111	2008	171	630	57.2	95.6	0.684	73.5	22.55	13.44
111	2008	171	645	57.73	95.3	1.562	108.5	27.05	13.52
111	2008	171	700	58.43	94.8	2.342	88.2	31.37	13.52
111	2008	171	715	58.74	93.8	1.677	73.4	29.73	13.51
111	2008	171	730	58.9	93.6	1.462	66.57	33.07	13.51
111	2008	171	745	60.2	91.8	2.192	113.7	34.87	13.49
111	2008	171	800	61.25	86.6	2.564	126	29.38	13.48
111	2008	171	815	60.17	88.9	2.937	98.9	34.02	13.48
111	2008	171	830	59.25	88.8	3.249	108.5	47.4	13.48
111	2008	171	845	59.15	89	2.782	94.8	43.18	13.47
111	2008	171	900	61.12	81.2	2.775	77.3	40.16	13.46
111	2008	171	915	61.91	82.1	2.387	67.84	37.29	13.45

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	171	930	63.53	75.5	2.964	51.77	47.71	13.43
111	2008	171	945	65.64	69.84	2.454	85.7	52.63	13.41
111	2008	171	1000	66.68	66.39	2.425	67.31	44.82	13.39
111	2008	171	1015	66.24	68.59	3.086	12.59	50.48	13.38
111	2008	171	1030	67.96	64.23	2.713	28.4	45.38	13.36
111	2008	171	1045	68.87	58.04	2.85	45.34	47.28	13.34
111	2008	171	1100	68.8	54.53	1.934	123.4	51.68	13.34
111	2008	171	1115	69.13	52.99	3.217	74.3	47.4	13.32
111	2008	171	1130	69.97	54.6	2.294	24.61	66.9	13.32
111	2008	171	1145	69.93	51.29	2.589	8.06	62.08	13.32
111	2008	171	1200	70.5	51.45	2.528	50.09	54.37	13.3
111	2008	171	1215	70.9	49.08	3.481	27.64	65.55	13.31
111	2008	171	1230	72.6	45.54	3.614	68.08	64.28	13.29
111	2008	171	1245	71.7	56.97	3.191	330.7	95.1	13.29
111	2008	171	1300	71.2	44.5	4.343	11.36	54.71	13.29
111	2008	171	1315	71.2	63.72	3.716	300.5	59.49	13.29
111	2008	171	1330	69.58	65.39	5.983	308.7	31.48	13.3
111	2008	171	1345	69.68	67.54	5.507	296.9	35.97	13.3
111	2008	171	1400	70.7	61.15	5.399	312	38.85	13.31
111	2008	171	1415	70.8	62.49	5.957	276.8	31.98	13.3
111	2008	171	1430	71.3	59.21	5.638	298.7	37.55	13.29
111	2008	171	1445	71.9	56.5	4.901	318.6	33.47	13.28
111	2008	171	1500	72.1	58.14	5.413	300.1	42.47	13.28
111	2008	171	1515	71.7	56.9	5.92	287.4	35.01	13.28
111	2008	171	1530	71.8	54.6	6.17	316	35.18	13.11
111	2008	171	1545	71.7	55.4	6.287	309	32	13.05
111	2008	171	1600	71.3	52.99	5.761	293.3	34.61	13
111	2008	171	1615	72.4	51.85	4.653	312.2	41.12	12.96
111	2008	171	1630	72.1	50.78	5.777	322.3	34.58	12.95
111	2008	171	1645	71.6	54.4	4.945	314.1	29.28	12.91
111	2008	171	1700	71.4	53.19	5.955	280.1	36.59	12.99
111	2008	171	1715	70.9	53.36	6.144	292.3	34.71	12.93
111	2008	171	1730	70.7	54.53	5.199	279.2	37.43	12.88
111	2008	171	1745	71.3	53.73	4.962	295.1	34.61	12.89
111	2008	171	1800	71	52.22	5.022	302.7	42.16	12.94
111	2008	171	1815	70.9	57.34	4.933	312.9	38.38	12.89
111	2008	171	1830	70.7	54.5	3.543	313.5	43.16	12.88
111	2008	171	1845	69.76	58.04	4.69	282.7	29.6	12.82
111	2008	171	1900	68.43	61.49	3.741	317.3	31.87	12.81
111	2008	171	1915	67.64	66.01	3.455	301.1	32.57	12.8
111	2008	171	1930	66.88	67.72	3.725	315.8	33.18	12.78
111	2008	171	1945	66.32	68.36	3.845	321.9	32.12	12.77
111	2008	171	2000	66.04	70.5	3.374	314.5	33	12.77
111	2008	171	2015	65.79	71	3.937	324.5	28.02	12.76
111	2008	171	2030	65.84	70.3	3.391	322.5	27.92	12.75
111	2008	171	2045	65.93	69.8	4.005	330.2	27.53	12.75
111	2008	171	2100	65.99	71.1	3.44	321.8	34.14	12.74
111	2008	171	2115	65.96	70.7	3.36	329.4	28.19	12.73
111	2008	171	2130	66.01	70.4	3.799	333.9	28.12	12.73
111	2008	171	2145	66.03	70.5	3.437	333.5	29.04	12.72
111	2008	171	2200	66	70.7	4.152	334.3	29.98	12.72
111	2008	171	2215	65.94	71.2	3.704	336.6	35.56	12.71
111	2008	171	2230	65.65	70.7	3.797	335.6	25.51	12.71
111	2008	171	2245	65.37	71.5	2.523	327.3	27.24	12.7
111	2008	171	2300	64.96	72.4	1.109	323.2	19.16	12.69
111	2008	171	2315	64.52	73.5	1.483	315.7	22.57	12.69
111	2008	171	2330	64.22	74.4	2.079	314.4	22.56	12.68
111	2008	171	2345	64.39	75.7	2.546	319.7	27.56	12.67
111	2008	171	2400	64.15	77.9	1.554	311.6	19.64	12.65
111	2008	172	15	63.79	79.8	1.973	317.6	24.17	12.66

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	172	30	63.85	79.7	2.993	318.7	23.21	12.65
111	2008	172	45	63.97	79.9	2.897	318.7	24.1	12.64
111	2008	172	100	64.13	80.8	3.138	321.7	27.73	12.64
111	2008	172	115	64.4	82	3.299	322.8	20.8	12.63
111	2008	172	130	64.77	82.5	2.707	338.3	23.8	12.63
111	2008	172	145	64.73	83.6	2.742	330.3	29.21	12.62
111	2008	172	200	64.33	84.3	2.105	354.4	28.42	12.61
111	2008	172	215	63.71	85.8	1.246	349	22.99	12.6
111	2008	172	230	63.04	87.2	1.289	4.897	19.25	12.6
111	2008	172	245	62.57	88.1	1.938	13.26	15.31	12.59
111	2008	172	300	62.21	88.2	2.341	13.15	17.12	12.58
111	2008	172	315	61.69	88.5	1.548	11.03	12.16	12.58
111	2008	172	330	61.19	88.1	1.568	14.3	13.7	12.57
111	2008	172	345	60.82	87.7	1.909	14.29	13.51	12.55
111	2008	172	400	60.53	87.4	1.135	16.39	10.16	12.55
111	2008	172	415	59.91	87.9	0.269	15.74	7.42	12.54
111	2008	172	430	59.29	88.9	1.167	19.13	13.54	12.54
111	2008	172	445	59.03	89.4	0.429	12.74	4.621	12.53
111	2008	172	500	58.77	89.5	na	na	na	12.53
111	2008	172	515	58.23	90	na	na	na	12.52
111	2008	172	530	57.82	90.5	na	na	na	12.52
111	2008	172	545	57.73	90.8	na	na	na	12.52
111	2008	172	600	58.67	90.2	na	na	na	12.92
111	2008	172	615	60.42	86.5	na	na	na	13.52
111	2008	172	630	62.31	78.6	na	na	na	13.51
111	2008	172	645	64.15	72.5	na	na	na	13.49
111	2008	172	700	66.42	65.84	0.612	19.92	9.5	13.47
111	2008	172	715	68.08	60.68	0.62	44.03	26.25	13.45
111	2008	172	730	69.14	59.37	0.336	22.15	19.08	13.42
111	2008	172	745	69.91	54.31	0.77	331.6	19.64	13.4
111	2008	172	800	70.2	55.68	2.262	329	21.81	13.38
111	2008	172	815	71	50.32	2.782	333.1	27.14	13.36
111	2008	172	830	72	45.27	3.104	318.1	37.09	13.35
111	2008	172	845	72.1	52.76	3.876	329.4	26.4	13.34
111	2008	172	900	72.5	57.87	4.307	317.8	33.99	13.33
111	2008	172	915	72.5	50.55	4.698	324.6	32.31	13.32
111	2008	172	930	72.5	49.91	4.52	319	35.08	13.32
111	2008	172	945	73.3	51.55	4.053	310.1	41.96	13.31
111	2008	172	1000	74	42.16	4.414	300.5	34.08	13.3
111	2008	172	1015	74.2	42.92	5.268	306.4	34.16	13.29
111	2008	172	1030	74.3	43.19	5.379	301.7	34.8	13.28
111	2008	172	1045	74	44.12	6.229	303.3	32.42	13.28
111	2008	172	1100	74.4	41.18	5.981	301	36.13	13.28
111	2008	172	1115	74.2	41.65	6.464	316.8	31.7	13.27
111	2008	172	1130	74.2	42.05	6.98	317.5	29.86	13.27
111	2008	172	1145	75	39.51	6.225	309	34.97	13.27
111	2008	172	1200	75.2	39.14	5.691	326	31.65	13.26
111	2008	172	1215	74.6	42.85	6.936	320.9	36.74	13.27
111	2008	172	1230	75.6	38.04	6.122	306.9	37.27	13.26
111	2008	172	1245	75.2	45.72	6.692	296.8	36.05	13.26
111	2008	172	1300	75.2	40.37	7.54	307.5	29.15	13.26
111	2008	172	1315	75.3	41.31	6.201	302.5	35.87	13.26
111	2008	172	1330	76	41.25	6.001	296.4	33.14	13.26
111	2008	172	1345	76.3	49.33	6.015	299.8	40.12	13.26
111	2008	172	1400	75.3	51.84	6.718	284.1	36.19	13.25
111	2008	172	1415	75.5	48.3	6.803	283.4	36.22	13.26
111	2008	172	1430	75	53.61	7.51	286.8	31.35	13.26
111	2008	172	1445	75	53.25	6.722	299.5	35.7	13.26
111	2008	172	1500	76.4	52.04	5.592	318.3	42.15	13.14
111	2008	172	1515	76	52.58	7.01	311.5	32.16	13.08

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	172	1530	75.2	53.75	7.55	292.5	35.05	13.04
111	2008	172	1545	75.3	54.78	7.1	299.9	35.49	13.02
111	2008	172	1600	75.2	53.74	6.388	308.2	38.63	13.03
111	2008	172	1615	75.1	56.39	7.08	304.5	35.61	12.98
111	2008	172	1630	74.6	55.89	6.229	312.4	41.99	12.95
111	2008	172	1645	74.3	59.34	6.964	297.2	41.57	12.94
111	2008	172	1700	73.9	58.5	7.38	315.6	35.96	12.92
111	2008	172	1715	73.8	60.44	6.724	303.5	42.54	12.91
111	2008	172	1730	73.6	61.15	6.172	301	40.48	12.89
111	2008	172	1745	72.9	65.23	6.771	286.6	37.15	12.87
111	2008	172	1800	72.3	66.53	6.93	306.1	33.94	12.85
111	2008	172	1815	72.2	66.93	6.289	318.7	37.95	12.83
111	2008	172	1830	72.1	69.17	4.585	321.1	42.48	12.81
111	2008	172	1845	71.2	73.5	4.931	306.7	38.4	12.79
111	2008	172	1900	70.3	74.5	4.363	321.4	39.27	12.79
111	2008	172	1915	69.3	76.6	3.01	308.4	40.84	12.77
111	2008	172	1930	68.76	77	2.821	306.7	36.72	12.76
111	2008	172	1945	68.55	78	2.156	296.2	36.4	12.76
111	2008	172	2000	68.42	78	2.64	350.6	51.4	12.75
111	2008	172	2015	68.49	77.3	1.227	20.01	29.19	12.75
111	2008	172	2030	68.42	76.5	1.752	290.5	40.82	12.73
111	2008	172	2045	68.21	76	2.528	320.4	26.36	12.73
111	2008	172	2100	67.87	76.6	2.693	296.2	32.13	12.73
111	2008	172	2115	67.63	77.9	1.807	295.3	23.29	12.71
111	2008	172	2130	67.28	78.4	2.408	305.6	28.33	12.71
111	2008	172	2145	67.13	78.1	2.36	312.2	30.13	12.71
111	2008	172	2200	67.09	78.3	2.085	311.1	26.02	12.7
111	2008	172	2215	66.89	79.5	1.324	310.1	19.52	12.69
111	2008	172	2230	66.67	80.5	1.224	306.6	24.82	12.68
111	2008	172	2245	66.5	81	1.672	316.1	22.28	12.67
111	2008	172	2300	66.72	81.7	1.419	318.4	23.87	12.67
111	2008	172	2315	66.95	82.3	2.311	316.4	30.42	12.67
111	2008	172	2330	66.86	83.3	1.25	318.1	21.76	12.65
111	2008	172	2345	66.95	83.5	2.492	334.9	31.87	12.65
111	2008	172	2400	67.31	83.3	3.302	341.3	34.59	12.65
111	2008	173	15	67.62	82.9	3.768	337.6	30.01	12.65
111	2008	173	30	67.87	82	3.678	349.5	26.8	12.64
111	2008	173	45	67.82	81.9	3.116	11.84	20.53	12.64
111	2008	173	100	65.95	83.4	7.48	48.91	36.36	12.63
111	2008	173	115	61.26	89.5	3.503	79.7	49.26	12.63
111	2008	173	130	60.29	89.6	2.853	72.1	42.45	12.62
111	2008	173	145	60.09	89.5	1.83	76.2	52.93	12.61
111	2008	173	200	59.86	90.5	0.42	19.64	22.56	12.6
111	2008	173	215	59.99	91.2	0.424	14.3	4.987	12.59
111	2008	173	230	60.1	91.8	0.488	213.9	27.45	12.58
111	2008	173	245	60.38	92.1	0.485	257.8	24.33	12.57
111	2008	173	300	60.58	91.3	1.25	223.1	26.07	12.57
111	2008	173	315	60.43	91.3	na	na	na	12.56
111	2008	173	330	60.29	92.2	na	na	na	12.55
111	2008	173	345	60.52	92.3	0.376	318.1	11.44	12.55
111	2008	173	400	60.44	92.5	0.009	9.64	0	12.55
111	2008	173	415	60.15	93	0.709	3.223	40.2	12.54
111	2008	173	430	60.13	93.1	0.009	274	0	12.53
111	2008	173	445	59.89	93.4	1.003	95.4	16.92	12.53
111	2008	173	500	59.57	93.4	0.191	82.6	4.808	12.52
111	2008	173	515	59.28	93.8	na	na	na	12.52
111	2008	173	530	59.21	93.8	0.018	60.7	2.015	12.52
111	2008	173	545	59.17	94.2	0.077	89.3	1.776	12.52
111	2008	173	600	59.75	94.1	0.027	15.04	1.928	12.72
111	2008	173	615	60.33	94	0.817	80.2	11.61	13.09

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	173	630	61.37	93.9	0.356	63.08	40.12	13.48
111	2008	173	645	62.81	93	0.485	47.54	22.44	13.47
111	2008	173	700	64.14	90.6	0.906	50.42	30.78	13.45
111	2008	173	715	65.65	86.2	1.01	21.29	17.17	13.44
111	2008	173	730	66.91	81.5	0.353	15.55	18.94	13.42
111	2008	173	745	68.48	75.9	0.748	16.02	40.9	13.41
111	2008	173	800	69.77	69.93	1.228	354.9	39.12	13.39
111	2008	173	815	71	66.85	1.418	45.52	36.17	13.37
111	2008	173	830	72.4	63.7	1.047	31.6	29.15	13.35
111	2008	173	845	72.9	60.12	0.741	11.06	34.35	13.34
111	2008	173	900	72.4	61.59	0.157	225.6	20.37	13.32
111	2008	173	915	73.1	59.81	1.79	343.7	33.29	13.32
111	2008	173	930	74	57.44	1.573	300	61.08	13.3
111	2008	173	945	74.7	53.92	1.616	298	64.15	13.29
111	2008	173	1000	74.9	54.68	2.721	303.9	51.66	13.28
111	2008	173	1015	75.8	54.98	2.532	263.7	59.31	13.27
111	2008	173	1030	75.8	58.42	4.311	231.6	30.02	13.27
111	2008	173	1045	74.6	55.62	4.82	241.7	17.58	13.26
111	2008	173	1100	76	56.05	2.823	246.4	41.19	13.26
111	2008	173	1115	74.9	60.9	5.457	250.8	19.44	13.26
111	2008	173	1130	73.7	65.57	6.491	241.1	15.4	13.27
111	2008	173	1145	73	67.22	7.05	239.6	17.5	13.26
111	2008	173	1200	72.9	67.46	7.09	243.3	22.47	13.28
111	2008	173	1215	73.9	67.3	5.507	268.5	25.5	13.27
111	2008	173	1230	73.6	67.57	6.217	263.4	31.03	13.27
111	2008	173	1245	74.4	67.77	5.969	278.2	40.23	13.26
111	2008	173	1300	74.7	66.83	5.651	299.3	37.93	13.26
111	2008	173	1315	75.7	63.18	5.689	306.6	41.07	13.26
111	2008	173	1330	76.2	64.41	4.994	283.1	37.4	13.25
111	2008	173	1345	76	64.37	5.568	296.1	39.06	13.25
111	2008	173	1400	76.2	61.26	5.231	280.7	43.13	13.24
111	2008	173	1415	76.8	61.1	5.08	285.5	42.42	13.24
111	2008	173	1430	76.8	61.53	5.143	300.8	34.44	13.24
111	2008	173	1445	77.1	59.39	4.708	297.3	39.06	13.24
111	2008	173	1500	76.9	61.36	5.675	286.9	41.29	13.2
111	2008	173	1515	77.2	60.03	5.264	298.8	34.35	13.09
111	2008	173	1530	76.6	60.16	4.949	266.1	32.1	13.06
111	2008	173	1545	77.1	56.15	5.006	268.4	32.2	13.04
111	2008	173	1600	76.4	59.29	6.025	259	29.13	13.02
111	2008	173	1615	76.4	64.74	5.709	263.9	30.86	13.02
111	2008	173	1630	76.1	62.63	5.181	272.1	39.68	12.98
111	2008	173	1645	76.3	62.47	4.504	311.3	37.42	12.95
111	2008	173	1700	76.5	60.83	4.659	302.4	41.27	12.92
111	2008	173	1715	76.2	60.7	4.403	291.9	43.97	12.9
111	2008	173	1730	76.4	60.83	4.607	276.8	36.13	12.89
111	2008	173	1745	75.7	60.63	5.099	284.7	34.72	12.86
111	2008	173	1800	75.6	58.73	4.742	266.4	26.72	12.85
111	2008	173	1815	76	58.47	4.182	300.8	33.37	12.83
111	2008	173	1830	75.9	64.69	4.385	299.7	33.96	12.82
111	2008	173	1845	74.3	65.13	4.272	269.2	35.23	12.8
111	2008	173	1900	73.6	65.96	4.48	284	33.48	12.79
111	2008	173	1915	72.9	68.37	3.019	296.3	38.51	12.78
111	2008	173	1930	72.2	71.5	2.903	289.1	36.04	12.78
111	2008	173	1945	71.4	74.2	3.358	276.6	28.27	12.76
111	2008	173	2000	70.7	75.8	2.456	290.8	24.31	12.76
111	2008	173	2015	70.2	78.6	2.569	316.2	30.66	12.75
111	2008	173	2030	69.62	81.9	2.186	305.2	34.37	12.75
111	2008	173	2045	69.32	84.4	0.969	310.7	30.3	12.74
111	2008	173	2100	69.31	86.4	1.862	308.4	32.77	12.73
111	2008	173	2115	69.25	87.8	4.357	324.6	24.12	12.72

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	173	2130	69.08	88.6	3.126	319.5	32.23	12.71
111	2008	173	2145	68.87	89.3	2.558	325.4	31.85	12.71
111	2008	173	2200	68.9	89.5	1.855	328.5	35.74	12.71
111	2008	173	2215	68.93	89.6	1.909	323.1	27.82	12.69
111	2008	173	2230	68.76	90	1.944	319.9	30.41	12.68
111	2008	173	2245	68.52	90.4	1.3	292.1	19.49	12.68
111	2008	173	2300	68.36	90.6	3.354	315.7	31.01	12.68
111	2008	173	2315	68.35	90.2	3.446	330.6	30.29	12.68
111	2008	173	2330	68.5	89.9	3.258	326.1	26.57	12.67
111	2008	173	2345	68.7	89.5	3.934	312.8	30.28	12.66
111	2008	173	2400	68.76	89.7	4.47	318.8	32.52	12.65
111	2008	174	15	68.69	90.1	3.567	319.7	34.9	12.65
111	2008	174	30	68.55	90.5	2.882	320.9	34.73	12.65
111	2008	174	45	68.49	91	2.503	319	38.27	12.64
111	2008	174	100	68.53	91.3	3.177	321.4	31.7	12.63
111	2008	174	115	68.53	91.4	2.61	307.5	30.14	12.63
111	2008	174	130	68.4	91.5	3.833	319.4	28.15	12.63
111	2008	174	145	68.22	91.6	2.517	304.1	26.77	12.63
111	2008	174	200	68.03	91.7	2.562	307.6	32.16	12.62
111	2008	174	215	67.78	91.9	2.068	314.1	29.4	12.61
111	2008	174	230	67.59	92.1	3.266	314.1	24.38	12.6
111	2008	174	245	67.45	92	3.378	317.1	28.17	12.6
111	2008	174	300	67.35	92	3.765	308.6	31.98	12.6
111	2008	174	315	67.32	91.6	3.662	312.8	31.28	12.59
111	2008	174	330	67.17	91.5	3.271	315.6	27.98	12.58
111	2008	174	345	67.06	91.1	3.43	309.4	27.66	12.58
111	2008	174	400	66.96	90.9	2.935	318.3	25.27	12.57
111	2008	174	415	66.95	90.7	3.166	329.5	31.9	12.57
111	2008	174	430	66.99	90.3	2.524	335.7	26.27	12.57
111	2008	174	445	66.86	90.2	1.949	319.2	23.28	12.56
111	2008	174	500	66.84	90.5	3.046	314.5	26.19	12.56
111	2008	174	515	67.24	89.9	4.355	331	29	12.56
111	2008	174	530	67.3	89.9	3.686	333.9	28.48	12.56
111	2008	174	545	67.31	89.8	4.273	327.3	21.86	12.56
111	2008	174	600	67.56	88.3	4.367	317.7	26.93	12.6
111	2008	174	615	68.01	87.1	4.349	318.2	25.4	12.81
111	2008	174	630	68.54	85.5	4.69	313.6	36.93	13.4
111	2008	174	645	69.22	85.4	4.214	312.7	35.77	13.35
111	2008	174	700	69.85	85.4	3.964	304.9	42.48	13.38
111	2008	174	715	70.5	83.5	5.101	306.9	38.06	13.37
111	2008	174	730	70.9	81.7	5.922	309.8	32.92	13.36
111	2008	174	745	72.1	77.1	4.734	316.6	34.49	13.35
111	2008	174	800	72.8	75	4.146	313.4	36.52	13.34
111	2008	174	815	72.9	75.3	5.775	292.3	33.49	13.33
111	2008	174	830	73.6	73.1	5.92	299.9	37.27	13.33
111	2008	174	845	73.5	74.2	6.178	296.3	34.79	13.32
111	2008	174	900	73.7	73.5	5.937	293.4	32.83	13.31
111	2008	174	915	74.5	74.7	5.769	297	31.51	13.3
111	2008	174	930	73.8	74.9	5.354	298	41.72	13.3
111	2008	174	945	73.5	77.6	5.223	304.2	39	13.3
111	2008	174	1000	73.3	78	4.454	307.2	43.64	13.3
111	2008	174	1015	72.8	80.8	5.651	294.8	33.84	13.24
111	2008	174	1030	72.4	81.8	6.057	297.4	40.9	13.32
111	2008	174	1045	72	83	6.537	300	33.18	13.29
111	2008	174	1100	71.8	82.1	5.826	316.7	29.57	13.32
111	2008	174	1115	72.7	79.3	6.382	320.6	38.98	13.32
111	2008	174	1130	74.1	73.3	7.99	313.2	35.04	13.3
111	2008	174	1145	74.5	69.51	7.12	306.5	38.8	13.29
111	2008	174	1200	74.9	66.53	7.45	324.5	32.79	13.29
111	2008	174	1215	75.1	66.67	9.1	325.2	28.15	13.28

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	174	1230	75.4	65.42	8.26	315.6	29.79	13.27
111	2008	174	1245	77	61.47	5.983	295.7	39.6	13.27
111	2008	174	1300	76.2	64.91	7.66	306.7	36.7	13.26
111	2008	174	1315	76.3	65.01	7.81	301.7	34.77	13.26
111	2008	174	1330	76.3	65.71	7.47	285.1	29.22	13.26
111	2008	174	1345	76.6	66.11	7.29	297.6	34.68	13.25
111	2008	174	1400	76.3	68.75	8.21	290.2	36.12	13.25
111	2008	174	1415	75.5	70.6	7.71	286.5	35.95	13.26
111	2008	174	1430	75	74.2	6.233	287.1	40.77	13.26
111	2008	174	1445	73.9	73.5	6.777	281.8	30.12	13.26
111	2008	174	1500	74.3	74.7	6.674	281.2	35.49	13.27
111	2008	174	1515	73	76.5	5.965	279	35.32	13.28
111	2008	174	1530	73.6	76.1	5.636	280.6	31.72	13.29
111	2008	174	1545	73.8	75.5	5.447	286.8	35.02	13.29
111	2008	174	1600	73.4	76.4	6.716	264.8	27.62	13.3
111	2008	174	1615	73	77.3	7.18	278.1	25.68	13.3
111	2008	174	1630	73.5	75.8	6.938	274.2	34.19	13.3
111	2008	174	1645	74.1	75.2	7.89	271.3	31.15	13.14
111	2008	174	1700	73.9	75.7	8.4	265.7	31.06	13.3
111	2008	174	1715	74	76.5	6.807	263.5	35.54	13.3
111	2008	174	1730	73.5	77.7	5.689	271	34.71	13.3
111	2008	174	1745	72.9	80.4	6.513	264.6	24.22	13.3
111	2008	174	1800	72.5	81.5	5.459	284.8	35.82	13.3
111	2008	174	1815	72	83.5	5.646	274.3	27.25	12.89
111	2008	174	1830	71.6	84.3	4.966	284	35.67	12.83
111	2008	174	1845	71.1	85.6	5.753	275.3	29.61	12.81
111	2008	174	1900	71	86	4.974	275.4	33.15	12.79
111	2008	174	1915	71.1	86.1	4.18	274.3	29.29	12.79
111	2008	174	1930	70.7	87.7	5.651	259.8	30.83	12.77
111	2008	174	1945	70.4	88.1	3.847	272.6	31.37	12.76
111	2008	174	2000	70.3	88.7	2.982	283.3	30.64	12.76
111	2008	174	2015	70.1	89.1	4.287	269.8	27.57	12.76
111	2008	174	2030	69.96	89.2	3.189	283.6	34.15	12.75
111	2008	174	2045	69.91	89.4	3.761	268.5	33.06	12.75
111	2008	174	2100	69.9	89.8	4.077	259.4	30.82	12.74
111	2008	174	2115	69.86	89.7	4.577	260.1	25.45	12.73
111	2008	174	2130	69.8	89.9	3.571	276.8	38.79	12.73
111	2008	174	2145	69.81	89.7	3.729	299.1	35.31	12.73
111	2008	174	2200	69.75	89.8	3.349	289.3	37.87	12.73
111	2008	174	2215	69.54	90.3	3.4	319	30.07	12.72
111	2008	174	2230	69.45	90.4	3.558	320.7	31.48	12.71
111	2008	174	2245	69.36	90.5	4.071	312.5	31.3	12.71
111	2008	174	2300	69.46	90.4	3.107	297.5	35.24	12.71
111	2008	174	2315	69.54	90.3	3.32	287.1	37.42	12.71
111	2008	174	2330	69.63	90.5	4.716	311.1	36.5	12.7
111	2008	174	2345	69.57	90.9	4.289	309.9	32.04	12.69
111	2008	174	2400	69.52	90.9	4.867	305.9	37.17	12.69
111	2008	175	15	69.52	90.9	3.219	324.4	42.43	12.69
111	2008	175	30	69.52	90.9	3.585	314.9	34.32	12.69
111	2008	175	45	69.55	91.2	3.771	324.6	27.81	12.68
111	2008	175	100	69.56	90.9	4.315	331.2	26.13	12.68
111	2008	175	115	69.73	90.6	4.351	336.2	33.66	12.67
111	2008	175	130	69.8	91.2	4.226	327.8	34.26	12.67
111	2008	175	145	69.73	91.4	3.545	314.6	40.45	12.66
111	2008	175	200	69.62	91.2	2.776	311.2	28.92	12.66
111	2008	175	215	69.39	91.5	3.16	297.3	27.16	12.65
111	2008	175	230	69.58	91.4	3.952	313.2	28.23	12.65
111	2008	175	245	69.75	91.2	3.66	317.6	32.98	12.64
111	2008	175	300	69.64	91.4	3.297	306.9	42.62	12.64
111	2008	175	315	69.47	91.6	3.793	300	26.42	12.63

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	175	330	69.26	91.9	3.684	319	36.33	12.63
111	2008	175	345	69.13	92.4	3.787	296.4	37.26	12.62
111	2008	175	400	68.98	92.8	3.489	288.7	30.53	12.63
111	2008	175	415	68.85	93	3.267	285.8	31.37	12.61
111	2008	175	430	68.89	93.1	2.899	287.5	31.2	12.61
111	2008	175	445	68.94	93.4	3.334	284.6	34.1	12.6
111	2008	175	500	68.82	93.5	3.052	289.8	31.15	12.6
111	2008	175	515	68.82	93.9	2.385	291.6	37.24	12.6
111	2008	175	530	68.89	94.1	2.807	284.1	30.73	12.59
111	2008	175	545	69	94.1	2.643	278.7	30.18	12.58
111	2008	175	600	69	94.3	2.818	293.1	36.67	12.59
111	2008	175	615	68.99	94.4	3.358	309.3	35.74	12.58
111	2008	175	630	69.04	94.3	2.886	312.3	32.62	12.58
111	2008	175	645	69	94.3	3.799	290	28.91	12.58
111	2008	175	700	69.07	94.3	3.888	301.2	34.26	12.58
111	2008	175	715	69.36	94.1	3.616	284	31.46	12.58
111	2008	175	730	69.66	93.9	3.537	300	30.75	12.57
111	2008	175	745	70	93.5	3.706	283.4	32.98	12.59
111	2008	175	800	70.6	92.5	3.224	313.5	33.11	12.59
111	2008	175	815	70.6	92	3.473	309.1	32.95	12.58
111	2008	175	830	70.5	91.6	4.44	309.2	34.98	12.58
111	2008	175	845	70.5	91.3	4.704	321.9	30.38	12.62
111	2008	175	900	70.5	91.2	4.248	326.7	22.45	12.59
111	2008	175	915	70.5	91.3	3.183	337	30.49	12.59
111	2008	175	930	70.5	91.7	3.336	319.8	29.2	12.62
111	2008	175	945	70.7	91.7	3.009	318.4	27.47	12.61
111	2008	175	1000	71	91.1	2.947	336.4	30.04	12.68
111	2008	175	1015	71	90.9	3.592	310.6	27.37	12.64
111	2008	175	1030	71	90.3	3.052	330.8	33.7	12.69
111	2008	175	1045	71	90.7	2.812	309.2	30.51	12.71
111	2008	175	1100	71.8	88	2.379	348.6	31.06	13.09
111	2008	175	1115	72.6	87.1	2.975	300.8	35.34	13.09
111	2008	175	1130	72.2	88.6	3.68	315.9	34.23	13
111	2008	175	1145	72.3	89.2	3.372	326.2	35.12	13
111	2008	175	1200	71.6	90.4	3.765	289.6	31.67	12.95
111	2008	175	1215	71.3	90.1	4.726	271.1	28.4	13.13
111	2008	175	1230	71.1	90.5	3.326	307.6	33.25	12.9
111	2008	175	1245	70.7	91.4	3.499	291.9	32.44	12.87
111	2008	175	1300	70.8	91.6	3.029	322.9	28.42	12.88
111	2008	175	1315	71.1	91.3	2.769	271.7	35.82	12.92
111	2008	175	1330	71.5	90.7	4.569	267.3	30.87	13.11
111	2008	175	1345	72	88.3	5.848	264.8	28.04	13.32
111	2008	175	1400	72.8	86.3	4.726	316.8	37.91	13.21
111	2008	175	1415	73	84.5	4.911	311	34.69	13.21
111	2008	175	1430	72.5	85.9	5.695	312.3	30.6	13.18
111	2008	175	1445	72	86.4	4.788	325.1	35.18	13.19
111	2008	175	1500	71.9	86.5	5.306	333.1	33.01	13.21
111	2008	175	1515	71.4	87.4	5.105	347.9	30.21	13.17
111	2008	175	1530	72	85.5	3.422	353.4	32.65	13.3
111	2008	175	1545	73.2	83.3	3.22	331.8	42.77	13.31
111	2008	175	1600	73.9	80	4.647	335.2	35.85	13.31
111	2008	175	1615	75	75.3	3.942	337.3	39.82	13.3
111	2008	175	1630	74.8	74.2	5.584	328.2	31.36	13.3
111	2008	175	1645	75.8	70.1	4.601	352.4	31.79	13.29
111	2008	175	1700	75.6	70.9	4.462	353.2	28.54	13.29
111	2008	175	1715	76	69.81	4.514	335.5	20.96	13.28
111	2008	175	1730	75.6	71.7	3.616	338	29.13	13.22
111	2008	175	1745	75.5	74.7	3.616	336.7	33.19	13.14
111	2008	175	1800	74.6	77.5	4.067	342.4	23.41	13.11
111	2008	175	1815	74.6	77.1	3.471	328.9	30.29	13.1

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	175	1830	75.5	74.5	3.725	334.6	36.03	13.18
111	2008	175	1845	75.3	76.2	4.14	342.8	31.83	13.03
111	2008	175	1900	74.1	79.9	4.544	306.7	36.36	12.92
111	2008	175	1915	72.6	84.2	4.158	286.9	39.1	12.86
111	2008	175	1930	71.6	86.7	4.367	275.9	24.74	12.83
111	2008	175	1945	70.9	88.2	4.387	269.2	24.6	12.81
111	2008	175	2000	70.5	88.5	4.18	274	23.51	12.8
111	2008	175	2015	70.1	88.4	3.134	302.5	35.33	12.79
111	2008	175	2030	69.68	89	4.14	286.2	25.02	12.77
111	2008	175	2045	69.44	89.7	3.38	288.8	25.41	12.77
111	2008	175	2100	69.27	89.9	3.406	285.3	26.71	12.76
111	2008	175	2115	69.06	89.6	2.385	306.5	26.8	12.75
111	2008	175	2130	68.77	89.6	2.131	319.8	29.22	12.75
111	2008	175	2145	68.64	89.5	1.939	312.7	25.02	12.73
111	2008	175	2200	68.61	89.6	1.672	312.7	28.43	12.73
111	2008	175	2215	68.48	89.9	1.553	321.1	29.18	12.73
111	2008	175	2230	68.31	90.1	0.912	315.6	16.15	12.71
111	2008	175	2245	68.21	90.3	1.641	285.7	20.78	12.71
111	2008	175	2300	68.07	90.6	1.848	282.4	18.46	12.71
111	2008	175	2315	67.98	91	0.924	308.1	15.03	12.69
111	2008	175	2330	67.81	91.3	0.159	282.9	6.029	12.69
111	2008	175	2345	67.77	91.3	0.325	263.1	5.226	12.68
111	2008	175	2400	67.59	91.5	0.068	326.4	1.583	12.67
111	2008	176	15	67.22	91.6	na	na	na	12.67
111	2008	176	30	66.69	91.9	na	na	na	12.66
111	2008	176	45	66.63	92.3	na	na	na	12.65
111	2008	176	100	66.44	92.7	na	na	na	12.65
111	2008	176	115	66.47	92.9	na	na	na	12.64
111	2008	176	130	66.81	93.2	1.397	16.4	16.22	12.63
111	2008	176	145	67.35	93.3	1.55	15.09	18.65	12.63
111	2008	176	200	67.48	93.4	1.424	359.9	25.58	12.63
111	2008	176	215	67.61	93.4	1.986	4.377	23.89	12.61
111	2008	176	230	67.62	93.1	1.462	16.02	22.26	12.61
111	2008	176	245	67.29	93.3	1.674	4.802	22.53	12.61
111	2008	176	300	67.1	93.4	1.632	28.5	19.33	12.6
111	2008	176	315	66.85	93.4	1.895	40.41	21.59	12.59
111	2008	176	330	66.5	93.7	2.208	43.06	26.49	12.59
111	2008	176	345	66.22	93.2	1.852	49.84	29.57	12.58
111	2008	176	400	65.68	92.7	1.631	40.71	29.88	12.57
111	2008	176	415	65.16	91.8	2.081	40.58	18.88	12.57
111	2008	176	430	64.82	90.9	1.32	44.91	24.5	12.56
111	2008	176	445	64.51	89.8	0.503	71.6	14.92	12.55
111	2008	176	500	64.11	88.6	0.657	86.5	18.61	12.55
111	2008	176	515	63.99	87	0.95	49.95	40.36	12.55
111	2008	176	530	63.88	86.2	0.673	73.3	28.42	12.54
111	2008	176	545	63.93	85.4	0.855	50.62	35.58	12.53
111	2008	176	600	64.28	84.6	0.695	94.4	45.4	12.68
111	2008	176	615	64.97	83.3	1.121	66.72	30.8	12.97
111	2008	176	630	65.55	82.8	1.093	80.9	39.99	13.33
111	2008	176	645	67.01	80	1.476	61.28	41.39	13.43
111	2008	176	700	68.59	77.8	2.359	78.6	42.33	13.42
111	2008	176	715	70	75.6	2.289	55.78	36.7	13.4
111	2008	176	730	71.1	75.6	2.359	57.9	34.17	13.37
111	2008	176	745	71.5	75.4	3.372	7.99	25.02	13.37
111	2008	176	800	72.7	72.2	3.382	35.05	42.01	13.35
111	2008	176	815	72.9	72.6	3.378	37.98	32.59	13.34
111	2008	176	830	73.7	67.77	3.487	67.16	38.82	13.32
111	2008	176	845	74.5	61.65	3.606	66.86	43.23	13.32
111	2008	176	900	75.3	59.34	4.273	92.1	41.26	13.3
111	2008	176	915	75.5	57.39	4.097	80.8	41.52	13.29

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	176	930	76.6	52.81	4.273	85.8	39.15	13.28
111	2008	176	945	77.1	53.78	3.892	94.3	43.21	13.26
111	2008	176	1000	76.2	52.37	4.472	95.1	42.22	13.26
111	2008	176	1015	76.8	52.51	4.859	83.5	38.34	13.25
111	2008	176	1030	77.1	49.6	4.718	68.39	45.77	13.24
111	2008	176	1045	77.7	48.33	4.542	91.6	45.34	13.24
111	2008	176	1100	79.3	44.49	4.617	71.7	38.77	13.23
111	2008	176	1115	79.4	44.62	3.71	86.7	54.48	13.22
111	2008	176	1130	80	44.52	4.897	86	37.74	13.21
111	2008	176	1145	79.7	42.45	4.829	85.3	45.98	13.21
111	2008	176	1200	80.7	42.51	4.792	94.1	47.65	13.21
111	2008	176	1215	80.7	42.48	5.153	81.8	43.72	13.2
111	2008	176	1230	79.2	47.32	4.238	81.6	40.99	13.2
111	2008	176	1245	76.4	56.85	4.8	93.6	43.71	13.15
111	2008	176	1300	74.2	53.41	3.076	67.66	39.08	13.18
111	2008	176	1315	77.7	43.58	4.527	102.2	41.42	13.24
111	2008	176	1330	78.5	40.88	5.816	78.1	46.75	13.17
111	2008	176	1345	80	40.11	4.18	74.3	49.9	13.17
111	2008	176	1400	80.7	38.17	4.101	92.7	47.09	13.19
111	2008	176	1415	80	39.64	5.05	76.2	43.33	13.22
111	2008	176	1430	79.9	41.21	3.956	84.6	52.21	13.22
111	2008	176	1445	80.7	38.27	4.919	80.1	41.29	13.21
111	2008	176	1500	81.5	33.89	5.671	74.7	43.82	13.2
111	2008	176	1515	82.4	37.63	5.483	54.15	34.03	13.2
111	2008	176	1530	78.9	39.64	4.972	53.75	35.9	13.2
111	2008	176	1545	77.6	38.7	4.933	61.41	38.58	13.22
111	2008	176	1600	80.6	35.13	5.433	55.19	35.88	13.22
111	2008	176	1615	81.6	36.36	5.62	55.47	32.22	13.06
111	2008	176	1630	81.4	37.2	6.227	56.41	37.2	13.03
111	2008	176	1645	80.6	35.33	6.124	49.67	33.98	13.03
111	2008	176	1700	80.3	36.06	5.451	65.86	41.58	13.16
111	2008	176	1715	81.1	38.87	6.192	54.67	37.68	13.22
111	2008	176	1730	79.5	41.04	5.179	64.25	35.62	12.98
111	2008	176	1745	78.4	40.81	4.194	58.56	32.44	12.95
111	2008	176	1800	79	44.79	5.35	62.97	34.63	12.9
111	2008	176	1815	76.8	44.49	6.023	73.7	29.98	12.86
111	2008	176	1830	77.5	42.11	4.982	66.27	46.57	12.83
111	2008	176	1845	77.5	41.88	5.624	56.76	42.82	12.82
111	2008	176	1900	76.5	44.06	4.581	57.54	35.33	12.8
111	2008	176	1915	75.7	45.17	4.548	67.6	38.13	12.79
111	2008	176	1930	75	47.27	4.15	56.56	35.73	12.78
111	2008	176	1945	74.4	50.48	4.184	61.06	34.98	12.77
111	2008	176	2000	73.6	52.76	3.366	42.18	34.88	12.76
111	2008	176	2015	72.9	50.69	3.946	54.06	39.64	12.76
111	2008	176	2030	72.6	49.28	4.18	47.36	40.82	12.74
111	2008	176	2045	72.1	50.02	4.131	56.24	37.43	12.74
111	2008	176	2100	71.5	51.83	2.737	57.67	37.12	12.73
111	2008	176	2115	71	52.64	3.414	52.11	35.16	12.73
111	2008	176	2130	70.8	53.48	3.375	57.92	39.25	12.72
111	2008	176	2145	70.5	54.62	3.181	37.39	24.97	12.71
111	2008	176	2200	70	56.09	2.325	51.3	33.97	12.71
111	2008	176	2215	69.44	57.73	1.467	41.46	25.05	12.7
111	2008	176	2230	68.8	59.2	0.98	33.6	11.85	12.7
111	2008	176	2245	68.15	61.61	1.291	32.55	12.07	12.69
111	2008	176	2300	67.62	62.11	1.812	30.42	13.88	12.68
111	2008	176	2315	67.37	63.55	1.262	37.36	18.72	12.67
111	2008	176	2330	67.21	64.12	0.489	96.4	22.18	12.67
111	2008	176	2345	66.84	65.26	0.313	48.14	19.1	12.66
111	2008	176	2400	66.22	67.71	0.84	39.14	23.17	12.65
111	2008	177	15	65.77	68.35	0.901	75.7	25.22	12.65

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	177	30	65.29	70.1	1.092	44.92	24.47	12.65
111	2008	177	45	64.84	72.1	1.376	26.8	13.94	12.64
111	2008	177	100	64.18	73.4	1.561	41.11	19.11	12.63
111	2008	177	115	64.07	73.4	0.194	45.52	13.69	12.63
111	2008	177	130	63.91	74.4	1.028	30.5	14.43	12.62
111	2008	177	145	63.62	74.2	1.734	51.46	31.65	12.62
111	2008	177	200	64.03	72.2	1.637	63.79	30.6	12.61
111	2008	177	215	63.94	73.2	1.245	66.87	32.31	12.61
111	2008	177	230	63.59	74.3	1.297	57.73	32.34	12.6
111	2008	177	245	63.51	73.9	1.63	69.55	37.95	12.6
111	2008	177	300	63.25	74.7	1.02	54.56	31	12.59
111	2008	177	315	62.63	76.6	0.206	65.22	13.81	12.59
111	2008	177	330	62.04	77.4	0.448	37.75	16.65	12.58
111	2008	177	345	61.85	78	0.295	39.69	11.96	12.58
111	2008	177	400	61.36	79.6	na	na	na	12.56
111	2008	177	415	60.97	80.9	na	na	na	12.56
111	2008	177	430	60.22	82.8	na	na	na	12.55
111	2008	177	445	59.83	83.9	na	na	na	12.55
111	2008	177	500	59.3	85.2	na	na	na	12.55
111	2008	177	515	58.58	87	0.497	29.04	6.407	12.54
111	2008	177	530	58.23	87.9	0.174	22.45	4.591	12.52
111	2008	177	545	58.15	88.9	na	na	na	12.52
111	2008	177	600	58.96	88.1	0.058	24.29	0.63	12.98
111	2008	177	615	60.53	84.8	na	na	na	13.36
111	2008	177	630	62.47	78.9	0.07	24.89	0.958	13.49
111	2008	177	645	65.22	71.4	0.573	0.12	19.75	13.47
111	2008	177	700	66.91	68.25	0.638	19.28	14.63	13.45
111	2008	177	715	68.39	64.92	1.315	6.92	27.55	13.43
111	2008	177	730	69.78	61.31	1.916	57.79	33.38	13.41
111	2008	177	745	70.7	58.16	2.074	43.18	40.87	13.39
111	2008	177	800	72.4	55.27	2.161	68.04	39.72	13.37
111	2008	177	815	73.5	53.33	2.095	55.79	39.5	13.35
111	2008	177	830	74.5	51.39	2.482	32.58	40.01	13.32
111	2008	177	845	74.6	48.77	2.476	28.64	51.96	13.32
111	2008	177	900	75.8	45.83	2.28	37.46	43.97	13.3
111	2008	177	915	76.2	46.76	2.913	19.34	49.08	13.28
111	2008	177	930	76.7	45.86	2.691	356.4	68.96	13.27
111	2008	177	945	78	44.52	2.921	35.9	44.88	13.26
111	2008	177	1000	77.1	48.93	3.09	338.4	49.85	13.26
111	2008	177	1015	77	42.95	3.396	21.64	50.15	13.26
111	2008	177	1030	77.3	45.19	3.982	19.22	43.11	13.25
111	2008	177	1045	77.2	43.45	4.643	13.35	37.42	13.26
111	2008	177	1100	77	40.98	4.244	2.866	35.22	13.25
111	2008	177	1115	79	37.4	5.01	14.32	33.19	13.24
111	2008	177	1130	78.9	36.53	5.312	2.782	31.76	13.24
111	2008	177	1145	79.9	34.73	5.135	348.3	36.49	13.23
111	2008	177	1200	79.3	43.58	5.485	350.9	34.06	13.22
111	2008	177	1215	79.1	40.01	5.963	338.5	28.51	13.21
111	2008	177	1230	78.6	42.18	6.402	337.8	42.28	13.22
111	2008	177	1245	78.9	41.58	6.078	333	34.07	13.22
111	2008	177	1300	79.2	41.18	5.735	346	34.09	13.22
111	2008	177	1315	79.2	44.32	6.043	348.5	32.61	13.16
111	2008	177	1330	78.8	43.68	6.503	341.8	30.4	13.16
111	2008	177	1345	79.3	44.39	5.852	343.5	31.49	13.22
111	2008	177	1400	79.2	41.24	6.803	327.4	35.84	13.21
111	2008	177	1415	80.7	38.97	6.102	337.7	37.66	13.22
111	2008	177	1430	80.1	46.69	6.116	342	38.87	13.21
111	2008	177	1445	78.8	46.06	6.499	328.8	29.72	13.09
111	2008	177	1500	77.8	49.57	6.313	330.2	30.65	13.08
111	2008	177	1515	78.1	48.63	7.58	326.5	29.15	13.08

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	177	1530	78	50.97	6.702	329.8	32.25	13.03
111	2008	177	1545	76.6	51.47	7.69	325.3	34.12	13.24
111	2008	177	1600	76.6	52.97	7.33	328.1	44.69	13.24
111	2008	177	1615	76.3	54.51	7.85	340.2	28.61	13.2
111	2008	177	1630	76.8	53.28	6.094	342.1	35.81	13.22
111	2008	177	1645	76.5	53.71	6.607	347.4	28.92	13.06
111	2008	177	1700	76.1	53.71	6.446	356.6	30.18	13.08
111	2008	177	1715	75.8	55.45	7.47	330.6	31.45	13
111	2008	177	1730	75.3	53.21	7.42	336	27.88	12.94
111	2008	177	1745	75.6	51.84	6.672	344.9	30.27	12.88
111	2008	177	1800	75.4	51.95	7.01	348.7	27.25	12.84
111	2008	177	1815	75	54.76	6.871	343.2	29.96	12.84
111	2008	177	1830	74.5	55.1	6.231	341.2	33.76	12.82
111	2008	177	1845	73.7	60.72	6.646	343.7	27.88	12.81
111	2008	177	1900	73	63.09	5.979	341.2	28.11	12.79
111	2008	177	1915	72.5	66.06	5.663	337	28.04	12.78
111	2008	177	1930	71.9	68.47	6.255	345.9	26.88	12.77
111	2008	177	1945	71.3	70.9	5.675	344.8	25.85	12.76
111	2008	177	2000	70.8	72.5	4.798	349.5	28.94	12.76
111	2008	177	2015	70.5	73.8	4.925	349	24.8	12.75
111	2008	177	2030	70.3	75	4.16	347.9	25.59	12.73
111	2008	177	2045	70.1	76.1	4.14	352.8	25.44	12.73
111	2008	177	2100	69.84	77.4	3.195	347.8	28.73	12.72
111	2008	177	2115	69.69	77.8	3.922	341.1	28.91	12.72
111	2008	177	2130	69.65	79	3.692	337.4	25.35	12.72
111	2008	177	2145	69.64	80.2	3.309	342	24.93	12.71
111	2008	177	2200	69.65	80.4	3.11	341.6	23.62	12.71
111	2008	177	2215	69.81	80.2	3.505	350.6	22.97	12.69
111	2008	177	2230	69.87	79.8	3.187	350.1	25.79	12.7
111	2008	177	2245	69.9	79.8	3.132	350.4	22.01	12.69
111	2008	177	2300	70	79.9	3.694	349.7	24.7	12.69
111	2008	177	2315	69.97	81.1	2.746	347.7	26.79	12.69
111	2008	177	2330	69.95	81	3.215	352.7	25.96	12.67
111	2008	177	2345	70.2	80	3.525	344.7	24.83	12.67
111	2008	177	2400	70.3	79.9	3.608	341.7	29.7	12.67
111	2008	178	15	70.3	80	3.962	352.5	24.79	12.67
111	2008	178	30	70.2	79.9	2.782	347.8	26.51	12.66
111	2008	178	45	70	80.3	4.015	350.9	19.96	12.65
111	2008	178	100	69.7	81.3	2.804	352.1	24.48	12.66
111	2008	178	115	69.45	82.1	2.42	349.5	25.22	12.65
111	2008	178	130	69.15	82.9	2.252	3.993	25.03	12.65
111	2008	178	145	69.01	83.5	2.338	352.9	21.45	12.64
111	2008	178	200	68.69	84.4	2.172	346.7	19.41	12.63
111	2008	178	215	68.44	84.9	2.772	344.8	27.5	12.63
111	2008	178	230	68.46	84.9	2.763	346.6	29.13	12.63
111	2008	178	245	68.53	84.2	2.647	347.3	28.9	12.62
111	2008	178	300	68.71	83.4	2.858	346.7	27.31	12.61
111	2008	178	315	69.16	81.2	4.383	355.5	24.92	12.61
111	2008	178	330	69.39	80	4.242	352.4	25.44	12.61
111	2008	178	345	69.43	79.5	3.886	351.8	23.26	12.6
111	2008	178	400	69.45	79.7	4.003	352.5	23.68	12.6
111	2008	178	415	69.35	80	3.446	355.4	25.39	12.59
111	2008	178	430	69.19	79.9	2.905	348.6	24.32	12.59
111	2008	178	445	69.01	80.2	1.87	350.3	23.25	12.58
111	2008	178	500	68.79	80.4	2.812	349.5	20.36	12.58
111	2008	178	515	68.67	80.4	2.568	350.7	24.67	12.58
111	2008	178	530	68.59	80.8	2.456	356.9	25.55	12.57
111	2008	178	545	68.6	81	2.508	350.1	20.42	12.57
111	2008	178	600	68.63	81.6	1.992	352.5	24.05	12.57
111	2008	178	615	68.9	80.9	1.641	344.3	20.61	12.63

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	178	630	69.62	80.1	2.515	346.7	23.1	13.29
111	2008	178	645	70.6	77.4	2.945	345.5	24.02	13.32
111	2008	178	700	71.2	78	3.795	343.2	18.48	13.05
111	2008	178	715	71.1	79	3.076	347.1	23.28	12.97
111	2008	178	730	70.9	79.8	4.013	347.9	20.81	12.96
111	2008	178	745	70.9	80.3	3.992	346.8	23.73	12.9
111	2008	178	800	70.9	80.4	3.735	352.5	26.77	12.89
111	2008	178	815	71.3	80	4.087	342.2	26.67	12.91
111	2008	178	830	71.6	80.6	3.26	344	26.68	13.03
111	2008	178	845	72	80	3.118	339.7	26.13	13.09
111	2008	178	900	72.1	80.5	2.179	338.1	32.25	13.05
111	2008	178	915	72.2	80.9	2.122	329.3	30.47	13.04
111	2008	178	930	72.2	81	3.771	334.6	32.5	13.14
111	2008	178	945	72.2	80.9	3.62	332.8	23.11	13.13
111	2008	178	1000	72.1	81.6	4.168	324.4	26.03	13.11
111	2008	178	1015	72.8	76.2	4.075	343.6	33.1	13.15
111	2008	178	1030	74.6	74.8	5.161	347.2	20.84	13.32
111	2008	178	1045	75.4	71	4.323	339.5	35.7	13.3
111	2008	178	1100	76	72.5	4.704	344.3	29.16	13.29
111	2008	178	1115	75.3	75.5	4.542	340.7	27.31	13.29
111	2008	178	1130	74.1	78.5	4.422	338.2	24.43	13.18
111	2008	178	1145	73.2	83.4	4.379	330.7	23.99	13.16
111	2008	178	1200	72.6	83.9	3.722	337.2	26.94	13.26
111	2008	178	1215	72.6	85.5	2.515	325.6	34.02	13.27
111	2008	178	1230	72.2	86.6	2.646	301.3	29.8	13.22
111	2008	178	1245	72.1	87.3	3.896	305.9	33.09	13.26
111	2008	178	1300	72.6	85.1	3.713	321.4	27.03	13.34
111	2008	178	1315	72.9	82.7	3.034	298.7	34.49	13.33
111	2008	178	1330	72.4	84.6	3.739	302.2	32.03	13.16
111	2008	178	1345	71.9	84.9	2.477	314	32.1	13.11
111	2008	178	1400	72.3	82.9	4.248	311.3	30.41	13.23
111	2008	178	1415	72.2	80.2	5.024	321.8	36.11	13.26
111	2008	178	1430	73.3	79.3	4.272	324.7	38.12	13.34
111	2008	178	1445	73.7	79.5	4.988	334.8	26.82	13.33
111	2008	178	1500	74.4	75.5	6.172	325.9	30.49	13.32
111	2008	178	1515	75.2	76.7	5.691	333.5	29.07	13.31
111	2008	178	1530	75.7	74	4.988	326.6	37.34	13.3
111	2008	178	1545	76.1	73.7	6.829	331.3	30.59	13.29
111	2008	178	1600	76.2	74	6.203	332.6	31.35	13.28
111	2008	178	1615	75.6	77	5.159	350.8	27.48	13.28
111	2008	178	1630	74	80.1	4.663	342	25.13	12.94
111	2008	178	1645	73.9	79.2	3.273	339.7	22.41	12.94
111	2008	178	1700	77.2	68	3.362	348.7	28.49	13.02
111	2008	178	1715	79.8	64.45	3.966	350.2	34.5	12.94
111	2008	178	1730	79.9	65.61	3.684	343.1	28.88	12.9
111	2008	178	1745	79.9	64.64	3.475	334.5	37.67	12.9
111	2008	178	1800	81.4	58.32	3.823	11.48	33.51	12.88
111	2008	178	1815	81.9	59.36	4.361	9.77	31.36	12.86
111	2008	178	1830	82.2	56.38	2.866	27.01	47.28	12.84
111	2008	178	1845	82.6	55.08	3.193	23.89	25.22	12.82
111	2008	178	1900	81.1	55.18	4.424	24.92	26.49	12.82
111	2008	178	1915	80.7	56.05	3.431	25.35	29.6	12.81
111	2008	178	1930	80.1	57.99	2.392	29.25	29.52	12.81
111	2008	178	1945	79.6	56.49	3.719	28.35	22.04	12.8
111	2008	178	2000	79.3	57.99	3.309	42.09	30.48	12.78
111	2008	178	2015	78.6	59.54	2.975	42.33	34.22	12.78
111	2008	178	2030	77.8	61.68	2.082	43.67	29.54	12.78
111	2008	178	2045	77.2	62.85	1.195	27.07	17.25	12.76
111	2008	178	2100	76.4	65.86	0.027	51.1	6.134	12.76
111	2008	178	2115	75.2	68.91	0.133	345.6	5.982	12.75

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	178	2130	74.3	72	0.096	339.5	1.735	12.74
111	2008	178	2145	73.3	74.2	na	na	na	12.73
111	2008	178	2200	72.3	76.7	0.232	15.58	6.748	12.72
111	2008	178	2215	71.7	78.5	0.139	30.19	3.199	12.71
111	2008	178	2230	71.3	78.9	0.009	328.6	0	12.7
111	2008	178	2245	71.3	79.6	0.21	347.3	5.393	12.7
111	2008	178	2300	71	80.5	0.051	347.7	1.488	12.69
111	2008	178	2315	70.9	81.7	0.071	350.1	3.521	12.69
111	2008	178	2330	70.7	83.3	0.129	27.15	4.286	12.67
111	2008	178	2345	70.5	84.1	0.754	14.69	15.73	12.67
111	2008	178	2400	70.5	84.1	0.773	343.6	14.21	12.66
111	2008	179	15	71	81.4	1.435	345.9	16.92	12.66
111	2008	179	30	71.3	81	1.009	337.3	14.41	12.65
111	2008	179	45	71.1	81.3	0.672	343.4	10.86	12.64
111	2008	179	100	71.2	81.3	0.318	340.4	9.51	12.64
111	2008	179	115	70.7	82.3	0.914	350.8	16.81	12.63
111	2008	179	130	70.7	82.2	0.832	352	14.25	12.63
111	2008	179	145	70.6	82.6	0.702	338.4	16.78	12.62
111	2008	179	200	70.4	83.4	1.127	337.1	18.75	12.61
111	2008	179	215	70.2	83.6	1.451	338.8	19.05	12.61
111	2008	179	230	70.1	83.8	0.736	340.7	10.82	12.6
111	2008	179	245	69.78	84.4	0.557	344.4	19.47	12.6
111	2008	179	300	69.57	84.5	0.143	1.157	7.38	12.59
111	2008	179	315	69.2	85.7	na	na	na	12.58
111	2008	179	330	68.86	86.2	na	na	na	12.58
111	2008	179	345	68.71	86.2	0.062	336.6	2.262	12.57
111	2008	179	400	68.91	85.5	0.178	348.7	4.808	12.57
111	2008	179	415	69.28	83.8	1.349	354.4	17.66	12.56
111	2008	179	430	69.95	83	2.359	356.4	25.22	12.57
111	2008	179	445	69.83	83.2	0.729	9.23	20.21	12.56
111	2008	179	500	69.36	83.9	0.036	11	4.263	12.56
111	2008	179	515	68.48	85.5	0.042	28.84	1.586	12.57
111	2008	179	530	68.18	86.1	0.074	323.9	3.752	12.56
111	2008	179	545	68.16	86.4	na	na	na	12.55
111	2008	179	600	68.47	86.2	na	na	na	12.6
111	2008	179	615	69.48	83.6	0.116	348.8	11.67	12.91
111	2008	179	630	70.2	81.9	0.197	346.9	8.73	12.95
111	2008	179	645	70.8	80.2	1.702	340.2	11.92	13.11
111	2008	179	700	71.5	78.6	2.033	348.8	20.45	13.2
111	2008	179	715	72.7	75.6	2.491	341.8	18.56	13.35
111	2008	179	730	73.6	75.8	2.222	343.1	24.83	13.33
111	2008	179	745	74.8	71.6	3.063	349.4	26.78	13.33
111	2008	179	800	76	72.2	3.048	339.2	19.26	13.27
111	2008	179	815	75.4	72.8	3.08	340.7	20.48	13.26
111	2008	179	830	75.3	72.7	2.452	338.2	24.95	13.17
111	2008	179	845	75.6	71.4	1.708	347.4	26.24	13.15
111	2008	179	900	76.3	70.3	1.171	352	22.82	13.11
111	2008	179	915	76.7	69.98	0.761	334.4	12.99	13.04
111	2008	179	930	77	70.3	0.817	310.4	23.33	13.16
111	2008	179	945	77.3	69.11	1.05	340.5	25.28	13.19
111	2008	179	1000	77.5	69.58	1.992	352.2	24.96	13.18
111	2008	179	1015	78.5	66.33	0.77	8.02	24.83	13.2
111	2008	179	1030	80.3	59.71	1.305	12.59	44.74	13.27
111	2008	179	1045	83.8	52.08	1.899	23.8	48.83	13.24
111	2008	179	1100	85.2	53.11	2.598	334	46.73	13.22
111	2008	179	1115	86.2	50.23	2.147	30.76	46.19	13.21
111	2008	179	1130	84	61.52	2.61	263.8	91.6	13.18
111	2008	179	1145	80.7	64.67	2.701	351	26.54	13.13
111	2008	179	1200	81.4	60.16	1.622	42.47	33.37	13.14
111	2008	179	1215	83.2	54.81	2.645	62.71	37.53	13.23

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	179	1230	83.2	53.84	2.132	63.46	33.02	13.23
111	2008	179	1245	84.4	49.9	2.149	44.29	25.22	13.22
111	2008	179	1300	85.5	48.5	3.249	47.15	33.96	13.21
111	2008	179	1315	84.5	47.76	3.914	50.71	43.13	13.2
111	2008	179	1330	86.1	47.05	3.694	60.97	37.03	13.19
111	2008	179	1345	85	48.55	3.996	75	33.96	13.19
111	2008	179	1400	86.2	45.64	3.94	35.06	32.94	13.18
111	2008	179	1415	85.8	45.61	3.369	30.56	39.62	13.18
111	2008	179	1430	84	51.99	2.94	42.89	32.19	13.18
111	2008	179	1445	83	51.82	2.158	56.05	31.61	13.19
111	2008	179	1500	83.6	50.92	2.471	62.82	32.42	13.2
111	2008	179	1515	83.6	52.49	2.588	61.24	35.1	13.2
111	2008	179	1530	82.5	55.2	2.293	60.13	37.36	13.21
111	2008	179	1545	82.8	53.94	1.806	40.51	27.04	13.2
111	2008	179	1600	82.4	54.31	2.981	45.9	33.63	13.22
111	2008	179	1615	83	51.84	2.496	77	43.66	13.22
111	2008	179	1630	83.7	48.93	3.285	120.1	38.77	13.21
111	2008	179	1645	83.9	49.53	3.307	109.8	39.37	13.21
111	2008	179	1700	84.4	45.09	2.745	87	45.04	13.2
111	2008	179	1715	87	43.81	2.424	85.9	50.2	13.19
111	2008	179	1730	86.7	44.01	2.081	100.6	50.62	13.04
111	2008	179	1745	85.5	45.74	2.388	181.1	84.3	13.04
111	2008	179	1800	83.9	47.95	2.198	272.9	51.23	13.01
111	2008	179	1815	85.7	49.45	1.941	352.4	65.34	12.92
111	2008	179	1830	82.7	53.14	2.961	261.1	25.99	12.88
111	2008	179	1845	81.3	60.16	4.204	259.1	20.17	12.86
111	2008	179	1900	80.2	60.79	3.716	251.1	17.84	12.83
111	2008	179	1915	79.5	63.1	3.531	257.6	15.37	12.81
111	2008	179	1930	78.9	65.21	2.929	279	24.92	12.8
111	2008	179	1945	78.2	67.55	2.335	292.9	32.03	12.79
111	2008	179	2000	77.4	68.66	3.086	309.7	33.18	12.78
111	2008	179	2015	76.8	67.87	2.68	337.5	24.78	12.78
111	2008	179	2030	76.4	72.2	5.753	340.7	27.13	12.76
111	2008	179	2045	75.8	72	6.43	348.2	23.83	12.76
111	2008	179	2100	75.4	65.6	5.88	349.4	34.05	12.76
111	2008	179	2115	74.8	69.61	5.518	342.2	33.28	12.75
111	2008	179	2130	73.8	72.6	4.573	355	29.06	12.75
111	2008	179	2145	73.3	74.8	3.723	342.2	26.15	12.73
111	2008	179	2200	73	75.5	2.813	8.84	29.25	12.73
111	2008	179	2215	72.9	75.1	1.019	354.5	24.3	12.72
111	2008	179	2230	72.5	76	0.174	70.8	7.55	12.71
111	2008	179	2245	72.1	76.7	na	na	na	12.71
111	2008	179	2300	72	77.9	0.303	299.8	8.31	12.7
111	2008	179	2315	72	78.3	0.721	324.2	11.48	12.7
111	2008	179	2330	72	78.2	0.574	10.05	31.61	12.69
111	2008	179	2345	72.2	77.1	1.523	359.3	25.14	12.69
111	2008	179	2400	72.4	76.8	1.924	355	27.16	12.68
111	2008	180	15	72	77.7	1.104	334.5	18.27	12.68
111	2008	180	30	71.7	79.1	1.072	323.9	20.08	12.67
111	2008	180	45	71.5	79.7	1.165	354.4	23.9	12.67
111	2008	180	100	71.3	80.8	0.171	326.9	9.65	12.66
111	2008	180	115	70.9	82.1	0.821	331.7	14.68	12.65
111	2008	180	130	70.6	83.1	0.655	310.8	14.92	12.65
111	2008	180	145	70.6	84.1	0.438	311.2	11.12	12.64
111	2008	180	200	70.3	85.2	0.754	328.5	17.15	12.65
111	2008	180	215	69.96	85.7	0.369	5.626	31.74	12.63
111	2008	180	230	69.7	86.6	0.945	292.6	18.75	12.63
111	2008	180	245	69.68	87.2	0.09	319.4	8.02	12.63
111	2008	180	300	69.52	87.7	0.009	312.3	0	12.62
111	2008	180	315	69.38	88.2	na	na	na	12.62

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	180	330	69.22	88.8	na	na	na	12.61
111	2008	180	345	69.05	89.5	0.811	324.6	13.58	12.61
111	2008	180	400	69.1	90.1	1.8	337.7	20.87	12.6
111	2008	180	415	69.19	90.3	1.503	329	16.86	12.6
111	2008	180	430	69.01	90.6	0.441	343.2	13.8	12.59
111	2008	180	445	68.88	90.9	0.084	269.9	2.067	12.59
111	2008	180	500	68.73	91.2	0.009	336.9	0.007	12.58
111	2008	180	515	68.47	91.4	na	na	na	12.57
111	2008	180	530	68.23	91.8	na	na	na	12.57
111	2008	180	545	68.33	92.1	na	na	na	12.57
111	2008	180	600	68.58	92.4	0.993	254.8	9.92	12.58
111	2008	180	615	69.19	92.2	0.255	294.6	20.08	12.74
111	2008	180	630	69.78	91.4	2.342	332.7	23.64	13.32
111	2008	180	645	70.4	90.3	2.037	349.2	22.25	13.38
111	2008	180	700	71.1	88.5	2.271	329.8	25.78	13.37
111	2008	180	715	71.6	86	3.134	345.3	21.34	13.36
111	2008	180	730	72.5	83.5	2.577	352.5	30.86	13.35
111	2008	180	745	73.2	82.8	3.138	351.4	33.69	13.35
111	2008	180	800	74.1	79.9	2.907	351.4	26.34	13.32
111	2008	180	815	74.6	79.3	3.17	359.6	34.2	13.32
111	2008	180	830	75	77.9	2.127	5.976	27.42	13.32
111	2008	180	845	76.7	73	2.144	61.17	47.48	13.3
111	2008	180	900	78.3	69.03	2.026	57.43	54.52	13.29
111	2008	180	915	80.6	64.64	1.16	76.1	60.93	13.26
111	2008	180	930	81.6	63.54	1.489	207.7	68.73	13.25
111	2008	180	945	81.1	69.45	3.587	295.5	40.03	13.24
111	2008	180	1000	78.9	73.3	5.721	331.3	33.27	13.24
111	2008	180	1015	78.6	70.2	4.115	322	37.04	13.24
111	2008	180	1030	80.4	65.94	3.511	333.5	37.69	13.22
111	2008	180	1045	81.5	63.24	4.675	316.6	34.39	13.22
111	2008	180	1100	82.2	61.36	3.876	330.5	41.22	13.2
111	2008	180	1115	83	59.48	4.347	321.2	39.43	13.2
111	2008	180	1130	82.6	64.53	5.53	314.6	30.27	13.2
111	2008	180	1145	81.7	65.73	5.197	323.4	40.42	13.2
111	2008	180	1200	81.7	64.23	5.07	337.9	31.21	13.19
111	2008	180	1215	82.3	61.46	4.931	330.6	36.43	13.19
111	2008	180	1230	83.4	60.58	4.667	321.4	42.53	13.18
111	2008	180	1245	82.9	63.75	5.312	317.6	46.66	13.18
111	2008	180	1300	83.3	62.45	5.524	324.1	41.91	13.18
111	2008	180	1315	81.3	68.2	5.896	295.7	37.07	13.18
111	2008	180	1330	80.5	70.7	6.237	305.1	39.05	13.18
111	2008	180	1345	80.4	69.61	4.78	311	44.56	13.19
111	2008	180	1400	78.8	75.2	6.229	277.1	23.78	13.19
111	2008	180	1415	78.3	71.9	6.509	288.8	29.32	13.2
111	2008	180	1430	78.4	72.4	6.444	275.7	26.9	13.2
111	2008	180	1445	78.7	69.49	5.896	285.6	25.57	13.2
111	2008	180	1500	79.4	66.84	6.281	274.2	24.62	13.12
111	2008	180	1515	80.5	65.07	5.816	295.8	38.27	13.08
111	2008	180	1530	80	62.43	6.011	295	30.51	13.05
111	2008	180	1545	82.2	57.52	5.385	322.2	38.18	13.04
111	2008	180	1600	80.6	68.42	5.669	305.6	34.25	12.97
111	2008	180	1615	78.2	71.8	5.671	306.2	32.68	13.13
111	2008	180	1630	78.5	71.2	4.879	323.8	34.03	13.23
111	2008	180	1645	78.2	69.59	4.871	317.6	33.05	13.24
111	2008	180	1700	78.9	69.42	4.641	328.1	41.11	13.24
111	2008	180	1715	78.3	72	5.056	330	41.35	13.24
111	2008	180	1730	78.8	69.72	6.303	327	37.58	13.25
111	2008	180	1745	78.3	73.5	6.877	325.8	27.94	13.06
111	2008	180	1800	78	75.6	5.852	333.4	35.6	12.9
111	2008	180	1815	76.3	79.2	4.653	328.4	32.94	12.84

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	180	1830	75.9	80.1	4.373	329.4	33.19	12.81
111	2008	180	1845	75.5	81.1	4.133	324.7	34.99	12.79
111	2008	180	1900	75.2	82.4	4.655	328	27.62	12.78
111	2008	180	1915	74.6	83.7	5.522	355.2	30.08	12.77
111	2008	180	1930	74.4	83	4.482	349.4	25.08	12.77
111	2008	180	1945	74.5	82.6	2.473	333	36.91	12.76
111	2008	180	2000	74.7	82.7	1.166	302.1	26.16	12.76
111	2008	180	2015	74.8	85.6	2.537	285.5	29.43	12.75
111	2008	180	2030	74	86.9	2.905	304	36.24	12.74
111	2008	180	2045	73.5	87.1	1.897	330	32.52	12.74
111	2008	180	2100	73.4	86.8	0.868	326.4	22.57	12.74
111	2008	180	2115	73.4	86.7	0.741	322.8	14.81	12.73
111	2008	180	2130	73.5	85.9	0.763	287.8	16.58	12.73
111	2008	180	2145	73.6	86	0.404	313.3	14.6	12.72
111	2008	180	2200	73.5	86.2	1.08	296.1	19.14	12.72
111	2008	180	2215	73.4	86.7	1.208	295.9	19.5	12.71
111	2008	180	2230	73.2	87.3	1.299	313.2	22.79	12.71
111	2008	180	2245	73.2	87.6	0.485	303.6	18.19	12.7
111	2008	180	2300	73.2	87.5	1.778	315.1	22.51	12.7
111	2008	180	2315	73.2	87.3	1.996	301.2	29.73	12.7
111	2008	180	2330	73.2	87.7	1.707	293.1	24.55	12.69
111	2008	180	2345	72.9	88.3	1.937	315.3	23.58	12.68
111	2008	180	2400	72.6	88.7	1.839	309.1	26.09	12.68
111	2008	181	15	72.5	89	1.35	296.6	23.9	12.68
111	2008	181	30	72.3	89.2	0.723	316.5	18.34	12.67
111	2008	181	45	72.3	89.3	0.042	91.3	0.179	12.67
111	2008	181	100	72.1	89.5	0.055	25.5	3.71	12.67
111	2008	181	115	72.1	89.7	0.273	137.6	8.32	12.65
111	2008	181	130	72.3	89	0.695	278.1	20.23	12.65
111	2008	181	145	72.5	88.7	0.816	308.4	23.06	12.65
111	2008	181	200	72.9	85.2	2.578	319.8	30.6	12.64
111	2008	181	215	73.8	82.6	2.145	312.3	28.56	12.64
111	2008	181	230	73.9	81.7	2.41	307.2	32.2	12.64
111	2008	181	245	73.9	81.1	3.698	324.8	33.68	12.63
111	2008	181	300	74	81.6	4.546	338.2	32.03	12.63
111	2008	181	315	73.7	82.3	4.649	337	29.72	12.63
111	2008	181	330	73.4	84	4.567	341.3	26.92	12.62
111	2008	181	345	73	84.6	4.256	334.7	28.79	12.61
111	2008	181	400	72.8	85	3.52	343.6	26.68	12.6
111	2008	181	415	72.9	84.6	4.013	356.1	28.04	12.6
111	2008	181	430	72.9	84.4	3.14	349.5	20.94	12.6
111	2008	181	445	73.2	83.9	4.319	350.7	27.57	12.6
111	2008	181	500	73.4	83.2	3.96	348	32.35	12.59
111	2008	181	515	73.4	81.5	3.656	349.1	25.94	12.58
111	2008	181	530	73.6	80.2	2.959	356.5	28.32	12.59
111	2008	181	545	73.5	80.2	2.403	355.8	24.53	12.59
111	2008	181	600	73.4	80.4	1.908	328	28.12	12.67
111	2008	181	615	73.8	80	3.187	333.8	20.92	13.11
111	2008	181	630	74.2	80.3	2.988	349.2	26.29	13.22
111	2008	181	645	74.4	79.2	3.622	348.4	24.82	13.32
111	2008	181	700	74.9	77	4.647	359.9	26.03	13.31
111	2008	181	715	75.9	73.7	3.795	5.231	24.63	13.3
111	2008	181	730	77.1	70.2	3.517	350.9	26.96	13.3
111	2008	181	745	77.6	67.79	3.438	346.9	29.42	13.26
111	2008	181	800	77.4	68.35	4.825	347.3	21.28	13.28
111	2008	181	815	78	64.87	5.602	359.2	23.75	13.27
111	2008	181	830	78.9	64.54	4.742	355.7	27.44	13.26
111	2008	181	845	77.9	67.51	4.424	353.5	31.38	13.26
111	2008	181	900	77.4	67.55	3.188	349.4	26.41	13.27
111	2008	181	915	77.7	67.05	4.287	348.6	23.76	13.27

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	181	930	79.9	63.9	3.755	358	30.98	13.25
111	2008	181	945	81.3	59.56	3.42	334.6	25.75	13.24
111	2008	181	1000	82.3	60.33	3.585	345.8	22.98	13.23
111	2008	181	1015	82.7	59.73	4.268	332.1	33.49	13.22
111	2008	181	1030	83.3	58.89	4.033	315.8	35.45	13.21
111	2008	181	1045	84.2	57.04	3.581	322.7	35.07	13.2
111	2008	181	1100	85.2	55.13	3.571	309.4	44.9	13.19
111	2008	181	1115	85.6	50.72	3.862	323.2	38.12	13.18
111	2008	181	1130	86.6	43.77	4.369	332.9	36.3	13.17
111	2008	181	1145	87.7	39.63	3.859	324.1	34.79	13.17
111	2008	181	1200	87.4	53.12	5.113	310	37.53	13.16
111	2008	181	1215	83.8	59.04	5.107	292	43.87	13.16
111	2008	181	1230	83.6	53.66	5.105	277.2	35.29	13.17
111	2008	181	1245	83.8	53.56	6.068	283	29.15	13.17
111	2008	181	1300	84.1	54.43	5.497	316.1	35.91	13.18
111	2008	181	1315	83.6	54.63	6.072	296.1	36.29	13.17
111	2008	181	1330	82.7	54.86	6.753	306.1	41.34	13.17
111	2008	181	1345	83.3	59.91	6.73	293.1	34.87	13.18
111	2008	181	1400	81.8	65.69	7.81	292	32.59	13.18
111	2008	181	1415	80.8	64.36	6.168	318.5	42.32	13.18
111	2008	181	1430	81	61.93	5.322	307.2	38.62	13.19
111	2008	181	1445	81.4	64.81	5.644	305.2	42.01	13.19
111	2008	181	1500	81.9	64.54	4.754	321.4	44.08	13.2
111	2008	181	1515	81.3	65.74	5.542	283.8	29.47	13.2
111	2008	181	1530	81.3	64.84	5.562	314.5	35.63	13.2
111	2008	181	1545	80.1	73.5	6.565	264.6	22.08	13.1
111	2008	181	1600	78.5	77.1	8.02	275.9	31.67	13.02
111	2008	181	1615	77.8	79.3	7.03	294.9	38.81	13.1
111	2008	181	1630	76.6	81.4	6.658	295.2	32.86	12.94
111	2008	181	1645	75.6	84.3	6.65	295.8	34.26	12.85
111	2008	181	1700	75.3	85.5	5.401	306.6	33.58	12.82
111	2008	181	1715	74.9	86.7	4.313	308.1	32.9	12.8
111	2008	181	1730	75	88	4.567	322.2	40.29	12.78
111	2008	181	1745	74.9	88.9	4.649	309.5	30.43	12.78
111	2008	181	1800	74.8	88.3	4.434	318.5	37.51	12.77
111	2008	181	1815	74.7	87.7	4.776	307.1	41.19	12.76
111	2008	181	1830	74.6	87.2	4.46	317.8	36.89	12.76
111	2008	181	1845	74.7	86.8	4.966	324.7	27.76	12.76
111	2008	181	1900	75.1	86.3	4.849	332.7	42.75	12.76
111	2008	181	1915	74.9	86.5	4.35	326.4	40.98	12.74
111	2008	181	1930	74.5	87.1	4.45	325.5	38.19	12.73
111	2008	181	1945	74.2	87.2	5.189	339.9	34.91	12.74
111	2008	181	2000	74.1	87.5	6.402	334.9	33.77	12.74
111	2008	181	2015	73.9	87.6	6.348	342.3	31.32	12.72
111	2008	181	2030	73.9	87.4	5.155	350.2	35.89	12.73
111	2008	181	2045	74	86.9	6.053	343.8	34.76	12.72
111	2008	181	2100	73.9	86.9	6.513	331.1	38.22	12.72
111	2008	181	2115	73.8	86.3	5.862	346.3	33.7	12.71
111	2008	181	2130	73.7	86.4	6.624	342.7	29.88	12.7
111	2008	181	2145	73.4	86.4	6.1	344.8	29.92	12.7
111	2008	181	2200	73.3	86.5	6.702	340.5	29.84	12.7
111	2008	181	2215	73.2	86.3	6.291	347.2	30.22	12.69
111	2008	181	2230	73.2	86.4	6.42	333.9	31.27	12.69
111	2008	181	2245	73.3	86	6.607	339.3	29.38	12.69
111	2008	181	2300	73.3	85.8	5.997	343.7	26.48	12.68
111	2008	181	2315	73.1	86.1	5.747	339.4	25.86	12.67
111	2008	181	2330	73	85.8	6.082	337	29.73	12.67
111	2008	181	2345	73	85.4	5.973	339	29.3	12.66
111	2008	181	2400	73	85.8	5.097	335.4	33.01	12.65
111	2008	182	15	73	85.9	5.276	339.9	27.13	12.66

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	182	30	72.9	86.1	5.068	335.3	31.25	12.65
111	2008	182	45	72.8	86.2	5.05	340.1	28.26	12.65
111	2008	182	100	72.6	86.6	4.621	341	28.07	12.65
111	2008	182	115	72.4	87.3	4.343	342	24.46	12.64
111	2008	182	130	72.1	88.1	2.935	338.9	27.34	12.63
111	2008	182	145	71.8	88.8	3.954	332.9	23.84	12.63
111	2008	182	200	71.8	88.3	5.334	339.9	38.47	12.62
111	2008	182	215	72	87.7	5.08	339.6	33.11	12.62
111	2008	182	230	72.2	86.9	6.323	345.2	33.09	12.61
111	2008	182	245	72.3	86.5	7.63	348.7	26.9	12.61
111	2008	182	300	72.1	85.6	7.73	353.5	27.01	12.6
111	2008	182	315	71.6	88	10.57	350.5	27.8	12.6
111	2008	182	330	69.7	89.7	5.292	350.6	26.87	12.59
111	2008	182	345	69.38	90.3	2.907	346.8	32.99	12.59
111	2008	182	400	68.96	90.5	1.895	61.59	31.61	12.59
111	2008	182	415	68.61	91.1	0.929	53.96	24.06	12.58
111	2008	182	430	68.57	91.4	1.438	305.3	52.13	12.57
111	2008	182	445	68.69	91.7	0.895	334.1	22.63	12.57
111	2008	182	500	68.6	91.8	0.779	316.2	22.75	12.57
111	2008	182	515	68.63	92.3	1.196	315.5	41.19	12.57
111	2008	182	530	68.92	92.3	2.291	333.3	32.41	12.56
111	2008	182	545	69.06	92.4	3.636	341	22.11	12.57
111	2008	182	600	69.36	92.4	3.211	354.4	22.58	12.57
111	2008	182	615	69.66	92.4	3.626	355.8	23.45	12.57
111	2008	182	630	69.85	92.3	3.152	358.7	30.97	12.57
111	2008	182	645	70.1	91.5	3.12	358.8	25.93	12.66
111	2008	182	700	70.2	90.8	3.853	348	33.25	12.85
111	2008	182	715	70.4	90.2	4.198	354.4	26.1	12.79
111	2008	182	730	70.3	89.2	5.536	351.4	22.24	12.84
111	2008	182	745	70.8	86.6	4.77	7.85	26.29	13.35
111	2008	182	800	72.3	82.5	4.839	7.7	31.54	13.34
111	2008	182	815	73.8	77.1	5.538	12.68	29.73	13.32
111	2008	182	830	75.1	72.2	4.135	14.56	29.32	13.3
111	2008	182	845	77.1	68.24	3.634	26.87	34.17	13.29
111	2008	182	900	77.1	67.69	4.25	7.07	26.57	13.27
111	2008	182	915	78.1	66.68	4.754	358.7	32.13	13.26
111	2008	182	930	77.3	67.55	5.256	349.8	24.49	13.26
111	2008	182	945	77	68.72	5.36	343.7	30.12	13.26
111	2008	182	1000	77.7	64.61	5.491	355.2	26.07	13.25
111	2008	182	1015	79.5	61.97	4.887	358.3	30.69	13.24
111	2008	182	1030	79.9	57.62	5.107	10.18	34.71	13.22
111	2008	182	1045	80.8	56.92	4.879	351.2	26.51	13.21
111	2008	182	1100	81.8	56.45	5.379	335	30.06	13.2
111	2008	182	1115	81.7	56.94	6.68	342	27.71	13.2
111	2008	182	1130	81	55.64	7.23	343.1	29.35	13.2
111	2008	182	1145	80.9	59.22	6.811	336.2	30.71	13.2
111	2008	182	1200	79.7	60.79	6.952	335.2	21.93	13.2
111	2008	182	1215	79.4	55.48	6.847	331	25.89	13.2
111	2008	182	1230	79.5	60.33	6.72	346.4	30.49	13.2
111	2008	182	1245	79.1	55.95	7.41	342.3	30.68	13.21
111	2008	182	1300	80.2	57.75	6.962	353	30.93	13.2
111	2008	182	1315	80.9	56.65	5.846	335.1	28.55	13.2
111	2008	182	1330	81	58.76	7.33	344.1	31.74	13.2
111	2008	182	1345	81.4	57.29	6.94	336.2	29	13.19
111	2008	182	1400	81.5	56.99	7.25	337.2	30.17	13.19
111	2008	182	1415	82	55.68	7.4	337.3	28.57	13.19
111	2008	182	1430	82.7	55.15	6.622	325.9	29.2	13.19
111	2008	182	1445	81.7	53.78	7.38	340.3	29.83	13.14
111	2008	182	1500	82.1	53.61	6.65	352.5	23.69	13.03
111	2008	182	1515	82.3	51.47	7.57	341.1	33.27	12.99

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	182	1530	82.3	53.11	7.11	332.4	36.44	12.97
111	2008	182	1545	82.6	54.01	6.795	334.3	29.72	12.94
111	2008	182	1600	82	55.11	6.922	335.8	27.79	12.92
111	2008	182	1615	80.5	61.66	7.14	321	37.32	12.9
111	2008	182	1630	79	67.58	7.02	312.7	39.25	12.89
111	2008	182	1645	78.1	65.01	7.11	314.9	36.37	12.88
111	2008	182	1700	79.4	63.2	5.284	322.7	38.22	12.86
111	2008	182	1715	79.3	63.74	5.775	315.6	32.28	12.84
111	2008	182	1730	78.3	66.64	7.32	325.9	35.1	12.83
111	2008	182	1745	77.9	66.34	6.571	344	31.51	12.82
111	2008	182	1800	77.8	65.41	6.632	336.6	27.92	12.81
111	2008	182	1815	77.7	66.75	6.285	336.1	31.67	12.8
111	2008	182	1830	77.1	69.22	6.599	340.6	31.11	12.78
111	2008	182	1845	76.8	69.59	5.437	339.4	32.7	12.78
111	2008	182	1900	75.9	72.6	5.578	343	31.44	12.77
111	2008	182	1915	74.9	75.2	5.362	338.1	27.72	12.76
111	2008	182	1930	74.2	76.8	4.748	341.1	31.33	12.76
111	2008	182	1945	73.7	77.3	6.356	339.7	23.13	12.74
111	2008	182	2000	73.5	78.1	4.347	350.5	30.31	12.74
111	2008	182	2015	73.4	78.3	4.27	350.5	23.24	12.73
111	2008	182	2030	73.2	77.7	4.661	348.6	27.11	12.72
111	2008	182	2045	73.1	78	3.233	17.85	25.71	12.71
111	2008	182	2100	73	75.8	4.418	344.2	27.36	12.71
111	2008	182	2115	72.8	76.1	3.668	346.9	26.93	12.7
111	2008	182	2130	72.5	77.8	4.176	337.1	26.63	12.69
111	2008	182	2145	72.3	79.6	3.436	341.1	29.5	12.68
111	2008	182	2200	72	82	4.303	330.7	33.1	12.69
111	2008	182	2215	71.8	83.6	4.44	325.6	28.04	12.68
111	2008	182	2230	71.7	83.9	4.313	324.6	36.14	12.67
111	2008	182	2245	71.5	84.1	5.238	333.9	36.76	12.67
111	2008	182	2300	71.4	84.7	4.716	338.6	25.2	12.66
111	2008	182	2315	71.4	84.9	4.341	340.2	25.71	12.65
111	2008	182	2330	71.5	84.4	4.196	345.5	28.01	12.65
111	2008	182	2345	71.6	84	3.839	10.25	25.59	12.64
111	2008	182	2400	71.7	83.8	2.313	4.367	28.7	12.64
111	2008	183	15	71.7	83.6	2.396	346.2	26.25	12.63
111	2008	183	30	71.9	82.1	2.88	359.5	26.82	12.63
111	2008	183	45	72	82.2	2.198	8.88	31.3	12.63
111	2008	183	100	71.9	82.2	2.191	338.1	20.9	12.63
111	2008	183	115	71.7	82.2	2.135	351.3	21.87	12.62
111	2008	183	130	71.5	82.8	0.802	48.77	21.81	12.61
111	2008	183	145	71.4	81.6	1.433	357.7	18.76	12.61
111	2008	183	200	71.5	81.2	0.246	14.03	8.87	12.6
111	2008	183	215	71.3	81.7	0.559	350.8	23.94	12.6
111	2008	183	230	70.6	83	0.283	336.9	6.119	12.59
111	2008	183	245	69.93	84.5	na	na	na	12.59
111	2008	183	300	69.46	85.2	0.009	351.8	0	12.58
111	2008	183	315	68.83	86.6	0.018	16.18	0.632	12.57
111	2008	183	330	68.31	87.8	0.194	4.279	13.77	12.57
111	2008	183	345	67.98	88.6	0.009	327.1	0	12.56
111	2008	183	400	67.66	89.2	na	na	na	12.56
111	2008	183	415	67.47	89.6	na	na	na	12.55
111	2008	183	430	67.29	89.7	0.253	27.54	8.45	12.55
111	2008	183	445	67.28	89.3	0.044	27.21	3.362	12.55
111	2008	183	500	67.1	89.4	na	na	na	12.55
111	2008	183	515	66.73	89.9	na	na	na	12.55
111	2008	183	530	66.53	90.2	na	na	na	12.55
111	2008	183	545	66.56	90.6	na	na	na	12.54
111	2008	183	600	66.69	90.5	na	na	na	12.57
111	2008	183	615	67.11	90.5	na	na	na	12.61

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	183	630	68.62	87.3	na	na	na	13.4
111	2008	183	645	70.3	82.8	0.19	45.68	14.99	13.39
111	2008	183	700	72.3	77.2	0.645	340.8	17.15	13.37
111	2008	183	715	73.3	75.1	2.782	349.7	25.27	13.35
111	2008	183	730	74.3	72	2.561	347.7	25.35	13.34
111	2008	183	745	75.1	74.6	3.119	327	39.01	13.33
111	2008	183	800	75.2	75.4	3.444	320.9	33.64	13.31
111	2008	183	815	75.3	74.3	3.46	333.6	25.22	13.3
111	2008	183	830	75.6	71.2	3.999	334.9	28.3	13.3
111	2008	183	845	76.2	70.8	4.178	333.9	27.36	13.29
111	2008	183	900	77.2	64.94	3.108	356.7	32.83	13.27
111	2008	183	915	78.6	61.37	3.489	342.3	25.74	13.26
111	2008	183	930	79.2	62.17	3.577	318.8	35.33	13.24
111	2008	183	945	79.6	61.03	3.789	318.4	39.02	13.24
111	2008	183	1000	79.3	61.3	4.377	287.9	29.09	13.24
111	2008	183	1015	79.4	57.92	4.661	319.1	30.09	13.23
111	2008	183	1030	80	60.13	5.312	319.9	37.84	13.22
111	2008	183	1045	80.3	60.06	4.951	333.3	36.44	13.22
111	2008	183	1100	80.2	56.95	5.918	329.5	32.35	13.22
111	2008	183	1115	80.4	56.48	5.59	326.4	32.8	13.21
111	2008	183	1130	80.8	55.75	5.072	306.4	38.3	13.21
111	2008	183	1145	79.6	58.02	6.064	285.7	31.83	13.2
111	2008	183	1200	79.8	61.1	6.386	293.7	34.61	13.2
111	2008	183	1215	79.5	58.79	6.747	294.9	35.81	13.2
111	2008	183	1230	80.1	56.72	6.035	301.7	35.44	13.21
111	2008	183	1245	80.5	59.89	6.221	295.4	35.68	13.2
111	2008	183	1300	79.7	59.86	5.947	295.6	37.3	13.2
111	2008	183	1315	80.5	58.82	5.844	309.1	37.03	13.2
111	2008	183	1330	80.4	54.21	6.815	302.5	33.36	13.2
111	2008	183	1345	81.3	57.42	6.215	314.6	36.22	13.2
111	2008	183	1400	80.6	52.61	7.04	314.3	36.64	13.2
111	2008	183	1415	80.7	57.82	7.14	312.6	34.26	13.2
111	2008	183	1430	80.3	57.49	6.529	303.1	32.66	13.2
111	2008	183	1445	80	58.42	7.06	289.4	37.24	13.17
111	2008	183	1500	80.1	59.39	6.654	300.7	38.86	13.08
111	2008	183	1515	80	58.96	5.894	297.2	34.85	13.08
111	2008	183	1530	80.1	62.7	5.949	290	37.1	13.12
111	2008	183	1545	80.1	57.95	5.683	314.8	33.37	13.06
111	2008	183	1600	79.9	59.73	6.261	310.1	33.84	13.06
111	2008	183	1615	79.3	61.4	6.513	302.7	33.47	13.08
111	2008	183	1630	79	63	6.682	300.5	30.37	13.14
111	2008	183	1645	79.4	64.1	6.124	298.2	36.04	13.22
111	2008	183	1700	78.8	62.33	6.579	315.1	36.15	13.08
111	2008	183	1715	78.7	65.04	6.835	311	35.51	12.99
111	2008	183	1730	78	67.31	6.591	301.7	38.21	12.97
111	2008	183	1745	77.5	70.1	6.863	307.9	34.54	13.24
111	2008	183	1800	77.1	72	5.489	329.8	41.16	13.05
111	2008	183	1815	75.6	75.5	6.551	321.8	39.61	12.98
111	2008	183	1830	75	74.2	6.464	320.2	30.66	12.92
111	2008	183	1845	76	68.03	5.286	331.9	34.23	12.91
111	2008	183	1900	76.3	69.04	4.704	332.8	29.3	12.86
111	2008	183	1915	74.9	72.8	4.436	328.5	35.64	12.8
111	2008	183	1930	74.2	73.7	4.23	346.7	28.94	12.78
111	2008	183	1945	73.8	73.5	4.806	351.3	28.09	12.77
111	2008	183	2000	73.4	74.4	3.277	353.8	27.49	12.76
111	2008	183	2015	73.2	75.2	1.374	357	20.2	12.75
111	2008	183	2030	72.8	75.8	1.002	37.74	20.82	12.75
111	2008	183	2045	72.4	76.2	1.33	35.26	50.07	12.74
111	2008	183	2100	71.7	76.3	0.211	76.6	13	12.73
111	2008	183	2115	71.4	74.5	0.489	65.84	19.69	12.72

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	183	2130	71.6	72.6	0.718	312.8	32.53	12.72
111	2008	183	2145	71.7	71.6	0.613	80.3	30.15	12.71
111	2008	183	2200	71.6	72.3	0.533	285.4	12.19	12.7
111	2008	183	2215	71.1	74	0.158	62.03	18.7	12.71
111	2008	183	2230	70.6	75.2	0.018	254.1	0.031	12.7
111	2008	183	2245	70.3	76	0.426	310.7	15.48	12.69
111	2008	183	2300	70.6	75.7	1.786	303.6	24.09	12.69
111	2008	183	2315	70.7	77.1	0.329	353.7	23.58	12.69
111	2008	183	2330	70.2	78.8	0.537	298	11	12.68
111	2008	183	2345	70.2	80.3	1.176	290.1	26.61	12.68
111	2008	183	2400	70.4	80.5	0.968	295.9	33.83	12.67
111	2008	184	15	70.3	81.7	1.047	301.2	21.32	12.68
111	2008	184	30	70.2	82.8	1.531	322.3	23.5	12.67
111	2008	184	45	70.1	83.6	1.377	272.1	27.09	12.66
111	2008	184	100	70.1	84.4	1.841	277.2	19.01	12.66
111	2008	184	115	70.2	85.2	3.579	271.9	20.64	12.65
111	2008	184	130	70.1	86.1	1.855	281.5	28.55	12.65
111	2008	184	145	70.2	86.7	2.735	257.7	17.61	12.65
111	2008	184	200	70	87.3	1.012	302	24.27	12.65
111	2008	184	215	69.53	88.4	0.741	86.8	15.3	12.65
111	2008	184	230	69.09	88.9	0.225	111.2	8.47	12.64
111	2008	184	245	68.72	89.6	0.094	77.1	5.487	12.63
111	2008	184	300	68.39	90.1	1.036	128.6	16.1	12.63
111	2008	184	315	68.1	90.2	0.646	109.9	20.1	12.63
111	2008	184	330	67.7	90.6	0.479	127.5	15.23	12.63
111	2008	184	345	67.47	90.6	0.276	110.4	17.46	12.61
111	2008	184	400	67.24	90.6	0.395	114.9	21.54	12.61
111	2008	184	415	66.92	91	0.849	113	27.58	12.61
111	2008	184	430	66.68	91	0.738	61.74	32.37	12.6
111	2008	184	445	66.38	91.2	0.187	78.9	10.82	12.6
111	2008	184	500	66.19	91.5	0.241	155.6	9.63	12.59
111	2008	184	515	66.07	91.7	0.598	82.1	17.57	12.58
111	2008	184	530	66	91.7	0.029	102.8	2.045	12.58
111	2008	184	545	66	92	0.46	44.89	16.39	12.57
111	2008	184	600	66.3	91.8	1.536	64.31	29.87	12.57
111	2008	184	615	66.7	91.1	1.393	52.49	25.6	12.56
111	2008	184	630	66.97	90.3	1.819	58.8	28.52	12.57
111	2008	184	645	67.17	89.5	1.48	71.7	27.68	12.57
111	2008	184	700	68.29	88	1.775	37.57	32.13	12.98
111	2008	184	715	70.5	83.3	2.004	75.9	39.16	13.38
111	2008	184	730	71.8	80.1	2.802	30.9	27.75	13.37
111	2008	184	745	72.6	75.9	2.644	39.57	32.78	13.35
111	2008	184	800	74.3	72.6	2.273	45.58	38.07	13.33
111	2008	184	815	75.4	71.3	2.32	32.96	21.91	13.31
111	2008	184	830	76	68.7	2.737	35.3	39.92	13.3
111	2008	184	845	76.7	63.78	2.866	26.6	40.04	13.28
111	2008	184	900	78.7	59.19	2.937	36.89	42.53	13.26
111	2008	184	915	78	58.66	4.736	6.71	30.02	13.26
111	2008	184	930	78.6	57.92	4.75	25	35.11	13.25
111	2008	184	945	79.1	55.98	4.43	28.08	30.44	13.24
111	2008	184	1000	79.7	55.61	4.907	20.58	37.46	13.24
111	2008	184	1015	80.1	56.25	4.974	32.89	37.8	13.22
111	2008	184	1030	80.8	51.87	4.075	53.39	48.99	13.22
111	2008	184	1045	81.5	52.97	4.154	56.77	39.19	13.21
111	2008	184	1100	80.5	54.48	3.767	54.51	44.14	13.21
111	2008	184	1115	79	58.22	3.326	62.84	35.4	13.14
111	2008	184	1130	78.1	57.89	2.8	64.52	46.77	13.17
111	2008	184	1145	77.6	61.1	2.49	88.5	49.26	12.97
111	2008	184	1200	74.5	81.8	2.911	118.8	72.5	12.9
111	2008	184	1215	70.8	77.7	1.881	192	20.24	12.98

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	184	1230	72	77	1.13	192.7	23.32	13.29
111	2008	184	1245	75	69.24	1.021	254.9	34.01	13.27
111	2008	184	1300	77.4	61.65	1.49	77.6	61.76	13.26
111	2008	184	1315	79.7	57.6	2.252	13.16	66.5	13.22
111	2008	184	1330	77.1	67.82	4.494	289.3	27.39	13.13
111	2008	184	1345	75.5	68.19	3.833	290.3	30.28	13.19
111	2008	184	1400	76.3	68.12	3.326	329.5	34.52	13.04
111	2008	184	1415	77.8	58.54	3.39	303.8	44.01	13.26
111	2008	184	1430	80	53.12	5.278	323.8	42.67	13.17
111	2008	184	1445	79.7	52.68	6.055	322.5	32.46	13.24
111	2008	184	1500	80.8	53.54	5.943	322.4	44.2	13.21
111	2008	184	1515	80	50.1	5.57	308.5	37.13	13.24
111	2008	184	1530	81.4	41.95	7.21	320.7	31.65	13.24
111	2008	184	1545	81.7	47.79	7.42	340	32.61	13.08
111	2008	184	1600	80	49.97	6.992	338.6	24.87	13.05
111	2008	184	1615	80.4	53.18	6.644	332.6	34.57	13.05
111	2008	184	1630	79.7	56.28	6.936	342.4	26.87	13.13
111	2008	184	1645	78.1	60.93	6.98	337.1	27.04	13.04
111	2008	184	1700	78.5	56.02	6.642	338.4	30.8	12.98
111	2008	184	1715	78.1	56.89	8.43	338.8	35.43	12.92
111	2008	184	1730	77.6	58.52	9.4	339.1	23.15	12.89
111	2008	184	1745	77.4	58.86	7.91	340.3	31.16	12.86
111	2008	184	1800	77.4	58.32	7.22	338.3	35.19	12.83
111	2008	184	1815	77.3	57.86	6.877	333.4	32.02	12.81
111	2008	184	1830	76.8	60.54	6.94	337	27.03	12.8
111	2008	184	1845	76.3	61.85	6.65	338.4	34.67	12.78
111	2008	184	1900	75.8	63.12	6.732	342.4	34.05	12.78
111	2008	184	1915	75	63.76	7.06	337.7	30.5	12.77
111	2008	184	1930	74.5	65.56	6.263	338.6	30.43	12.77
111	2008	184	1945	73.7	68.57	6.015	331.5	32.2	12.76
111	2008	184	2000	73	70.8	6.182	337.7	27.91	12.75
111	2008	184	2015	72.4	73.2	6.64	336.8	33.84	12.74
111	2008	184	2030	72	75.4	6.668	337.9	30.06	12.74
111	2008	184	2045	71.7	77	4.76	341.7	33.59	12.73
111	2008	184	2100	71.4	78.1	5.683	342.8	25	12.72
111	2008	184	2115	71.1	78.5	4.333	341	30.83	12.71
111	2008	184	2130	71	78.7	4.029	340	23.43	12.71
111	2008	184	2145	70.9	79.3	2.722	337	20.34	12.71
111	2008	184	2200	70.7	79.7	2.089	337.3	25.38	12.69
111	2008	184	2215	70.6	79.9	1.86	330.5	25.26	12.68
111	2008	184	2230	70.5	79.8	1.845	337.4	17.65	12.68
111	2008	184	2245	70.9	76.5	3.894	350.4	22.39	12.67
111	2008	184	2300	71.4	75.2	3.485	347.5	20.59	12.67
111	2008	184	2315	71.7	72.8	4.331	342.6	24.63	12.66
111	2008	184	2330	72	72.3	4.667	347.5	29.61	12.66
111	2008	184	2345	72.1	70.6	4.675	356.2	27.76	12.66
111	2008	184	2400	72	68.06	4.758	357	27.97	12.65
111	2008	185	15	72	68.7	4.885	356.5	27.74	12.65
111	2008	185	30	71.8	68.06	5.596	350.7	27.45	12.65
111	2008	185	45	71.5	67.29	4.82	354.1	26.71	12.64
111	2008	185	100	71.3	67.56	5.024	353.1	26.8	12.64
111	2008	185	115	71.1	67.09	4.482	355.9	28.33	12.63
111	2008	185	130	70.7	66.99	3.047	12.12	24.41	12.63
111	2008	185	145	70.5	64.88	4.003	5.442	30.92	12.61
111	2008	185	200	70.6	63.85	3.729	5.461	29.42	12.61
111	2008	185	215	70.5	63.55	3.575	11.21	25.9	12.61
111	2008	185	230	70.4	63.41	3.606	4.449	26.31	12.6
111	2008	185	245	69.98	64.95	2.086	359.2	26.36	12.59
111	2008	185	300	69.41	65.95	2.711	356.5	23.05	12.59
111	2008	185	315	69.42	64.45	3.594	7.3	26.66	12.58

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	185	330	69.64	65.18	3.134	359.7	28.79	12.58
111	2008	185	345	69.09	68.16	2.548	343.9	20.14	12.57
111	2008	185	400	68.67	70	2.614	0.912	26.68	12.57
111	2008	185	415	68.55	69.7	3.293	351.5	28.64	12.56
111	2008	185	430	68.8	69.97	3.926	349.8	24.72	12.56
111	2008	185	445	68.77	69.5	4.196	352.4	27.99	12.55
111	2008	185	500	68.58	70.1	3.549	351.1	26.85	12.55
111	2008	185	515	68.71	70.3	4.363	356.6	24.93	12.55
111	2008	185	530	68.63	71.9	3.172	345.9	26.23	12.55
111	2008	185	545	68.47	73.5	2.661	0.358	25.9	12.55
111	2008	185	600	68.61	74.3	2.559	353.1	25.74	12.62
111	2008	185	615	69.37	74.4	3.201	352.1	31.27	13
111	2008	185	630	70.2	74	4.565	352	27.92	13.39
111	2008	185	645	70.8	75.1	5.038	346.5	27.1	13.38
111	2008	185	700	71.5	76.4	5.745	344.9	27.74	13.37
111	2008	185	715	72.1	76.7	5.661	344.3	29.24	13.35
111	2008	185	730	72.6	77.4	6.376	339	32.18	13.35
111	2008	185	745	73	76.6	5.878	345.2	29.51	13.34
111	2008	185	800	73.2	77	6.777	348.5	26.08	13.33
111	2008	185	815	73.4	75.4	5.761	341.8	33.2	13.32
111	2008	185	830	73.7	73.5	7	349.1	27.17	13.31
111	2008	185	845	74.4	72.9	6.485	337.9	29.76	13.3
111	2008	185	900	75	72.1	6.644	343.1	28.31	13.29
111	2008	185	915	75.1	71.3	6.257	345.6	23.57	13.29
111	2008	185	930	75.9	68.36	6.333	338.3	28.27	13.28
111	2008	185	945	76.1	70.7	6.062	342.6	28.39	13.27
111	2008	185	1000	75.9	67.88	7.14	334.1	28.21	13.26
111	2008	185	1015	76	69.18	7.69	340.6	27.09	13.26
111	2008	185	1030	76.4	66.58	7.56	331.1	27.52	13.26
111	2008	185	1045	77.3	63.8	6.217	345.5	28.95	13.25
111	2008	185	1100	77.2	62.7	7.17	347.7	28.27	13.24
111	2008	185	1115	78.4	61.13	6.382	348.5	26.36	13.24
111	2008	185	1130	79.7	58.59	6.219	336.8	31.93	13.24
111	2008	185	1145	80	55.25	6.593	347.1	26.51	13.22
111	2008	185	1200	80.4	58.39	6.458	340.7	30.38	13.22
111	2008	185	1215	79.9	60.59	7.53	333.1	27.92	13.21
111	2008	185	1230	80.6	58.09	6.553	338.2	32.71	13.22
111	2008	185	1245	80.6	58.26	7.06	338.1	27.76	13.21
111	2008	185	1300	80.5	60.03	8.38	338	24.91	13.21
111	2008	185	1315	79.5	61.8	7.46	336.4	25.89	13.21
111	2008	185	1330	80.2	59.36	8.04	334.3	29.86	13.21
111	2008	185	1345	81.4	56.62	6.444	339.4	26.94	13.2
111	2008	185	1400	81.1	58.62	7.29	336.4	31.81	13.21
111	2008	185	1415	80.7	57.62	7.9	334.4	31.55	13.2
111	2008	185	1430	80.1	59.79	9.26	338.9	30.88	13.2
111	2008	185	1445	79.9	59.12	8.54	339.7	36.03	13.21
111	2008	185	1500	80.5	59.19	7.42	326	34.59	13.21
111	2008	185	1515	80.2	58.72	8.5	341.4	29.08	13.21
111	2008	185	1530	80.7	56.48	7.17	338.4	30.99	13.18
111	2008	185	1545	80.6	58.22	8.26	341.3	36.68	13.18
111	2008	185	1600	80.1	60.59	7.81	336.8	30.67	13.18
111	2008	185	1615	79.8	60.46	7.66	333.1	40.39	13.17
111	2008	185	1630	79.7	61.6	8.1	337.1	32.34	13.18
111	2008	185	1645	79.2	61.66	8.55	334.2	27.74	13.16
111	2008	185	1700	79.2	61.16	7.88	331.9	36.05	13.14
111	2008	185	1715	78.9	63.94	8.6	337.7	31.4	13.07
111	2008	185	1730	77.9	66.91	8.97	335.1	26.82	13.02
111	2008	185	1745	77.4	67.35	7.94	333.6	28.82	12.97
111	2008	185	1800	77.2	67.31	7.44	342.8	33.97	12.92
111	2008	185	1815	76.6	68.08	7.9	342.5	29.64	12.87

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	185	1830	75.9	70.8	7.36	336	26.1	12.84
111	2008	185	1845	75.3	70.7	7.64	340.2	29.24	12.82
111	2008	185	1900	74.9	72.3	7	344.9	30.79	12.78
111	2008	185	1915	74.3	73.1	5.8	6.986	46.23	12.77
111	2008	185	1930	74.8	70	6.424	356.5	44.39	12.77
111	2008	185	1945	74.8	69.34	3.803	18.11	40.56	12.76
111	2008	185	2000	74.6	69.48	4.305	1.059	38.3	12.76
111	2008	185	2015	74.2	70.3	2.519	358.6	28.47	12.76
111	2008	185	2030	73.9	71.4	2.227	332.8	28.53	12.75
111	2008	185	2045	73.4	72.1	2.293	338.2	23.73	12.74
111	2008	185	2100	73	73.7	2.04	331.6	21.79	12.73
111	2008	185	2115	72.7	74.5	1.61	332.9	14.48	12.73
111	2008	185	2130	72.4	75.4	0.568	337.7	10.55	12.73
111	2008	185	2145	72.2	76.8	0.871	334.4	13.89	12.72
111	2008	185	2200	71.8	78.5	0.778	321.3	17.12	12.71
111	2008	185	2215	71.4	79.4	1.943	333.3	21.16	12.71
111	2008	185	2230	71.2	79.6	2.542	333.7	20.9	12.71
111	2008	185	2245	71.1	79.3	2.709	329.8	30.8	12.71
111	2008	185	2300	71.1	80.1	3.253	330.9	21.33	12.7
111	2008	185	2315	71.1	79.7	3.412	337.1	30.07	12.69
111	2008	185	2330	70.9	79.5	3.658	330.4	29.81	12.69
111	2008	185	2345	70.7	79.1	4.348	355.1	26.8	12.69
111	2008	185	2400	70.7	79.1	3.845	5.667	25.99	12.68
111	2008	186	15	70.5	79.5	2.668	334.1	24.11	12.68
111	2008	186	30	70.2	79.8	2.609	331.5	27.07	12.67
111	2008	186	45	69.82	80.7	3.779	338.3	20.46	12.67
111	2008	186	100	69.49	81.7	1.77	10.12	26.19	12.67
111	2008	186	115	68.98	83	0.789	31.2	14.18	12.66
111	2008	186	130	68.54	84.2	0.157	45.24	1.554	12.65
111	2008	186	145	68.17	85.4	0.06	17.39	1.328	12.65
111	2008	186	200	68.09	85.8	0.474	46.49	18.83	12.64
111	2008	186	215	68.45	83.8	0.955	62.23	23.8	12.63
111	2008	186	230	69.14	80.9	1.273	69.76	32.99	12.63
111	2008	186	245	69.52	79.7	0.499	82.7	31.18	12.63
111	2008	186	300	69.88	77.3	0.952	77.6	31.29	12.63
111	2008	186	315	70.1	77.6	0.106	86	13.15	12.62
111	2008	186	330	69.91	78.1	0.009	185.1	0	12.61
111	2008	186	345	69.23	80.2	na	na	na	12.61
111	2008	186	400	68.6	82	na	na	na	12.61
111	2008	186	415	68.07	83.4	0.02	296.2	1.451	12.6
111	2008	186	430	67.78	84.3	0.009	323.4	0	12.59
111	2008	186	445	67.64	85.3	na	na	na	12.59
111	2008	186	500	67.96	84.4	0.754	251.5	9.69	12.57
111	2008	186	515	68.95	81.8	1.951	250.1	15.24	12.57
111	2008	186	530	68.81	83.3	0.62	55.32	46.33	12.57
111	2008	186	545	67.87	85.1	0.04	335.9	0.291	12.57
111	2008	186	600	67.64	86.3	na	na	na	12.56
111	2008	186	615	67.82	86.4	na	na	na	12.55
111	2008	186	630	68.31	86.5	0.374	256.7	10.93	12.55
111	2008	186	645	69.75	82.8	1.262	257.8	14.45	12.55
111	2008	186	700	70.3	83	0.415	0.166	12.89	12.56
111	2008	186	715	70.5	82.8	0.038	91.8	2.552	12.61
111	2008	186	730	71	81.7	0.717	18.22	11.76	12.69
111	2008	186	745	71.6	79.7	0.396	23.72	10.23	12.88
111	2008	186	800	72.5	76.7	1.007	359.3	28.08	13.04
111	2008	186	815	73.5	74	0.791	49.92	29.91	13.34
111	2008	186	830	74.1	72.1	0.088	356.2	7.89	13.33
111	2008	186	845	73.9	72.3	0.378	343.3	4.539	13.23
111	2008	186	900	74	72.9	0.181	354.1	8.8	13.16
111	2008	186	915	74.2	72.8	0.565	34.58	13.79	13.13

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	186	930	74.4	73.1	0.158	43.18	10.86	13.11
111	2008	186	945	74.6	72	0.305	105.6	24.99	13.19
111	2008	186	1000	74.8	73.6	0.968	113.9	34.23	13.25
111	2008	186	1015	74.8	73.8	0.785	157.9	39.43	13.3
111	2008	186	1030	75	70.8	1.157	167.2	38.27	13.32
111	2008	186	1045	75.3	70.9	1.41	183.8	28.75	13.27
111	2008	186	1100	74.9	70.9	2.553	245.2	25.17	13.17
111	2008	186	1115	74.5	75	2.523	299.4	37.59	13.17
111	2008	186	1130	74.9	73.8	0.818	322.9	28.24	13.31
111	2008	186	1145	75.6	72.8	0.018	0.963	0.086	13.32
111	2008	186	1200	75.9	72.3	1.471	351.8	23.08	13.31
111	2008	186	1215	76.2	70.2	1.425	13.45	25.83	13.3
111	2008	186	1230	77.2	68.44	0.885	222.2	60.38	13.29
111	2008	186	1245	77.1	70.4	2.868	258	36.87	13.28
111	2008	186	1300	76.3	71.9	5.26	283.1	33.14	13.26
111	2008	186	1315	75.8	71.8	5.086	285.8	29.02	13.27
111	2008	186	1330	76	68.72	4.957	289.9	35.53	13.27
111	2008	186	1345	75.7	64.38	5.04	270.2	26.06	13.27
111	2008	186	1400	76.3	61.8	4.649	264.4	28.39	13.27
111	2008	186	1415	76.6	61.44	5.52	254.9	19.64	13.26
111	2008	186	1430	76.5	61.37	4.925	260.8	30.03	13.26
111	2008	186	1445	76.7	62.33	5.119	257.4	20.16	13.26
111	2008	186	1500	76.9	63.3	5.552	241.9	21.9	13.26
111	2008	186	1515	77.4	61.93	5.405	245	30.01	13.25
111	2008	186	1530	77.6	61.73	5.123	242.1	26.84	13.24
111	2008	186	1545	78.5	65.88	4.266	245.2	28.81	13.24
111	2008	186	1600	77.7	66.11	6.771	246.3	21.44	13.24
111	2008	186	1615	77.1	66.95	5.997	244.1	20.79	13.25
111	2008	186	1630	77.3	65.14	4.22	255.3	26	13.26
111	2008	186	1645	78.2	67.15	3.99	266.4	32.99	13.26
111	2008	186	1700	77	67.15	5.115	260.6	23.26	13.26
111	2008	186	1715	76.2	69.12	6.561	251.9	18.29	13.27
111	2008	186	1730	75.7	72	6.213	247.1	19.28	13.11
111	2008	186	1745	75	74.8	6.055	248.8	21.16	13.08
111	2008	186	1800	73.9	75.9	6.763	253	18.92	12.98
111	2008	186	1815	72.5	78.8	6.146	247.2	23.46	12.89
111	2008	186	1830	71.9	78.8	4.601	242.5	27.08	12.83
111	2008	186	1845	71.9	77.3	3.084	220.4	36.14	12.8
111	2008	186	1900	72	77.7	1.975	229.2	31.24	12.78
111	2008	186	1915	72.2	76.3	0.955	195.6	20.05	12.78
111	2008	186	1930	72.4	77.6	3.704	206.5	24.76	12.77
111	2008	186	1945	71.8	79.6	3.559	208.1	34.32	12.76
111	2008	186	2000	71.4	79.9	1.852	160.2	35.62	12.76
111	2008	186	2015	71.3	80.6	1.326	148	26.81	12.75
111	2008	186	2030	71.1	80.8	1.184	167.4	33.61	12.75
111	2008	186	2045	71	81.7	1.739	182.3	30.1	12.75
111	2008	186	2100	70.9	80.8	2.867	222.8	22.2	12.74
111	2008	186	2115	70.8	81	2.319	226.5	23.42	12.74
111	2008	186	2130	70.6	81.4	2.433	215.6	25.5	12.73
111	2008	186	2145	70.5	82	1.463	210.5	24.98	12.73
111	2008	186	2200	70.5	82.5	1.145	215	19.17	12.72
111	2008	186	2215	70.5	82.7	1.649	183.7	27.8	12.71
111	2008	186	2230	70.4	83.1	1.775	192.8	34.21	12.71
111	2008	186	2245	70.2	83.7	2.13	215.8	39.13	12.71
111	2008	186	2300	70	84.6	2.185	217	27.84	12.7
111	2008	186	2315	69.92	85.1	2.307	232.7	20.79	12.69
111	2008	186	2330	69.77	85.6	1.708	230	24.87	12.69
111	2008	186	2345	69.87	85.4	2.017	210.3	26.56	12.69
111	2008	186	2400	70	85.4	1.204	204.8	18.51	12.68
111	2008	187	15	70.2	85.2	2.464	203.6	17.97	12.68

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	187	30	70.3	85.6	1.943	218.3	23.71	12.68
111	2008	187	45	70.1	86.1	1.683	247.8	34.49	12.67
111	2008	187	100	69.82	87.4	0.988	302.8	16.44	12.67
111	2008	187	115	69.69	88.4	2.724	299.1	28.29	12.66
111	2008	187	130	69.18	89.8	2.722	258.2	27.91	12.65
111	2008	187	145	68.85	90.4	1.323	294.9	25.51	12.65
111	2008	187	200	68.68	91.1	2.058	262.1	17.08	12.65
111	2008	187	215	68.7	91.4	1.198	250.1	13.5	12.64
111	2008	187	230	68.82	91.5	1.498	239.6	22.62	12.63
111	2008	187	245	68.85	91.4	0.903	237.4	13.98	12.63
111	2008	187	300	68.88	91.4	1.871	266.1	25.11	12.63
111	2008	187	315	68.92	91.2	3.275	257.7	18.49	12.61
111	2008	187	330	69	91.2	2.993	244.1	20.72	12.61
111	2008	187	345	68.92	91.3	2.135	194.3	36	12.61
111	2008	187	400	68.77	91.8	2.015	217.2	24.65	12.6
111	2008	187	415	68.62	92	1.598	168.9	22.26	12.59
111	2008	187	430	68.58	92.3	2.577	179.1	29.72	12.59
111	2008	187	445	68.52	93	2.701	185.4	39.21	12.59
111	2008	187	500	68.67	92.8	2.388	232.8	23.66	12.57
111	2008	187	515	68.8	92.9	0.725	163	14.88	12.57
111	2008	187	530	68.87	93.1	0.931	102.4	29.7	12.57
111	2008	187	545	68.79	93.2	0.68	139	24.77	12.57
111	2008	187	600	68.67	93.2	2.751	124.9	36.09	12.56
111	2008	187	615	68.52	93.3	2.901	139.4	37.22	12.56
111	2008	187	630	68.38	93.3	3.058	140.9	30.9	12.56
111	2008	187	645	68.3	93.4	2.61	174.8	32.36	12.56
111	2008	187	700	68.29	93.2	2.977	194.1	19.48	12.56
111	2008	187	715	68.39	93	3.102	212.4	27.89	12.56
111	2008	187	730	68.66	92.6	3.16	202.2	24.87	12.56
111	2008	187	745	68.99	91.9	2.977	209.3	27.97	12.72
111	2008	187	800	69.14	92	2.112	215.9	22.36	12.67
111	2008	187	815	69.29	91.3	1.876	241.2	29.81	12.57
111	2008	187	830	69.31	89.5	3.332	281.3	29.48	12.57
111	2008	187	845	69.2	89.2	4.583	279.6	28.55	12.65
111	2008	187	900	69.14	88.7	2.546	266.7	22.95	12.71
111	2008	187	915	69.72	86.4	3.009	268.3	25.28	12.79
111	2008	187	930	71	82.6	3.404	235.3	27.18	13.33
111	2008	187	945	71.1	82.4	4.174	275.8	30.11	13.32
111	2008	187	1000	71.2	82.1	3.827	259	27.53	13.32
111	2008	187	1015	71.1	80.2	3.855	264	25.73	13.32
111	2008	187	1030	71.6	79.2	3.194	289.4	36.28	13.32
111	2008	187	1045	71.2	81.4	4.893	277.6	29.83	13.32
111	2008	187	1100	71.6	79.4	3.001	301.2	35.42	13.32
111	2008	187	1115	72.3	78.8	3.448	265.5	29.95	13.31
111	2008	187	1130	72.4	77.8	4.277	276.1	32.47	13.3
111	2008	187	1145	72.3	79.9	3.888	291.7	27.32	13.3
111	2008	187	1200	72.6	78.6	5.405	269.4	31.54	13.3
111	2008	187	1215	73.3	73.5	3.846	292.8	38.03	13.29
111	2008	187	1230	74	74.6	5.767	273.7	29.19	13.28
111	2008	187	1245	74.6	72	5.133	309	48.28	13.28
111	2008	187	1300	75.5	70.7	4.154	311.8	45.39	13.27
111	2008	187	1315	76.5	67.29	4.724	325.8	34.54	13.26
111	2008	187	1330	76.5	68.29	5.336	324.1	36.9	13.25
111	2008	187	1345	75.9	70	3.872	319.3	41.74	13.25
111	2008	187	1400	74.9	73.6	4.339	336.4	38.91	13.26
111	2008	187	1415	74.6	74	3.182	334	37.48	13.27
111	2008	187	1430	74	74.4	3.539	289.1	33.57	13.27
111	2008	187	1445	74	76.7	4.272	287.2	36.89	13.27
111	2008	187	1500	73.5	77.1	4.023	290	34.46	13.27
111	2008	187	1515	72.7	78.9	3.799	277.1	34.61	13.29

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	187	1530	72.8	76.7	3.289	288.9	36.5	13.22
111	2008	187	1545	73	78	2.618	303.5	32.88	13.22
111	2008	187	1600	72.7	79.1	2.547	289.4	42.83	13.26
111	2008	187	1615	72.6	79.8	2.482	276.7	37.9	13.31
111	2008	187	1630	72.6	80.6	2.768	249.3	25.89	13.32
111	2008	187	1645	72.5	80.6	2.101	266.4	34.82	13.32
111	2008	187	1700	72.4	80.9	2.537	268.8	18.96	13.32
111	2008	187	1715	72.3	80.6	2.843	268.9	14.3	13.33
111	2008	187	1730	72.7	79.6	3.797	258.8	26.37	13.32
111	2008	187	1745	72.8	78.8	4.317	254.5	24.78	13.33
111	2008	187	1800	73.1	78.3	2.5	294.5	38.69	13.32
111	2008	187	1815	72.9	79.2	3.503	265.4	22.46	13.32
111	2008	187	1830	72.6	79.8	4.192	275.2	25.71	13.21
111	2008	187	1845	72.3	80.8	3.484	274	28.43	13.06
111	2008	187	1900	72.1	80.9	4.299	254.5	20.94	13
111	2008	187	1915	71.5	82.6	3.874	254.9	19.23	12.87
111	2008	187	1930	70.9	84.8	4.681	266.1	28.06	12.82
111	2008	187	1945	70.5	85.4	3.984	248.2	21.94	12.79
111	2008	187	2000	70.5	85.7	4.194	248.5	19.12	12.77
111	2008	187	2015	70.4	86.5	4.003	256	20.41	12.76
111	2008	187	2030	70.4	87.1	3.912	249.1	20.15	12.76
111	2008	187	2045	70.3	87.5	2.95	266.7	22.36	12.76
111	2008	187	2100	70.1	88.6	5.375	252.2	10.57	12.75
111	2008	187	2115	70.1	88.4	4.69	258.6	17.38	12.75
111	2008	187	2130	69.94	89	4.069	262.3	18.67	12.74
111	2008	187	2145	69.73	89.7	3.553	256.5	23.1	12.74
111	2008	187	2200	69.77	89.7	3.039	276.4	27.55	12.74
111	2008	187	2215	69.59	90.3	3.062	262.1	16.82	12.73
111	2008	187	2230	69.58	90.6	2.188	281.8	28.21	12.73
111	2008	187	2245	69.45	90.9	2.775	283.4	37.34	12.73
111	2008	187	2300	69.13	91.6	2.184	276.5	33.93	12.72
111	2008	187	2315	68.85	92.2	2.837	277	29.77	12.72
111	2008	187	2330	68.42	92.7	3.047	310.7	30.68	12.71
111	2008	187	2345	68.05	93.1	0.936	325.9	26.63	12.71
111	2008	187	2400	68.07	93.3	0.998	354.7	27.95	12.71
111	2008	188	15	67.92	93.7	1.483	16.1	16.92	12.7
111	2008	188	30	67.94	93.8	0.652	65.85	24.37	12.69
111	2008	188	45	67.99	93.9	0.486	80.4	21.94	12.69
111	2008	188	100	67.94	93.9	0.614	107.5	23.9	12.69
111	2008	188	115	67.86	94.1	1.075	157.5	27.35	12.68
111	2008	188	130	67.81	94.1	0.403	207.2	11.47	12.68
111	2008	188	145	67.64	94.2	0.219	256.3	13.49	12.67
111	2008	188	200	67.57	94.2	0	0	0	12.66
111	2008	188	215	67.46	94.2	0.13	164.2	1.851	12.66
111	2008	188	230	67.39	94.4	0.934	254.1	6.705	12.65
111	2008	188	245	67.45	94.4	0.586	245.7	13.48	12.65
111	2008	188	300	67.43	94.4	0.041	261	0.217	12.65
111	2008	188	315	67.44	94.6	1.057	106.6	15.5	12.64
111	2008	188	330	67.52	94.5	0.814	108.7	12.97	12.63
111	2008	188	345	67.55	94.6	0.224	114	20.22	12.63
111	2008	188	400	67.65	94.5	1.328	120.1	18.87	12.63
111	2008	188	415	67.62	94.3	0.313	141.8	30.47	12.63
111	2008	188	430	67.7	94.2	0.597	152.5	21.54	12.61
111	2008	188	445	67.68	94.1	0.469	147.1	22.23	12.61
111	2008	188	500	67.76	94	0.703	136.1	28.31	12.6
111	2008	188	515	67.91	93.8	1.178	140.5	21.62	12.6
111	2008	188	530	68.06	93.6	0.802	158.6	20.56	12.6
111	2008	188	545	68.19	93.3	1.738	172	31.27	12.59
111	2008	188	600	68.35	93.2	1.412	166.7	25.97	12.59
111	2008	188	615	68.65	92.5	1.386	144.9	28.56	12.57

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	188	630	68.9	91.9	1.933	147.4	28.74	12.57
111	2008	188	645	69.12	91.5	1.611	143.1	32.01	12.57
111	2008	188	700	69.44	90.7	1.777	175.6	40.26	12.57
111	2008	188	715	69.92	89.8	1.456	195.5	28.01	12.6
111	2008	188	730	70.2	88.7	1.896	169	28.65	12.63
111	2008	188	745	70.4	88	3.495	230.2	31.58	12.65
111	2008	188	800	70.1	87.7	4.446	233.8	24.58	12.78
111	2008	188	815	70.1	87.5	4.385	219.4	23.61	12.76
111	2008	188	830	70	87.1	3.994	216.6	23.78	12.76
111	2008	188	845	70.3	86.5	3.872	214.1	25.76	12.79
111	2008	188	900	70.5	86.4	4.333	225.6	20.59	12.98
111	2008	188	915	70.3	86.7	4.669	236.2	20.79	12.97
111	2008	188	930	70.3	86.7	4.544	241.8	23.6	13.04
111	2008	188	945	70.1	86.6	4.7	240.7	15.54	12.98
111	2008	188	1000	70.4	85.9	3.243	225	26.21	13.03
111	2008	188	1015	71.4	83.1	3.293	230.5	23.25	13.26
111	2008	188	1030	71.8	81.5	2.911	210.7	38.82	13.2
111	2008	188	1045	72.4	79.7	1.933	176.4	45.04	13.2
111	2008	188	1100	72.8	79	1.505	177	30.92	13.22
111	2008	188	1115	73.3	78.1	1.79	175.7	52.56	13.3
111	2008	188	1130	74.2	76.4	1.229	190.6	60.02	13.26
111	2008	188	1145	74.3	75.7	2.883	258.4	38.14	13.3
111	2008	188	1200	74.9	78	4.025	233.3	43.74	13.29
111	2008	188	1215	74.2	80.2	5.751	246.1	21.43	13.28
111	2008	188	1230	73.2	81.6	6.074	236.5	22.99	13.29
111	2008	188	1245	72.7	80.6	5.763	243	25.19	13.29
111	2008	188	1300	74.2	74.3	4.438	236.4	27.59	13.28
111	2008	188	1315	75.8	76.9	6.078	253.4	27.08	13.27
111	2008	188	1330	73.9	81.6	7.49	255.2	19.8	13.26
111	2008	188	1345	72.8	82.8	7.59	249.5	17.76	13.28
111	2008	188	1400	72.4	82.7	7.26	249.4	20.73	13.28
111	2008	188	1415	72.1	83.6	7.53	257.5	17.05	13.3
111	2008	188	1430	72	83	6.134	262	25.17	13.3
111	2008	188	1445	72.2	83.7	6.197	244.8	19.63	13.3
111	2008	188	1500	72.8	81.5	7.09	250.2	24.58	13.3
111	2008	188	1515	73.8	79.8	5.874	240.3	23.85	13.29
111	2008	188	1530	74.1	80.4	5.066	233.7	24.94	13.29
111	2008	188	1545	73	81.6	6.859	251.9	25.14	13.3
111	2008	188	1600	73	82.3	7.01	252.5	19.13	13.3
111	2008	188	1615	73.1	80.6	5.429	266.7	29.87	13.31
111	2008	188	1630	73.8	80.3	5.467	257.2	25.37	13.31
111	2008	188	1645	74.3	79.4	4.784	268.5	25	13.3
111	2008	188	1700	73.7	80.8	4.937	256.8	27.28	13.1
111	2008	188	1715	73.2	82.2	4.78	256.7	21.25	13.11
111	2008	188	1730	73	83.2	4.788	259.4	23.83	13.31
111	2008	188	1745	73.2	81.7	4.061	272.5	40.59	13.31
111	2008	188	1800	73.1	82.4	3.87	289.6	33.96	13.32
111	2008	188	1815	73	82.8	4.15	267.3	29.75	13.19
111	2008	188	1830	72.8	82.1	3.872	263.9	27.17	13.25
111	2008	188	1845	73.1	82	4.085	272.3	25.04	13.06
111	2008	188	1900	72.8	83.5	4.162	257.8	20.71	12.94
111	2008	188	1915	72.8	83.3	2.983	255.5	27.09	12.84
111	2008	188	1930	72.6	84.7	3.946	257.6	17.25	12.81
111	2008	188	1945	72.3	85.2	3.142	283.9	24.34	12.79
111	2008	188	2000	72.3	85.6	1.92	289.3	21.29	12.79
111	2008	188	2015	72.3	86.3	4.045	267	22.75	12.78
111	2008	188	2030	72	86.6	3.179	278.8	34.27	12.77
111	2008	188	2045	71.6	87.4	2.592	274	24.8	12.76
111	2008	188	2100	71.4	87.9	2.432	265.8	26.75	12.76
111	2008	188	2115	71.2	88.8	2.042	267.8	23.24	12.76

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	188	2130	71.2	89.4	2.84	273.6	21.9	12.75
111	2008	188	2145	71	90.5	2.909	282.5	30.05	12.75
111	2008	188	2200	70.7	91.2	1.87	306.5	31.53	12.74
111	2008	188	2215	70.8	91.1	2.258	316.3	34.13	12.73
111	2008	188	2230	70.9	91.5	3.4	290.5	29.66	12.73
111	2008	188	2245	70.7	91.8	1.953	317.9	31.96	12.73
111	2008	188	2300	70.5	92.3	2.583	310.5	31.46	12.72
111	2008	188	2315	70.4	92.7	2.54	321.8	34.07	12.71
111	2008	188	2330	70.5	92.8	2.755	320.5	23.59	12.71
111	2008	188	2345	70.6	92.7	1.569	322.8	25.55	12.71
111	2008	188	2400	70.7	92.5	1.886	328.1	23.05	12.71
111	2008	189	15	70.8	92.3	0.94	297.3	17.04	12.7
111	2008	189	30	70.7	92.2	1.257	298.3	39.31	12.69
111	2008	189	45	70.6	92.2	1.217	322.2	23.14	12.69
111	2008	189	100	70.3	92.3	1.568	303.7	20.23	12.68
111	2008	189	115	69.96	92.5	0.693	322.5	12.5	12.68
111	2008	189	130	69.73	92.7	0.418	318.3	7.42	12.67
111	2008	189	145	69.62	92.8	0.009	290.9	0.007	12.67
111	2008	189	200	69.58	92.8	0.384	290.1	8.55	12.66
111	2008	189	215	69.4	93	0.612	307.6	14.79	12.65
111	2008	189	230	69.35	93.1	1.64	315.8	22.61	12.65
111	2008	189	245	69.4	93.1	0.7	320.1	15.79	12.64
111	2008	189	300	69.44	93	0.455	292.4	17.61	12.63
111	2008	189	315	69.62	93	0.095	333.6	2.417	12.63
111	2008	189	330	69.8	93	0.087	304.4	3.843	12.63
111	2008	189	345	69.97	92.8	na	na	na	12.62
111	2008	189	400	70	92.7	na	na	na	12.61
111	2008	189	415	70.1	92.6	0.04	322.9	4.155	12.61
111	2008	189	430	70.2	92.4	0.018	283.1	3.049	12.61
111	2008	189	445	70.4	92.2	0.555	246.7	7.77	12.6
111	2008	189	500	70.4	92.3	0.475	289.3	9.55	12.59
111	2008	189	515	70.4	92.1	1.157	280.6	22.03	12.59
111	2008	189	530	70.5	92.1	0.582	30.89	24.77	12.58
111	2008	189	545	70.6	91.9	na	na	na	12.58
111	2008	189	600	70.7	91.7	0.421	86.3	14.99	12.57
111	2008	189	615	70.9	91.6	0.438	63.11	26.41	12.57
111	2008	189	630	71.3	91.1	0.19	36.01	5.804	12.57
111	2008	189	645	71.4	90.6	0.208	92.5	9.11	12.57
111	2008	189	700	71.6	90.2	0.074	195.1	2.211	12.57
111	2008	189	715	71.8	89.6	0.296	185.5	25.74	12.57
111	2008	189	730	72.1	88.8	0.858	209.9	19.17	12.57
111	2008	189	745	72.2	88.4	1.177	230.8	9.99	12.58
111	2008	189	800	72.5	87	1.599	156.8	35.73	12.63
111	2008	189	815	73	86	0.716	144.9	27.97	12.69
111	2008	189	830	72.9	86.3	1.658	239.3	20.45	12.6
111	2008	189	845	72.8	86.8	2.423	238.4	21.99	12.59
111	2008	189	900	73.2	87.2	2.892	234.8	21.07	12.67
111	2008	189	915	73.3	86.7	2.404	239.3	25.53	12.96
111	2008	189	930	73.8	84.7	2.949	249.8	16.82	13.2
111	2008	189	945	74.6	84	3.001	242.4	23.67	13.3
111	2008	189	1000	75.2	82.8	4.093	259.5	25.09	13.29
111	2008	189	1015	75.7	80.1	3.052	246.1	24.43	13.28
111	2008	189	1030	76	81.8	4.198	240.9	21.1	13.27
111	2008	189	1045	77	79.1	3.682	229.2	26.45	13.26
111	2008	189	1100	77.2	78.5	3.952	251.4	30.73	13.26
111	2008	189	1115	77.1	80.1	4.484	262.5	26.53	13.25
111	2008	189	1130	76.8	79.7	5.258	257.8	26.06	13.25
111	2008	189	1145	78.1	76.4	5.503	269.5	28.18	13.24
111	2008	189	1200	78.7	75.5	6.096	261.3	24.05	13.22
111	2008	189	1215	78.5	77.1	6.019	254.9	33.59	13.22

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	189	1230	78.4	75.6	6.573	267.4	23.61	13.22
111	2008	189	1245	78.2	77.6	6.114	264.1	25.39	13.21
111	2008	189	1300	77.5	79.9	7.3	256.7	18.61	13.21
111	2008	189	1315	77.3	76.3	6.128	272.4	33.33	13.22
111	2008	189	1330	77.4	78.4	6.62	273.4	29	13.22
111	2008	189	1345	78.3	76.7	6.122	281.2	35.59	13.21
111	2008	189	1400	78.8	71.1	5.219	292.1	43.21	13.21
111	2008	189	1415	80	67.51	4.933	320.1	32.65	13.2
111	2008	189	1430	80.4	68.72	6.017	317.2	40.9	13.19
111	2008	189	1445	78.9	70.5	5.477	288.7	32.91	13.2
111	2008	189	1500	79.8	70.7	5.375	304.7	36.19	13.19
111	2008	189	1515	79	73	5.884	296.1	43.57	13.2
111	2008	189	1530	78.2	75.2	6.342	295.4	35.7	13.2
111	2008	189	1545	77.2	77.3	5.872	304.2	40.6	13.21
111	2008	189	1600	77.3	74.5	4.424	318.3	50.11	13.2
111	2008	189	1615	77.7	77.9	5.747	315.9	39.11	13.22
111	2008	189	1630	75.6	81.9	5.578	312.6	40.29	13.22
111	2008	189	1645	74.8	82.8	5.171	317.4	31.92	13.03
111	2008	189	1700	74.1	84	5.443	315.5	34.96	13.03
111	2008	189	1715	74.4	82.3	4.843	327.3	31.12	13.27
111	2008	189	1730	74.4	84.2	5.316	328.1	33.76	12.98
111	2008	189	1745	73.8	84.5	4.393	344	30.5	12.94
111	2008	189	1800	73.9	84.4	4.401	342.5	31.46	12.92
111	2008	189	1815	73.7	84.9	3.553	335.3	33.86	12.84
111	2008	189	1830	74.2	83.2	3.686	330	36.51	12.84
111	2008	189	1845	74.9	79.7	4.376	310.9	31.75	12.82
111	2008	189	1900	74.7	79.9	4.923	330.9	30.54	12.79
111	2008	189	1915	74.2	80.9	4.746	331.3	31.74	12.78
111	2008	189	1930	73.8	81.3	3.612	332.3	29.82	12.76
111	2008	189	1945	73.5	80.6	3.263	332.5	33.32	12.76
111	2008	189	2000	73.4	79.9	2.545	346.8	32.57	12.76
111	2008	189	2015	73.2	80.9	1.527	315.1	29.4	12.75
111	2008	189	2030	72.7	81.7	1.777	297.1	21.85	12.74
111	2008	189	2045	72.3	82.3	2.811	308.1	33.3	12.73
111	2008	189	2100	71.9	83.3	2.595	323.7	25.56	12.72
111	2008	189	2115	71.7	84	3.005	331.1	29.25	12.73
111	2008	189	2130	71.5	84.9	2.849	333.1	28	12.72
111	2008	189	2145	71.5	85.3	2.107	330.7	24.39	12.71
111	2008	189	2200	71.5	85.3	2.488	324.3	30.54	12.71
111	2008	189	2215	71.6	85.7	1.571	340.8	37.2	12.7
111	2008	189	2230	71.6	85.9	2.029	323.6	22.23	12.7
111	2008	189	2245	71.4	86.7	1.413	330.4	20.28	12.7
111	2008	189	2300	71.5	87.1	2.336	333.2	22.14	12.7
111	2008	189	2315	71.6	87	3.702	332.6	25.18	12.69
111	2008	189	2330	71.6	86.8	3.91	336	25.09	12.68
111	2008	189	2345	71.3	87	3.583	332.4	25.24	12.69
111	2008	189	2400	71.2	87.4	2.142	329.9	27.92	12.68
111	2008	190	15	71.3	87.3	2.855	325.3	32.27	12.67
111	2008	190	30	71.2	87.4	3.606	333.8	21.77	12.67
111	2008	190	45	71.1	87.6	3.59	335.9	27.53	12.67
111	2008	190	100	71	87.8	3.114	337.2	19.8	12.66
111	2008	190	115	70.8	88.2	2.646	344	26.86	12.65
111	2008	190	130	70.6	88.6	1.46	1.314	30.54	12.65
111	2008	190	145	70.4	89.1	2.161	337	19.25	12.65
111	2008	190	200	70.3	89.3	1.079	336.3	13.76	12.64
111	2008	190	215	70.1	89.9	0.643	343.3	13.88	12.63
111	2008	190	230	69.96	90	1.231	333	16.25	12.63
111	2008	190	245	69.78	90.6	1.71	337.7	24.5	12.63
111	2008	190	300	69.71	90.7	0.787	327.5	22.21	12.62
111	2008	190	315	69.61	91	0.657	312.8	25.79	12.61

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	190	330	69.57	91.3	1.534	323.7	21.28	12.61
111	2008	190	345	69.51	91.6	1.121	332.7	13.29	12.6
111	2008	190	400	69.45	91.9	1.611	331.8	19.08	12.59
111	2008	190	415	69.46	92	1.551	350.1	24.37	12.59
111	2008	190	430	69.5	92.3	1.927	329.9	23.95	12.58
111	2008	190	445	69.65	92.3	2.856	331.2	23.95	12.58
111	2008	190	500	69.79	92.5	2.79	333.6	21.33	12.57
111	2008	190	515	70	92.4	3.177	332.3	22.99	12.57
111	2008	190	530	70.1	92.3	3.837	342.9	22.62	12.56
111	2008	190	545	70.2	92.2	2.868	348.8	23.24	12.56
111	2008	190	600	70.3	92	3.023	340.9	22.39	12.57
111	2008	190	615	70.6	91.8	2.711	355.7	23.89	12.65
111	2008	190	630	71.1	91	2.4	5.074	30.17	13.01
111	2008	190	645	71.8	89.5	2.943	349.3	23.55	13.35
111	2008	190	700	72.6	87.8	2.958	354.3	27.99	13.34
111	2008	190	715	73.7	84.5	3.102	345.4	31.46	13.33
111	2008	190	730	74.9	81.4	3.225	342.1	24.55	13.32
111	2008	190	745	75.7	80.2	3.783	339.8	25.93	13.3
111	2008	190	800	75.9	79.1	3.833	345.7	26.36	13.3
111	2008	190	815	77	75.4	3.481	348.7	26.39	13.28
111	2008	190	830	77.9	73.6	3.958	355.5	29.19	13.27
111	2008	190	845	78.7	73.9	3.624	332.3	34.46	13.26
111	2008	190	900	78.7	75.1	4.414	325.4	38.35	13.25
111	2008	190	915	78.7	73.8	5.413	332	27.2	13.24
111	2008	190	930	79.1	74.4	5.111	339.9	35.94	13.24
111	2008	190	945	80.1	73.4	4.359	337.7	24.95	13.23
111	2008	190	1000	80.1	72.1	5.225	335.7	32.33	13.22
111	2008	190	1015	80.4	72.5	5.189	322.2	31.61	13.22
111	2008	190	1030	80.5	71	5.838	332.2	30.02	13.21
111	2008	190	1045	80.7	69.59	6.221	332.5	26.76	13.2
111	2008	190	1100	80.9	68.48	6.263	339.8	27.3	13.2
111	2008	190	1115	80.8	68.58	7.09	324.9	26.47	13.2
111	2008	190	1130	80.9	67.91	7.24	331.6	32.7	13.2
111	2008	190	1145	80.9	70.4	7.16	342.1	30.11	13.2
111	2008	190	1200	81.1	67.54	7.52	327.9	29.34	13.2
111	2008	190	1215	82	64.03	6.255	337.1	30.08	13.19
111	2008	190	1230	81.9	62.3	5.929	330.5	36.08	13.19
111	2008	190	1245	82.5	63.76	6.1	333.3	33.18	13.19
111	2008	190	1300	82.2	66.24	7.1	327.3	27.34	13.18
111	2008	190	1315	81.1	66.33	8.53	328.4	23.44	13.18
111	2008	190	1330	81.9	62.96	5.765	342.2	32.04	13.19
111	2008	190	1345	81.7	64.5	7.45	346.3	32.44	13.18
111	2008	190	1400	80.8	64.33	8.6	336.2	22.6	13.19
111	2008	190	1415	81	66.11	7.53	337.1	34.62	13.19
111	2008	190	1430	81.5	64.04	7.05	333	31.4	13.19
111	2008	190	1445	81.7	63.8	7.09	337	31.37	13.19
111	2008	190	1500	82.6	63.97	6.142	324.6	36.41	13.17
111	2008	190	1515	81.1	67.11	8.38	326.5	28.23	13.13
111	2008	190	1530	80.2	66.91	8.19	333.5	29.06	13.11
111	2008	190	1545	80.1	68.35	7.72	336.6	31.79	13.08
111	2008	190	1600	80.1	69.92	7.62	326.5	37.49	13.06
111	2008	190	1615	79.1	71.8	8.2	339.8	29.75	13.05
111	2008	190	1630	78.7	73.3	7.41	331.7	28.95	13.03
111	2008	190	1645	78.4	73.6	8.44	331.6	27.27	13
111	2008	190	1700	78.5	71.2	7.18	331.9	33.03	12.96
111	2008	190	1715	78.3	73.8	8.37	337.4	29.32	12.92
111	2008	190	1730	78.3	72.2	7.37	336.2	32.37	12.9
111	2008	190	1745	78	74.8	7.5	343.4	27.18	12.88
111	2008	190	1800	77.7	74.2	7.27	343.1	36.92	12.85
111	2008	190	1815	77.4	77.2	7.51	336	28.42	12.82

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	190	1830	76.5	78.9	7.65	344.8	29.32	12.8
111	2008	190	1845	76	80.1	7.58	335.3	35.24	12.79
111	2008	190	1900	75.3	81.8	7.87	336.9	32.08	12.78
111	2008	190	1915	74.7	82.2	7.7	345.4	27.18	12.76
111	2008	190	1930	74.3	83.1	8.07	339.5	30.21	12.76
111	2008	190	1945	73.9	83.8	6.593	334.3	33.13	12.76
111	2008	190	2000	73.7	84	6.06	343.5	31.55	12.74
111	2008	190	2015	73.5	84.3	7.05	345	26.97	12.74
111	2008	190	2030	73.5	84.2	7.09	342.3	27.28	12.74
111	2008	190	2045	73.5	84.2	6.14	340.1	27.67	12.72
111	2008	190	2100	73.8	83.4	6.398	344.8	27.95	12.73
111	2008	190	2115	74	82.9	6.483	345.1	25.49	12.72
111	2008	190	2130	73.7	83.5	5.995	348.4	29.51	12.71
111	2008	190	2145	73.5	84.1	4.964	342.2	26.08	12.71
111	2008	190	2200	73.3	84.6	4.694	344.5	31.9	12.71
111	2008	190	2215	73	85	5.336	337.8	27.26	12.7
111	2008	190	2230	72.7	85.5	3.918	353.4	25.99	12.7
111	2008	190	2245	72.5	86.1	2.999	348.7	31.92	12.69
111	2008	190	2300	72.3	87	2.261	332.6	22.69	12.69
111	2008	190	2315	72.4	87.7	1.403	355.8	23.37	12.68
111	2008	190	2330	72.7	87.3	2.326	349.3	28.93	12.67
111	2008	190	2345	73.1	86.7	3.022	339	23.13	12.67
111	2008	190	2400	73.5	86	3.624	349.8	28.81	12.67
111	2008	191	15	73.7	85	4.156	349.1	25.15	12.66
111	2008	191	30	73.9	84.6	4.307	345.6	24.75	12.65
111	2008	191	45	74	84.3	3.432	350.3	28.96	12.66
111	2008	191	100	73.7	83.9	4.865	339.2	32.01	12.65
111	2008	191	115	72.7	83.6	4.349	339.5	26.09	12.65
111	2008	191	130	72.3	82.5	5.125	339.7	21.45	12.65
111	2008	191	145	72.2	81.3	5.86	341.2	31.53	12.64
111	2008	191	200	71.7	82	4.669	342.1	28.82	12.63
111	2008	191	215	71.1	82.3	4.168	342.2	28.3	12.63
111	2008	191	230	70.7	83.4	4.43	339.9	21.93	12.63
111	2008	191	245	70.3	84.3	5.616	339.7	26.71	12.62
111	2008	191	300	69.99	84.5	5.602	347.3	33.51	12.61
111	2008	191	315	69.95	84.6	5.55	351.8	27.61	12.6
111	2008	191	330	69.76	85.5	4.879	338	31.05	12.6
111	2008	191	345	69.68	86.3	5.104	341.7	27.64	12.59
111	2008	191	400	69.63	87.1	4.714	353	26.7	12.59
111	2008	191	415	69.67	87.3	5.592	354.3	25.61	12.58
111	2008	191	430	69.56	87.9	5.167	342.4	26.82	12.58
111	2008	191	445	69.44	88.2	3.942	346.1	24.15	12.57
111	2008	191	500	69.41	88.2	4.297	347.5	27.99	12.57
111	2008	191	515	69.4	88.2	4.891	352	25.35	12.57
111	2008	191	530	69.28	88.6	3.481	336.9	28.69	12.57
111	2008	191	545	69.17	89	3.487	341.3	25.8	12.56
111	2008	191	600	69.3	88.9	4.041	340.9	30.56	12.55
111	2008	191	615	69.55	88.6	3.924	343.7	28.11	12.67
111	2008	191	630	69.81	88.2	4.52	341.8	25.5	12.97
111	2008	191	645	69.96	87.4	3.747	332.5	29.81	13.3
111	2008	191	700	69.8	87.6	5.256	341	28.48	13.1
111	2008	191	715	69.69	87.4	5.092	350.7	28.72	13.21
111	2008	191	730	70.5	85.6	4.994	341.4	27.9	13.35
111	2008	191	745	71.4	84.3	5.864	340.7	30.49	13.34
111	2008	191	800	71.6	84.4	5.993	331.8	26.79	13.34
111	2008	191	815	71	85.2	6.043	338	29.33	13.16
111	2008	191	830	70.6	85.9	5.642	338.5	32.77	13.17
111	2008	191	845	70.7	86	5.64	346.1	38.72	13.18
111	2008	191	900	71.1	85	6.039	330.5	27.19	13.33
111	2008	191	915	72	83.5	5.578	337	33.05	13.33

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	191	930	72.7	81	5.681	335.5	27.31	13.32
111	2008	191	945	73.7	79.4	6.289	344.4	29.12	13.3
111	2008	191	1000	74	80.5	6.477	343.4	34.51	13.3
111	2008	191	1015	75.4	76.1	5.779	342	30.18	13.28
111	2008	191	1030	76.3	75.2	6.96	338	35.1	13.27
111	2008	191	1045	75.6	75.5	7.03	344.5	28.73	13.26
111	2008	191	1100	76.6	73.5	6.132	322.9	27.07	13.26
111	2008	191	1115	77.6	72.2	6.779	332.9	25.39	13.24
111	2008	191	1130	79.1	70.9	6.086	344.1	29.47	13.24
111	2008	191	1145	79.2	71.1	6.34	346	29.9	13.23
111	2008	191	1200	79.2	70	5.876	334.1	33.14	13.22
111	2008	191	1215	79.8	67.98	6.948	328.9	34.49	13.22
111	2008	191	1230	79.7	70	9.02	345.9	30.8	13.21
111	2008	191	1245	78.9	72.9	7.8	352.4	31.44	13.21
111	2008	191	1300	79.6	69.52	7.41	345.2	26.89	13.22
111	2008	191	1315	80.8	69.18	7.77	346.4	28.41	13.21
111	2008	191	1330	80.8	70.1	8.25	345.4	24.82	13.21
111	2008	191	1345	80.8	69.18	7.56	339.4	28.73	13.21
111	2008	191	1400	79.9	71.3	6.757	344	28	13.21
111	2008	191	1415	78.9	72.6	6.344	347.8	26.5	13.22
111	2008	191	1430	79.5	70.1	6.241	349.1	27.37	13.24
111	2008	191	1445	81.7	65.21	6.944	342.4	26.69	13.22
111	2008	191	1500	83	65.11	7.27	347.7	28.57	13.2
111	2008	191	1515	81.8	68.62	7.97	331	23.55	13.2
111	2008	191	1530	80.1	71.6	7.12	343.6	29.71	13.21
111	2008	191	1545	79.1	72.6	6.761	344.1	24.05	13.22
111	2008	191	1600	78.2	73.6	6.561	347.4	22.86	13.23
111	2008	191	1615	78.8	71.9	6.966	341.2	27.77	13.24
111	2008	191	1630	79.3	67.11	7.4	340	28.62	13.24
111	2008	191	1645	80.8	67.11	8.01	334.2	29.27	13.22
111	2008	191	1700	80	70.5	6.519	339.2	26.16	13.11
111	2008	191	1715	79.5	70	5.908	334.6	26.97	13.2
111	2008	191	1730	79.9	66.31	5.916	340.2	30.16	13.21
111	2008	191	1745	79.7	68.48	6.201	333.9	24.15	12.92
111	2008	191	1800	77.6	72.1	5.463	330.9	31.52	12.86
111	2008	191	1815	76.4	77.4	5.735	338.9	28.92	12.82
111	2008	191	1830	74.8	78.3	6.219	343.2	31.88	12.8
111	2008	191	1845	74.2	79.2	6.799	334.7	26.13	12.79
111	2008	191	1900	74.2	77.8	6.102	343.1	28.94	12.78
111	2008	191	1915	74.3	78.7	6.869	342.6	29.64	12.81
111	2008	191	1930	73.9	79.8	6.152	345.2	30.58	12.77
111	2008	191	1945	73	82	6.795	345.6	31.27	12.76
111	2008	191	2000	72.2	84.1	5.981	342.5	22.74	12.76
111	2008	191	2015	71.9	84.8	5.036	345	27.52	12.74
111	2008	191	2030	71.8	85.4	5.455	344.1	27.78	12.74
111	2008	191	2045	71.6	85.3	5.151	340.4	27.97	12.74
111	2008	191	2100	71.4	85.6	5.169	344.5	29.11	12.73
111	2008	191	2115	70.9	88	4.365	334.8	26.31	12.73
111	2008	191	2130	70.7	88.5	4.236	337.7	28.59	12.72
111	2008	191	2145	70.8	87.6	4.73	352.6	27.38	12.72
111	2008	191	2200	70.8	89.3	3.974	5.289	24.06	12.71
111	2008	191	2215	70.5	90.7	2.16	27.77	20.63	12.71
111	2008	191	2230	70.6	91.1	0.745	346.1	29.36	12.7
111	2008	191	2245	70.8	91.5	0.939	331.5	20.05	12.7
111	2008	191	2300	70.8	91.8	0.985	349	23.75	12.69
111	2008	191	2315	71	92.2	0.693	358.7	18.99	12.68
111	2008	191	2330	71.3	92.3	1.87	10.32	25.49	12.68
111	2008	191	2345	71.7	92.1	2.85	22.26	24.96	12.68
111	2008	191	2400	72.1	91.9	3.461	10.48	27.41	12.67
111	2008	192	15	72.4	91.4	3.511	354.9	24.23	12.67

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	192	30	72.4	91.6	2.005	1.813	26.93	12.67
111	2008	192	45	72.4	91.8	3.559	0.802	28.93	12.67
111	2008	192	100	72.6	91.6	3.988	6.012	27.8	12.67
111	2008	192	115	72.7	91.5	4.001	1.292	31.18	12.65
111	2008	192	130	72.9	91.3	4.418	7.39	22	12.66
111	2008	192	145	72.9	91.3	4.409	14.42	27.61	12.65
111	2008	192	200	72.9	91.4	3.936	23.2	22.15	12.65
111	2008	192	215	72.8	91.3	3.342	16.58	26.35	12.65
111	2008	192	230	72.8	91.3	3.716	27.05	17.9	12.64
111	2008	192	245	72.7	91.1	2.735	29	20.05	12.64
111	2008	192	300	72.6	91	2.464	37.88	20.21	12.63
111	2008	192	315	72.5	90.2	3.632	39.7	25.07	12.63
111	2008	192	330	72.5	88.6	4.341	29.77	20.97	12.61
111	2008	192	345	72.3	88.2	3.418	43.08	26.2	12.61
111	2008	192	400	72	88.3	3.025	40.16	26.61	12.61
111	2008	192	415	71.6	88.1	3.134	44.91	28.72	12.6
111	2008	192	430	71.4	88	2.606	40.29	28.84	12.59
111	2008	192	445	71	88	1.886	49.22	25.28	12.59
111	2008	192	500	70.6	88.4	0.916	43.22	19.91	12.58
111	2008	192	515	70.2	88.8	1.653	44.74	28.06	12.57
111	2008	192	530	70.1	88.8	2.252	37.32	20.29	12.57
111	2008	192	545	69.98	88.5	2.1	49.29	32.51	12.57
111	2008	192	600	70	88	1.636	50.32	27.54	12.56
111	2008	192	615	70.4	85.3	2.697	60.14	35.09	12.82
111	2008	192	630	71.2	81.5	2.852	59.38	35.32	13.37
111	2008	192	645	72.2	75	2.757	67.1	41.19	13.35
111	2008	192	700	73.2	72.5	2.745	70.3	44.21	13.35
111	2008	192	715	73.9	70.1	3.455	54.3	34.59	13.34
111	2008	192	730	74.3	66.23	4.341	77.9	30.9	13.32
111	2008	192	745	74.4	64.29	4.905	76.3	38.32	13.32
111	2008	192	800	75.5	59.71	3.396	67.1	43	13.31
111	2008	192	815	75.7	60.01	3.992	77.2	46.12	13.29
111	2008	192	830	76.3	57.7	3.862	79.6	42.93	13.29
111	2008	192	845	76.4	57.26	4.256	80.5	35.08	13.28
111	2008	192	900	76.9	56.75	3.761	88.1	34.75	13.27
111	2008	192	915	76.9	55.85	3.918	103.7	46.41	13.26
111	2008	192	930	77.2	52.87	4.22	98.6	50.09	13.26
111	2008	192	945	78.2	48.13	3.98	65.34	46.17	13.24
111	2008	192	1000	78.9	49.77	4.202	89.7	47.29	13.24
111	2008	192	1015	78.6	42.08	5.258	57.67	40.15	13.24
111	2008	192	1030	78.7	39.14	6.017	45.21	32.72	13.22
111	2008	192	1045	80	38	5.052	63.54	36.17	13.22
111	2008	192	1100	80.5	37.83	4.823	77.4	40.78	13.21
111	2008	192	1115	80.5	36.8	6.176	51.62	38.65	13.2
111	2008	192	1130	81.4	36.83	4.931	66.13	42.23	13.2
111	2008	192	1145	82.2	33.12	5.439	60.7	38.83	13.2
111	2008	192	1200	82.4	31.85	5.505	54.71	38.84	13.19
111	2008	192	1215	81.6	31.18	5.783	71.5	38.66	13.19
111	2008	192	1230	82.2	31.74	5.481	59.97	40.68	13.18
111	2008	192	1245	82.4	34.38	5.143	57.55	37.47	13.19
111	2008	192	1300	82.6	33.58	5.485	60.66	31.43	13.19
111	2008	192	1315	82	34.98	5.306	68.86	33.06	13.19
111	2008	192	1330	82.2	33.01	5.173	44.17	37.51	13.19
111	2008	192	1345	82.7	33.31	5.235	6.741	44.76	13.19
111	2008	192	1400	83.7	31.31	5.389	49.01	36.9	13.18
111	2008	192	1415	83.4	31.77	5.018	34.48	36.34	13.18
111	2008	192	1430	83.8	31.77	4.593	43.05	36.13	13.19
111	2008	192	1445	84.3	31.64	5.338	54.77	43.73	13.18
111	2008	192	1500	84.1	29.34	5.604	52.76	37.24	13.18
111	2008	192	1515	85.1	29.9	4.99	39.4	52	13.18

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	192	1530	85.8	28	4.885	40.31	36.65	13.18
111	2008	192	1545	85.8	28.97	3.855	63.34	37.19	13.17
111	2008	192	1600	87	27.43	4.651	55.98	49.57	13.17
111	2008	192	1615	86.8	27.7	5.435	62.82	37.06	13.17
111	2008	192	1630	86.5	27.13	5.356	51.06	35.76	13.16
111	2008	192	1645	87	27.8	5.437	61.71	38.83	13.17
111	2008	192	1700	87.7	26.43	4.482	53.69	33.73	13.16
111	2008	192	1715	88.2	27.83	4.909	61.26	38.97	13.05
111	2008	192	1730	86.9	28.6	4.964	51.12	38.16	12.96
111	2008	192	1745	85.6	29.3	4.714	48.08	35.29	12.92
111	2008	192	1800	84.2	30.91	4.208	46.86	33.8	12.9
111	2008	192	1815	83.9	31.85	2.806	65.06	39.01	12.92
111	2008	192	1830	83.1	32.39	3.424	60.68	37.97	12.92
111	2008	192	1845	82.4	33.15	3.444	68.6	34.87	12.9
111	2008	192	1900	84.1	31.35	3.586	52.46	40.15	12.88
111	2008	192	1915	83.3	33.59	3.525	72.6	35.87	12.86
111	2008	192	1930	82.9	34.19	3.015	44.09	25.03	12.82
111	2008	192	1945	82.2	35.46	2.757	51.11	34.53	12.78
111	2008	192	2000	80.8	38.57	2.492	59.36	27.15	12.78
111	2008	192	2015	79.4	39.61	2.806	60.5	36.39	12.77
111	2008	192	2030	78.8	40.08	1.673	72.8	36.43	12.76
111	2008	192	2045	78	42.63	1.764	56.57	40.53	12.75
111	2008	192	2100	76.7	45.4	1.147	40.49	25.16	12.75
111	2008	192	2115	75.5	46.87	1.707	61.28	35.08	12.74
111	2008	192	2130	75.1	47.88	2.026	75.8	27.67	12.73
111	2008	192	2145	74.5	47.81	1.86	67.42	44.32	12.73
111	2008	192	2200	74.3	48.55	1.182	61.75	41.04	12.72
111	2008	192	2215	73.6	51.1	0.954	39.87	24.34	12.71
111	2008	192	2230	72.5	53.91	0.479	48.47	14.22	12.71
111	2008	192	2245	71.2	56.02	0.084	59.94	8.35	12.7
111	2008	192	2300	70.3	59.16	0.695	343.3	9.24	12.69
111	2008	192	2315	69.28	62.11	na	na	na	12.69
111	2008	192	2330	68.26	65.42	0.558	38.71	6.16	12.68
111	2008	192	2345	67.58	66.76	0.056	37.83	4.509	12.67
111	2008	192	2400	67.11	68	0.213	25.76	2.237	12.66
111	2008	193	15	66.61	70.2	na	na	na	12.66
111	2008	193	30	66.03	70.6	0.009	83.4	0	12.65
111	2008	193	45	65.78	72.6	0.018	41.91	1.74	12.65
111	2008	193	100	64.97	73.7	na	na	na	12.63
111	2008	193	115	64.86	72.8	na	na	na	12.63
111	2008	193	130	64.92	71.5	na	na	na	12.63
111	2008	193	145	64.63	71.6	na	na	na	12.62
111	2008	193	200	64.22	72.6	na	na	na	12.62
111	2008	193	215	63.79	74.7	na	na	na	12.6
111	2008	193	230	63.08	75.8	0.015	82.3	0	12.6
111	2008	193	245	63.2	73.6	0.308	79.2	9.24	12.6
111	2008	193	300	64.33	70.5	0.467	126.9	19.35	12.59
111	2008	193	315	64.61	70.4	0.276	102.8	13.04	12.59
111	2008	193	330	64.31	71.4	0.042	140.8	3.441	12.58
111	2008	193	345	63.61	73.6	0.009	35.65	0	12.57
111	2008	193	400	63.12	75	0.226	124.3	10.31	12.57
111	2008	193	415	63.64	76.2	0.572	119	24.04	12.57
111	2008	193	430	63.63	78.4	0.422	92.7	25.39	12.56
111	2008	193	445	63.33	79.9	0.047	80.3	1.622	12.55
111	2008	193	500	62.46	82.4	na	na	na	12.55
111	2008	193	515	62.13	84	0.031	83.6	0.274	12.54
111	2008	193	530	61.6	85.5	0.02	85.7	0.042	12.54
111	2008	193	545	61.73	86.3	na	na	na	12.53
111	2008	193	600	62.45	85.6	na	na	na	12.54
111	2008	193	615	63.19	84.3	na	na	na	13.19

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	193	630	64.26	81.7	1.511	110.6	30.8	13.39
111	2008	193	645	66.27	75.6	2.039	127.5	35.18	13.46
111	2008	193	700	68.53	68.88	2.097	124.5	36.08	13.44
111	2008	193	715	70.4	66.89	2.526	135.7	30.37	13.41
111	2008	193	730	71.7	62.68	2.11	130.1	35.67	13.39
111	2008	193	745	73.2	58.72	2.85	116.9	42.71	13.37
111	2008	193	800	73.7	52.13	3.424	129.1	33.15	13.35
111	2008	193	815	74.4	46.94	2.959	142.7	50.41	13.34
111	2008	193	830	74.8	46.37	3.759	112.5	41.64	13.32
111	2008	193	845	75.9	45.17	3.355	107.6	46.65	13.31
111	2008	193	900	76.5	43.59	3.763	95.2	41.35	13.3
111	2008	193	915	76.9	41.81	3.644	132.3	47.58	13.29
111	2008	193	930	77.3	39.54	3.303	112.4	44.25	13.27
111	2008	193	945	78.3	39.67	3.499	106.6	53.6	13.26
111	2008	193	1000	78.9	36.5	3.531	73.4	63.94	13.25
111	2008	193	1015	80	36.86	3.273	34.76	63.23	13.24
111	2008	193	1030	79.9	35.76	3.328	119	65.02	13.23
111	2008	193	1045	80.4	33.86	3.128	114.8	74.8	13.22
111	2008	193	1100	81.6	32.89	3.579	86.4	64.44	13.21
111	2008	193	1115	82	31.85	3.658	40.96	72.4	13.2
111	2008	193	1130	82.6	30.71	3.642	93.1	47.32	13.2
111	2008	193	1145	83.5	30.94	3.265	77.9	66.56	13.19
111	2008	193	1200	82.9	29.17	3.503	84.1	62.96	13.18
111	2008	193	1215	83.9	29.1	3.545	70.6	66.98	13.17
111	2008	193	1230	84.7	26.8	3.561	64.11	53.77	13.17
111	2008	193	1245	84.5	27.7	3.849	46.96	56.34	13.17
111	2008	193	1300	83.8	28.33	3.839	39.19	58.68	13.17
111	2008	193	1315	84.3	26.19	3.438	97.5	39.8	13.16
111	2008	193	1330	84.7	27.56	3.693	88.4	64.45	13.16
111	2008	193	1345	85.2	29.1	3.755	86.4	63.9	13.16
111	2008	193	1400	85.9	26.83	4.015	65.04	50.47	13.16
111	2008	193	1415	86	26.73	3.948	43.2	41.05	13.15
111	2008	193	1430	84.6	40.69	5.961	300.8	81.3	13.14
111	2008	193	1445	81.7	41	5.497	302.8	43.5	13.03
111	2008	193	1500	83	43.6	4.823	329.4	34.02	12.95
111	2008	193	1515	82.3	39.79	5.598	311.9	35.94	12.93
111	2008	193	1530	81.6	44.94	6.138	322.7	28.15	12.92
111	2008	193	1545	80.8	46.42	6.031	320.2	29.4	12.9
111	2008	193	1600	81.2	42.45	5.755	337.7	40.85	12.9
111	2008	193	1615	80.3	53.17	6.275	322.1	40.63	12.88
111	2008	193	1630	79.8	49.1	5.151	304	39.79	12.88
111	2008	193	1645	80.4	42.05	5.217	308.3	34.83	12.88
111	2008	193	1700	80.3	44.72	4.855	307.8	36.59	12.88
111	2008	193	1715	79.6	45.59	4.591	284.6	34.66	12.88
111	2008	193	1730	79.2	47.49	4.75	293.3	34.99	12.87
111	2008	193	1745	79.5	43.68	3.745	324.7	37.03	12.84
111	2008	193	1800	79.2	46.62	3.561	298.9	36.03	12.83
111	2008	193	1815	77.8	50.2	5.235	279.6	25.63	12.83
111	2008	193	1830	77.2	53.84	4.722	302.8	28.31	12.81
111	2008	193	1845	76.6	53.64	4.399	313.7	28.24	12.78
111	2008	193	1900	76	56.9	3.958	308.4	38.85	12.78
111	2008	193	1915	75.4	55.53	3.636	324	35.09	12.76
111	2008	193	1930	74.5	58.74	3.531	336.7	26.73	12.76
111	2008	193	1945	74	61.89	2.414	330.7	20.5	12.75
111	2008	193	2000	73.5	65.86	2.762	332.1	28.66	12.75
111	2008	193	2015	72.8	67.54	2.407	314.2	26.1	12.73
111	2008	193	2030	72.4	67.94	2.015	321.3	21.98	12.73
111	2008	193	2045	71.9	67.58	1.834	320.5	23.29	12.72
111	2008	193	2100	71.7	68.09	1.581	334	23.96	12.71
111	2008	193	2115	71.4	69.13	1.954	335.1	16.19	12.7

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	193	2130	71.3	69.7	0.929	308.7	24.43	12.69
111	2008	193	2145	71.1	69.9	0.213	313	6.316	12.68
111	2008	193	2200	70.9	71.2	0.201	325.1	7.49	12.68
111	2008	193	2215	70.7	72.4	0.572	14.17	13.12	12.67
111	2008	193	2230	70.3	73.5	0.306	346	11.34	12.67
111	2008	193	2245	70.2	74.3	na	na	na	12.66
111	2008	193	2300	70.2	75	na	na	na	12.65
111	2008	193	2315	69.77	76	na	na	na	12.65
111	2008	193	2330	69.29	78	na	na	na	12.64
111	2008	193	2345	69.27	78	na	na	na	12.63
111	2008	193	2400	69.47	78.4	na	na	na	12.63
111	2008	194	15	68.94	80.3	na	na	na	12.63
111	2008	194	30	68.2	82.3	na	na	na	12.61
111	2008	194	45	67.67	83.6	na	na	na	12.61
111	2008	194	100	67.43	84.1	na	na	na	12.6
111	2008	194	115	67.24	84.2	na	na	na	12.6
111	2008	194	130	67.12	84.4	na	na	na	12.59
111	2008	194	145	66.81	85	na	na	na	12.58
111	2008	194	200	66.63	85.6	na	na	na	12.57
111	2008	194	215	66.42	85.9	na	na	na	12.57
111	2008	194	230	66.15	87	na	na	na	12.57
111	2008	194	245	66.07	87.1	na	na	na	12.56
111	2008	194	300	65.88	87.5	na	na	na	12.55
111	2008	194	315	65.58	88.1	na	na	na	12.55
111	2008	194	330	65.42	88.3	na	na	na	12.55
111	2008	194	345	65.2	88.8	na	na	na	12.55
111	2008	194	400	65.07	89	na	na	na	12.53
111	2008	194	415	64.93	89.6	na	na	na	12.53
111	2008	194	430	65.09	89.3	na	na	na	12.53
111	2008	194	445	64.87	89.5	na	na	na	12.53
111	2008	194	500	64.68	89.5	na	na	na	12.52
111	2008	194	515	64.53	89.9	na	na	na	12.53
111	2008	194	530	64.53	90	na	na	na	12.52
111	2008	194	545	64.86	89.9	na	na	na	12.53
111	2008	194	600	64.87	89.9	na	na	na	12.51
111	2008	194	615	65.18	89.9	na	na	na	12.53
111	2008	194	630	66.09	89.1	na	na	na	12.64
111	2008	194	645	67.61	86.2	na	na	na	13.43
111	2008	194	700	69.35	84.6	na	na	na	13.41
111	2008	194	715	70.6	82.7	3.059	253.2	16.67	13.4
111	2008	194	730	71.2	81.6	5.092	260.2	17.69	13.38
111	2008	194	745	71.8	79.9	5.949	257.7	20.86	13.37
111	2008	194	800	72.7	77.1	4.414	278.3	25.47	13.35
111	2008	194	815	73.2	74.6	4.565	282.3	24.06	13.34
111	2008	194	830	73.9	66.47	5.373	272.3	23.75	13.32
111	2008	194	845	74.3	62.76	5.372	268.6	26.29	13.31
111	2008	194	900	76	59.04	4.095	309.1	35.58	13.3
111	2008	194	915	76.2	58.51	5.28	265.9	26.72	13.29
111	2008	194	930	75.9	64.86	5.296	274.1	26.72	13.28
111	2008	194	945	76.4	64.78	5.318	277.4	28.75	13.28
111	2008	194	1000	76.6	65.74	5.483	287.9	32.8	13.27
111	2008	194	1015	76.5	64.84	6.338	276.9	38.54	13.26
111	2008	194	1030	75.6	64.17	8	273.5	26.28	13.26
111	2008	194	1045	76.1	57.05	7.03	270.2	26.88	13.26
111	2008	194	1100	76.7	58.49	7.7	271.8	20.29	13.25
111	2008	194	1115	77.4	56.75	6.575	265	27.17	13.25
111	2008	194	1130	77.5	50.47	7.42	275.8	26.77	13.24
111	2008	194	1145	77.6	48.6	6.958	268.1	24.68	13.24
111	2008	194	1200	78.7	47.76	5.808	292.9	36.98	13.23
111	2008	194	1215	79	46.36	6.384	283.7	29.49	13.23

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	194	1230	78.7	46.52	6.678	283.8	34.55	13.22
111	2008	194	1245	79.3	46.22	7.25	281.1	35.76	13.22
111	2008	194	1300	80.1	45.32	6.074	293.2	38.75	13.22
111	2008	194	1315	79.4	46.06	7.92	302.2	29.81	13.21
111	2008	194	1330	78.5	46.26	8.57	280	26.9	13.22
111	2008	194	1345	78.7	47.96	8.54	273.8	26.55	13.22
111	2008	194	1400	79.1	51.37	7.65	278.3	35.77	13.22
111	2008	194	1415	79.4	51.97	7.11	274.7	33.85	13.22
111	2008	194	1430	79.8	48.46	6.662	313.4	38.31	13.22
111	2008	194	1445	80.4	47.43	6.132	315.1	42.15	13.22
111	2008	194	1500	80.2	49.16	6.865	303.2	36.8	13.22
111	2008	194	1515	79.4	51.27	7.14	283.1	30.88	13.2
111	2008	194	1530	79.1	51.1	6.632	290.5	32.33	13.16
111	2008	194	1545	79.4	52.41	6.865	299	37.79	13.11
111	2008	194	1600	78.4	56.25	7.7	278.1	33.12	13.09
111	2008	194	1615	78	59.46	7.66	274.3	25.04	13.07
111	2008	194	1630	77.5	58.72	7.79	282.5	29.06	13.04
111	2008	194	1645	78.1	60.7	6.265	301.7	36.47	13.01
111	2008	194	1700	77.7	60.23	6.265	306.3	39.14	12.98
111	2008	194	1715	77.4	63.07	6.545	285	37.76	12.96
111	2008	194	1730	76.8	63.94	7.35	288	29.94	12.96
111	2008	194	1745	76.6	62.4	6.078	292.5	40.3	12.93
111	2008	194	1800	76.7	64.54	6.14	300.5	35.55	12.9
111	2008	194	1815	75.8	70.1	6.303	281.6	27.88	12.88
111	2008	194	1830	75	72.1	7.1	275	26.93	12.86
111	2008	194	1845	74.6	74.9	6.674	295.2	29.97	12.82
111	2008	194	1900	74.2	76.2	5.437	291.9	30.25	12.8
111	2008	194	1915	74	76.8	5.973	294.9	32.22	12.78
111	2008	194	1930	73.6	78.3	5.894	302.3	30.13	12.76
111	2008	194	1945	73.4	78.7	5.175	301.4	32.09	12.76
111	2008	194	2000	73.1	79.4	4.752	302.2	32.73	12.76
111	2008	194	2015	72.8	80.5	4.424	303.1	36.9	12.75
111	2008	194	2030	72.5	81.5	4.156	304.7	38.56	12.74
111	2008	194	2045	72.2	81.9	4.589	306.3	30.04	12.74
111	2008	194	2100	72.1	82.4	4.172	307.1	32.43	12.73
111	2008	194	2115	72	82.6	4.198	300.4	32.13	12.72
111	2008	194	2130	72	82.4	3.936	304.4	30.26	12.73
111	2008	194	2145	71.8	82.5	3.892	303	27.51	12.72
111	2008	194	2200	71.7	83	3.821	305.2	29.32	12.71
111	2008	194	2215	71.7	83.4	3.579	297	30.01	12.71
111	2008	194	2230	71.5	83.6	3.769	301.6	29.17	12.7
111	2008	194	2245	71.5	83.5	3.946	304.5	29.34	12.69
111	2008	194	2300	71.3	84	3.64	301	27.26	12.69
111	2008	194	2315	71.2	84	4.182	307.5	28.02	12.69
111	2008	194	2330	71.2	83.9	3.926	300.1	29.3	12.69
111	2008	194	2345	71.1	83.8	3.932	302	31.22	12.68
111	2008	194	2400	70.9	84.5	3.056	307.5	31.59	12.67
111	2008	195	15	70.9	85	3.056	300.7	29.15	12.67
111	2008	195	30	70.9	85.7	3.097	318.5	32.07	12.66
111	2008	195	45	70.8	86.5	2.68	309.6	32.31	12.66
111	2008	195	100	70.8	86.7	2.712	306.5	28.69	12.65
111	2008	195	115	70.7	87.4	2.56	304.9	25.01	12.65
111	2008	195	130	70.5	87.8	2.653	302.8	25.68	12.65
111	2008	195	145	70.5	88.2	2.328	301.8	24.12	12.64
111	2008	195	200	70.5	88.3	2.77	297.8	24.58	12.64
111	2008	195	215	70.4	88.5	2.866	296.4	26.73	12.63
111	2008	195	230	70.3	88.8	2.309	317.1	26.83	12.63
111	2008	195	245	70.2	89.1	2.933	308.8	29.96	12.63
111	2008	195	300	70.3	88.7	3.269	305.6	30.69	12.62
111	2008	195	315	70.2	88.6	2.745	319.5	29.67	12.6

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	195	330	70	88.6	2.466	319.2	25.22	12.61
111	2008	195	345	70	88.3	2.753	317.4	25.58	12.6
111	2008	195	400	69.96	88.2	2.616	311.8	31.62	12.6
111	2008	195	415	69.98	87.8	3.058	311.1	27.81	12.59
111	2008	195	430	70	87.8	3.203	302	33.93	12.58
111	2008	195	445	70	87.5	3.219	307.6	28.41	12.57
111	2008	195	500	69.95	87.8	2.907	307.3	30.12	12.57
111	2008	195	515	69.92	88.2	2.63	316.9	32.78	12.57
111	2008	195	530	69.79	88.4	2.452	316	30.2	12.57
111	2008	195	545	69.61	88.7	2.292	309.3	27.9	12.56
111	2008	195	600	69.79	88.3	3.112	299.6	25.76	12.55
111	2008	195	615	70.3	86.9	3.247	302.7	30.35	12.83
111	2008	195	630	70.9	85.6	3.872	295.8	29.34	13.36
111	2008	195	645	71.5	83.5	4.907	287.2	27.73	13.36
111	2008	195	700	72.2	81.1	4.645	301	31.57	13.35
111	2008	195	715	72.8	80	4.496	296.2	33.13	13.34
111	2008	195	730	73.3	78.8	4.978	288.1	28.68	13.33
111	2008	195	745	73.6	77	5.346	298	30.47	13.32
111	2008	195	800	74.4	75.8	4.8	297.5	29.73	13.31
111	2008	195	815	74.8	74.5	5.783	289.9	39.49	13.31
111	2008	195	830	74.8	74.6	6.253	285.7	29.03	13.3
111	2008	195	845	75.4	73.1	5.636	292.7	41.06	13.29
111	2008	195	900	75.4	72.2	7.24	279.1	25.62	13.28
111	2008	195	915	75.7	70.8	6.628	277.7	25.32	13.28
111	2008	195	930	76	71.3	7.59	277.5	27.39	13.27
111	2008	195	945	76.8	66.05	5.9	300.2	41.44	13.26
111	2008	195	1000	77.3	66.08	7.36	318.9	36.34	13.26
111	2008	195	1015	77.2	65.81	6.793	304.5	35.5	13.26
111	2008	195	1030	78.3	64.14	6.057	309.9	35.89	13.25
111	2008	195	1045	78.4	62.33	6.531	306.7	35.78	13.24
111	2008	195	1100	78.3	64.71	6.968	298	34.71	13.24
111	2008	195	1115	78.7	61.4	6.108	292.2	43.38	13.24
111	2008	195	1130	79	59.73	7.19	301	35.37	13.23
111	2008	195	1145	79.6	59.79	6.833	317	37.91	13.23
111	2008	195	1200	80.2	58.99	6.954	317.3	36.95	13.22
111	2008	195	1215	78.8	63.47	8.43	273	23.41	13.22
111	2008	195	1230	78.8	63.47	8.22	279.7	30.21	13.22
111	2008	195	1245	78.5	63.17	8.14	273.9	32.61	13.22
111	2008	195	1300	78.5	66.01	7.98	266.6	26.75	13.22
111	2008	195	1315	79.7	62	6.497	286.2	38.42	13.22
111	2008	195	1330	78.5	66.28	8.39	276.2	25.83	13.22
111	2008	195	1345	78.3	64.67	8.59	273.3	31.72	13.21
111	2008	195	1400	78.3	64.54	8.26	270.1	28.52	13.22
111	2008	195	1415	78.5	66.58	8.94	262.3	25.74	13.22
111	2008	195	1430	78.8	66.78	8.85	258.1	18.42	13.22
111	2008	195	1445	78.6	68.15	9.04	266.4	20.75	13.11
111	2008	195	1500	79.2	68.68	8.62	265.3	24.79	13.02
111	2008	195	1515	79.2	67.48	7.98	276.1	29.65	13
111	2008	195	1530	79.7	65.24	7.28	293.7	43.87	12.99
111	2008	195	1545	79.7	66.68	7	288.1	39.51	12.97
111	2008	195	1600	79	69.75	7.55	283	30.52	13.02
111	2008	195	1615	78.9	71.1	8.73	269.6	27.08	13.01
111	2008	195	1630	78.6	70.7	7.98	274.7	25.5	12.98
111	2008	195	1645	78.1	72.5	9.05	259.5	22.34	12.92
111	2008	195	1700	78.2	73.8	7.82	263.6	29.41	12.9
111	2008	195	1715	78	72.4	6.7	275.7	24.99	12.87
111	2008	195	1730	77.8	73.6	7.05	281.1	35.21	12.86
111	2008	195	1745	77.7	74.7	6.394	282	28.82	12.83
111	2008	195	1800	77.5	75.3	6.626	278.5	27.69	12.82
111	2008	195	1815	76.7	79.1	6.523	268	25.23	12.88

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	195	1830	75.9	80.7	6.883	267.4	23.19	12.86
111	2008	195	1845	75.9	79.7	6.106	277.6	27.58	12.8
111	2008	195	1900	75.7	81.2	6.817	276.9	22.83	12.78
111	2008	195	1915	75.2	82.7	5.767	276.5	29.42	12.77
111	2008	195	1930	74.9	84	6.031	276.3	25.14	12.76
111	2008	195	1945	74.8	84.9	4.49	277.9	28.09	12.76
111	2008	195	2000	74.5	86.1	4.925	279.5	25.28	12.75
111	2008	195	2015	74.1	87.1	5.469	274.4	22.28	12.74
111	2008	195	2030	73.9	88	4.335	290.2	30.88	12.73
111	2008	195	2045	73.7	88.7	4.337	286.9	27.31	12.73
111	2008	195	2100	73.4	89.3	3.837	300.5	28.72	12.73
111	2008	195	2115	73.2	89.9	3.258	294.8	36.13	12.73
111	2008	195	2130	73.2	90.2	3.948	281.8	22.93	12.71
111	2008	195	2145	73.1	90.6	3.892	285.5	25.34	12.71
111	2008	195	2200	73	91	2.551	306.9	28.27	12.71
111	2008	195	2215	72.8	91.3	2.748	319.9	34.86	12.7
111	2008	195	2230	72.8	91.3	2.933	287.6	29.13	12.69
111	2008	195	2245	72.8	91.3	3.025	311.9	30.57	12.69
111	2008	195	2300	72.7	91.2	3.183	296.8	33.59	12.69
111	2008	195	2315	72.7	90.7	2.598	313.2	31.38	12.68
111	2008	195	2330	72.6	89.7	2.635	319.5	33.53	12.67
111	2008	195	2345	72.5	88.7	2.693	315.6	33.21	12.67
111	2008	195	2400	72.7	88.3	2.643	304.4	29.5	12.67
111	2008	196	15	72.7	88.7	3.16	323.7	31.38	12.66
111	2008	196	30	72.6	89.2	3.71	338.5	31.38	12.66
111	2008	196	45	72.7	88.6	4.524	319.4	27.05	12.65
111	2008	196	100	72.8	87.5	5.304	324.6	27.79	12.65
111	2008	196	115	72.9	87	4.861	330.2	29.99	12.65
111	2008	196	130	73	86.6	4.909	329.9	33.56	12.64
111	2008	196	145	73	87.1	4.214	325.1	31.06	12.64
111	2008	196	200	73	86.8	5.074	330.5	26.52	12.63
111	2008	196	215	72.8	86.9	4.299	331.3	30.53	12.63
111	2008	196	230	72.9	85.9	5.808	337.3	25.94	12.63
111	2008	196	245	73	85.2	5.854	338.3	24.45	12.62
111	2008	196	300	73	84.3	6.128	338.5	24.98	12.62
111	2008	196	315	72.9	84.3	5.935	341.6	28.95	12.61
111	2008	196	330	72.9	84.8	5.262	343.2	36.89	12.61
111	2008	196	345	72.8	85.1	4.486	347.2	28.52	12.61
111	2008	196	400	72.6	85.6	4.146	349.1	25.04	12.6
111	2008	196	415	72.6	85.1	5.334	344.8	24.83	12.59
111	2008	196	430	72.6	85.3	5.177	344.4	25.91	12.59
111	2008	196	445	72.3	86.4	5.084	350	30.72	12.58
111	2008	196	500	72.1	87.2	3.6	345.9	26.76	12.58
111	2008	196	515	71.9	87.8	2.444	337.4	26.45	12.57
111	2008	196	530	71.7	88.1	4.482	346.1	25.75	12.57
111	2008	196	545	71.8	88.2	4.746	352.4	30.23	12.57
111	2008	196	600	72	88	5.644	353.2	25.92	12.57
111	2008	196	615	72.3	86.8	5.264	357.9	25.83	12.57
111	2008	196	630	72.5	84.2	5.105	2.645	28.04	12.56
111	2008	196	645	72.7	82.8	4.746	21.58	24.53	12.57
111	2008	196	700	72.8	82	3.298	48.77	33.58	12.57
111	2008	196	715	73.3	80.6	1.926	70.4	29.05	12.58
111	2008	196	730	74.9	77.6	2.768	76.2	36.23	13.23
111	2008	196	745	74.3	77.2	3.289	74.6	32.86	13
111	2008	196	800	73.8	76.7	2.41	55.32	35.11	12.91
111	2008	196	815	74	72.7	2.717	62.86	41.77	12.96
111	2008	196	830	74.6	71.4	2.766	60.9	42.84	13.11
111	2008	196	845	76	70.7	3.869	100.5	39.29	13.28
111	2008	196	900	75.1	70.5	3.179	103.9	44.48	13.28
111	2008	196	915	76.7	70.9	3.88	77	43.94	13.27

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	196	930	75.2	72.2	3.356	78.8	50.33	13.26
111	2008	196	945	75.3	59.3	3.342	95	42.65	13.26
111	2008	196	1000	75.6	59.9	3.01	104.5	47.53	13.26
111	2008	196	1015	77.4	52.44	2.963	83.9	43.87	13.26
111	2008	196	1030	80.8	45.56	4.069	67.45	39.21	13.23
111	2008	196	1045	79.7	46.59	4.363	106.5	42.63	13.22
111	2008	196	1100	77.2	52.44	3.696	67.02	35.54	13.23
111	2008	196	1115	76.1	50.27	2.436	62.76	71.1	13.22
111	2008	196	1130	77.5	51.34	3.033	35.83	39.31	13.24
111	2008	196	1145	78	47.26	2.093	41.02	54.39	13.24
111	2008	196	1200	78.6	48.83	2.969	52.91	30.64	13.24
111	2008	196	1215	78.9	52.01	3.179	39.63	39.93	13.24
111	2008	196	1230	78.5	53.07	3.819	39.51	32.36	13.24
111	2008	196	1245	77.7	52.97	2.847	38.23	29.07	13.24
111	2008	196	1300	77.4	53.68	2.729	30.07	63.9	13.24
111	2008	196	1315	78.2	48.46	3.297	67.3	38.36	13.24
111	2008	196	1330	80.3	46.49	3.019	85	49.09	13.24
111	2008	196	1345	78.9	50.47	3.847	51.47	43.89	13.23
111	2008	196	1400	78.7	49.4	2.823	49.17	38.17	13.24
111	2008	196	1415	79.8	48.33	3.596	49.05	34.93	13.24
111	2008	196	1430	79.6	49.26	4.492	39.94	26.94	13.24
111	2008	196	1445	79.3	46.49	3.742	43.25	41.35	13.24
111	2008	196	1500	79.7	50	4.51	31.71	25.69	13.24
111	2008	196	1515	80.5	47.36	3.106	55.64	49.97	13.24
111	2008	196	1530	81.6	45.09	3.789	83.1	30.55	13.23
111	2008	196	1545	82.3	43.85	3.64	60.52	46.5	13.22
111	2008	196	1600	82.8	42.08	3.285	86.2	38.86	13.21
111	2008	196	1615	82.8	41.01	4.337	75.5	35.5	13.21
111	2008	196	1630	82.3	39.27	3.569	47.68	36.06	13.21
111	2008	196	1645	82.8	38.44	3.801	53.71	39.34	13.22
111	2008	196	1700	82.9	36.73	3.34	98.9	47.25	13.21
111	2008	196	1715	82.6	40.44	2.89	44.01	44.28	13.21
111	2008	196	1730	81.9	40.31	2.955	54.97	38.43	13.22
111	2008	196	1745	81.9	41.58	2.816	60.97	40.35	13.22
111	2008	196	1800	81.6	40.44	3.162	83	32.62	13.23
111	2008	196	1815	82.2	42.51	2.409	78.1	45.64	13.08
111	2008	196	1830	82.8	43.52	2.502	56.46	44.12	12.95
111	2008	196	1845	81	57.99	2.866	357.9	25.96	12.87
111	2008	196	1900	78.2	67.71	3.577	330	26.24	12.83
111	2008	196	1915	76.8	69.02	3.08	334.5	23.02	12.81
111	2008	196	1930	76.4	69.76	3.12	340.1	20.41	12.79
111	2008	196	1945	76.2	68.1	2.918	339.3	29.2	12.78
111	2008	196	2000	76	66.97	2.624	339.6	19.21	12.77
111	2008	196	2015	75.9	66.33	2.598	342.8	19.74	12.76
111	2008	196	2030	75.7	66.13	1.281	19.13	21.4	12.76
111	2008	196	2045	75.6	66.13	1.12	355.3	26.36	12.76
111	2008	196	2100	75.4	67.37	1.807	334.5	16.76	12.75
111	2008	196	2115	74.7	69.01	1.457	331.6	16.49	12.75
111	2008	196	2130	74.1	70.5	0.962	343.7	16.7	12.74
111	2008	196	2145	73.4	72.9	0.257	357.6	12.54	12.73
111	2008	196	2200	72.5	74.9	1.325	28.02	13.42	12.73
111	2008	196	2215	72.1	75.7	0.767	31.05	12.69	12.72
111	2008	196	2230	71.5	76.8	0.819	24.13	11.07	12.71
111	2008	196	2245	71.2	77.3	0.614	17.44	15.17	12.71
111	2008	196	2300	70.7	78.8	0.345	25.32	6.413	12.7
111	2008	196	2315	70.2	79.8	0.527	18.36	7.66	12.69
111	2008	196	2330	69.9	80.8	0.124	26.66	4.354	12.69
111	2008	196	2345	69.48	82	na	na	na	12.68
111	2008	196	2400	69.18	82.9	na	na	na	12.67
111	2008	197	15	68.9	83.7	na	na	na	12.66

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	197	30	68.45	84.6	na	na	na	12.65
111	2008	197	45	68	85.7	na	na	na	12.65
111	2008	197	100	67.58	86.8	na	na	na	12.65
111	2008	197	115	67.41	87.7	na	na	na	12.65
111	2008	197	130	67.52	87.7	na	na	na	12.64
111	2008	197	145	67.34	87.9	na	na	na	12.63
111	2008	197	200	67.14	88.6	na	na	na	12.63
111	2008	197	215	66.96	88.7	na	na	na	12.62
111	2008	197	230	66.59	89.1	na	na	na	12.62
111	2008	197	245	66.23	89.6	na	na	na	12.61
111	2008	197	300	65.93	90.1	na	na	na	12.61
111	2008	197	315	65.8	90.6	na	na	na	12.6
111	2008	197	330	65.8	90.7	0.238	64.9	11.24	12.59
111	2008	197	345	65.7	91.1	0.018	38.16	1.668	12.59
111	2008	197	400	65.69	91.1	0.151	24.48	4.502	12.59
111	2008	197	415	65.47	91.1	na	na	na	12.58
111	2008	197	430	65.25	91.2	na	na	na	12.57
111	2008	197	445	65.06	91.4	na	na	na	12.57
111	2008	197	500	64.64	91.6	na	na	na	12.56
111	2008	197	515	64.18	91.7	na	na	na	12.56
111	2008	197	530	63.89	92.1	na	na	na	12.55
111	2008	197	545	63.69	92.3	na	na	na	12.55
111	2008	197	600	63.58	92.5	na	na	na	12.55
111	2008	197	615	64.1	93	na	na	na	12.87
111	2008	197	630	65.3	92.9	0.104	47.11	6.298	13.43
111	2008	197	645	66.66	92.7	0.018	98.6	0.991	13.42
111	2008	197	700	69.13	86.6	na	na	na	13.4
111	2008	197	715	72.7	70.4	0.076	202.8	9.56	13.39
111	2008	197	730	75.2	61.64	0.244	205.4	23.88	13.36
111	2008	197	745	76.1	60.09	1.2	145.9	31.79	13.34
111	2008	197	800	77	56.47	1.094	121.3	34.31	13.32
111	2008	197	815	78	55.93	2.216	89.5	35.95	13.3
111	2008	197	830	78.7	54.92	2.217	78.2	52.99	13.29
111	2008	197	845	78.8	53.44	3.262	119.8	40.42	13.27
111	2008	197	900	78.5	53.28	3.495	100.3	30.45	13.26
111	2008	197	915	79.4	50.37	2.758	125.1	41.54	13.26
111	2008	197	930	79.9	47.63	3.632	158.7	35.99	13.25
111	2008	197	945	80.5	46.89	3.449	139.3	60.2	13.24
111	2008	197	1000	82.1	45.55	2.716	105.3	46.05	13.22
111	2008	197	1015	82.4	46.02	2.979	142.2	63.33	13.21
111	2008	197	1030	83.4	41.41	3.297	56.74	53.56	13.21
111	2008	197	1045	84.4	39.6	3.525	105.4	62.51	13.2
111	2008	197	1100	83.7	37.25	3.801	110.2	41.92	13.19
111	2008	197	1115	84.3	35.72	3.9	104.9	40.42	13.18
111	2008	197	1130	85.3	35.62	4.268	72.2	51.09	13.18
111	2008	197	1145	84.9	35.68	4.077	130.2	49.72	13.17
111	2008	197	1200	85.3	34.35	4.121	150.6	53.09	13.16
111	2008	197	1215	85.5	32.28	4.082	122.7	57.4	13.17
111	2008	197	1230	86	32.41	4.99	140.4	57.52	13.16
111	2008	197	1245	85.9	31.71	3.477	154.5	71.4	13.1
111	2008	197	1300	85.3	37.29	3.255	127	86.7	13.13
111	2008	197	1315	82.4	63.68	6.607	271.6	31	13.13
111	2008	197	1330	79.7	60.81	7.25	267.1	24.74	13.19
111	2008	197	1345	80.2	61.32	8.03	253.1	19.15	13.19
111	2008	197	1400	80.5	55.25	7.54	255.4	23.56	13.2
111	2008	197	1415	81.2	50.73	6.898	284.2	34.37	13.19
111	2008	197	1430	81.6	50.67	6.186	286	26.87	13.19
111	2008	197	1445	82.7	48.03	6.46	287.8	30.87	13.19
111	2008	197	1500	82.4	46.66	6.023	287	31.64	13.1
111	2008	197	1515	83.8	45.05	5.205	300.6	31.41	13.04

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	197	1530	83.6	44.91	5.794	281.1	31.83	13.06
111	2008	197	1545	84	42.77	4.899	295.2	33.28	13.07
111	2008	197	1600	84.1	44.31	5.733	283.2	43.53	13.16
111	2008	197	1615	83.6	44.91	5.02	292.1	37.52	13.17
111	2008	197	1630	82.5	45.14	6.984	251.8	16.82	13.1
111	2008	197	1645	81.6	45.52	7.7	258.4	17.3	13.03
111	2008	197	1700	81.6	45.75	6.184	275.3	33.42	12.94
111	2008	197	1715	82	46.39	5.278	296.1	33.37	12.92
111	2008	197	1730	82	45.52	4.835	293.2	30.63	12.89
111	2008	197	1745	82	42.08	4.669	309.3	40.5	12.86
111	2008	197	1800	81.7	46.62	5.373	281.8	36.62	12.84
111	2008	197	1815	80.2	48.6	6.267	259.3	18.49	12.82
111	2008	197	1830	80	46.29	4.486	284.2	34.23	12.8
111	2008	197	1845	80	48.56	3.521	291.1	34.73	12.79
111	2008	197	1900	79.2	52.34	4.275	284.8	31.67	12.78
111	2008	197	1915	78.3	53.41	3.89	300.6	32.22	12.78
111	2008	197	1930	77.9	58.57	3.424	307.8	29.32	12.76
111	2008	197	1945	77.2	62.05	3.112	295	29.94	12.76
111	2008	197	2000	76.4	64.59	2.471	311.8	25.92	12.75
111	2008	197	2015	75.7	65.36	0.864	314.3	14.38	12.75
111	2008	197	2030	75.3	66.47	0.46	300.4	15.99	12.74
111	2008	197	2045	74.8	67.54	0.842	327.7	20.12	12.73
111	2008	197	2100	74.2	70.4	0.93	335.4	20.7	12.73
111	2008	197	2115	73.5	71.9	0.117	308.7	9.01	12.71
111	2008	197	2130	73	74.2	0.278	33.37	5.211	12.71
111	2008	197	2145	72.3	76.1	0.134	16.08	6.193	12.71
111	2008	197	2200	72	77.4	na	na	na	12.69
111	2008	197	2215	71.5	78.7	na	na	na	12.69
111	2008	197	2230	71.2	78.3	na	na	na	12.68
111	2008	197	2245	70.8	79.5	na	na	na	12.67
111	2008	197	2300	70.2	81.4	na	na	na	12.67
111	2008	197	2315	69.64	83.1	na	na	na	12.66
111	2008	197	2330	69.39	84.4	na	na	na	12.65
111	2008	197	2345	69.26	85.3	na	na	na	12.65
111	2008	197	2400	69.02	86	na	na	na	12.64
111	2008	198	15	68.85	87	na	na	na	12.63
111	2008	198	30	68.62	87.3	na	na	na	12.63
111	2008	198	45	68.43	88	na	na	na	12.63
111	2008	198	100	68.22	88.4	na	na	na	12.62
111	2008	198	115	68	88.8	na	na	na	12.61
111	2008	198	130	67.82	89.3	na	na	na	12.61
111	2008	198	145	67.68	89.4	na	na	na	12.6
111	2008	198	200	67.51	89.9	na	na	na	12.6
111	2008	198	215	67.49	89.7	na	na	na	12.59
111	2008	198	230	67.37	89.4	na	na	na	12.59
111	2008	198	245	67	89.9	na	na	na	12.58
111	2008	198	300	66.83	90	na	na	na	12.57
111	2008	198	315	66.52	90.4	na	na	na	12.57
111	2008	198	330	66.22	90.9	na	na	na	12.57
111	2008	198	345	66.23	91	0.085	112.6	2.075	12.56
111	2008	198	400	66.25	90.7	0.722	99.2	16.22	12.55
111	2008	198	415	66.11	90.4	na	na	na	12.55
111	2008	198	430	65.7	90.5	na	na	na	12.55
111	2008	198	445	65.22	90.9	na	na	na	12.55
111	2008	198	500	64.88	91.3	na	na	na	12.53
111	2008	198	515	64.73	91.4	0.16	65.6	11.03	12.53
111	2008	198	530	64.72	91.2	0.378	77.3	13.98	12.52
111	2008	198	545	64.67	90.8	0.187	59.24	18.11	12.52
111	2008	198	600	64.76	90.8	na	na	na	12.53
111	2008	198	615	65.33	90.3	0.035	118.7	2.695	12.99

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	198	630	66.61	87.9	0.257	114.4	13.65	13.43
111	2008	198	645	68.04	83.5	0.885	131.1	24.67	13.41
111	2008	198	700	69.7	80.2	1.52	133.7	30.37	13.4
111	2008	198	715	71.8	76.2	1.373	111.8	26.57	13.37
111	2008	198	730	73.2	73.6	1.791	164.5	33.93	13.37
111	2008	198	745	74.4	72.4	2.377	127	42.73	13.35
111	2008	198	800	75.3	68.14	2.086	134.8	41.34	13.33
111	2008	198	815	76.4	66.27	2.394	178.7	34.46	13.31
111	2008	198	830	77.5	62.35	1.771	143.7	39.2	13.3
111	2008	198	845	78.2	61.48	2.051	165.7	33.04	13.29
111	2008	198	900	78.7	61.33	2.255	188.1	52.71	13.27
111	2008	198	915	80.2	57.02	2.674	108.1	64.41	13.26
111	2008	198	930	80.8	51.34	2.443	156.9	61.23	13.24
111	2008	198	945	80.6	54.41	2.713	205.6	45.07	13.24
111	2008	198	1000	80.9	51.87	2.852	222.1	41.93	13.23
111	2008	198	1015	81.6	48.66	3.279	205.5	67.41	13.22
111	2008	198	1030	83.6	39.77	1.83	116.5	71.3	13.21
111	2008	198	1045	85	38.36	2.975	104.3	56.43	13.15
111	2008	198	1100	85.9	37.16	2.672	358.8	67.16	13.19
111	2008	198	1115	82.9	60.17	3.3	275.1	45.11	13.18
111	2008	198	1130	80.2	61.04	5.052	267.1	22.26	13.19
111	2008	198	1145	80.1	60.12	6.68	260	17.47	13.2
111	2008	198	1200	80.3	51.8	6.66	261.2	24.69	13.2
111	2008	198	1215	80.7	52.44	6.466	268.6	29.69	13.2
111	2008	198	1230	80.6	53.81	6.301	266	21.83	13.2
111	2008	198	1245	80.2	51.74	6.964	262.1	15.32	13.2
111	2008	198	1300	81.8	52.64	5.354	268.5	35.13	13.2
111	2008	198	1315	81.5	46.36	6.364	264.8	29.01	13.2
111	2008	198	1330	81.3	48.76	6.247	272.6	27.21	13.2
111	2008	198	1345	81.1	56.05	6.704	264.9	18.15	13.2
111	2008	198	1400	80.5	65.14	7.11	264.7	24.71	13.2
111	2008	198	1415	80.3	61.53	6.317	278.5	34.45	13.2
111	2008	198	1430	81	61.5	6.612	277.7	29.35	13.2
111	2008	198	1445	80.3	63.9	7.35	252.1	19.8	13.08
111	2008	198	1500	79.7	64.51	6.597	262.2	25.25	13
111	2008	198	1515	79.6	63.3	7.22	253.8	16.03	12.97
111	2008	198	1530	80.6	61.86	5.741	272.8	31.17	12.94
111	2008	198	1545	79.2	62.27	7.54	265.5	22.46	12.92
111	2008	198	1600	79.3	61.53	7.37	256.8	16.25	12.91
111	2008	198	1615	79.6	57.42	6.017	266.1	23.77	12.89
111	2008	198	1630	80.2	60.86	6.029	267.9	26.4	12.88
111	2008	198	1645	79.2	62.6	6.863	254.9	13.7	12.87
111	2008	198	1700	79.5	62.1	6.039	268.3	30.74	12.86
111	2008	198	1715	79.1	58.79	6.368	261.1	24.58	12.84
111	2008	198	1730	80	57.89	5.036	285.1	40.47	12.83
111	2008	198	1745	79.5	62	6.051	277.6	28.59	12.82
111	2008	198	1800	78.9	61.13	5.679	272.2	34.15	12.8
111	2008	198	1815	78.5	63.27	5.646	267.5	23.92	12.79
111	2008	198	1830	78.8	60.86	4.162	292.1	39.53	12.78
111	2008	198	1845	79	66.24	4.275	289.4	47.33	12.78
111	2008	198	1900	77.7	61.77	4.814	277.2	29.57	12.77
111	2008	198	1915	77.7	60.94	4.246	294.4	31.2	12.76
111	2008	198	1930	77.3	59.61	3.473	304.2	32.24	12.76
111	2008	198	1945	77	60.58	3.376	285.7	26.42	12.75
111	2008	198	2000	76.5	62.05	1.97	317	34.59	12.74
111	2008	198	2015	75.9	64.19	1.612	306.9	23.75	12.74
111	2008	198	2030	75.3	65.46	1.715	302.3	25.92	12.73
111	2008	198	2045	74.8	65.86	1.509	319.6	21.57	12.72
111	2008	198	2100	74.3	68.34	0.341	332.1	10.25	12.71
111	2008	198	2115	73.8	70.7	0.503	331.9	15.62	12.7

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	198	2130	73.4	71.5	1.023	329.6	19.7	12.7
111	2008	198	2145	73.2	72	0.884	345.2	15.54	12.68
111	2008	198	2200	72.7	74.4	1.116	6.039	26.54	12.68
111	2008	198	2215	72.2	76	0.317	26.04	6.994	12.67
111	2008	198	2230	71.9	76.8	0.089	334	4.705	12.66
111	2008	198	2245	71.8	77.7	0.065	18.91	3.09	12.66
111	2008	198	2300	71.3	79	0.084	20.6	2.186	12.66
111	2008	198	2315	71	79.7	0.018	302.4	2.493	12.65
111	2008	198	2330	70.9	80.1	na	na	na	12.65
111	2008	198	2345	70.6	80.8	na	na	na	12.63
111	2008	198	2400	70.2	81.9	na	na	na	12.63
111	2008	199	15	69.97	82.7	na	na	na	12.62
111	2008	199	30	69.7	83.5	na	na	na	12.62
111	2008	199	45	69.73	83.5	na	na	na	12.61
111	2008	199	100	69.51	84.3	na	na	na	12.61
111	2008	199	115	69.27	85.2	na	na	na	12.6
111	2008	199	130	69.21	85.4	na	na	na	12.6
111	2008	199	145	69.3	84.7	na	na	na	12.59
111	2008	199	200	69.27	83.9	0.018	37.85	0.301	12.58
111	2008	199	215	69.1	84.6	na	na	na	12.58
111	2008	199	230	68.9	84.7	na	na	na	12.57
111	2008	199	245	69.02	82.9	0.378	337.5	9.45	12.57
111	2008	199	300	69.33	79.7	0.1	12.77	10.26	12.56
111	2008	199	315	69.78	75.8	0.045	21.42	2.751	12.55
111	2008	199	330	70.1	74.4	0.44	21.42	8.97	12.55
111	2008	199	345	70	75.2	0.127	31.99	5.467	12.55
111	2008	199	400	69.97	74.9	0.348	46.19	7.28	12.55
111	2008	199	415	69.99	76.1	0.069	323.3	4.082	12.55
111	2008	199	430	69.78	77.7	0.029	317.1	1.438	12.54
111	2008	199	445	69.08	80.4	0.018	42.48	0.215	12.54
111	2008	199	500	68.54	82.3	na	na	na	12.53
111	2008	199	515	68.18	84	na	na	na	12.53
111	2008	199	530	68.12	84.7	na	na	na	12.53
111	2008	199	545	68.16	84.7	na	na	na	12.53
111	2008	199	600	68.02	85.1	na	na	na	12.53
111	2008	199	615	68.47	84.6	na	na	na	12.75
111	2008	199	630	69.51	81.5	na	na	na	13.4
111	2008	199	645	71.2	76.9	0.313	106.5	8.44	13.38
111	2008	199	700	73.2	71.3	na	na	na	13.33
111	2008	199	715	74.7	69.03	0.359	54.44	17.56	13.35
111	2008	199	730	75.5	66.44	1.304	41.27	31	13.33
111	2008	199	745	76.1	66.77	1.944	30.81	27.61	13.32
111	2008	199	800	76.9	61.42	2.32	38.55	37.28	13.3
111	2008	199	815	78.3	58.21	2.35	42.67	34.04	13.3
111	2008	199	830	78.9	54.32	3.036	73.8	37.46	13.28
111	2008	199	845	80.2	55.18	2.365	92.2	34.87	13.27
111	2008	199	900	80.8	53.84	2.271	110.1	48.96	13.25
111	2008	199	915	81.2	52.27	2.502	137.9	61.39	13.24
111	2008	199	930	81.7	49.73	2.721	110.2	40.32	13.24
111	2008	199	945	82.2	49.63	3.402	158.3	44.71	13.22
111	2008	199	1000	83.1	47.46	3.289	160.9	61.77	13.22
111	2008	199	1015	84.2	48.16	3.501	140.7	47.07	13.21
111	2008	199	1030	85	47.02	3.302	144.5	51.53	13.19
111	2008	199	1045	85.7	44.54	2.741	108.3	50.46	13.19
111	2008	199	1100	86.5	44.34	3.342	174.8	52.18	13.18
111	2008	199	1115	86.2	47.58	3.028	205.5	45.18	13.18
111	2008	199	1130	87.2	43.13	2.912	180.3	60.1	13.17
111	2008	199	1145	86	49.95	5.749	275.2	34.25	13.16
111	2008	199	1200	84.7	54.03	5.701	260	26.26	13.16
111	2008	199	1215	83.9	52.99	5.878	269.9	29.8	13.17

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	199	1230	84.7	49.95	4.943	291.1	42.53	13.17
111	2008	199	1245	84.9	50.82	5.207	280.6	30.98	13.16
111	2008	199	1300	84.6	51.65	6.176	271.7	23.82	13.16
111	2008	199	1315	84.7	49.55	5.09	290.9	38.11	13.17
111	2008	199	1330	85.1	46.44	4.915	284.7	35.43	13.17
111	2008	199	1345	85.7	45.07	5.099	294.9	32.68	13.16
111	2008	199	1400	86.4	46.84	4.307	291.2	35.69	13.16
111	2008	199	1415	87.1	44.64	4.929	311.7	34.55	13.15
111	2008	199	1430	86.8	43.57	5.63	313.1	29.55	13.15
111	2008	199	1445	86	45.74	5.953	276.8	25.05	13.15
111	2008	199	1500	86.2	42.87	5.242	317	39.1	13.16
111	2008	199	1515	86	47.91	5.07	311.7	44.8	13.16
111	2008	199	1530	84.9	45.61	5.143	328.4	32.16	13.15
111	2008	199	1545	84.9	50.45	4.867	337.5	33.57	13.17
111	2008	199	1600	84.1	50.52	5.272	323.9	32.08	13.18
111	2008	199	1615	83.2	52.23	5.415	326.2	30.31	13.18
111	2008	199	1630	83.3	52.56	4.341	322.9	37.12	13.19
111	2008	199	1645	83.5	48.29	5.628	325.5	24.16	13.19
111	2008	199	1700	84.3	50.07	5.064	324.9	26.17	13.16
111	2008	199	1715	84.8	48.6	4.508	347	37.3	13.03
111	2008	199	1730	85	46.62	3.845	331	30.8	12.96
111	2008	199	1745	84.5	50.37	4.911	329.3	32.49	12.88
111	2008	199	1800	83.2	52.81	4.498	326.4	29.24	12.85
111	2008	199	1815	81.5	59.26	4.784	331.6	22.17	12.82
111	2008	199	1830	80.3	59.12	4.48	331.7	27.2	12.81
111	2008	199	1845	79.6	59.16	4.494	340.1	24.3	12.79
111	2008	199	1900	79.2	60.53	4.647	346.6	27.8	12.78
111	2008	199	1915	79.1	60.83	3.763	334.5	30.22	12.77
111	2008	199	1930	79	60.8	3.805	336.9	28.75	12.76
111	2008	199	1945	78.9	61.91	3.245	342.6	27.39	12.76
111	2008	199	2000	78.6	59.24	3.326	348	30.22	12.76
111	2008	199	2015	78.5	60.05	3.404	337.6	23.26	12.75
111	2008	199	2030	78.1	62.19	2.123	331	25.86	12.74
111	2008	199	2045	77.6	65.13	1.263	318.6	20.93	12.74
111	2008	199	2100	76.9	66.57	2.274	326.4	22.61	12.73
111	2008	199	2115	76.6	67.44	2.217	346.6	31.88	12.73
111	2008	199	2130	76.5	68.71	2.241	349.7	32.18	12.72
111	2008	199	2145	76.2	70.5	1.225	326.4	21.71	12.72
111	2008	199	2200	75.9	70.6	1.468	316.5	19.47	12.71
111	2008	199	2215	75.8	71.6	1.857	325.3	23.39	12.71
111	2008	199	2230	75.6	73	1.136	290.8	21.95	12.71
111	2008	199	2245	75.4	74.3	1.484	314.2	23.39	12.7
111	2008	199	2300	75.1	76.1	1.264	321.7	22.73	12.69
111	2008	199	2315	74.7	77.2	1.181	330.8	18.76	12.69
111	2008	199	2330	74.5	78.3	0.754	316.1	15.08	12.68
111	2008	199	2345	74.3	80.1	0.902	301.2	24.2	12.68
111	2008	199	2400	74.2	81.4	0.844	325.5	25.28	12.67
111	2008	200	15	74.1	82.6	0.365	263.2	11.93	12.67
111	2008	200	30	74	83.4	0.129	270.3	5.522	12.66
111	2008	200	45	73.9	83.9	0.027	287	0.077	12.66
111	2008	200	100	73.6	85.2	0.273	336.5	9.24	12.65
111	2008	200	115	73.3	86.3	1.141	13.44	26.87	12.65
111	2008	200	130	73	87.6	1.661	26.48	19.24	12.65
111	2008	200	145	72.9	87.7	0.076	18.5	12.33	12.65
111	2008	200	200	72.6	87.9	0.673	28.9	11.3	12.64
111	2008	200	215	72.4	87.9	0.254	356.5	12.14	12.63
111	2008	200	230	72.3	88	0.703	337.4	11.32	12.63
111	2008	200	245	72.2	87.1	1.298	352.5	25.11	12.63
111	2008	200	300	72.1	85.9	1.284	19.05	22.4	12.61
111	2008	200	315	72.1	84.2	1.969	25.02	21.61	12.62

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	200	330	71.9	84.3	0.97	9.64	19.67	12.6
111	2008	200	345	71.7	84.7	0.146	40.84	6.017	12.6
111	2008	200	400	71.2	86.2	0.077	13.89	5.353	12.6
111	2008	200	415	71.1	87.3	0.203	27.83	6.313	12.59
111	2008	200	430	71.3	86.6	1.03	4.112	20.29	12.59
111	2008	200	445	71.3	85.9	1.155	27.48	16.11	12.59
111	2008	200	500	71.4	84.7	0.789	18.81	19.89	12.57
111	2008	200	515	71.1	85.5	0.514	9.6	13.48	12.57
111	2008	200	530	71	85.3	1.307	13.33	23.27	12.57
111	2008	200	545	71	85.1	0.613	13.84	14	12.57
111	2008	200	600	71	84.6	0.798	353.9	17.51	12.57
111	2008	200	615	71.3	84	0.009	303.8	0	12.58
111	2008	200	630	71.9	82.4	na	na	na	13.11
111	2008	200	645	72.4	80	0.463	301.8	33.53	13.15
111	2008	200	700	73.4	77.2	0.207	40.89	11.76	13.31
111	2008	200	715	75	72.4	1.067	36.45	22.44	13.34
111	2008	200	730	76.7	66	1.262	4.907	18.73	13.33
111	2008	200	745	77.8	63.59	2.352	351.3	29.01	13.31
111	2008	200	800	78.3	61.12	2.282	345.9	27.31	13.29
111	2008	200	815	79.5	60.44	2.274	317.3	38.33	13.27
111	2008	200	830	80	58.76	2.666	315.7	44.45	13.26
111	2008	200	845	81	57.86	2.339	335.3	42.52	13.25
111	2008	200	900	81.7	59.76	2.588	313	44.64	13.24
111	2008	200	915	82.2	58.12	3.279	341.9	37.79	13.24
111	2008	200	930	83.1	53.91	2.743	343.7	43.71	13.22
111	2008	200	945	83.8	52.14	2.208	324.4	55.39	13.21
111	2008	200	1000	86.1	50.19	2.975	19.73	48.1	13.2
111	2008	200	1015	85.1	57.77	4.661	338.3	30.37	13.19
111	2008	200	1030	83.6	58.1	5.03	327.3	31.81	13.19
111	2008	200	1045	84.2	57.33	4.339	326.6	32.62	13.19
111	2008	200	1100	84.9	54.73	5.465	330.9	30.18	13.18
111	2008	200	1115	85.4	53.12	5.328	330.4	25.59	13.18
111	2008	200	1130	85.9	53.56	5.731	334.5	26.17	13.17
111	2008	200	1145	86.2	52.86	5.185	333.6	36.16	13.17
111	2008	200	1200	87	52.62	5.344	331.4	35.95	13.17
111	2008	200	1215	86.8	51.85	6.162	326.9	29.8	13.16
111	2008	200	1230	86.7	53.63	6.561	335	33.03	13.16
111	2008	200	1245	86.4	55.2	6.428	336.6	28.42	13.16
111	2008	200	1300	86.7	54.09	6.329	337.8	33.17	13.16
111	2008	200	1315	86.7	51.62	7.3	337	26.39	13.15
111	2008	200	1330	86.6	53.16	7.56	336.8	26.49	13.15
111	2008	200	1345	86.4	55.43	6.674	344.3	27.78	13.16
111	2008	200	1400	86.3	54.86	7.16	338.8	22.74	13.16
111	2008	200	1415	86.9	51.69	6.636	339.4	27.85	13.16
111	2008	200	1430	87.6	53.99	6.092	340.7	34.29	13.15
111	2008	200	1445	87.2	54.76	7.45	323.5	21.57	13.15
111	2008	200	1500	87	55.3	6.718	329.6	29.46	13.15
111	2008	200	1515	87.3	54.89	6.299	337.8	30.99	13.16
111	2008	200	1530	87.1	56.77	6.039	341.2	30.58	13.15
111	2008	200	1545	86.9	56.83	5.846	324.6	32.48	13.15
111	2008	200	1600	86.9	57.63	5.604	319.6	31.63	13.14
111	2008	200	1615	86.9	56.2	5.491	337	36.73	13.05
111	2008	200	1630	87.1	57.17	4.941	326.3	39.54	13.05
111	2008	200	1645	86.3	59.67	5.959	341.2	34.16	13.05
111	2008	200	1700	84.6	62.85	7.03	346.8	28.92	13.02
111	2008	200	1715	83.8	63.48	6.986	335.8	28.97	12.98
111	2008	200	1730	84.4	60.14	6.235	345.5	33.07	12.94
111	2008	200	1745	84.9	60.08	5.711	352.2	26.52	12.9
111	2008	200	1800	84.4	62.63	5.584	336.3	31.34	12.87
111	2008	200	1815	83.9	61.93	4.843	341.1	32.67	12.84

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	200	1830	83.5	62.5	4.822	337.4	38.63	12.81
111	2008	200	1845	83.7	60.39	5.185	345.4	30.43	12.81
111	2008	200	1900	83.5	62.33	5.038	334.6	29.26	12.8
111	2008	200	1915	81.8	66.51	6.158	336.6	24.71	12.78
111	2008	200	1930	80.6	69.89	5.381	343.9	28.83	12.78
111	2008	200	1945	79.7	71.6	4.41	343	25.48	12.76
111	2008	200	2000	79.4	71.9	4.837	348	26.55	12.76
111	2008	200	2015	78.9	73.9	4.949	343.1	29.63	12.76
111	2008	200	2030	78.4	75.4	4.353	349.1	26.18	12.75
111	2008	200	2045	78.2	76.6	3.154	339.5	28.79	12.74
111	2008	200	2100	77.9	77.7	1.98	335.1	25.55	12.73
111	2008	200	2115	77.7	78.5	0.965	334.9	23.15	12.73
111	2008	200	2130	77.5	79.3	0.985	331.5	17.32	12.73
111	2008	200	2145	77.4	79.9	0.911	317.1	18.57	12.72
111	2008	200	2200	77.2	80.9	0.204	291.3	8	12.72
111	2008	200	2215	77.1	81.3	0.418	305.9	12.34	12.71
111	2008	200	2230	77	82.3	0.206	317.1	7.24	12.71
111	2008	200	2245	76.8	83.3	0.469	327.6	16.77	12.7
111	2008	200	2300	76.8	83.6	0.78	325.6	15.2	12.7
111	2008	200	2315	76.9	83	2.008	332	23.1	12.69
111	2008	200	2330	77.3	80.4	2.623	352.3	29.88	12.68
111	2008	200	2345	77.9	75.3	3.92	345.5	24.61	12.68
111	2008	200	2400	78.4	72.7	4.339	354.2	25.56	12.68
111	2008	201	15	78.5	72.6	3.714	355.3	26.21	12.67
111	2008	201	30	78.4	71.6	3.448	352.8	21.91	12.67
111	2008	201	45	78.5	70.5	3.825	350.8	28.98	12.66
111	2008	201	100	78.4	69.94	3.062	355.1	24.05	12.66
111	2008	201	115	78.4	69.41	3.203	353.2	28.36	12.66
111	2008	201	130	78.3	70.4	3.96	352.4	23.95	12.66
111	2008	201	145	77.9	71.2	3.142	344.7	23.13	12.66
111	2008	201	200	77.7	70	2.328	7.02	28.31	12.65
111	2008	201	215	77.9	68.04	2.316	353.7	25.4	12.65
111	2008	201	230	78.1	66.93	3.017	358.2	29.04	12.64
111	2008	201	245	78.2	66.3	3.527	358.4	27.87	12.64
111	2008	201	300	78.3	65.96	4.222	358.4	28.59	12.64
111	2008	201	315	78.1	67.03	3.357	354.9	21.7	12.63
111	2008	201	330	77.7	68.1	4.001	351.8	23.33	12.63
111	2008	201	345	77.2	69.48	3.549	350	22.16	12.62
111	2008	201	400	76.9	70.3	3.924	351.7	27.28	12.62
111	2008	201	415	76.5	71.4	4.013	347.9	24.17	12.61
111	2008	201	430	76.1	71.3	3.857	349.1	21.36	12.6
111	2008	201	445	75.9	71.3	3.513	351.2	29.71	12.6
111	2008	201	500	75.8	72.2	3.648	351.1	25.41	12.6
111	2008	201	515	75.5	73.4	2.597	357.4	28.8	12.6
111	2008	201	530	75.2	74.2	2.437	355.3	28.47	12.59
111	2008	201	545	75	74.7	2.36	345	22.77	12.59
111	2008	201	600	74.9	75.1	2.249	352.5	22.25	12.59
111	2008	201	615	75	74.9	2.774	355.5	30.97	12.58
111	2008	201	630	75.4	74.4	3.563	355.6	28.21	12.76
111	2008	201	645	75.9	73	4.897	353.5	23.58	12.83
111	2008	201	700	76.7	70	4.754	345.2	26.52	13.3
111	2008	201	715	77.3	68.57	5.014	347.9	24.41	13.29
111	2008	201	730	77.4	68.24	4.379	351.1	24.14	13.29
111	2008	201	745	78.2	65.6	4.639	349.6	21.16	13.29
111	2008	201	800	79.1	63.22	4.919	1.32	25.13	13.28
111	2008	201	815	79.7	63.45	4.998	347.7	26.51	13.27
111	2008	201	830	80.7	62.57	4.305	344.9	30.3	13.26
111	2008	201	845	80.7	62.37	4.52	346	27.68	13.26
111	2008	201	900	81.4	60.19	4.446	336.4	34.94	13.24
111	2008	201	915	82.6	58.42	4.113	340.5	28.06	13.24

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	201	930	83.1	57.55	4.5	340.1	31.23	13.22
111	2008	201	945	83.5	58.22	3.769	338.7	35.03	13.22
111	2008	201	1000	84.1	56.45	3.974	334.5	34.77	13.21
111	2008	201	1015	85.6	51.5	4.125	351.1	40.93	13.2
111	2008	201	1030	86.4	52.83	5.362	336.3	33.12	13.19
111	2008	201	1045	85.8	54.56	5.969	337.9	29.94	13.18
111	2008	201	1100	85.5	55.6	6.128	338.8	34.32	13.18
111	2008	201	1115	84.6	56.67	6.571	340	26.92	13.18
111	2008	201	1130	84.2	56.03	6.906	329.6	32.12	13.18
111	2008	201	1145	84.6	57	6.861	339.4	29.87	13.17
111	2008	201	1200	84.8	57.2	7.19	329.4	32.56	13.17
111	2008	201	1215	85	59.74	7.13	332.1	25.99	13.17
111	2008	201	1230	85	60.91	6.765	329.8	31.48	13.17
111	2008	201	1245	85.2	58.54	6.926	342.4	31.32	13.17
111	2008	201	1300	86.1	58.5	6.35	334.5	31.73	13.16
111	2008	201	1315	86.2	59.44	7.15	339.3	30.8	13.16
111	2008	201	1330	85.7	59.97	7.62	335.6	30.8	13.16
111	2008	201	1345	85.8	56.03	5.86	326.5	37.25	13.16
111	2008	201	1400	86.7	55.43	6.333	324.8	27.75	13.15
111	2008	201	1415	86.4	55.86	7.73	343.4	27.44	13.16
111	2008	201	1430	87	55.76	6.714	346.4	29.68	13.14
111	2008	201	1445	86.5	59.34	6.09	321.1	43.34	13.13
111	2008	201	1500	86.3	59.31	5.695	316.3	36.32	13.05
111	2008	201	1515	85.8	61.71	6.746	328.9	39.4	13.05
111	2008	201	1530	84.8	64.65	7.14	331.1	37.79	13.02
111	2008	201	1545	85	64.65	6.616	331.6	36.18	12.98
111	2008	201	1600	84.1	64.95	7.99	327	37.08	13.02
111	2008	201	1615	83.6	66.29	8.2	330.7	33.9	12.99
111	2008	201	1630	83.2	67.69	8.57	330.1	37.85	12.95
111	2008	201	1645	82.7	66.89	8.17	341.4	32.54	12.96
111	2008	201	1700	82.8	67.51	8.09	337.5	25.93	12.95
111	2008	201	1715	82.4	69.72	8	336.7	25.99	12.92
111	2008	201	1730	82.2	70.8	7.31	339.7	33.93	12.89
111	2008	201	1745	80.4	75.5	7.84	336.2	31.81	12.83
111	2008	201	1800	80	74	7.67	335.7	34.41	12.82
111	2008	201	1815	80.6	72.6	6.986	338.1	28.27	12.81
111	2008	201	1830	80	75.1	7.72	337.3	30.6	12.79
111	2008	201	1845	79.5	75.8	8.52	335.6	31.14	12.78
111	2008	201	1900	78.9	75.8	6.775	330.3	36.54	12.77
111	2008	201	1915	78.6	76.7	6.873	339.1	31.49	12.76
111	2008	201	1930	78	76.6	6.549	340.8	35.55	12.76
111	2008	201	1945	77.5	77.1	6.019	335.6	30.67	12.76
111	2008	201	2000	77.3	77	5.395	346.2	33.59	12.74
111	2008	201	2015	77	77.2	5.103	346.1	30.62	12.74
111	2008	201	2030	76.9	76.5	5.618	341.5	33.66	12.74
111	2008	201	2045	76.9	76.2	6.537	341.4	28.36	12.73
111	2008	201	2100	77.1	75.2	7.84	339.3	30.15	12.72
111	2008	201	2115	77	75.3	6.174	354.4	33.49	12.72
111	2008	201	2130	77.1	75.6	6.694	357.4	34.02	12.71
111	2008	201	2145	76.9	77.1	5.874	0.878	29.3	12.71
111	2008	201	2200	76.8	77.8	5.651	350.9	31	12.71
111	2008	201	2215	76.7	78.5	5.409	343.6	23.22	12.7
111	2008	201	2230	76.4	80.3	5.51	359	29.81	12.69
111	2008	201	2245	76.2	80.8	5.606	358.4	29.63	12.69
111	2008	201	2300	75.9	81	6.094	352.7	28.5	12.69
111	2008	201	2315	75.7	81.3	5.421	355.8	31.56	12.67
111	2008	201	2330	75.6	81.7	5.806	353.3	27.78	12.66
111	2008	201	2345	75.5	82.1	4.655	355.6	32.09	12.67
111	2008	201	2400	75.2	82.9	5.344	343.7	29.58	12.66
111	2008	202	15	75.1	83.2	5.389	349.1	28.57	12.66

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	202	30	74.9	83.8	4.871	343.5	27.8	12.65
111	2008	202	45	74.9	83.7	4.2	350.2	30.41	12.64
111	2008	202	100	74.8	83.3	4.641	342.2	32.88	12.65
111	2008	202	115	74.8	83.1	5.163	351.4	23.19	12.64
111	2008	202	130	74.8	83.3	4.738	355.5	25.95	12.64
111	2008	202	145	74.7	83.2	3.944	1.854	28.08	12.62
111	2008	202	200	74.7	82.4	4.855	354.8	26.62	12.62
111	2008	202	215	74.7	82.1	5.235	352.7	32.68	12.62
111	2008	202	230	74.7	82.7	4.387	348	28.55	12.61
111	2008	202	245	74.6	83.1	4.347	358.2	25.85	12.61
111	2008	202	300	74.5	83.7	4.007	350.3	23.58	12.61
111	2008	202	315	74.4	84.8	3.898	344	21.89	12.6
111	2008	202	330	74.2	85.6	3.872	346.4	28.95	12.6
111	2008	202	345	74	86.8	3.606	339.7	26.1	12.58
111	2008	202	400	73.7	87.8	3.559	342.9	25.1	12.59
111	2008	202	415	73.7	88.1	4.933	341.5	27.15	12.59
111	2008	202	430	73.6	88.3	4.647	345.6	23.3	12.58
111	2008	202	445	73.6	88.5	4.559	353.2	30.21	12.58
111	2008	202	500	73.7	88.5	4.2	355.9	27.9	12.57
111	2008	202	515	73.6	88.7	3.555	352	27.84	12.57
111	2008	202	530	73.5	89	3.67	349.6	26.3	12.57
111	2008	202	545	73.5	89	3.573	344.9	29.2	12.57
111	2008	202	600	73.5	88.8	5.078	339.3	29.1	12.57
111	2008	202	615	73.4	89	5	338.9	26.42	12.57
111	2008	202	630	73.5	89.2	4.401	337.3	30.03	12.6
111	2008	202	645	73.6	88.9	5.002	339.1	29.81	12.68
111	2008	202	700	73.7	89	5.59	353.4	24.8	12.82
111	2008	202	715	73.9	88.7	5.461	344.7	24.68	13.06
111	2008	202	730	74.5	87.4	5.82	342.9	31.04	13.32
111	2008	202	745	75	86.3	5.187	352.8	25.01	13.3
111	2008	202	800	74.5	88	5.334	349.4	27.16	13.26
111	2008	202	815	74.1	88.6	6.041	347.2	27.88	13.22
111	2008	202	830	74.6	87.3	4.351	345.7	36.12	13.3
111	2008	202	845	75.1	86.6	5.939	338.4	27.61	13.29
111	2008	202	900	75.2	86	5.92	336.1	31.17	13.29
111	2008	202	915	75.8	84.3	5.862	346.3	30.02	13.29
111	2008	202	930	76.6	82.1	5.246	353.3	32.43	13.27
111	2008	202	945	77.6	79.1	4.681	341.9	30.7	13.26
111	2008	202	1000	78.4	80.2	4.706	314.2	39.15	13.26
111	2008	202	1015	77.6	82.1	6.19	342.4	29.23	13.25
111	2008	202	1030	76.8	82	6.164	337.8	31.97	13.24
111	2008	202	1045	78.2	79.1	5.713	331	32.16	13.24
111	2008	202	1100	78.6	78.5	5.81	335.2	33.47	13.24
111	2008	202	1115	79.3	77.1	5.872	339.3	30.51	13.23
111	2008	202	1130	79.2	78.6	6.116	332.8	34.63	13.22
111	2008	202	1145	78.9	77.4	5.671	321.5	36.73	13.22
111	2008	202	1200	79.7	77.5	5.898	322.9	44.2	13.22
111	2008	202	1215	80.8	75.4	5.556	328.8	31.8	13.21
111	2008	202	1230	81.4	71.7	6.144	329	30.19	13.2
111	2008	202	1245	82.1	71	7.06	333.2	29.35	13.19
111	2008	202	1300	82.1	71.4	7.11	330.8	39.75	13.19
111	2008	202	1315	81.2	74.4	6.521	295.7	29.81	13.19
111	2008	202	1330	82.1	69.99	6.255	294	33.75	13.19
111	2008	202	1345	83.9	69.08	5.278	307.8	43.29	13.18
111	2008	202	1400	83.5	70.5	6.668	312.9	37.78	13.18
111	2008	202	1415	82.6	69.71	8.24	329.8	32.34	13.18
111	2008	202	1430	82.7	70.5	8.11	334.7	30.51	13.18
111	2008	202	1445	82.2	69.38	8.37	337.3	36.08	13.19
111	2008	202	1500	82.6	67.44	6.912	341.1	36.1	13.19
111	2008	202	1515	82.4	67.88	8.43	333.1	31.22	13.19

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	202	1530	82.3	69.52	8.04	336.5	31.88	13.18
111	2008	202	1545	82.2	72.7	7.71	336.6	35.77	13.18
111	2008	202	1600	81.7	70.8	8.59	327.5	33.73	13.12
111	2008	202	1615	81.3	69.45	9.05	325.8	31.87	13.08
111	2008	202	1630	82	67.51	7.35	321.9	33.59	13.04
111	2008	202	1645	81.7	69.75	8.8	326.5	34.5	13
111	2008	202	1700	80.7	71.5	8.95	330.7	31.47	12.97
111	2008	202	1715	80.5	71.6	8.79	338.9	27.47	12.94
111	2008	202	1730	80.1	75.1	9.91	339	29.81	12.92
111	2008	202	1745	79.2	76	9.88	331.7	27.82	12.89
111	2008	202	1800	79.2	75.1	8.2	332.5	38.3	12.87
111	2008	202	1815	79.3	75.2	8.33	333.5	34.14	12.84
111	2008	202	1830	79	74.2	9.64	328.1	39.06	12.81
111	2008	202	1845	78.7	75.8	9.69	340.2	28.7	12.79
111	2008	202	1900	78.2	77.9	9.81	339.9	34.88	12.78
111	2008	202	1915	77.6	80.1	9.54	331.5	35.89	12.77
111	2008	202	1930	77	82.4	10.68	335.2	32.98	12.76
111	2008	202	1945	76.6	84.7	10.55	338	30.23	12.76
111	2008	202	2000	76.3	85.1	8.22	339.3	33.98	12.76
111	2008	202	2015	76.2	85.7	8.95	336.3	31.17	12.74
111	2008	202	2030	76.1	85.2	9.13	342.3	30.86	12.74
111	2008	202	2045	76	85.9	8.8	337.9	28.58	12.74
111	2008	202	2100	75.8	86.1	8.12	340.9	34.91	12.73
111	2008	202	2115	75.5	86.2	7.94	339.7	28.81	12.73
111	2008	202	2130	75.2	85.8	9.28	338.9	28.6	12.72
111	2008	202	2145	75.3	84.8	9.94	339.4	25.58	12.72
111	2008	202	2200	75.3	85.4	8.52	340	28.87	12.71
111	2008	202	2215	75	85.9	7.98	332.4	31.44	12.71
111	2008	202	2230	75	86.5	8.24	340.4	33.78	12.7
111	2008	202	2245	74.8	87.1	8.02	337.1	31.39	12.7
111	2008	202	2300	74.6	87.8	7.98	342.2	27.25	12.7
111	2008	202	2315	74.4	88.5	7.77	344.1	28.95	12.69
111	2008	202	2330	74.3	88.7	8.48	338.6	30.27	12.69
111	2008	202	2345	74.3	88.7	7.89	346.3	33.9	12.69
111	2008	202	2400	74.2	88.7	8.56	354.4	30.76	12.68
111	2008	203	15	74	88.8	8.25	350	24.29	12.67
111	2008	203	30	73.7	89.2	6.398	347.6	24.75	12.67
111	2008	203	45	73.5	89.3	5.796	344.5	38.41	12.66
111	2008	203	100	73.2	90.2	7.53	342.8	26.19	12.66
111	2008	203	115	73.1	90.4	6.128	346.5	31.97	12.66
111	2008	203	130	73.1	90.1	6.664	346.8	30.25	12.65
111	2008	203	145	73	89.8	6.192	350	30.35	12.64
111	2008	203	200	73	89.7	6.585	348.3	22.42	12.64
111	2008	203	215	72.8	91.1	4.919	349.2	31.88	12.63
111	2008	203	230	72.6	91.7	4.311	355	28.84	12.63
111	2008	203	245	72.4	92	5.223	348.1	28.31	12.62
111	2008	203	300	72.2	92	5.832	352.1	29.22	12.62
111	2008	203	315	72.1	92	4.317	1.032	28.61	12.62
111	2008	203	330	72.1	91.8	4.605	355.2	23.89	12.61
111	2008	203	345	72.3	91.3	4.351	356.4	29.48	12.61
111	2008	203	400	72.3	90.9	4.446	359	30.46	12.6
111	2008	203	415	72.3	90.7	4.619	356.3	26.14	12.59
111	2008	203	430	72.3	90.7	4.706	348.8	22.26	12.58
111	2008	203	445	72.3	91.1	4.111	338.5	27.13	12.58
111	2008	203	500	72.2	91.5	2.841	339.1	35.53	12.58
111	2008	203	515	72.2	91.5	3.215	328.6	34.33	12.57
111	2008	203	530	71.8	91.6	4.504	336.4	29.02	12.57
111	2008	203	545	71.4	91.9	2.912	344.1	28.81	12.57
111	2008	203	600	71.5	92.2	2.888	359.1	25.79	12.57
111	2008	203	615	71.6	92.3	2.125	334.7	28.52	12.57

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	203	630	71.8	92.3	1.675	345.4	23.42	12.6
111	2008	203	645	72	92.3	1.895	311.7	34.95	12.68
111	2008	203	700	72.1	91.8	3.104	345.8	27.75	13.05
111	2008	203	715	72.3	91.5	2.959	337.6	37.21	13.24
111	2008	203	730	72.9	89.9	3.168	328.6	32.63	13.33
111	2008	203	745	73.7	86.3	3.412	344	31.29	13.32
111	2008	203	800	74.5	83.2	3.714	353.1	28.29	13.29
111	2008	203	815	75.9	80.5	3.819	343.2	24.84	13.29
111	2008	203	830	77.2	76.7	3.467	336	32.56	13.28
111	2008	203	845	78.5	74.3	2.949	324.6	40.34	13.27
111	2008	203	900	79.2	73.7	3.694	328.9	31.48	13.26
111	2008	203	915	79.5	75.8	3.66	305	47.69	13.24
111	2008	203	930	79.5	75.2	4.107	300.6	37.13	13.24
111	2008	203	945	79.9	72.3	3.962	318.5	40.76	13.23
111	2008	203	1000	80.8	69.45	4.099	334.1	36.77	13.22
111	2008	203	1015	80.8	69.39	4.784	332.6	31.72	13.22
111	2008	203	1030	80.8	68.08	5.354	338	30.67	13.21
111	2008	203	1045	80.9	66.34	5.076	303.2	39.96	13.2
111	2008	203	1100	81.4	64.54	4.746	329.6	38.47	13.21
111	2008	203	1115	82.2	65.11	5.135	318.1	34.44	13.2
111	2008	203	1130	82.8	63.93	5.57	319.8	31.41	13.19
111	2008	203	1145	82.8	62.7	5.671	339.8	32.37	13.18
111	2008	203	1200	83.1	61.99	6.428	334.2	35.8	13.18
111	2008	203	1215	83.1	60.48	6.188	346.6	31.33	13.18
111	2008	203	1230	84	59.47	6.249	329.8	24.99	13.18
111	2008	203	1245	84.1	58.87	6.879	342.4	26.04	13.18
111	2008	203	1300	84.4	58.1	6.164	351.5	26.27	13.18
111	2008	203	1315	84.4	55.46	6.517	327.7	35.14	13.17
111	2008	203	1330	84.5	55.93	7.2	339.5	33.92	13.17
111	2008	203	1345	84.6	53.66	6.726	336.1	29.04	13.17
111	2008	203	1400	85.2	52.76	6.62	335.7	31.66	13.17
111	2008	203	1415	86	52.82	6.144	334.3	27.53	13.16
111	2008	203	1430	85.8	54.19	6.388	327.1	30.63	13.16
111	2008	203	1445	85.5	57.53	4.663	320	42.35	13.16
111	2008	203	1500	83	58.84	6.319	325.6	34.61	13.16
111	2008	203	1515	83.8	57.77	5.151	307.7	35.53	13.18
111	2008	203	1530	84.2	58.07	4.847	315.8	47.57	13.08
111	2008	203	1545	82.9	61.45	4.768	314.6	38.21	13.03
111	2008	203	1600	83	61.81	4.889	308.1	40.1	12.98
111	2008	203	1615	83.4	57.64	4.154	318.9	39.52	13.02
111	2008	203	1630	84.5	57.58	4.506	335	43.31	12.96
111	2008	203	1645	84.2	56.71	5.83	342.9	26.83	12.94
111	2008	203	1700	84.2	57.78	5.514	330.5	31.54	12.89
111	2008	203	1715	84.1	56.91	6.136	327.8	32.36	12.88
111	2008	203	1730	84.3	57.45	4.871	324.4	35.75	12.86
111	2008	203	1745	84.1	60.79	5.328	320	37.22	12.84
111	2008	203	1800	83.2	61.56	5	332.1	37.36	12.82
111	2008	203	1815	83.4	59.49	4.653	337	30.62	12.81
111	2008	203	1830	83.2	61.33	4.837	337.9	26.48	12.8
111	2008	203	1845	82.8	64.24	4.583	327.7	25.58	12.79
111	2008	203	1900	82	65.84	5.036	334.7	33.09	12.78
111	2008	203	1915	81.1	66.08	3.958	342.1	21.38	12.78
111	2008	203	1930	80.6	67.05	3.747	343.6	30.84	12.77
111	2008	203	1945	79.9	68.15	3.65	346.7	24.33	12.76
111	2008	203	2000	79.3	69.52	2.907	341.2	24.56	12.76
111	2008	203	2015	78.6	71.1	3.126	337.8	17.24	12.75
111	2008	203	2030	78	71.6	2.832	339.1	24.86	12.74
111	2008	203	2045	77.5	72.9	1.422	335.2	24.85	12.74
111	2008	203	2100	77.2	74.1	0.774	331.6	27	12.73
111	2008	203	2115	77.1	74.3	0.57	315.2	19.61	12.73

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	203	2130	76.9	75	1.514	318.9	21.43	12.72
111	2008	203	2145	76.6	75.1	2.402	347.3	23.61	12.71
111	2008	203	2200	76.6	75.6	2.173	355.3	23.06	12.7
111	2008	203	2215	76.2	76.2	0.873	10.66	27.94	12.7
111	2008	203	2230	75.9	77.7	2.691	281.9	28.64	12.69
111	2008	203	2245	75.4	78.4	1.05	356.9	18.44	12.69
111	2008	203	2300	75	79.1	0.846	304	23.97	12.68
111	2008	203	2315	74.8	79.9	0.774	311.6	20.85	12.67
111	2008	203	2330	74.6	81.7	1.263	332.4	34.37	12.67
111	2008	203	2345	74.3	83.1	2.268	12.74	35.02	12.65
111	2008	203	2400	74.1	81.2	2.935	20.33	23.06	12.66
111	2008	204	15	74.3	80.4	1.982	6.534	27.49	12.65
111	2008	204	30	74	80.7	1.673	14.21	22.65	12.64
111	2008	204	45	73.7	81.4	0.863	34.18	12.5	12.64
111	2008	204	100	73.3	82.1	0.401	85.5	9.06	12.63
111	2008	204	115	73.1	82.3	0.17	54.29	11	12.63
111	2008	204	130	72.9	82.8	0.082	33.67	10.28	12.63
111	2008	204	145	72.6	83.2	0.009	80.5	0	12.63
111	2008	204	200	72.4	83.3	0.082	77.3	2.98	12.61
111	2008	204	215	72.3	83.7	na	na	na	12.61
111	2008	204	230	71.9	83.8	0.009	139.1	0	12.6
111	2008	204	245	71.7	84.5	na	na	na	12.6
111	2008	204	300	71.2	85.5	0.175	21.07	4.77	12.59
111	2008	204	315	70.9	86.3	0.168	330.5	3.641	12.59
111	2008	204	330	70.9	85.9	1.194	16.62	17.41	12.57
111	2008	204	345	71.3	83.2	1.658	42.94	21.2	12.57
111	2008	204	400	72.2	80	0.906	83.5	25.08	12.57
111	2008	204	415	72.9	79.7	1.379	87.2	32.62	12.57
111	2008	204	430	73.1	81.5	0.859	120.9	24.38	12.57
111	2008	204	445	73	84.3	1.319	119.9	27.87	12.57
111	2008	204	500	72.9	86.5	1.678	111.9	28.49	12.57
111	2008	204	515	72.8	87.9	2.089	119.7	28	12.56
111	2008	204	530	72.8	88.8	2.74	131	27.36	12.56
111	2008	204	545	72.7	89	1.506	125.7	29.72	12.55
111	2008	204	600	72.8	88.8	3.075	135.6	31.1	12.56
111	2008	204	615	72.9	87.9	3.279	163.1	37.42	12.56
111	2008	204	630	72.9	87.8	3.519	166.3	36.27	12.56
111	2008	204	645	72.9	87.4	3.453	186.7	26.77	12.56
111	2008	204	700	72.7	87.4	4.623	188.5	30.17	12.56
111	2008	204	715	72.7	87.7	4.416	198.2	29.79	12.58
111	2008	204	730	73.2	87	3.203	208.1	31.88	12.58
111	2008	204	745	73.5	86	2.995	171.4	33.66	12.59
111	2008	204	800	73.7	85.3	3.32	179.4	29.85	12.65
111	2008	204	815	73.9	85.1	4.279	185.6	30.11	12.81
111	2008	204	830	74.2	84.5	3.546	180.8	32.42	13.03
111	2008	204	845	74	86.2	4.905	242.6	21.24	13.13
111	2008	204	900	73.8	86.6	5.725	246.2	21.05	13.24
111	2008	204	915	74	85.2	3.976	236.1	30.26	13.02
111	2008	204	930	73.6	87.7	4.643	307.6	50.49	12.87
111	2008	204	945	72.2	91.3	6.247	251.2	19.71	12.84
111	2008	204	1000	71.7	91.4	6.013	235.7	22.53	12.82
111	2008	204	1015	71.5	91.6	6.418	243.9	21.23	12.77
111	2008	204	1030	71.2	91.8	6.883	219.9	20.65	12.71
111	2008	204	1045	71	92.3	5.084	227.7	21.14	12.69
111	2008	204	1100	70.8	92.8	3.497	187.2	42.63	12.63
111	2008	204	1115	70.8	93.1	3.892	188.4	27.05	12.64
111	2008	204	1130	71	93.1	3.586	191.6	33.34	12.73
111	2008	204	1145	71.3	92.6	3.403	191.5	35.48	13.01
111	2008	204	1200	71.8	91.2	3.148	152.9	37.03	13.33
111	2008	204	1215	72.8	87.6	3.023	224.4	36.19	13.3

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	204	1230	72.9	86.5	2.153	268	29.42	13.27
111	2008	204	1245	73.7	84.7	4.236	253.7	22.18	13.29
111	2008	204	1300	73.2	87.3	8.17	246.4	15.57	13.29
111	2008	204	1315	72.1	86.4	8.81	253.7	20.13	13.28
111	2008	204	1330	72.6	83.8	8.96	248	23.02	13.28
111	2008	204	1345	72.9	81.7	8.87	238.8	21.09	13.28
111	2008	204	1400	73.4	80.3	8.25	238.4	21.37	13.28
111	2008	204	1415	73.9	81.3	8.58	238.6	21.72	13.27
111	2008	204	1430	74.2	79.3	9.71	242.4	18.5	13.27
111	2008	204	1445	74.1	80.3	9.28	236.2	18.22	13.27
111	2008	204	1500	74.6	82.4	9.18	245.4	16.04	13.27
111	2008	204	1515	74.7	81.9	9.4	249.8	17.63	13.27
111	2008	204	1530	74.9	80.6	9.14	247.7	17.82	13.23
111	2008	204	1545	75.9	76.9	7.15	227.2	26.36	13.16
111	2008	204	1600	76.8	73.4	6.205	224.6	23.13	13.12
111	2008	204	1615	77.5	73	5.284	224.1	30.22	13.1
111	2008	204	1630	76.9	76.5	7.46	239.7	21.59	13.07
111	2008	204	1645	76.4	78	7.69	238.2	21.77	13.13
111	2008	204	1700	76	80.5	7.63	242.8	20.08	13.21
111	2008	204	1715	75.6	81.3	7.35	228.1	20.79	13.15
111	2008	204	1730	75.4	82.2	7.91	230.2	24.43	13.24
111	2008	204	1745	75.3	83.2	7.4	219.9	22.65	13.13
111	2008	204	1800	75.2	84	7.59	228.1	20.45	13.06
111	2008	204	1815	75.2	84	6.595	211.4	22.98	12.94
111	2008	204	1830	75.1	85.2	5.036	215.3	24.23	12.87
111	2008	204	1845	75	85.9	5.62	213.9	21.72	12.83
111	2008	204	1900	75	86.2	4.853	213.2	25.6	12.81
111	2008	204	1915	75	86.8	4.75	219.4	21.14	12.79
111	2008	204	1930	75	87.2	4.937	208.2	21.13	12.78
111	2008	204	1945	75.1	87.2	3.725	183.4	28.21	12.77
111	2008	204	2000	75.1	87.2	3.188	181.9	39.43	12.76
111	2008	204	2015	75.1	87.3	3.35	180.7	26.62	12.76
111	2008	204	2030	75	87.9	2.838	127.9	36.22	12.76
111	2008	204	2045	74.8	89.2	2.582	110.2	52.09	12.75
111	2008	204	2100	74.4	90.3	3.396	177.2	27.92	12.74
111	2008	204	2115	74.2	90.9	2.095	116.5	39.91	12.74
111	2008	204	2130	74.1	91.4	2.041	112.2	45.89	12.73
111	2008	204	2145	74	91.6	2.061	159.7	34.45	12.73
111	2008	204	2200	73.8	91.7	2.955	168.4	28.72	12.73
111	2008	204	2215	73.5	91.9	3.011	166.2	44.11	12.72
111	2008	204	2230	73.2	92.2	2.355	138.6	31.67	12.71
111	2008	204	2245	73.1	92.4	1.921	136.1	31.95	12.71
111	2008	204	2300	73	92.6	1.94	164.3	30.44	12.7
111	2008	204	2315	73	92.7	1.877	153.7	31.47	12.69
111	2008	204	2330	73.1	92.8	1.756	149.1	38.64	12.68
111	2008	204	2345	73.2	92.8	1.529	161.9	32.86	12.68
111	2008	204	2400	73.1	92.8	2.057	179.1	30.28	12.67
111	2008	205	15	73.1	92.8	1.463	188.4	31.68	12.67
111	2008	205	30	73	92.9	2.093	161.4	37.56	12.66
111	2008	205	45	73	92.9	1.644	161.6	18.71	12.66
111	2008	205	100	72.9	93	1.98	155.2	31.36	12.65
111	2008	205	115	72.8	92.9	1.234	119.8	26.38	12.65
111	2008	205	130	72.7	93.2	1.623	139.8	35.71	12.64
111	2008	205	145	72.6	93.1	1.586	126.2	33.4	12.63
111	2008	205	200	72.4	93.2	2.645	130.7	31.45	12.63
111	2008	205	215	72.1	93.4	2.38	152.4	35.17	12.62
111	2008	205	230	71.9	93.5	1.827	156.7	36.73	12.61
111	2008	205	245	71.7	93.7	2.902	151.4	33.38	12.61
111	2008	205	300	71.5	93.9	2.187	166.8	32.64	12.6
111	2008	205	315	71.4	94	1.812	177.5	36.37	12.59

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	205	330	71.5	93.9	1.622	170.2	34.92	12.59
111	2008	205	345	71.5	94.1	na	na	na	12.57
111	2008	205	400	71.5	94.1	0.329	238.7	10.5	12.57
111	2008	205	415	71.6	94.3	0.811	181.5	45.51	12.57
111	2008	205	430	71.7	94.2	1.5	168.4	52.16	12.57
111	2008	205	445	71.5	94.3	1.916	137.5	25.59	12.56
111	2008	205	500	71.4	94.4	2.707	165.2	32.9	12.56
111	2008	205	515	71.4	94.3	1.489	174.2	30.51	12.56
111	2008	205	530	71.3	94.5	0.852	151.1	28.28	12.55
111	2008	205	545	71.2	94.5	1.821	130.3	32.09	12.55
111	2008	205	600	71.1	94.4	2.131	120.2	26.13	12.55
111	2008	205	615	70.9	94.6	2.104	113.2	40.93	12.55
111	2008	205	630	70.8	94.6	1.814	89	35.53	12.55
111	2008	205	645	70.8	94.6	1.944	170.6	38.97	12.55
111	2008	205	700	70.7	94.7	2.316	103.6	37.74	12.55
111	2008	205	715	70.9	94.5	2.457	93.9	60.11	12.55
111	2008	205	730	70.9	94.7	3.162	154.3	31.84	12.57
111	2008	205	745	71.3	94	3.62	174.4	42.56	12.71
111	2008	205	800	71.5	93.8	4.127	191.7	34.23	12.97
111	2008	205	815	71.9	92.9	3.668	173.9	42.45	13.11
111	2008	205	830	72.2	92	4.492	215.1	21.44	13.23
111	2008	205	845	72.7	90.6	5.014	218.3	18.03	13.16
111	2008	205	900	72.8	89.4	4.194	208.9	20.49	13.13
111	2008	205	915	73.1	88.1	3.785	214.5	22.81	13.18
111	2008	205	930	73.7	85.9	3.332	191.7	36.09	13.24
111	2008	205	945	74.5	83.6	5.046	200	27.4	13.29
111	2008	205	1000	74.7	82.3	5.79	207.7	25.41	13.29
111	2008	205	1015	75	82.4	6.227	210.9	17.6	13.28
111	2008	205	1030	74.9	84.8	6.654	222.5	21.03	13.17
111	2008	205	1045	74	85.9	7.35	215.2	24.64	13.14
111	2008	205	1100	73	87.7	7.45	215.5	20.19	13.09
111	2008	205	1115	72.6	87.2	5.362	205.8	31.83	12.94
111	2008	205	1130	72.5	87.5	2.732	325.4	97.7	12.86
111	2008	205	1145	72.2	91.4	7.72	223.2	31.48	12.85
111	2008	205	1200	73.3	89.4	4.337	173.7	38.55	13.31
111	2008	205	1215	73.9	88.8	6.676	227	21.65	13.18
111	2008	205	1230	73.5	89.7	5.983	194.9	30.73	13.32
111	2008	205	1245	74.7	86.3	6.769	213.2	22.71	13.3
111	2008	205	1300	75.3	84.8	6.992	209.5	20.59	13.29
111	2008	205	1315	75	85.2	6.908	205.9	21.68	13.21
111	2008	205	1330	74.8	85.8	6.964	213.5	23.53	13.25
111	2008	205	1345	75.5	86.3	7.13	212.5	25.3	13.3
111	2008	205	1400	76.9	82	7.35	214	34.59	13.28
111	2008	205	1415	77.8	81.9	8.07	221.3	23.72	13.27
111	2008	205	1430	77.9	81.5	9.09	212.6	22.59	13.26
111	2008	205	1445	77.4	81.6	8.89	229.7	22.14	13.26
111	2008	205	1500	76.9	83.4	8.58	227.5	20.71	13.26
111	2008	205	1515	77.4	81.1	8.56	234.3	18.9	13.26
111	2008	205	1530	77.8	82.8	8.19	233.9	20.05	13.26
111	2008	205	1545	77.5	81.9	10.51	239.3	18.79	13.26
111	2008	205	1600	77.8	81.9	8.64	240.2	20.82	13.26
111	2008	205	1615	76.9	85.2	7.96	239.9	16.36	13.26
111	2008	205	1630	76.6	86.3	6.996	256.2	17.6	13.27
111	2008	205	1645	76.9	86	6.686	238.9	17.91	13.27
111	2008	205	1700	77.5	84.8	8.08	242.3	19.54	13.27
111	2008	205	1715	77.1	87.6	8.49	247.4	16.99	13.12
111	2008	205	1730	76.6	89.4	7.26	249.4	16.89	13.21
111	2008	205	1745	76.6	90.2	8.07	254.6	18.4	13.17
111	2008	205	1800	76.2	90.2	7.75	248.5	15.2	13.15
111	2008	205	1815	76.2	89.7	6.279	263.3	21.77	12.93

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	205	1830	76.7	88	5.477	264	27.78	12.84
111	2008	205	1845	76.9	87.8	5.935	270.9	24.69	12.81
111	2008	205	1900	77	88.6	6.203	268.1	27.26	12.8
111	2008	205	1915	76.7	89.4	6.716	262.8	20.48	12.78
111	2008	205	1930	76.5	90.2	5.953	268.1	25.26	12.78
111	2008	205	1945	76.2	90.9	7.52	271.2	25.26	12.77
111	2008	205	2000	76	89.3	7.97	279.5	27.79	12.76
111	2008	205	2015	76	87.7	7.14	287.8	35.19	12.77
111	2008	205	2030	76	87.2	7.17	294.2	31.69	12.76
111	2008	205	2045	75.7	87.5	6.16	287.3	37.19	12.75
111	2008	205	2100	75.7	88	5.739	299	30.6	12.75
111	2008	205	2115	75.5	88.9	6.039	298.1	36.11	12.75
111	2008	205	2130	75.7	89.4	6.376	295.4	37.67	12.74
111	2008	205	2145	75.5	89.9	6.118	293.4	35.49	12.74
111	2008	205	2200	75.4	89.5	5.965	296.5	28.5	12.73
111	2008	205	2215	75.1	89.9	5.834	293.6	35.49	12.73
111	2008	205	2230	74.9	89.5	6.454	294.5	31.93	12.72
111	2008	205	2245	75.1	87.8	6.595	314	36.49	12.72
111	2008	205	2300	75.4	85.8	6.537	311.7	39.9	12.71
111	2008	205	2315	75.4	82.4	8.62	329.3	38.38	12.71
111	2008	205	2330	72.9	85.3	6.642	359.6	28.25	12.71
111	2008	205	2345	70.9	87.5	5.203	10.4	25.95	12.7
111	2008	205	2400	70.3	88.7	4.615	24.45	28.35	12.69
111	2008	206	15	69.9	89.8	2.052	30.17	32.72	12.68
111	2008	206	30	69.8	90.5	1.049	31.16	38.43	12.68
111	2008	206	45	69.62	91.2	1.371	180	33.15	12.67
111	2008	206	100	69.46	91.9	1.189	242.3	16.41	12.66
111	2008	206	115	69.57	92.1	0.828	46.43	30.05	12.66
111	2008	206	130	69.48	92.4	1.532	45.06	29.69	12.65
111	2008	206	145	69.43	92.5	0.529	124.3	39.3	12.65
111	2008	206	200	69.38	92.6	1.59	215.7	26.6	12.65
111	2008	206	215	69.59	92.9	0.343	208.2	33.45	12.63
111	2008	206	230	69.66	92.9	1.198	146.2	35.68	12.63
111	2008	206	245	69.49	93.1	2.053	184	34.63	12.63
111	2008	206	300	69.42	93.3	2.115	210.5	36.96	12.63
111	2008	206	315	69.5	93.2	2.036	212.1	42.61	12.61
111	2008	206	330	69.45	93.1	3.309	242.2	45.48	12.62
111	2008	206	345	69.27	93.6	1.335	273.2	59.2	12.61
111	2008	206	400	69.61	93.4	1.467	295.9	21.15	12.61
111	2008	206	415	69.87	93.4	1.608	275.1	29.65	12.6
111	2008	206	430	70.1	93.3	2.306	273.7	28.1	12.6
111	2008	206	445	70.2	93.2	3.232	253.4	22.15	12.59
111	2008	206	500	70.2	93.2	4.226	249.3	17.7	12.59
111	2008	206	515	70.1	93	5.324	245.4	14.74	12.58
111	2008	206	530	70.2	92.7	5.046	249.3	13.27	12.57
111	2008	206	545	70.3	92	5.542	250.7	14.64	12.57
111	2008	206	600	70.2	91.4	4.001	266.5	24.74	12.56
111	2008	206	615	70	91.4	3.112	293	28.01	12.55
111	2008	206	630	69.87	91.7	4.613	278.1	31.09	12.54
111	2008	206	645	69.55	92.3	3.71	278.3	38.02	12.55
111	2008	206	700	69.55	92.8	4.329	268.9	20.42	12.55
111	2008	206	715	69.55	93.2	3.015	294.3	38.84	12.55
111	2008	206	730	69.74	93.7	3.396	302.8	37.42	12.55
111	2008	206	745	69.88	93.8	3.658	276.3	28.19	12.55
111	2008	206	800	69.59	93.8	3.09	290.5	23.43	12.53
111	2008	206	815	69.41	93.9	3.185	278.3	22.7	12.54
111	2008	206	830	69.34	94.3	3.451	279.8	26.41	12.55
111	2008	206	845	69.42	93.8	4.53	289.2	25.72	12.55
111	2008	206	900	69.22	93.9	3.648	300.3	35.15	12.55
111	2008	206	915	69.39	93.8	3.277	304.8	39.75	12.7

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	206	930	69.33	93.6	4.51	285.8	30.19	12.63
111	2008	206	945	69.98	93.3	5.354	292.2	33.77	12.75
111	2008	206	1000	70.6	92.9	5.393	309.1	33.87	13.11
111	2008	206	1015	70.8	93.2	6.926	285.7	30.37	12.97
111	2008	206	1030	70.8	93	6.144	307.2	31.22	12.98
111	2008	206	1045	70.9	93.1	6.192	309.6	36.48	12.94
111	2008	206	1100	71.6	92	6.511	308.6	32.34	13.16
111	2008	206	1115	72.1	91.2	6.402	319.2	35.75	13.21
111	2008	206	1130	73.3	87.6	7.07	336.4	25.22	13.32
111	2008	206	1145	73.5	87.5	6.037	327.7	36.18	13.24
111	2008	206	1200	73.3	87.5	5.604	322	37.29	13.13
111	2008	206	1215	73	87.4	5.34	331.1	36.94	13.08
111	2008	206	1230	72.8	88.1	5.256	333.5	33.01	12.92
111	2008	206	1245	72.5	88.5	7.07	334.9	30.04	12.92
111	2008	206	1300	73.1	84.5	7.26	333	32.86	13.08
111	2008	206	1315	73.9	82.2	6.176	322.9	32.82	13.31
111	2008	206	1330	72.9	83.7	6.676	339.8	33.19	13.31
111	2008	206	1345	72.7	84.2	6.126	328.2	30.95	13.3
111	2008	206	1400	72.9	83.4	7.13	331.3	24.74	13.3
111	2008	206	1415	73.4	82.7	7.03	329.7	26.05	13.3
111	2008	206	1430	74.2	82.1	6.45	305.8	34.72	13.29
111	2008	206	1445	76	76.7	4.957	315.9	45.54	13.28
111	2008	206	1500	76.3	74.9	5.505	326.9	40.3	13.27
111	2008	206	1515	76.8	75	5.86	317.4	28.76	13.26
111	2008	206	1530	75.7	74.1	7.17	322.3	30.75	13.26
111	2008	206	1545	77	72.7	6.688	339.1	33.8	13.25
111	2008	206	1600	75.8	72.4	8.42	334.4	28.29	13.26
111	2008	206	1615	76.6	71.1	6.94	314.6	42	13.26
111	2008	206	1630	76.2	72.4	7.24	327.6	29.71	13.25
111	2008	206	1645	76.4	72.6	8.06	321.4	29.98	13.25
111	2008	206	1700	76.3	72.3	7.38	318.6	32.61	13.25
111	2008	206	1715	76.7	70.2	6.247	324.3	35.84	13.16
111	2008	206	1730	76.4	70.2	6.483	325.6	31.6	13.05
111	2008	206	1745	76.3	72.1	5.916	318.6	33.8	12.97
111	2008	206	1800	75.9	72.5	6.847	341.5	26.29	12.9
111	2008	206	1815	75.5	72.6	6.444	332.4	35.41	12.86
111	2008	206	1830	75.3	72.4	6.47	343.2	34.3	12.83
111	2008	206	1845	75	73.4	6.18	326.2	33.07	12.8
111	2008	206	1900	74.6	74.6	4.953	329.4	33.77	12.79
111	2008	206	1915	73.9	76.4	5.638	327.4	35.32	12.78
111	2008	206	1930	73.1	78	4.677	333.1	34.28	12.77
111	2008	206	1945	72.6	78.4	4.399	342.7	26.3	12.76
111	2008	206	2000	72.1	79	3.422	339.8	27.75	12.76
111	2008	206	2015	71.8	79.2	3.984	342.9	22.66	12.75
111	2008	206	2030	71.6	79.6	3.368	337.2	29.57	12.74
111	2008	206	2045	71.3	81.1	3.088	339.1	26.32	12.72
111	2008	206	2100	71.3	81.5	4.331	339.9	24.93	12.73
111	2008	206	2115	71.1	82.7	3.463	333.3	22.21	12.72
111	2008	206	2130	70.9	83.3	3.843	336.2	22.29	12.71
111	2008	206	2145	70.7	84.3	3.364	339	27.2	12.71
111	2008	206	2200	70.4	85.6	2.757	335.4	21.56	12.71
111	2008	206	2215	70.2	86.3	2.225	342.7	18.03	12.69
111	2008	206	2230	70.1	86.6	1.875	345.9	19.78	12.69
111	2008	206	2245	70	86.6	2.289	23.64	41.9	12.68
111	2008	206	2300	69.32	88.1	1.458	51.42	24.15	12.67
111	2008	206	2315	68.71	89.1	0.611	28.13	14.77	12.67
111	2008	206	2330	68.4	89.5	0.221	11.28	7.7	12.67
111	2008	206	2345	68.06	89.9	0.029	344.9	5.094	12.65
111	2008	206	2400	67.52	90.3	0.018	26.58	0.173	12.65
111	2008	207	15	67.1	90.6	0.009	14.06	0.005	12.64

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	207	30	66.77	91.1	na	na	na	12.64
111	2008	207	45	66.53	91.9	0.651	87.4	9.02	12.63
111	2008	207	100	66.54	91.9	0.657	49.18	18.49	12.63
111	2008	207	115	66.27	92.2	0.186	76.1	6.17	12.62
111	2008	207	130	65.91	92.4	na	na	na	12.61
111	2008	207	145	65.59	92.7	0.045	71.2	3.55	12.6
111	2008	207	200	65.25	92.6	0.054	71.2	3.473	12.6
111	2008	207	215	64.69	92.7	na	na	na	12.59
111	2008	207	230	64.19	92.8	na	na	na	12.59
111	2008	207	245	63.75	92.9	na	na	na	12.58
111	2008	207	300	63.21	92.8	na	na	na	12.57
111	2008	207	315	62.8	93.2	na	na	na	12.56
111	2008	207	330	62.41	93.2	na	na	na	12.56
111	2008	207	345	61.97	93.1	0.009	40.47	0	12.55
111	2008	207	400	61.43	93.1	0.011	32.95	0	12.53
111	2008	207	415	60.99	93.1	0.018	80.2	0.201	12.52
111	2008	207	430	60.78	92.9	0.402	75.8	11.63	12.52
111	2008	207	445	60.63	92.6	0.425	70.9	13.06	12.51
111	2008	207	500	60.59	91.7	0.235	61.84	9.48	12.5
111	2008	207	515	60.47	90.9	na	na	na	12.5
111	2008	207	530	60.25	90.5	na	na	na	12.5
111	2008	207	545	60.04	90.5	na	na	na	12.48
111	2008	207	600	59.79	90.7	0.478	62.93	8.42	12.48
111	2008	207	615	60.08	90.6	0.543	246.8	20.34	12.48
111	2008	207	630	61.58	89.8	0.321	34.15	29.18	13.16
111	2008	207	645	62.8	87.6	0.793	28.96	24.15	13.48
111	2008	207	700	64.68	79.9	2.121	265.6	19.39	13.46
111	2008	207	715	67.46	72.4	1.655	353.6	17.84	13.31
111	2008	207	730	67.94	73.2	1.365	357.1	36.01	13.25
111	2008	207	745	67.51	76.1	0.944	334.1	56.55	13.25
111	2008	207	800	69.49	66.12	1.936	39.21	16.9	13.41
111	2008	207	815	73.2	57.79	1.915	46.49	29.16	13.38
111	2008	207	830	75.2	52.8	1.59	102.4	53	13.35
111	2008	207	845	75.7	50.92	2.161	87.4	37.18	13.33
111	2008	207	900	75.6	54.53	2.505	44.92	29.37	13.31
111	2008	207	915	75.3	54.73	2.372	56.62	32.92	13.31
111	2008	207	930	75.6	49.68	2.156	48.74	30.81	13.3
111	2008	207	945	77.6	50.82	2.965	58.09	44.46	13.29
111	2008	207	1000	77.9	49.57	2.778	32.28	43.23	13.28
111	2008	207	1015	78.7	44.25	1.985	50.69	52.61	13.26
111	2008	207	1030	79.8	44.08	3.41	31.04	27.54	13.24
111	2008	207	1045	80.3	43.38	3.97	56.6	37.45	13.24
111	2008	207	1100	80.9	38.37	3.006	48.41	45.59	13.24
111	2008	207	1115	82.6	34.36	3.888	38.76	34.56	13.22
111	2008	207	1130	83.4	35.03	5.163	37.16	32.04	13.2
111	2008	207	1145	83.9	33.65	4.869	33.53	33.53	13.2
111	2008	207	1200	84.5	31.91	4.988	52.4	35.63	13.19
111	2008	207	1215	84	33.28	4.802	56.78	43.32	13.18
111	2008	207	1230	84.4	30.3	5.036	69.77	37.73	13.18
111	2008	207	1245	83.9	33.85	5.27	53.42	36.2	13.17
111	2008	207	1300	84.9	31.91	3.642	59.2	40.37	13.17
111	2008	207	1315	84.5	33.88	4.74	44.1	48.56	13.17
111	2008	207	1330	85.5	33.78	4.839	51.84	34.14	13.16
111	2008	207	1345	85.6	31.81	3.602	77.8	56.72	13.15
111	2008	207	1400	85.5	33.34	3.809	16.86	42.43	13.07
111	2008	207	1415	86.2	36.79	3.65	32.35	47.97	13.1
111	2008	207	1430	85.6	29.27	3.872	49.38	56.04	13.13
111	2008	207	1445	86.6	29.3	5.665	51.35	42.79	13.04
111	2008	207	1500	87.9	29.3	3.503	76.9	47.65	12.97
111	2008	207	1515	87.3	28.17	4.889	67.65	38.55	12.95

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	207	1530	87.2	31.57	4.359	45.11	40.3	12.91
111	2008	207	1545	86.9	30.44	5.113	11.03	31.76	12.92
111	2008	207	1600	87.3	28.53	4.228	44.29	40.78	12.94
111	2008	207	1615	85.9	49.85	4.397	338.8	63.04	12.91
111	2008	207	1630	80.2	55.43	6.819	343	27.29	12.9
111	2008	207	1645	78.3	55.6	6.668	340.2	32.82	12.91
111	2008	207	1700	79.3	51.1	6.057	346.2	31.56	13
111	2008	207	1715	79.9	50.97	6.771	346.6	27.62	12.96
111	2008	207	1730	79.4	51.84	6.495	343.8	26.9	12.9
111	2008	207	1745	77.8	61.53	6.315	327.6	40.84	12.84
111	2008	207	1800	76.6	64.57	6.607	338.7	25.85	12.81
111	2008	207	1815	76.4	62.5	5.828	337	29.57	12.8
111	2008	207	1830	76.4	61.94	6.374	348.9	27.79	12.77
111	2008	207	1845	76.1	57.9	5.155	352.3	32.22	12.76
111	2008	207	1900	76.4	55.83	4.925	352.2	30.73	12.76
111	2008	207	1915	75.4	58.48	5.395	349	28.89	12.76
111	2008	207	1930	74.8	60.08	4.978	347.1	24.96	12.75
111	2008	207	1945	74.4	60.72	3.739	341.5	27.4	12.74
111	2008	207	2000	73.9	61.15	3.67	349.9	27.82	12.73
111	2008	207	2015	73.5	62.96	2.977	350.4	28.88	12.73
111	2008	207	2030	73.1	64.77	3.231	341.5	25.64	12.72
111	2008	207	2045	72.7	67.45	2.294	337.6	19.93	12.71
111	2008	207	2100	72.3	69.36	2.981	337.3	19.79	12.71
111	2008	207	2115	72.2	70.2	2.83	334.5	20.32	12.71
111	2008	207	2130	72.2	70	2.357	337.7	21.38	12.7
111	2008	207	2145	72.1	70.6	2.429	332.8	22.19	12.69
111	2008	207	2200	72.1	72.1	2.174	346.3	24.9	12.69
111	2008	207	2215	71.9	73.7	2.556	347.3	26.7	12.68
111	2008	207	2230	71.8	74.2	2.847	343.3	25.75	12.68
111	2008	207	2245	71.7	75.3	2.954	336.3	20.82	12.67
111	2008	207	2300	71.6	77.5	2.507	337	25.18	12.67
111	2008	207	2315	71.4	79	2.07	344.1	26.33	12.65
111	2008	207	2330	71.1	79.9	2.501	333.2	25.95	12.65
111	2008	207	2345	71	80.5	2.109	338.5	19.55	12.65
111	2008	207	2400	70.9	80.9	2.633	342.2	30.26	12.64
111	2008	208	15	70.9	80.7	2.798	339.2	21.1	12.65
111	2008	208	30	70.9	80.1	3.203	337.5	27.04	12.64
111	2008	208	45	70.9	80.3	3.195	342.3	29.93	12.63
111	2008	208	100	70.8	80.7	2.927	342	30.94	12.63
111	2008	208	115	70.7	81.2	3.16	338.1	21.2	12.63
111	2008	208	130	70.5	81.1	3.549	338.1	25.17	12.61
111	2008	208	145	70.3	81.8	2.457	345	24.58	12.62
111	2008	208	200	69.93	82.7	1.001	354.5	18.31	12.61
111	2008	208	215	69.28	84.6	0.009	21.38	0.008	12.6
111	2008	208	230	68.55	86.5	0.009	123.9	0	12.6
111	2008	208	245	68.03	87.6	0.051	44.44	2.813	12.6
111	2008	208	300	67.64	88.6	0.238	28.98	12.07	12.59
111	2008	208	315	67.54	89.3	0.018	326.6	3.434	12.58
111	2008	208	330	67.51	89.6	na	na	na	12.57
111	2008	208	345	67.15	90.2	na	na	na	12.57
111	2008	208	400	66.87	90.9	na	na	na	12.56
111	2008	208	415	66.8	91	na	na	na	12.55
111	2008	208	430	66.52	91.4	0.06	24.03	1.981	12.55
111	2008	208	445	66.41	91.3	0.361	24.35	7.9	12.55
111	2008	208	500	66.24	91	0.313	35.2	10.84	12.53
111	2008	208	515	66.04	90.9	0.534	36.3	10.06	12.53
111	2008	208	530	65.9	90.7	na	na	na	12.53
111	2008	208	545	65.63	90.9	na	na	na	12.52
111	2008	208	600	65.37	91.3	na	na	na	12.52
111	2008	208	615	65.38	91.7	na	na	na	12.52

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	208	630	65.83	91.9	na	na	na	12.84
111	2008	208	645	66.58	91.5	0.009	101.2	0	13.42
111	2008	208	700	67.9	90.4	na	na	na	13.41
111	2008	208	715	69.37	85	0.018	243.9	0.031	13.4
111	2008	208	730	71.3	77.9	0.009	308.2	0	13.38
111	2008	208	745	73.3	72.2	1.918	356.7	21.15	13.37
111	2008	208	800	74.1	71.5	2.505	342	26.63	13.35
111	2008	208	815	75.2	72.2	1.942	319	33.51	13.33
111	2008	208	830	74.9	69.94	3.201	346.4	33.04	13.32
111	2008	208	845	75.5	67.14	3.086	334.8	33.08	13.3
111	2008	208	900	76.6	65.6	1.717	307.9	47.09	13.29
111	2008	208	915	77.9	60.74	1.654	3.689	41.89	13.28
111	2008	208	930	78.7	59.43	2.285	305.8	43.51	13.26
111	2008	208	945	79.6	54.21	3.977	352.7	42.19	13.25
111	2008	208	1000	80.6	56.82	3.771	349.1	42.67	13.24
111	2008	208	1015	80.8	58.59	3.815	321.4	36.06	13.23
111	2008	208	1030	80.4	59.53	3.986	309.5	37.25	13.23
111	2008	208	1045	79.7	62.17	5.705	284.6	29.95	13.22
111	2008	208	1100	79.9	55.38	4.8	291.2	32.09	13.22
111	2008	208	1115	81.3	53.84	4.633	308.9	38.11	13.22
111	2008	208	1130	81.7	53.28	5.252	330.8	30.84	13.21
111	2008	208	1145	81.7	55.51	5.32	331.9	36.6	13.2
111	2008	208	1200	81.6	52.07	5.632	334.7	29.67	13.2
111	2008	208	1215	81.8	50.53	5.584	337.4	31.24	13.2
111	2008	208	1230	82	48.93	5.242	327.3	29.83	13.2
111	2008	208	1245	82.9	47.56	5.248	334.3	37.33	13.19
111	2008	208	1300	82.7	50.93	5.798	336.8	30.46	13.19
111	2008	208	1315	81.9	53.94	5.808	317.8	38.6	13.19
111	2008	208	1330	81.1	54.11	5.691	297.1	34.27	13.19
111	2008	208	1345	81.2	54.55	5.884	290.1	32.78	13.19
111	2008	208	1400	80.3	56.75	6.249	300.3	37.93	13.2
111	2008	208	1415	79.9	59.36	6.37	298	33.82	13.2
111	2008	208	1430	79.8	60.03	5.737	310.8	33.24	13.2
111	2008	208	1445	80	59.29	5.395	301.4	41.76	13.1
111	2008	208	1500	79.9	58.05	6.156	310.7	35.83	13.06
111	2008	208	1515	80.6	58.59	5.137	308.1	41.27	13.06
111	2008	208	1530	80.7	54.45	5.489	301.6	38.93	13.06
111	2008	208	1545	80.4	54.38	6.656	326.5	36.02	13.08
111	2008	208	1600	79.8	55.75	6.237	303.3	37.32	13.13
111	2008	208	1615	80	56.42	5.695	307.8	43.94	13.11
111	2008	208	1630	79.8	57.75	6.541	308.4	40.72	13.06
111	2008	208	1645	79.2	57.79	7.12	331.8	33.89	13.03
111	2008	208	1700	78.4	58.92	8.15	327.2	28.66	13
111	2008	208	1715	78.2	61.3	7.08	320.2	36.47	12.97
111	2008	208	1730	78	62.03	6.329	323.5	37.94	12.94
111	2008	208	1745	77.9	62.87	5.405	317.6	40.79	12.89
111	2008	208	1800	77.3	65.71	6.231	325.3	36.61	12.84
111	2008	208	1815	76.7	64.51	5.556	315.4	39.04	12.82
111	2008	208	1830	76.8	64.15	5.775	309.3	38.15	12.8
111	2008	208	1845	76.4	65.56	6.033	319.5	38.26	12.78
111	2008	208	1900	76	64.79	5.129	327.3	40.45	12.76
111	2008	208	1915	75.5	64.26	5.741	328.4	34.33	12.76
111	2008	208	1930	75	65.63	5.588	320.2	36.74	12.75
111	2008	208	1945	74.5	66.87	5.707	331.4	36.83	12.74
111	2008	208	2000	74.1	68.24	6.164	329.6	33.21	12.74
111	2008	208	2015	73.8	68.17	5.006	329.8	34.44	12.73
111	2008	208	2030	73.7	68.37	5.84	344.4	30.65	12.73
111	2008	208	2045	73.6	69.08	6.744	332.7	25.68	12.72
111	2008	208	2100	73.5	70.2	6.664	338.1	29.96	12.72
111	2008	208	2115	73.3	70.8	6.321	341	30.13	12.71

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	208	2130	73.3	69.82	6.694	333.3	33.01	12.7
111	2008	208	2145	73.3	70.6	7.15	339.4	24.04	12.7
111	2008	208	2200	73.1	72.2	6.497	340.2	27.72	12.71
111	2008	208	2215	72.9	74.3	5.675	333.9	33.92	12.7
111	2008	208	2230	72.6	74.8	6.064	335.4	31.49	12.69
111	2008	208	2245	72.5	75.3	5.655	332	27.59	12.69
111	2008	208	2300	72.3	76	5.822	334.6	25.53	12.69
111	2008	208	2315	72.2	76.9	5.479	345	35.14	12.68
111	2008	208	2330	72.1	76.5	5.826	343	25.5	12.67
111	2008	208	2345	72.1	76.5	6.072	338.6	27.9	12.67
111	2008	208	2400	72	76.3	5.514	338.9	30.43	12.67
111	2008	209	15	72.1	75.7	6.196	337.7	28.44	12.66
111	2008	209	30	72.2	76	6.108	347.3	28.14	12.66
111	2008	209	45	72.1	77.3	6.023	338.4	28.02	12.66
111	2008	209	100	71.9	78	5.36	337.4	34.71	12.65
111	2008	209	115	71.7	79	5.248	335.7	31.54	12.65
111	2008	209	130	71.6	79.8	5.169	336.9	29.01	12.64
111	2008	209	145	71.5	78.5	4.849	336.9	24.85	12.64
111	2008	209	200	71.7	77.8	4.823	334.8	25.69	12.63
111	2008	209	215	71.8	75.7	5.336	346	29.9	12.63
111	2008	209	230	71.9	75.7	4.833	341.9	28.73	12.63
111	2008	209	245	71.9	75.6	6.319	342.6	26.03	12.63
111	2008	209	300	71.7	77.1	5.08	341.1	28.71	12.63
111	2008	209	315	71.4	78	6.134	335.1	27.32	12.61
111	2008	209	330	71.2	79	5.459	332.8	24.38	12.61
111	2008	209	345	71	80.5	5.121	327.1	28.17	12.61
111	2008	209	400	70.8	81.1	4.641	333.8	29.43	12.6
111	2008	209	415	70.6	82.4	3.956	329.2	26.53	12.6
111	2008	209	430	70.6	82.8	4.001	341.5	28.6	12.59
111	2008	209	445	70.6	83.1	4.337	333.5	30.24	12.58
111	2008	209	500	70.7	82.9	4.083	343.1	25.76	12.58
111	2008	209	515	70.9	81.6	5.439	340.5	26.42	12.57
111	2008	209	530	71.1	81.5	4.532	342.8	26.81	12.57
111	2008	209	545	71.3	80.7	5.342	352.7	29.55	12.57
111	2008	209	600	71.4	80.3	5.105	3.471	28.27	12.56
111	2008	209	615	71.3	80	3.515	358	28.68	12.56
111	2008	209	630	70.8	85.6	4.657	340.2	29	12.56
111	2008	209	645	68.97	89.1	2.076	336.6	40.61	12.55
111	2008	209	700	68.51	90.7	4.027	244.2	16.55	12.55
111	2008	209	715	68.16	91.3	2.356	259.2	20.2	12.55
111	2008	209	730	68	91.9	1.485	324.9	24.28	12.54
111	2008	209	745	68.12	92.2	2.786	296.1	33.38	12.55
111	2008	209	800	68.33	92	3.406	326.5	32.09	12.68
111	2008	209	815	68.59	91.3	2.992	291.9	33.02	13.37
111	2008	209	830	70.2	86.9	3.025	269.3	28.44	13.35
111	2008	209	845	71.3	83	3.202	284.5	35.06	13.35
111	2008	209	900	72	82.4	2.675	284.9	32.56	13.25
111	2008	209	915	71.8	82.9	2.887	301.5	35.03	13.21
111	2008	209	930	72.1	81.4	2.937	295.8	35.12	13.32
111	2008	209	945	73.7	77.6	3.517	325.4	35.27	13.31
111	2008	209	1000	74.7	77.4	4.776	309.1	34.65	13.29
111	2008	209	1015	74.7	77.4	5.407	296	38.74	13.28
111	2008	209	1030	75.3	79.1	6.245	265.5	27.63	13.27
111	2008	209	1045	75	78.9	5.375	270	29.88	13.27
111	2008	209	1100	75.2	77.4	6.468	264.8	26.54	13.26
111	2008	209	1115	75	79.8	6.605	267.4	24.43	13.26
111	2008	209	1130	75.1	77.7	4.865	298.6	35.98	13.27
111	2008	209	1145	75.3	78.2	5.33	266.9	30.07	13.26
111	2008	209	1200	74.5	82.2	5.923	254.8	18.39	13.12
111	2008	209	1215	73.7	83.3	3.096	256.8	42.55	12.91

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	209	1230	71.5	89.6	3.159	85.8	46.65	12.85
111	2008	209	1245	69.08	92.2	2.641	190.9	41.49	12.83
111	2008	209	1300	69.2	92.2	5.598	229.1	19.68	12.8
111	2008	209	1315	68.9	93.3	2.814	261.3	78.9	12.79
111	2008	209	1330	69.51	93.4	1.331	81.5	40.93	12.77
111	2008	209	1345	70.3	92.8	3.753	239.3	19.35	12.76
111	2008	209	1400	69.59	92.8	5.143	234.5	19.29	12.76
111	2008	209	1415	69.4	90.7	4.859	292.1	45.64	12.75
111	2008	209	1430	67.7	93.1	2.41	86.2	58.16	12.73
111	2008	209	1445	67.62	93.2	3.309	275.6	49.86	12.73
111	2008	209	1500	67.97	93.4	2.324	93.7	43.93	12.73
111	2008	209	1515	67.61	93.8	1.743	131.7	39.84	12.71
111	2008	209	1530	67.84	93.9	1.588	317.5	32.45	12.71
111	2008	209	1545	68.17	94	0.838	343.9	21.75	12.71
111	2008	209	1600	68.73	94.3	4.629	248.6	38.41	12.69
111	2008	209	1615	69.53	94.2	4.063	291	32.28	12.69
111	2008	209	1630	70	93.9	4.393	331.2	35.19	12.67
111	2008	209	1645	69.44	93.5	5.084	317.3	39.92	12.67
111	2008	209	1700	68.76	93.3	5.626	327.7	39.15	12.67
111	2008	209	1715	68.46	93.2	4.117	348	34.63	12.65
111	2008	209	1730	68.31	92.4	4.442	309.8	34.3	12.65
111	2008	209	1745	68.42	86.7	8.5	288.1	25.08	12.65
111	2008	209	1800	68.71	86.5	5.461	354.2	72.2	12.64
111	2008	209	1815	67.39	89.4	3.046	83.7	50.74	12.63
111	2008	209	1830	67.11	90.2	3.283	90.2	64.6	12.62
111	2008	209	1845	67.04	90.8	2.659	86	54.61	12.61
111	2008	209	1900	67.26	91.2	1.418	69.61	45.93	12.6
111	2008	209	1915	67.57	91.7	0.401	51.37	17.75	12.6
111	2008	209	1930	67.59	92	0.94	39.11	12.53	12.59
111	2008	209	1945	67.44	92.4	0.275	334.5	15.53	12.58
111	2008	209	2000	67.41	92.6	0.308	20.34	24.19	12.57
111	2008	209	2015	67.34	92.9	0.414	342	11.12	12.56
111	2008	209	2030	67.26	93.2	0.244	353	8.71	12.55
111	2008	209	2045	67.19	93.3	0.364	341.9	11.26	12.55
111	2008	209	2100	66.98	93.5	0.438	335.8	18.35	12.53
111	2008	209	2115	66.85	93.6	1.155	331.4	35.13	12.53
111	2008	209	2130	66.83	93.9	0.849	301.9	28.59	12.52
111	2008	209	2145	67.3	93.7	1.523	287.3	20.87	12.52
111	2008	209	2200	67.46	93.8	0.76	321.2	28.43	12.52
111	2008	209	2215	67.55	93.4	1.229	307.8	24.59	12.52
111	2008	209	2230	67.39	92.7	1.563	289.9	25.44	12.52
111	2008	209	2245	67.57	92.5	2.234	325.8	33.5	12.52
111	2008	209	2300	67.66	92.2	2.148	325.5	26.36	12.52
111	2008	209	2315	67.62	91.9	2.125	356.2	37.41	12.51
111	2008	209	2330	67.56	92	0.419	26.7	11.43	12.51
111	2008	209	2345	67.41	92.1	na	na	na	12.51
111	2008	209	2400	67.21	92.3	0.401	51.84	40.65	12.51
111	2008	210	15	67.04	92.6	0.16	296.1	10.24	12.51
111	2008	210	30	66.76	92.5	0.407	73.4	5.217	12.51
111	2008	210	45	66.15	92.8	0.418	37.2	11.63	12.51
111	2008	210	100	66.01	93	0.221	273.9	2.843	12.51
111	2008	210	115	65.65	93.2	0.127	83.8	1.235	12.51
111	2008	210	130	65.34	93.3	0.576	74.9	7.56	12.5
111	2008	210	145	65.11	93.5	0.301	44.45	3.479	12.5
111	2008	210	200	64.96	93.7	0.049	67.45	2.324	12.5
111	2008	210	215	64.93	93.7	0.066	35.97	1.789	12.49
111	2008	210	230	64.63	94	0.325	31.09	2.31	12.5
111	2008	210	245	64.39	94.2	0.29	310.3	29.36	12.5
111	2008	210	300	64.64	94.1	0.725	244.5	9.63	12.49
111	2008	210	315	64.43	94.1	0.53	281.1	23.03	12.49

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	210	330	63.99	94.3	0.218	73.7	9.07	12.5
111	2008	210	345	63.71	94.2	na	na	na	12.5
111	2008	210	400	63.37	94.4	0.278	31.34	1.316	12.5
111	2008	210	415	63.17	94.6	na	na	na	12.49
111	2008	210	430	62.94	94.7	0.824	73	9.29	12.49
111	2008	210	445	62.9	94.8	na	na	na	12.48
111	2008	210	500	62.79	94.9	0.453	71.6	7.39	12.48
111	2008	210	515	62.56	94.8	0.268	72.1	7.52	12.48
111	2008	210	530	62.27	94.9	0.354	39.6	7.62	12.48
111	2008	210	545	62.16	94.9	na	na	na	12.48
111	2008	210	600	61.89	95	0.273	30.84	5.208	12.47
111	2008	210	615	61.89	95.1	na	na	na	12.47
111	2008	210	630	62.24	95.2	na	na	na	12.52
111	2008	210	645	62.97	95.3	0.065	84.5	0.729	12.76
111	2008	210	700	63.69	95.5	0.323	199.5	12.04	13.33
111	2008	210	715	64.64	95.2	1.183	203.5	15.54	13.43
111	2008	210	730	65.18	94.8	1.736	220.6	44.4	13.41
111	2008	210	745	66.04	94.7	1.856	237.4	43.55	13.4
111	2008	210	800	66.9	93.3	1.082	148.4	45.91	13.2
111	2008	210	815	67.04	93	1.856	123.5	39	13.23
111	2008	210	830	67.13	93.2	2.152	96.7	45.23	13.19
111	2008	210	845	67.38	92.5	2.322	80.5	44.69	13.16
111	2008	210	900	67.49	92.6	1.35	110.9	41.49	13.15
111	2008	210	915	68.22	91.2	2.359	53.39	28.58	13.15
111	2008	210	930	68.52	90.7	2.179	185.9	85.6	13.27
111	2008	210	945	68.78	90.1	1.677	64.33	69.51	13.28
111	2008	210	1000	69.33	88.6	2.32	51.98	45.2	13.27
111	2008	210	1015	70.6	84.8	2.211	46.37	45.83	13.35
111	2008	210	1030	71.4	83.4	1.523	354	87.6	13.32
111	2008	210	1045	73.1	78	1.824	108.8	65.18	13.3
111	2008	210	1100	74.2	74.6	2.433	14.13	61.39	13.29
111	2008	210	1115	74.9	75.8	2.463	276.6	64.49	13.27
111	2008	210	1130	74.7	76.5	2.87	310.3	48.51	13.26
111	2008	210	1145	75	73.1	3.132	282.7	43.86	13.26
111	2008	210	1200	76.2	69.79	3.533	301	52.5	13.25
111	2008	210	1215	76.3	76.3	4.762	285	41.69	13.24
111	2008	210	1230	76.2	71.8	4.675	281.3	35.06	13.24
111	2008	210	1245	77.4	72	4.899	278.4	31.06	13.24
111	2008	210	1300	76.5	72.5	5.588	268.3	22.74	13.24
111	2008	210	1315	79.3	64.04	3.21	345.4	37.86	13.22
111	2008	210	1330	80.8	63.03	3.016	347.9	42.4	13.21
111	2008	210	1345	80.7	68.92	5.252	323.3	42.03	13.21
111	2008	210	1400	78.8	73.5	6.452	283.7	26.31	13.2
111	2008	210	1415	78	72.8	6.295	307.2	34.8	13.2
111	2008	210	1430	76.9	74.3	6.722	314.6	38.12	13.21
111	2008	210	1445	77.5	68.85	5.046	320.7	34.62	13.22
111	2008	210	1500	78.7	66.68	5.145	332.3	37.51	13.19
111	2008	210	1515	77.8	67.08	5.769	319.2	39.47	13.17
111	2008	210	1530	77.6	69.32	5.834	328.7	31.97	13.16
111	2008	210	1545	77.1	68.08	6.303	330	35.59	13.14
111	2008	210	1600	78.1	65.57	4.889	327.9	43.42	13.12
111	2008	210	1615	78.2	60.26	5.785	336.9	32.7	13.1
111	2008	210	1630	78.5	55.98	5.882	334.1	24.17	13.08
111	2008	210	1645	79.3	51.04	4.383	330.2	36.91	13.04
111	2008	210	1700	79.6	53.94	4.23	338.5	32.76	13
111	2008	210	1715	79.3	51.54	4.913	324.5	31.18	12.96
111	2008	210	1730	78.5	57.09	5.332	336.3	28.49	12.92
111	2008	210	1745	78	62.07	4.313	337.4	34.71	12.9
111	2008	210	1800	77.7	54.98	4.957	329.1	29.93	12.86
111	2008	210	1815	77.2	61.2	5.205	334.1	24.11	12.83

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	210	1830	77.2	59.63	4.343	342.7	25.67	12.8
111	2008	210	1845	76.7	60.24	5.088	332.1	28.38	12.78
111	2008	210	1900	76.4	61.42	3.32	340.4	27.89	12.78
111	2008	210	1915	76	63.66	3.455	330.3	27.55	12.76
111	2008	210	1930	75.2	65.26	3.227	334.9	31.11	12.76
111	2008	210	1945	74.8	62.09	4.099	351.7	23.33	12.75
111	2008	210	2000	74.5	62.12	4.49	346.8	25.82	12.75
111	2008	210	2015	74.1	63.39	3.11	357.5	24.71	12.73
111	2008	210	2030	73.8	63.36	2.4	352.3	25.38	12.73
111	2008	210	2045	73.1	66.64	0.558	24.75	13.56	12.73
111	2008	210	2100	72.4	66.94	0.734	23.12	21.28	12.72
111	2008	210	2115	72.5	64.85	2.699	10.76	28.87	12.71
111	2008	210	2130	72.8	65.38	2.263	9.12	25.45	12.71
111	2008	210	2145	72.4	67.16	1.84	4.549	30.43	12.71
111	2008	210	2200	72.3	67.19	2.882	347.9	23.29	12.7
111	2008	210	2215	72.3	67.36	3.249	346	24.86	12.7
111	2008	210	2230	72.1	69.06	1.876	352.3	28.28	12.69
111	2008	210	2245	71.7	71.5	1.786	348.7	27.33	12.69
111	2008	210	2300	71.2	74.8	1.95	16.27	21.8	12.68
111	2008	210	2315	71	77.2	1.812	16.55	20.38	12.68
111	2008	210	2330	70.7	80	1.799	7.33	19.8	12.67
111	2008	210	2345	70.8	81.6	1.223	3.738	24.19	12.67
111	2008	210	2400	70.5	83.4	0.679	2.398	24.01	12.67
111	2008	211	15	69.98	85.2	0.165	21.31	5.314	12.66
111	2008	211	30	69.52	86.6	na	na	na	12.65
111	2008	211	45	69.42	87.1	na	na	na	12.66
111	2008	211	100	69.51	87.1	0.23	22.84	9.35	12.65
111	2008	211	115	69.64	86.6	1.104	15.39	18.01	12.65
111	2008	211	130	69.67	85.8	1.805	26.63	18.59	12.65
111	2008	211	145	69.77	83.3	2.496	29.84	17.77	12.65
111	2008	211	200	70.1	81.4	2.475	23.01	17.08	12.64
111	2008	211	215	70.3	80.3	2.387	358.9	21.21	12.64
111	2008	211	230	70.2	80.2	2.104	24.3	13.72	12.64
111	2008	211	245	70.1	80.1	1.778	4.037	21.19	12.63
111	2008	211	300	69.92	80.4	0.602	4.099	17.17	12.63
111	2008	211	315	69.42	81.5	0.825	14.58	19.97	12.63
111	2008	211	330	69.13	81.9	1.571	11.63	20	12.63
111	2008	211	345	68.85	83.3	1.078	24.63	16.21	12.62
111	2008	211	400	68.52	83.6	1.773	30.67	15.55	12.61
111	2008	211	415	68.33	84.1	1.45	33.72	16.9	12.61
111	2008	211	430	67.87	85.3	0.91	34.04	10.5	12.61
111	2008	211	445	67.4	86.3	na	na	na	12.61
111	2008	211	500	66.98	87.2	na	na	na	12.6
111	2008	211	515	66.46	88.2	na	na	na	12.6
111	2008	211	530	66.18	88.7	na	na	na	12.59
111	2008	211	545	65.97	88.9	na	na	na	12.59
111	2008	211	600	65.88	88.9	0.073	7.82	2.388	12.58
111	2008	211	615	66.22	87.5	1.428	32.28	14.59	12.57
111	2008	211	630	67.02	85.7	0.824	32.76	14.19	12.64
111	2008	211	645	68.02	82.5	1.381	41.24	23.73	13.05
111	2008	211	700	69.43	77.5	1.828	47.57	24.77	13.4
111	2008	211	715	71.2	72.3	1.84	53.53	27.83	13.39
111	2008	211	730	72.7	68.86	2.25	34.2	19.6	13.37
111	2008	211	745	74	66.22	2.193	43.85	23.32	13.36
111	2008	211	800	75	64.8	2.647	54.73	31.93	13.34
111	2008	211	815	76.3	63.02	2.211	51.82	29.98	13.32
111	2008	211	830	77.7	59.98	2.814	58.7	32.84	13.31
111	2008	211	845	78.8	56.6	3.53	49.5	30.1	13.29
111	2008	211	900	79.8	53.89	3.749	60.98	33.54	13.28
111	2008	211	915	80.4	52.98	3.914	51.16	29.41	13.26

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	211	930	81.6	50.84	3.215	58.08	39.02	13.24
111	2008	211	945	82.5	48.83	3.801	64.8	40.37	13.24
111	2008	211	1000	83.4	46.12	3.722	56.27	34.04	13.22
111	2008	211	1015	84.4	43.15	3.454	50.33	34.59	13.21
111	2008	211	1030	84.8	44.68	4.011	50.52	36.32	13.2
111	2008	211	1045	85.4	42.17	4.18	50.67	39.81	13.19
111	2008	211	1100	85.8	42.73	4.478	54.19	35.76	13.18
111	2008	211	1115	86.5	39.06	4.669	53.59	33.23	13.18
111	2008	211	1130	86.5	37.72	5.195	71.9	36.26	13.17
111	2008	211	1145	87.2	35.35	4.444	55.83	38.95	13.16
111	2008	211	1200	87.9	33.21	4.119	66.14	48.72	13.16
111	2008	211	1215	88.5	34.11	4.669	66.34	33.76	13.15
111	2008	211	1230	87.9	35.08	5.248	37.04	40.23	13.15
111	2008	211	1245	87.8	35.68	5.274	45.24	39.65	13.14
111	2008	211	1300	88.7	35.28	4.045	75.6	46.63	13.14
111	2008	211	1315	89.6	31.14	4.383	50.31	36.44	13.13
111	2008	211	1330	89.1	34.91	4.409	33.85	38.62	13.13
111	2008	211	1345	89.2	32.48	5.495	26.47	38.64	13.13
111	2008	211	1400	86.7	54.43	4.891	343.5	39	13.13
111	2008	211	1415	82.9	57.43	5.526	332.2	26.58	13.14
111	2008	211	1430	82.3	54.39	6.4	331.6	25.95	13.16
111	2008	211	1445	82.8	55.33	5.381	330.3	31.49	13.17
111	2008	211	1500	83.3	55.37	4.138	338.5	30.73	13.17
111	2008	211	1515	82.4	55.71	5.812	339.8	27.52	13.14
111	2008	211	1530	81.9	56.35	5.614	339.1	31.41	13.19
111	2008	211	1545	81.8	56.35	5.602	347.1	23.99	13.2
111	2008	211	1600	81.7	55.08	6.055	336.2	26.93	13.2
111	2008	211	1615	82.4	52.24	5.931	338.3	24.58	13.2
111	2008	211	1630	82.7	52.47	5.759	343.4	30	13.13
111	2008	211	1645	81.9	55.72	6.577	340	25.69	13.11
111	2008	211	1700	80.6	58.09	5.806	337.9	33.6	13.05
111	2008	211	1715	81	59.36	6.348	351.4	29.63	13.03
111	2008	211	1730	80.8	59.16	6.789	349.5	32.22	12.95
111	2008	211	1745	80.6	59.39	6.636	355.8	26.8	12.92
111	2008	211	1800	80.4	61.66	5.745	355	25.19	12.86
111	2008	211	1815	80.1	60.03	4.613	354	31.15	12.83
111	2008	211	1830	79.9	62.3	4.073	355.5	27.64	12.8
111	2008	211	1845	79.6	61.53	3.332	349.7	28.8	12.78
111	2008	211	1900	79	62.13	4.232	348.8	25.46	12.77
111	2008	211	1915	79.1	62.11	2.83	348.7	23.14	12.76
111	2008	211	1930	78.8	62.92	2.246	343.2	30.75	12.75
111	2008	211	1945	78.2	65.09	2.441	339.7	16.4	12.74
111	2008	211	2000	77.6	66.8	2.602	341.1	18.18	12.73
111	2008	211	2015	76.9	69.07	1.276	341.7	24.82	12.73
111	2008	211	2030	76.3	71.4	1.621	341.2	21.33	12.72
111	2008	211	2045	75.8	73.3	1.691	338.7	19.81	12.72
111	2008	211	2100	75.4	75.7	0.974	325.9	15.15	12.71
111	2008	211	2115	75	77.3	0.915	343.3	16.35	12.71
111	2008	211	2130	74.4	79.2	0.018	38.77	6.906	12.7
111	2008	211	2145	73.8	80.4	na	na	na	12.71
111	2008	211	2200	73.2	82.1	na	na	na	12.7
111	2008	211	2215	72.9	83.5	na	na	na	12.69
111	2008	211	2230	72.7	84.3	0.116	335.2	3.06	12.68
111	2008	211	2245	72.4	85.3	na	na	na	12.68
111	2008	211	2300	72.1	86.5	0.091	288.1	4.217	12.68
111	2008	211	2315	72	87.2	0.009	96.9	0	12.67
111	2008	211	2330	71.7	87.7	0.018	336.1	0.072	12.66
111	2008	211	2345	71.6	87.9	na	na	na	12.66
111	2008	211	2400	71.2	88.6	na	na	na	12.65
111	2008	212	15	70.9	89.1	0.529	337	12.49	12.66

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	212	30	70.7	89.3	0.018	317.5	0.459	12.65
111	2008	212	45	70.6	89.7	0.222	349	13.79	12.65
111	2008	212	100	70.7	89.4	0.03	27.74	0.431	12.64
111	2008	212	115	70.8	89.1	0.193	310.8	5.177	12.64
111	2008	212	130	70.6	89.3	0.405	35.7	54.96	12.63
111	2008	212	145	70.5	88.9	0.463	123.7	7.1	12.63
111	2008	212	200	70.2	89.2	0.157	339	3.122	12.63
111	2008	212	215	69.78	89.8	0.23	324.4	2.748	12.63
111	2008	212	230	69.56	90.2	0.425	28.45	39.53	12.63
111	2008	212	245	69.31	90.5	na	na	na	12.62
111	2008	212	300	69.16	90.8	0.207	127.4	1.111	12.61
111	2008	212	315	69.06	90.9	0.178	128.5	4.406	12.61
111	2008	212	330	68.85	90.9	0.462	32.24	10.95	12.61
111	2008	212	345	68.69	90.5	1.071	85.9	67.83	12.61
111	2008	212	400	68.56	89.5	0.809	54.91	42.04	12.6
111	2008	212	415	68.17	89.5	0.792	103.1	44.97	12.6
111	2008	212	430	68.49	87	1.11	108.6	48.82	12.6
111	2008	212	445	68.58	84.9	0.651	113.4	32.64	12.59
111	2008	212	500	68.52	84	0.242	100	13.12	12.59
111	2008	212	515	68.45	83.8	0.211	94.8	13.27	12.58
111	2008	212	530	68.38	84.1	0.804	116.4	14.23	12.57
111	2008	212	545	68.61	83.7	1.299	112.4	25.74	12.57
111	2008	212	600	68.54	83.8	0.757	86	35.27	12.57
111	2008	212	615	68.51	83.6	0.463	113	18.68	12.57
111	2008	212	630	68.77	82.7	0.473	119.7	24.18	12.6
111	2008	212	645	69.54	80.9	0.5	119	19.33	12.88
111	2008	212	700	70.7	77.5	0.425	113.5	23.86	13.34
111	2008	212	715	72.1	73.8	1.262	183.3	33.24	13.37
111	2008	212	730	72.9	71.7	2.284	187.2	25.77	13.36
111	2008	212	745	73.6	69.99	2.712	191.3	29.65	13.35
111	2008	212	800	74.4	66.5	3.293	188.9	29.2	13.34
111	2008	212	815	74.9	66.2	2.539	160.6	33.99	13.33
111	2008	212	830	76.1	61.62	2.597	125.2	30.32	13.32
111	2008	212	845	77	60.15	2.296	156.1	45.24	13.3
111	2008	212	900	77.6	58.41	3.272	179.5	38.6	13.29
111	2008	212	915	78.1	54.96	2.857	144.1	31.2	13.28
111	2008	212	930	78.4	56.12	3.69	198.7	34.69	13.27
111	2008	212	945	79.3	53.71	3.334	146.3	47.14	13.26
111	2008	212	1000	80.6	47.43	3.026	189.8	38.99	13.24
111	2008	212	1015	80.2	50.5	3.845	240	40.47	13.24
111	2008	212	1030	80.6	48.46	3.074	226.4	35.33	13.24
111	2008	212	1045	80.9	50.17	4.772	259.3	22.78	13.22
111	2008	212	1100	80.9	53.81	5.312	264.3	26.81	13.22
111	2008	212	1115	80.3	52.94	5.276	267.9	24.53	13.22
111	2008	212	1130	80.8	51.3	6.317	259.5	28.31	13.22
111	2008	212	1145	80.6	49.4	7.34	251.1	17.3	13.21
111	2008	212	1200	81.1	54.48	6.96	243.4	21.81	13.21
111	2008	212	1215	80.1	49.93	7.71	259.3	20.2	13.21
111	2008	212	1230	80.1	47.29	7.51	248.9	19.63	13.21
111	2008	212	1245	80.4	54.45	7.07	254.8	25.11	13.2
111	2008	212	1300	79.8	51	6.96	251.6	25.62	13.21
111	2008	212	1315	79.3	55.05	7.52	254.9	21.17	13.22
111	2008	212	1330	78.9	55.78	6.309	264.4	24.99	13.22
111	2008	212	1345	78.7	56.48	6.789	266.4	20.2	13.22
111	2008	212	1400	79.3	56.78	5.671	283.5	29	13.22
111	2008	212	1415	78.8	64.91	5.421	284.6	32.89	13.22
111	2008	212	1430	77.5	67.61	6.072	253.6	17.46	13.22
111	2008	212	1445	78.5	66.88	5.264	259.7	25.55	13.22
111	2008	212	1500	78	71.1	5.983	252.1	19.47	13.22
111	2008	212	1515	77.6	67.91	5.64	255.1	20.31	13.23

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	212	1530	79.1	64.97	3.218	295.6	32.2	13.22
111	2008	212	1545	79.3	67.75	4.031	278.8	33.78	13.22
111	2008	212	1600	78.3	71.6	4.587	259.9	20.89	13.23
111	2008	212	1615	78	71.1	4.4	254.4	25.84	13.24
111	2008	212	1630	78.1	70.8	4.22	268.2	33.07	13.25
111	2008	212	1645	78.5	68.52	3.781	272.5	30.22	13.25
111	2008	212	1700	79.1	69.25	4.027	285.7	30.12	13.14
111	2008	212	1715	78.2	74	4.484	286.4	24.73	13.1
111	2008	212	1730	77.5	75.6	4.14	275.8	27.41	13.03
111	2008	212	1745	76.8	76.6	4.06	282.1	34.37	13.02
111	2008	212	1800	76.6	77.8	2.876	301.1	30.01	12.94
111	2008	212	1815	77	74.5	2.922	315.5	30.14	12.94
111	2008	212	1830	77.8	72.5	2.424	314.8	36.84	13.02
111	2008	212	1845	77.9	74.3	4.011	333.5	34.43	12.92
111	2008	212	1900	77.2	75.8	4.166	326.9	29.69	12.82
111	2008	212	1915	76.6	77.1	3.021	316.7	31.46	12.78
111	2008	212	1930	76.4	77.8	2.24	317.7	32.99	12.77
111	2008	212	1945	75.9	80	3.161	316.5	27.33	12.76
111	2008	212	2000	75.5	79.2	3.759	327.3	29.67	12.74
111	2008	212	2015	75.5	78.9	2.636	325.8	34.09	12.74
111	2008	212	2030	75.3	81.7	2.695	311.4	30.75	12.74
111	2008	212	2045	75	83.8	2.645	318.1	23.72	12.73
111	2008	212	2100	74.9	84.8	2.578	325.5	27.12	12.72
111	2008	212	2115	74.9	86.2	3.586	329.3	22.26	12.73
111	2008	212	2130	74.9	87.1	2.725	314.9	34.1	12.72
111	2008	212	2145	74.9	87.9	1.844	311.9	31.55	12.73
111	2008	212	2200	74.8	88.8	2.404	306.9	32.97	12.72
111	2008	212	2215	74.9	89	2.87	319	29.88	12.72
111	2008	212	2230	74.9	89.3	3.378	332.8	30.7	12.72
111	2008	212	2245	74.9	89.8	2.84	323.5	33.21	12.71
111	2008	212	2300	74.9	90.2	3.579	328.9	39.6	12.71
111	2008	212	2315	75	90.5	3.868	325.3	32.84	12.71
111	2008	212	2330	74.9	90.5	3.729	332	33.45	12.71
111	2008	212	2345	74.8	90.9	3.291	314.7	31.98	12.71
111	2008	212	2400	74.7	91.1	1.25	308.5	34.06	12.71
111	2008	213	15	74.7	91.2	2.701	337.4	24.85	12.7
111	2008	213	30	74.8	91.1	2.388	316.6	35.58	12.69
111	2008	213	45	75	91.1	2.659	332.2	30.34	12.69
111	2008	213	100	75	91.2	1.778	323	20.27	12.69
111	2008	213	115	75	91	1.738	286.2	19.96	12.68
111	2008	213	130	75	91.1	1.696	271.6	33.35	12.68
111	2008	213	145	75	91.1	0.627	319.3	24.03	12.67
111	2008	213	200	75.1	91.1	0.567	315.5	14.64	12.67
111	2008	213	215	75.2	91	0.482	320.2	19.27	12.67
111	2008	213	230	75.2	91	1.214	26.2	37.51	12.66
111	2008	213	245	75.1	91	0.972	98.7	32.33	12.67
111	2008	213	300	75	91.1	1.7	285.5	22.53	12.66
111	2008	213	315	74.9	91.2	1.912	268.5	23.63	12.65
111	2008	213	330	74.8	91.4	0.336	308	26.03	12.65
111	2008	213	345	74.6	91.5	1.376	82.8	11.61	12.65
111	2008	213	400	74.2	91.8	1.267	35.26	26.31	12.64
111	2008	213	415	73.9	92.2	1.037	53.38	22.87	12.63
111	2008	213	430	73.7	92.4	0.702	18.39	13.63	12.63
111	2008	213	445	73.5	92.5	na	na	na	12.62
111	2008	213	500	73.3	92.7	0.009	343.8	0.007	12.62
111	2008	213	515	73.2	92.8	na	na	na	12.62
111	2008	213	530	73	92.8	na	na	na	12.61
111	2008	213	545	72.8	93	na	na	na	12.61
111	2008	213	600	72.7	92.9	na	na	na	12.61
111	2008	213	615	72.6	93.2	na	na	na	12.6

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	213	630	72.7	93.4	na	na	na	12.6
111	2008	213	645	73	93.5	0.159	333.1	3.321	12.68
111	2008	213	700	73.4	93.2	1.591	341.7	16.35	12.84
111	2008	213	715	73.8	93	1.993	338	28.96	12.87
111	2008	213	730	74.3	92.7	2.375	353	21.12	12.9
111	2008	213	745	74.9	91.4	2.633	339.9	32.38	13.13
111	2008	213	800	75	90.2	2.609	280.4	31.53	13.16
111	2008	213	815	75.9	87.6	1.594	324.3	35.9	13.31
111	2008	213	830	77.9	80	2.106	26.14	31.82	13.28
111	2008	213	845	79.2	76.2	1.572	36.13	90.1	13.27
111	2008	213	900	79.3	75.9	1.786	350	65.82	13.26
111	2008	213	915	79	76.2	1.65	34.55	50.17	13.26
111	2008	213	930	79.9	71.2	2.317	1.935	31.44	13.25
111	2008	213	945	80.9	63.74	2.391	47.01	43.16	13.24
111	2008	213	1000	83.8	61.97	2.041	90.5	71.9	13.22
111	2008	213	1015	83.3	69.92	1.853	286.9	92.9	13.21
111	2008	213	1030	82.2	69.35	2.494	311	40.58	13.21
111	2008	213	1045	82	68.61	2.458	285	44.88	13.2
111	2008	213	1100	83.2	67.3	3.183	249.9	56.14	13.2
111	2008	213	1115	82.4	71	5.529	262.6	24.17	13.19
111	2008	213	1130	81.5	74.2	6.174	275.8	24.42	13.19
111	2008	213	1145	82	71.4	5.246	292.8	32.68	13.19
111	2008	213	1200	81.6	70.3	5.552	296.7	37.32	13.19
111	2008	213	1215	82.4	68.78	4.808	308.9	36.75	13.19
111	2008	213	1230	82.9	67.34	5.576	324.1	41.51	13.18
111	2008	213	1245	82.9	69.21	6.263	313	35.11	13.18
111	2008	213	1300	82.3	67.3	6.753	331.9	32.13	13.18
111	2008	213	1315	82.3	64.96	6.021	332.7	25.05	13.18
111	2008	213	1330	82.7	63.26	6.47	333.6	35.46	13.19
111	2008	213	1345	82.9	64.77	7.52	338.5	24.69	13.18
111	2008	213	1400	82.8	60.82	6.557	332	29.81	13.19
111	2008	213	1415	82.3	64.1	6.199	341.8	25.37	13.19
111	2008	213	1430	81.9	64.77	6.108	341.6	29.99	13.2
111	2008	213	1445	82.6	60.29	5.248	336.7	29.54	13.2
111	2008	213	1500	83.3	62.23	5.318	355	30.59	13.2
111	2008	213	1515	83.4	62.03	5.405	340.4	34.51	13.2
111	2008	213	1530	82.2	65.68	5.457	339.7	31.8	13.2
111	2008	213	1545	81.1	66.34	5.044	339.8	24.59	13.21
111	2008	213	1600	81.1	68.65	5.056	335	27.4	13.22
111	2008	213	1615	81.1	66.38	4.641	340.2	25.71	13.22
111	2008	213	1630	81.6	65.11	4.063	353.4	29.63	13.23
111	2008	213	1645	81.6	68.75	4.984	344.2	31.64	13.24
111	2008	213	1700	81.6	64.91	4.621	348.8	31.16	13.24
111	2008	213	1715	83.7	60.26	5.475	345.3	26.3	13.18
111	2008	213	1730	84.3	59.02	4.992	344.3	23.96	12.97
111	2008	213	1745	83.9	58.29	4.256	338.1	37.97	12.92
111	2008	213	1800	85.4	52.17	4.486	13.94	30.59	12.86
111	2008	213	1815	85.9	50.97	3.54	14.47	31.89	12.82
111	2008	213	1830	86.2	51.07	3.862	348.6	21.3	12.81
111	2008	213	1845	85.7	51.14	2.728	352.2	29.36	12.79
111	2008	213	1900	86.5	48.2	2.314	19.62	29.33	12.79
111	2008	213	1915	85.5	49.06	3.424	34.86	25.51	12.78
111	2008	213	1930	84.2	50.67	2.408	47.32	26.26	12.77
111	2008	213	1945	83.5	53.14	1.217	39.64	17.76	12.76
111	2008	213	2000	82.3	54.65	2.069	31.77	24.95	12.76
111	2008	213	2015	81.6	56.05	1.625	19.26	14.24	12.76
111	2008	213	2030	80.6	58.69	1.148	29.36	12.53	12.75
111	2008	213	2045	79.7	58.9	1.556	29.6	15.86	12.74
111	2008	213	2100	79.7	58	1.424	26.08	13.62	12.74
111	2008	213	2115	79.5	59.24	0.652	29.3	12.18	12.74

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	213	2130	78.8	61.05	0.956	41.21	15.04	12.73
111	2008	213	2145	78.1	62.59	1.255	34.14	13.6	12.72
111	2008	213	2200	77.8	61.42	1.253	86.5	40.5	12.72
111	2008	213	2215	78	63.19	1.056	143.4	29.96	12.71
111	2008	213	2230	77.6	66	1.039	129	27.91	12.7
111	2008	213	2245	76.3	70.9	0.018	24.65	1.091	12.71
111	2008	213	2300	75	73	na	na	na	12.7
111	2008	213	2315	74.2	74.7	na	na	na	12.69
111	2008	213	2330	73.6	76.6	na	na	na	12.68
111	2008	213	2345	73	77.7	0.029	33.19	0.924	12.67
111	2008	213	2400	72.4	79.6	0.038	19.86	1.847	12.67
111	2008	214	15	71.6	81.2	na	na	na	12.66
111	2008	214	30	71	82.2	na	na	na	12.65
111	2008	214	45	70.8	82.9	na	na	na	12.65
111	2008	214	100	70.4	83.7	na	na	na	12.64
111	2008	214	115	70.3	84	na	na	na	12.63
111	2008	214	130	70.5	83.8	na	na	na	12.62
111	2008	214	145	70.1	84.8	na	na	na	12.62
111	2008	214	200	69.71	85.5	na	na	na	12.61
111	2008	214	215	69.13	86.5	na	na	na	12.61
111	2008	214	230	68.8	87.2	na	na	na	12.6
111	2008	214	245	68.58	88	na	na	na	12.6
111	2008	214	300	68.57	88.1	na	na	na	12.59
111	2008	214	315	68.43	88.4	na	na	na	12.59
111	2008	214	330	68.26	88.7	na	na	na	12.58
111	2008	214	345	68.02	89.1	na	na	na	12.58
111	2008	214	400	67.77	89.7	na	na	na	12.57
111	2008	214	415	67.73	90	na	na	na	12.57
111	2008	214	430	67.87	90.1	na	na	na	12.56
111	2008	214	445	67.73	90.1	na	na	na	12.56
111	2008	214	500	67.57	90.4	na	na	na	12.56
111	2008	214	515	67.57	90.4	na	na	na	12.55
111	2008	214	530	67.66	90.1	na	na	na	12.55
111	2008	214	545	67.42	90.4	na	na	na	12.55
111	2008	214	600	67.37	90.2	na	na	na	12.55
111	2008	214	615	67.52	90	na	na	na	12.55
111	2008	214	630	68.03	89.4	na	na	na	12.57
111	2008	214	645	69.35	84.6	0.978	105.4	16.83	13.33
111	2008	214	700	71.3	78.7	0.784	112.3	20.35	13.08
111	2008	214	715	71.9	76.7	1.015	147.5	21.13	13.08
111	2008	214	730	73.2	70.3	1.906	128.9	24.18	13.25
111	2008	214	745	75.3	68.72	1.902	127.3	26.03	13.15
111	2008	214	800	75.5	68.11	1.606	134.1	24	13.25
111	2008	214	815	76	67.2	0.503	128.9	13.83	13.27
111	2008	214	830	76.9	65.2	1.247	123.4	26.04	13.33
111	2008	214	845	77.9	64.86	2.503	127	29.3	13.31
111	2008	214	900	79.1	61.65	3.678	122.6	37.71	13.29
111	2008	214	915	79.7	57.63	4.645	140	29.78	13.28
111	2008	214	930	81	54.35	3.433	130.4	29.07	13.26
111	2008	214	945	81.3	53.48	4.254	122.2	39.44	13.25
111	2008	214	1000	81.7	52.61	3.573	154.5	40.76	13.23
111	2008	214	1015	82.6	52.14	4.22	144.5	45.96	13.22
111	2008	214	1030	83.3	50.53	3.583	125.6	45.6	13.21
111	2008	214	1045	83.6	46.69	3.789	120.6	41.29	13.21
111	2008	214	1100	84.5	40.47	3.542	133.7	49.24	13.19
111	2008	214	1115	84.5	42.47	4.253	108.8	46.81	13.19
111	2008	214	1130	84.4	45.64	3.98	103	33.5	13.19
111	2008	214	1145	84.1	43.54	3.476	106.2	66.79	13.18
111	2008	214	1200	84.9	42.2	3.866	122	52.13	13.18
111	2008	214	1215	85.4	40.19	2.926	113.7	60.8	13.17

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	214	1230	85.7	39.59	3.606	131.6	33.83	13.16
111	2008	214	1245	86.4	39.02	3.111	110.4	58.4	13.15
111	2008	214	1300	85.5	41.46	3.069	144.2	35.9	13.15
111	2008	214	1315	85.8	40.59	3.193	31.62	42.29	13.16
111	2008	214	1330	87.2	38.42	3.529	79.2	53.98	13.15
111	2008	214	1345	87	49.95	2.652	278.8	68.86	13.15
111	2008	214	1400	83.3	60.98	5.923	284	25.49	13.14
111	2008	214	1415	80.6	65.49	6.19	277	23.31	13.15
111	2008	214	1430	80	66.43	5.655	283.6	28.36	13.13
111	2008	214	1445	80.6	65.1	5.086	291.3	43.27	13.13
111	2008	214	1500	79.7	67.41	3.616	307	36.63	13
111	2008	214	1515	80	65.17	3.543	336.1	34.2	13.22
111	2008	214	1530	81.2	61.9	4.905	317.1	39.35	13.2
111	2008	214	1545	81.4	61.66	5.121	302.3	35.19	13.1
111	2008	214	1600	81.5	59.76	5.227	300.4	35.61	13.03
111	2008	214	1615	81.4	61.86	4.833	277.3	39.25	12.98
111	2008	214	1630	81.1	59.39	5.377	276.2	28.45	12.92
111	2008	214	1645	80.8	62.93	5.08	274.4	28.98	12.88
111	2008	214	1700	79.8	62.07	4.746	263.4	29.09	12.89
111	2008	214	1715	80.5	61.73	4.625	271.8	30.08	12.94
111	2008	214	1730	79.9	64.04	5.667	257	16.41	12.85
111	2008	214	1745	79.4	65.24	4.776	280.8	31.23	12.81
111	2008	214	1800	78.7	68.28	4.029	282.8	27.31	12.79
111	2008	214	1815	78.9	67.35	3.14	310.3	37.33	12.78
111	2008	214	1830	78.9	67.25	3.94	323.3	28.93	12.78
111	2008	214	1845	78.6	68.99	4.248	328.4	26.49	12.76
111	2008	214	1900	78.7	68.16	3.745	323.9	29.28	12.76
111	2008	214	1915	78.3	68.13	3.159	329.1	25.64	12.76
111	2008	214	1930	77.9	69.07	3.401	332.1	24.82	12.74
111	2008	214	1945	77.2	71.3	2.894	342.8	22.24	12.74
111	2008	214	2000	76.5	75.8	2.544	339.2	21.57	12.74
111	2008	214	2015	76	77.5	1.684	334.8	20.3	12.73
111	2008	214	2030	75.6	77.5	0.421	316.7	16.88	12.73
111	2008	214	2045	75.3	77	0.551	317.7	11.63	12.73
111	2008	214	2100	75	76.2	0.872	297.2	16.94	12.72
111	2008	214	2115	74.9	77.7	0.652	304.4	10.46	12.71
111	2008	214	2130	74.6	79.5	0.746	335.9	16.73	12.7
111	2008	214	2145	74.1	81.7	0.036	346.4	5.945	12.7
111	2008	214	2200	73.5	83.2	na	na	na	12.69
111	2008	214	2215	73	84.9	na	na	na	12.69
111	2008	214	2230	72.5	86.1	na	na	na	12.68
111	2008	214	2245	72.2	87.1	na	na	na	12.68
111	2008	214	2300	71.9	87.5	na	na	na	12.67
111	2008	214	2315	71.6	88.6	na	na	na	12.66
111	2008	214	2330	71.5	89.3	na	na	na	12.65
111	2008	214	2345	71.3	89.9	na	na	na	12.65
111	2008	214	2400	71.1	90	0.123	39.72	2.975	12.65
111	2008	215	15	70.6	90.6	0.319	34.67	7.83	12.64
111	2008	215	30	70.5	90.9	0.009	24.08	0.007	12.63
111	2008	215	45	70.5	90.9	0.02	33.62	0.416	12.63
111	2008	215	100	70.2	91.4	na	na	na	12.63
111	2008	215	115	69.97	91.4	na	na	na	12.63
111	2008	215	130	69.66	91.7	na	na	na	12.62
111	2008	215	145	69.45	91.6	na	na	na	12.61
111	2008	215	200	69.09	91.6	na	na	na	12.61
111	2008	215	215	68.74	91.4	na	na	na	12.6
111	2008	215	230	68.54	91.1	na	na	na	12.6
111	2008	215	245	68.31	91.3	na	na	na	12.59
111	2008	215	300	68.12	91.3	0.404	329.6	4.463	12.58
111	2008	215	315	67.81	91.5	na	na	na	12.58

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	215	330	67.79	91.3	na	na	na	12.57
111	2008	215	345	67.42	91.6	0.25	337.2	3.296	12.56
111	2008	215	400	67.18	91.6	0.216	26.17	2.343	12.56
111	2008	215	415	67.04	91.9	0.029	91.2	0.318	12.56
111	2008	215	430	66.95	91.8	na	na	na	12.55
111	2008	215	445	66.87	92	na	na	na	12.55
111	2008	215	500	66.92	91.9	0.393	149.2	3.508	12.55
111	2008	215	515	67.09	91.8	na	na	na	12.55
111	2008	215	530	67.1	91.9	0.27	5.656	10.14	12.55
111	2008	215	545	67.12	91.7	0.069	42.34	2.007	12.55
111	2008	215	600	67.17	91.8	na	na	na	12.55
111	2008	215	615	67.41	91.9	na	na	na	12.55
111	2008	215	630	67.81	91.9	na	na	na	12.56
111	2008	215	645	68.6	91.7	0.029	126.3	0.706	13.27
111	2008	215	700	70.2	90	0.228	25.38	12.39	13.38
111	2008	215	715	73	82.1	0.053	9.52	2.131	13.36
111	2008	215	730	74.7	77.8	0.246	340	5.931	13.19
111	2008	215	745	75.1	76.9	0.038	283.7	3.283	13.21
111	2008	215	800	76.4	75.7	1.452	274.9	30.56	13.3
111	2008	215	815	76.2	76	2.072	297.5	24.85	13.27
111	2008	215	830	76.2	74	2.185	261.1	28.34	13.28
111	2008	215	845	77	67	3.209	254.9	20.4	13.32
111	2008	215	900	77.8	65.33	3.859	263.6	17.3	13.3
111	2008	215	915	77.5	66.1	3.255	268.6	17.62	13.17
111	2008	215	930	77	67.8	2.83	274.7	23.29	12.95
111	2008	215	945	76.5	67.5	2.657	271	17.33	12.87
111	2008	215	1000	76.2	68.71	2.939	257.8	14.85	12.84
111	2008	215	1015	76.1	68.07	3.551	258.9	21.24	12.82
111	2008	215	1030	76.4	68.57	3.851	254	17.25	12.82
111	2008	215	1045	77	68.37	4.424	251.5	14.99	12.87
111	2008	215	1100	77.5	67.94	4.536	264.9	24.84	13.03
111	2008	215	1115	77.6	68.27	4.744	274.9	30.25	13.1
111	2008	215	1130	76.8	76.5	4.887	298.8	32.56	13.02
111	2008	215	1145	76.6	80	5.211	321.3	32.29	13.13
111	2008	215	1200	77.3	76.9	5.528	321.2	35.66	13.28
111	2008	215	1215	78.8	75.2	5.86	340.8	30	13.26
111	2008	215	1230	79.1	77.3	7.18	334.9	30.43	13.26
111	2008	215	1245	77.7	79.5	5.389	342.8	29.99	13.2
111	2008	215	1300	75.8	66.75	4.585	58.07	52.99	12.97
111	2008	215	1315	73.3	65.98	3.446	108	42.67	13.01
111	2008	215	1330	74.1	66.56	3.424	124.7	34.26	13.28
111	2008	215	1345	73.4	70.7	3.045	98.6	34.67	12.96
111	2008	215	1400	72.4	74.2	2.167	90.1	36.84	12.86
111	2008	215	1415	71.8	79.9	1.013	91.2	29.31	12.82
111	2008	215	1430	70.4	84.5	1.736	188.9	29.48	12.81
111	2008	215	1445	69.78	87.1	5.024	246.1	15.82	12.82
111	2008	215	1500	70.5	87.2	2.568	259.6	25.24	13.35
111	2008	215	1515	72.1	83.9	1.902	284.4	47.72	13.34
111	2008	215	1530	73.2	79.1	2.919	288.3	37.34	13.32
111	2008	215	1545	74.2	78	3.829	272.6	25.28	13.32
111	2008	215	1600	75	79.8	4.927	275.2	31.04	13.3
111	2008	215	1615	76.4	72.5	4.738	296.5	37.38	13.29
111	2008	215	1630	78.1	66.37	5.026	329.5	35.94	13.13
111	2008	215	1645	78.4	62.68	4.42	329.6	39.92	13.01
111	2008	215	1700	79.3	62.14	4.218	344.1	34.28	12.94
111	2008	215	1715	78.8	63.84	4.974	346.1	29.69	12.91
111	2008	215	1730	78.1	65.61	5.074	347.1	28.31	12.84
111	2008	215	1745	76.3	68.25	4.327	337	28.57	12.82
111	2008	215	1800	76.6	68.12	3.362	326.4	31.94	12.87
111	2008	215	1815	76.6	69.07	3.05	300.3	34.17	12.98

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	215	1830	76.3	69.31	2.525	318.5	28.42	12.97
111	2008	215	1845	76	71.4	2.679	306.9	34.9	12.86
111	2008	215	1900	75.5	72.6	2.793	320.5	29.77	12.79
111	2008	215	1915	74.9	73.8	3.027	325.6	25.75	12.76
111	2008	215	1930	74.1	76.5	2.26	309	26.53	12.76
111	2008	215	1945	73.5	78.3	1.36	326.8	27.27	12.74
111	2008	215	2000	72.9	80	0.22	20.57	27.35	12.73
111	2008	215	2015	72.2	81.8	0.2	121.1	36.27	12.72
111	2008	215	2030	72.1	82.9	1.021	86.9	29.28	12.72
111	2008	215	2045	71.3	84.6	2.819	98.2	48.5	12.71
111	2008	215	2100	70.8	84.9	2.39	92	37.44	12.71
111	2008	215	2115	70.8	85	1.771	110.3	37.71	12.71
111	2008	215	2130	70.6	85.6	0.093	143	9.34	12.71
111	2008	215	2145	70.6	86.1	0.102	21.85	3.769	12.69
111	2008	215	2200	70.6	86.2	na	na	na	12.69
111	2008	215	2215	70.3	87.1	0.56	32.48	8.25	12.68
111	2008	215	2230	69.75	88.1	0.568	6.497	17.58	12.67
111	2008	215	2245	69.32	88.9	0.329	16.19	4.78	12.67
111	2008	215	2300	69.05	89.5	na	na	na	12.67
111	2008	215	2315	68.85	90	0.013	62.99	0.007	12.65
111	2008	215	2330	68.7	90.5	1.672	73.3	24.52	12.65
111	2008	215	2345	68.73	90.7	1.635	65.34	27.16	12.64
111	2008	215	2400	68.79	90.9	1.756	78.1	30.25	12.63
111	2008	216	15	68.78	90.5	2.301	62.79	37.62	12.63
111	2008	216	30	68.11	89.5	2.371	61.48	37.6	12.63
111	2008	216	45	67.48	87.9	2.399	70.5	31.28	12.61
111	2008	216	100	66.98	84.1	2.973	69.64	38.75	12.61
111	2008	216	115	66.85	82.2	3.205	77.9	31.35	12.61
111	2008	216	130	66.57	82.5	2.213	75.2	38.38	12.6
111	2008	216	145	66.16	83.3	2.033	81.2	31.56	12.59
111	2008	216	200	65.66	84.6	1.247	46.91	23.02	12.59
111	2008	216	215	64.93	86.1	0.443	37	12.91	12.57
111	2008	216	230	64.36	87.3	0.269	40.49	11.5	12.57
111	2008	216	245	63.86	88.3	0.158	40.88	5.132	12.56
111	2008	216	300	63.38	89.4	0.688	66.3	14.35	12.55
111	2008	216	315	63.16	90.2	1.612	62.46	29.25	12.55
111	2008	216	330	63.28	90	1.824	69.64	34.27	12.54
111	2008	216	345	63.49	90	2.032	57.81	28.78	12.53
111	2008	216	400	63.55	89.7	2.26	69.94	37.97	12.53
111	2008	216	415	63.63	89.5	1.637	63.39	31.04	12.53
111	2008	216	430	63.42	89.7	1.891	59.26	32.72	12.51
111	2008	216	445	63.25	89.8	1.122	47.54	30.49	12.51
111	2008	216	500	63.03	90	0.086	58.51	10.4	12.52
111	2008	216	515	62.68	90.5	0.088	66.99	7.71	12.52
111	2008	216	530	62.36	90.8	0.125	36.54	2.928	12.51
111	2008	216	545	62.08	91.4	0.011	24.67	0.007	12.51
111	2008	216	600	62.07	91.7	na	na	na	12.5
111	2008	216	615	62.05	92	na	na	na	12.5
111	2008	216	630	62.45	92.8	1.058	89.1	22.45	12.51
111	2008	216	645	63.76	91.8	1.186	96.5	28.97	13.45
111	2008	216	700	65.09	89.9	1.9	84.7	42.47	13.43
111	2008	216	715	66.88	85	2.54	75.8	34.93	13.43
111	2008	216	730	67.67	82	3.177	84.4	37.62	13.41
111	2008	216	745	68.74	78.5	3.12	80.2	34.07	13.4
111	2008	216	800	69.94	71.4	2.991	79.2	41.53	13.38
111	2008	216	815	71.3	66.78	3.015	79.5	37.67	13.37
111	2008	216	830	71.4	67.24	4.035	88	35.92	13.35
111	2008	216	845	72.2	64.7	3.371	72.9	41.32	13.34
111	2008	216	900	73.2	61.55	2.762	78.4	37.03	13.32
111	2008	216	915	74	60.88	2.886	85.7	47.81	13.31

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	216	930	74.7	58.21	4.403	79.4	44.69	13.3
111	2008	216	945	74.6	58.04	4.095	96.1	40.95	13.29
111	2008	216	1000	74.9	56.19	3.638	106.2	38.52	13.28
111	2008	216	1015	76.2	55.42	4.25	46.58	32.54	13.26
111	2008	216	1030	77.1	51.71	3.163	89.1	51.05	13.26
111	2008	216	1045	77.6	52.37	4.051	73.4	41.91	13.24
111	2008	216	1100	77.8	53.34	4.055	58.72	38.43	13.24
111	2008	216	1115	78.3	53.28	4.325	60.55	44.08	13.24
111	2008	216	1130	78.9	51.94	3.938	57.21	49.29	13.22
111	2008	216	1145	78.8	51.91	3.632	65.05	50.84	13.22
111	2008	216	1200	79.4	51.91	3.12	74.7	58.24	13.21
111	2008	216	1215	79	49.7	4.069	89.1	36.59	13.21
111	2008	216	1230	78.9	52.77	3.503	61.19	38.38	13.21
111	2008	216	1245	78.7	49.83	4.301	77.6	43.04	13.22
111	2008	216	1300	79.8	48.66	4.16	93	42.81	13.2
111	2008	216	1315	79.4	47.69	5.107	61.27	40.18	13.21
111	2008	216	1330	80.5	48.93	4.996	55.92	46.68	13.2
111	2008	216	1345	80.8	46.22	4.403	59.86	45.48	13.19
111	2008	216	1400	81.9	44.75	5.397	49.54	30.58	13.19
111	2008	216	1415	82.6	41.61	5.258	66.96	40.42	13.18
111	2008	216	1430	81	43.98	5.342	71.9	39.17	13.18
111	2008	216	1445	80.4	46.35	6.505	47.97	30.07	13.19
111	2008	216	1500	82.2	44.08	6.096	61.94	36.65	13.19
111	2008	216	1515	81.1	43.51	6.392	59.31	31.98	13.14
111	2008	216	1530	82.3	44.01	4.593	69.99	36.89	12.95
111	2008	216	1545	82.1	42.57	6.025	53.36	35.83	12.92
111	2008	216	1600	81.6	42.8	5.526	73.7	34.6	12.9
111	2008	216	1615	82	43.17	5.538	61.21	36.52	12.88
111	2008	216	1630	82.3	43.44	5.725	77.7	32.89	12.88
111	2008	216	1645	82	41.61	5.405	62.78	36.14	12.86
111	2008	216	1700	82.6	42.07	4.756	52.51	38.2	12.84
111	2008	216	1715	82.6	43.31	5.566	42.52	36.85	12.83
111	2008	216	1730	82.4	44.08	4.889	56.53	34.99	12.82
111	2008	216	1745	81.3	44.95	4.909	60.98	30.77	12.84
111	2008	216	1800	80.1	46.62	4.933	42.45	29.36	12.81
111	2008	216	1815	81	45.32	5.721	49.36	29.78	12.79
111	2008	216	1830	80.8	46.56	5.554	63.08	35.75	12.77
111	2008	216	1845	80.3	47.06	4.462	74.5	34.87	12.78
111	2008	216	1900	79.8	47.83	3.876	70.6	39.63	12.77
111	2008	216	1915	79.7	49.27	3.191	47.28	31.03	12.76
111	2008	216	1930	78.1	52.85	2.898	65.24	39.47	12.76
111	2008	216	1945	76.6	55.83	1.803	49.61	24.59	12.75
111	2008	216	2000	75.5	57.74	1.381	51.77	26.44	12.74
111	2008	216	2015	74.7	60.28	0.952	35.57	19.01	12.74
111	2008	216	2030	74.1	61.42	1.028	35.13	15.24	12.72
111	2008	216	2045	73.6	62.25	0.658	36.22	15.3	12.71
111	2008	216	2100	73.2	63.46	0.489	27.88	12.58	12.71
111	2008	216	2115	72.8	64.37	0.277	27.67	10.47	12.7
111	2008	216	2130	72.4	65.31	1.861	39.47	18.69	12.69
111	2008	216	2145	72.4	63.31	1.836	61.17	38.11	12.68
111	2008	216	2200	73	61.7	2.086	46.89	26.67	12.68
111	2008	216	2215	73.2	61.77	2.109	46.7	30.79	12.67
111	2008	216	2230	73.3	61	2.542	37.6	31.34	12.67
111	2008	216	2245	73.1	62.47	1.509	36.38	31.53	12.66
111	2008	216	2300	72.6	64.28	1.741	49.99	27.26	12.66
111	2008	216	2315	71.9	65.82	1.396	54.39	25.16	12.65
111	2008	216	2330	71.4	66.86	1.411	42.9	21.43	12.65
111	2008	216	2345	71.2	67.96	1.725	50.3	31.23	12.64
111	2008	216	2400	70.7	69.9	0.966	48.68	27.32	12.63
111	2008	217	15	70.1	71.6	1.443	40.49	22.19	12.63

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	217	30	69.68	72.6	1.063	58.36	26.03	12.62
111	2008	217	45	69.35	73.9	0.798	51.05	19.29	12.61
111	2008	217	100	68.9	75.5	0.529	56.03	23.89	12.61
111	2008	217	115	68.38	77.4	0.256	54.38	13.42	12.6
111	2008	217	130	67.73	78.8	0.994	38.89	11.41	12.6
111	2008	217	145	67.53	79.3	0.961	37.69	12.66	12.59
111	2008	217	200	67.32	79.9	1.874	39.96	15.97	12.59
111	2008	217	215	67.16	80.3	1.418	45.45	21.68	12.58
111	2008	217	230	66.84	81.1	1.686	44.7	22.67	12.57
111	2008	217	245	66.43	82.1	1.025	42.69	14.72	12.56
111	2008	217	300	66	83.1	1.143	53.21	22.65	12.56
111	2008	217	315	65.8	83.5	1.029	43.38	15.83	12.55
111	2008	217	330	65.55	83.5	1.525	34.01	16.94	12.55
111	2008	217	345	65.53	82.9	2.106	28.97	21.86	12.55
111	2008	217	400	65.43	83	1.422	37.7	21.37	12.53
111	2008	217	415	65.33	83	2.157	21.21	18.12	12.53
111	2008	217	430	65.11	83.6	2.363	27.31	12.44	12.52
111	2008	217	445	64.75	84.1	2.463	35.96	16.67	12.53
111	2008	217	500	64.68	83.5	2.806	39.03	22.14	12.52
111	2008	217	515	64.61	83.2	2.301	41.53	20.25	12.52
111	2008	217	530	64.4	83.5	1.761	54.97	24.01	12.52
111	2008	217	545	64.28	83.3	2.415	33.52	19.1	12.51
111	2008	217	600	64.32	82.7	2.669	42.57	21.21	12.51
111	2008	217	615	64.62	81.6	2.566	58.86	31.24	12.51
111	2008	217	630	65.27	79.1	3.038	46.86	28.04	12.51
111	2008	217	645	66.58	75.9	2.734	52.08	28.76	13.43
111	2008	217	700	67.93	73.2	2.689	62.52	39.99	13.41
111	2008	217	715	69.14	70.9	2.979	48.47	30.64	13.4
111	2008	217	730	70.3	68.7	2.755	52.69	28.94	13.38
111	2008	217	745	71.8	66.12	2.51	52.9	34.02	13.36
111	2008	217	800	72.4	64.2	2.969	60.02	34.14	13.35
111	2008	217	815	73.4	63.12	3.127	59.22	31.85	13.33
111	2008	217	830	74.5	60.65	3.211	51.59	37.17	13.32
111	2008	217	845	75.2	59.88	3.86	49.02	31.18	13.3
111	2008	217	900	76.4	55.73	3.239	57.29	37.51	13.29
111	2008	217	915	77.5	55.06	3.017	50.96	48.29	13.27
111	2008	217	930	78.2	53.88	3.676	67.75	37.53	13.26
111	2008	217	945	78.7	53.01	3.222	63.34	44.66	13.26
111	2008	217	1000	79	52.84	3.477	82.6	48.67	13.24
111	2008	217	1015	79.6	50.13	3.053	68.24	39.6	13.24
111	2008	217	1030	79.6	50.84	4.607	45.88	36.36	13.22
111	2008	217	1045	79.9	48.53	4.482	73.2	36.57	13.22
111	2008	217	1100	81	45.35	4.127	59.07	35.22	13.2
111	2008	217	1115	80.1	48.83	3.902	94.3	46.48	13.2
111	2008	217	1130	80.1	47.26	3.1	52.87	46.22	13.21
111	2008	217	1145	80.5	49.16	4.321	71.3	37.4	13.21
111	2008	217	1200	81.9	44.75	4.756	58.56	33.38	13.19
111	2008	217	1215	82.2	46.72	5.213	55.26	41.86	13.19
111	2008	217	1230	81.5	43.47	4.796	58.5	37.97	13.19
111	2008	217	1245	81.3	45.17	4.444	53.17	45.16	13.18
111	2008	217	1300	82	45.48	4.881	58.79	36.4	13.19
111	2008	217	1315	82.4	46.58	5.51	50.52	36.41	13.18
111	2008	217	1330	81.9	46.81	4.047	62.18	36.7	13.18
111	2008	217	1345	80.8	47.78	4.208	77.9	33.54	13.19
111	2008	217	1400	81.8	47.65	4.412	72.7	43.95	13.11
111	2008	217	1415	81.1	46.85	4.653	49.95	37.06	13.19
111	2008	217	1430	80.4	50.47	5.209	45.82	29.85	13.2
111	2008	217	1445	80.6	46.66	4.357	62.2	29.36	13.21
111	2008	217	1500	81.6	44.35	5.501	34.47	33.81	13.2
111	2008	217	1515	82.3	45.69	5.042	53.76	37.06	13.2

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	217	1530	81.3	46.76	3.944	49.54	31.69	13.2
111	2008	217	1545	81.7	46.22	3.843	64.89	41.83	13.06
111	2008	217	1600	82	45.85	5.09	73	37.01	12.95
111	2008	217	1615	83	43.55	4.788	70.4	39.51	12.89
111	2008	217	1630	84	43.45	4.418	74.7	35.14	12.86
111	2008	217	1645	85	43.01	4.635	61.92	39.2	12.84
111	2008	217	1700	85.3	42.41	4.26	48.48	39.39	12.84
111	2008	217	1715	84.6	40.73	4.343	61.52	40	12.82
111	2008	217	1730	84.9	40.93	4.347	58.02	32.73	12.82
111	2008	217	1745	84.8	40.17	3.795	54.22	34.35	12.81
111	2008	217	1800	83.8	42.34	4.72	68.38	33.15	12.8
111	2008	217	1815	83.3	41.81	4.264	43.13	35.1	12.79
111	2008	217	1830	83.4	42.18	4.127	54.19	34.52	12.78
111	2008	217	1845	83.1	43.01	3.908	55.73	31.52	12.78
111	2008	217	1900	82.8	44.82	3.495	51.58	33.29	12.78
111	2008	217	1915	81.4	47.83	2.284	54.5	40.42	12.76
111	2008	217	1930	79.7	50.13	2.114	61.24	33.95	12.76
111	2008	217	1945	78.3	53.28	1.245	51.09	23.66	12.76
111	2008	217	2000	77.2	55.13	0.968	39.61	19.26	12.74
111	2008	217	2015	76.5	57.04	0.482	36.51	11.87	12.73
111	2008	217	2030	75.7	60.01	na	na	na	12.72
111	2008	217	2045	74.7	63.49	na	na	na	12.72
111	2008	217	2100	73.9	64.23	0.456	28.74	8.29	12.71
111	2008	217	2115	73.4	65.4	0.206	32.01	4.485	12.7
111	2008	217	2130	73.1	65.47	0.257	34.69	6.011	12.68
111	2008	217	2145	73	65.41	0.875	30.98	12.39	12.68
111	2008	217	2200	72.9	64.74	0.846	33.21	10.88	12.67
111	2008	217	2215	72.8	65.38	0.876	32.66	15.19	12.66
111	2008	217	2230	72.4	65.82	0.358	34.5	10.07	12.66
111	2008	217	2245	72.2	66.76	0.375	26.68	6.744	12.66
111	2008	217	2300	72	65.65	0.212	59.07	14.14	12.65
111	2008	217	2315	72	66.96	0.457	45.54	17.21	12.64
111	2008	217	2330	71.4	67.83	0.585	27.78	11.99	12.63
111	2008	217	2345	71.2	67.86	0.172	78.6	4.764	12.63
111	2008	217	2400	71.1	68.73	0.524	29.12	9.27	12.63
111	2008	218	15	70.7	69.9	0.087	55.5	8.03	12.63
111	2008	218	30	70.3	71.3	na	na	na	12.62
111	2008	218	45	70.2	71.6	na	na	na	12.62
111	2008	218	100	70.3	71.8	na	na	na	12.61
111	2008	218	115	70.2	72.8	0.018	75.4	4.49	12.61
111	2008	218	130	70.3	71.7	0.06	40.62	7.99	12.6
111	2008	218	145	70.5	72	0.276	48.86	12.92	12.6
111	2008	218	200	70	72.8	0.068	35.68	6.101	12.6
111	2008	218	215	69.66	74.9	0.069	26.9	2.606	12.59
111	2008	218	230	69.02	75.8	na	na	na	12.59
111	2008	218	245	68.56	78	0.49	30.21	4.977	12.57
111	2008	218	300	67.86	79.4	0.498	33.46	6.602	12.57
111	2008	218	315	67.55	80.1	0.024	29.19	2.261	12.57
111	2008	218	330	67.75	78.3	0.287	71.9	14.16	12.56
111	2008	218	345	68.37	76.5	0.254	43.47	10.15	12.56
111	2008	218	400	68.4	76.5	0.074	39.6	4.105	12.55
111	2008	218	415	67.96	77.6	0.198	80	2.827	12.55
111	2008	218	430	67.41	79.7	0.847	24.18	6.474	12.55
111	2008	218	445	66.85	81.2	0.095	20.29	3.14	12.53
111	2008	218	500	66.33	82.6	0.088	36.89	0.776	12.53
111	2008	218	515	65.85	83.6	0.401	33.14	5.591	12.53
111	2008	218	530	65.63	84	0.456	54.1	16.13	12.53
111	2008	218	545	65.88	83.5	0.2	59.06	8.26	12.51
111	2008	218	600	65.75	84.1	0.036	31.28	3.657	12.52
111	2008	218	615	65.86	84	0.262	44.69	14.06	12.52

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	218	630	66.58	82.6	1.35	28.47	11.74	12.52
111	2008	218	645	68.21	79	0.734	49.14	32.45	13.41
111	2008	218	700	70.1	73.9	1.702	42.55	26.33	13.4
111	2008	218	715	71.8	70.1	0.902	75.7	28.18	13.37
111	2008	218	730	72.9	67.22	2.009	92	33.76	13.35
111	2008	218	745	74	65.64	2.523	107.1	29.99	13.35
111	2008	218	800	74.5	64.33	2.983	108.3	38.43	13.32
111	2008	218	815	75.3	64.06	3.299	128.2	34.87	13.31
111	2008	218	830	75.4	63.29	3.69	152.7	38.26	13.3
111	2008	218	845	76	62.42	3.479	149.8	50.76	13.29
111	2008	218	900	76.5	62.65	3.113	190.5	39.23	13.28
111	2008	218	915	76.6	63.47	2.74	207.8	54.35	13.28
111	2008	218	930	77.4	59.49	3.19	137.7	50.51	13.26
111	2008	218	945	77.2	60.56	3.095	197.3	55.01	13.26
111	2008	218	1000	77.5	59.76	2.77	223.1	52.97	13.25
111	2008	218	1015	78.1	62.37	3.581	191.2	34.67	13.24
111	2008	218	1030	77.4	64.3	4.631	264.3	40.71	13.24
111	2008	218	1045	76.4	66.84	6.543	256.2	30.71	13.23
111	2008	218	1100	76.3	65.37	6.92	242.5	18.1	13.23
111	2008	218	1115	76.6	64.64	5.667	250.9	31.48	13.24
111	2008	218	1130	76.9	63.8	6.398	230.1	25.56	13.24
111	2008	218	1145	76.7	64.07	6.299	239.6	25.53	13.23
111	2008	218	1200	76.2	67.91	6.964	242.2	20.36	13.24
111	2008	218	1215	75.1	67.65	6.958	249.5	19.82	13.24
111	2008	218	1230	75.7	65.75	6.057	279.6	32.47	13.24
111	2008	218	1245	76.1	67.05	7.27	265.5	27.4	13.24
111	2008	218	1300	75.9	68.25	7.61	262.7	27.2	13.24
111	2008	218	1315	76.3	65.61	6.297	319.3	56.03	13.22
111	2008	218	1330	76.5	67.78	6.825	325.6	25.66	13.22
111	2008	218	1345	75.8	68.72	7.01	333.1	25.38	13.22
111	2008	218	1400	75.8	69.02	6.569	336.1	25.74	13.24
111	2008	218	1415	76.1	67.29	7.42	323	24.02	13.24
111	2008	218	1430	76.1	69.96	7.6	320.1	25.8	13.24
111	2008	218	1445	75.9	69.89	6.751	322.7	26.7	13.23
111	2008	218	1500	75.8	69.46	6.519	335.1	23.12	13.04
111	2008	218	1515	76.4	68.95	6.757	334.9	27.29	13.24
111	2008	218	1530	76.3	66.75	6.384	322.8	29.91	13.16
111	2008	218	1545	76	68.22	7.05	330.2	24.87	13.1
111	2008	218	1600	76.2	70.1	6.593	325.5	28.12	13.08
111	2008	218	1615	76.3	70.9	6.732	316.6	32.13	13.07
111	2008	218	1630	75.6	69.36	6.477	319	25.25	13.05
111	2008	218	1645	76	68.8	6.93	329.6	26.65	13.01
111	2008	218	1700	75.4	71.4	6.531	317.1	26.69	12.99
111	2008	218	1715	75.2	74.6	6.489	313.5	22.55	12.97
111	2008	218	1730	75.6	72.1	6.116	324.6	29.63	12.88
111	2008	218	1745	74.8	74.7	6.555	342.3	22.36	12.85
111	2008	218	1800	74.4	73.6	6.972	314.2	23.08	12.85
111	2008	218	1815	74.5	74.8	6.614	323.9	23.74	12.82
111	2008	218	1830	74.3	77.1	6.706	327.9	24.93	12.78
111	2008	218	1845	73.9	77.3	6.237	330.1	23.75	12.76
111	2008	218	1900	73.8	76.7	5.679	335.5	27.61	12.73
111	2008	218	1915	73.3	78.2	5.485	324.7	21.63	12.72
111	2008	218	1930	72.9	79.4	5.828	325.3	23.82	12.72
111	2008	218	1945	72.8	79.2	5.292	321	20.52	12.71
111	2008	218	2000	72.7	79.2	5.83	322.2	23.62	12.71
111	2008	218	2015	72.7	78.1	5.697	317.7	19.75	12.7
111	2008	218	2030	72.8	80.1	5.487	328.4	24.13	12.7
111	2008	218	2045	72.9	80.5	4.827	320.8	21.17	12.7
111	2008	218	2100	72.8	81	5.356	323.9	19.02	12.69
111	2008	218	2115	72.8	80.1	6.098	323.6	20.92	12.69

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	218	2130	72.8	80.3	6.09	323.6	18.17	12.69
111	2008	218	2145	72.8	80	5.977	323.8	21.12	12.69
111	2008	218	2200	72.9	80.3	5.501	327.4	23.18	12.69
111	2008	218	2215	72.9	80.4	5.497	320.6	18.99	12.68
111	2008	218	2230	72.9	80.7	5.169	329.8	22.26	12.68
111	2008	218	2245	73	80	5.832	330.6	22.38	12.67
111	2008	218	2300	73.1	78.9	5.711	320.6	18.98	12.67
111	2008	218	2315	73.3	79.5	5.391	324.1	22.15	12.67
111	2008	218	2330	73.4	79.5	5.373	327	24.22	12.67
111	2008	218	2345	73.4	79.3	6.021	324.4	21.14	12.67
111	2008	218	2400	73.5	79.5	6.261	319	19.92	12.66
111	2008	219	15	73.6	79	6.41	322.4	20.69	12.65
111	2008	219	30	73.7	79.3	6.092	321.8	19.55	12.65
111	2008	219	45	73.7	80.2	6.154	326.4	17.21	12.65
111	2008	219	100	73.6	81.7	5.707	323.6	26.73	12.65
111	2008	219	115	73.6	83.5	5.411	326.6	23.6	12.64
111	2008	219	130	73.5	84.8	5.121	323.9	22.48	12.64
111	2008	219	145	73.5	85.1	5.564	337.2	24.74	12.64
111	2008	219	200	73.4	87.4	4.496	347.4	23.62	12.63
111	2008	219	215	72.9	88.4	3.422	354.1	18	12.63
111	2008	219	230	72.6	89	3.598	336.3	29.48	12.62
111	2008	219	245	72.5	89.7	3.12	342.6	23.36	12.62
111	2008	219	300	72.4	89.1	3.91	357.7	21.39	12.61
111	2008	219	315	72.5	89.7	3.144	359.3	25.59	12.61
111	2008	219	330	72.4	90.4	3.588	351.6	27.09	12.61
111	2008	219	345	72.4	90.7	3.718	347	22.22	12.6
111	2008	219	400	72.2	90.8	5.024	0.633	23.26	12.6
111	2008	219	415	72.1	91	4.873	350.8	26.1	12.59
111	2008	219	430	72	91.4	4.694	356.7	20.97	12.59
111	2008	219	445	71.9	90.8	4.069	351	25.55	12.59
111	2008	219	500	71.7	89.5	4.688	344.1	28.69	12.57
111	2008	219	515	71.7	89.4	4.951	347.3	22.11	12.57
111	2008	219	530	71.9	89.9	3.946	358.1	25.56	12.56
111	2008	219	545	71.8	90.3	3.843	359.3	20.9	12.56
111	2008	219	600	72	90.2	3.336	348.1	27.89	12.56
111	2008	219	615	72	89.5	4.025	349.5	22.5	12.56
111	2008	219	630	72.1	89.3	5.624	351.2	24.57	12.55
111	2008	219	645	72.2	88.7	6.076	352.2	25.44	12.55
111	2008	219	700	72.4	89	6.34	350.3	27.64	12.54
111	2008	219	715	72.1	89.8	6.07	351.8	22.69	12.54
111	2008	219	730	71.6	92.4	4.222	20.88	43.22	12.54
111	2008	219	745	70.8	94.4	4.24	341.4	42.29	12.53
111	2008	219	800	71	94.7	3.396	352.5	46.24	12.53
111	2008	219	815	71.2	95	5	41.64	44.05	12.53
111	2008	219	830	71	95.2	3.938	55.03	45.92	12.53
111	2008	219	845	71	95.4	2.911	62.48	35.83	12.53
111	2008	219	900	71.4	95.5	2.931	47.69	28.58	12.57
111	2008	219	915	71.6	95.5	2.225	38.21	24.47	12.55
111	2008	219	930	72.1	95.5	3.318	30.38	24.83	12.63
111	2008	219	945	72.5	95.5	4.653	33.45	23.83	12.87
111	2008	219	1000	73.7	95.4	4.827	32.44	26.56	13.27
111	2008	219	1015	75	94.2	4.131	45.37	27.91	13.23
111	2008	219	1030	74.8	94.4	3.908	38.55	35.41	13.23
111	2008	219	1045	76.7	92.1	3.076	47.13	36.5	13.23
111	2008	219	1100	78	88	2.981	56.29	29.76	13.16
111	2008	219	1115	76.8	87.7	2.969	83.7	37.34	12.95
111	2008	219	1130	74.7	90.9	2.207	64.59	27.61	12.95
111	2008	219	1145	75.3	90.8	2.508	96	37.34	13.23
111	2008	219	1200	77	86.3	1.793	93.9	41.11	13.22
111	2008	219	1215	77.7	80.1	3.197	133.2	50.74	13.1

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	219	1230	79.8	72.3	4.152	104.5	41.28	13.2
111	2008	219	1245	81.3	67.95	3.283	111	46.45	13.19
111	2008	219	1300	82.5	63.7	2.979	133	46.63	13.18
111	2008	219	1315	83.5	61.87	4.359	114.2	40.62	13.17
111	2008	219	1330	83.2	61.46	5.235	113.9	29.94	13.12
111	2008	219	1345	81.7	61.09	4.724	123.2	42.14	13.09
111	2008	219	1400	83.9	58.79	4.315	116.8	38.68	13.17
111	2008	219	1415	84	56.35	5.661	135.6	48.5	13.13
111	2008	219	1430	84.6	55.14	6.068	116.7	28.55	13.16
111	2008	219	1445	85.5	50.83	5.344	114.9	51.56	13.12
111	2008	219	1500	86	52.86	4.871	126.4	50.73	13.1
111	2008	219	1515	86.5	49.15	5.588	118.4	46.04	13.07
111	2008	219	1530	86.2	49.58	5.846	122	47.97	13.06
111	2008	219	1545	86.6	47.51	4.47	116.9	49.74	13.04
111	2008	219	1600	87.4	48.21	4.917	128.9	52.16	13.02
111	2008	219	1615	86.6	46.94	5.566	125.7	39.1	13.02
111	2008	219	1630	86.9	43.77	5.602	119.5	41	13
111	2008	219	1645	87.2	43.4	5.413	112.7	43.89	12.98
111	2008	219	1700	87	46.28	5.721	109.7	32.75	12.96
111	2008	219	1715	87.3	44.64	4.951	118.9	48.1	12.94
111	2008	219	1730	87.2	43.85	4.994	110	43.03	12.9
111	2008	219	1745	87.4	43.11	5.07	107.3	36.51	12.88
111	2008	219	1800	86.6	43.35	5.165	109.7	36.8	12.86
111	2008	219	1815	86.3	43.22	4.833	118.1	39.12	12.81
111	2008	219	1830	85.7	44.32	4.919	115	41.55	12.78
111	2008	219	1845	84.1	46.22	4.035	116.4	39.99	12.77
111	2008	219	1900	83.9	46.69	3.751	113.6	31.82	12.77
111	2008	219	1915	83.8	50.47	2.558	121.5	51.71	12.76
111	2008	219	1930	81.9	56.92	2.636	128.1	48.42	12.75
111	2008	219	1945	80.3	62.77	2.349	192.2	40.6	12.74
111	2008	219	2000	78.8	70.3	2.089	217.7	40.28	12.73
111	2008	219	2015	77	74	2.405	244.2	27.66	12.72
111	2008	219	2030	75.7	76.4	2.143	222.9	28.73	12.72
111	2008	219	2045	74.9	77.2	1.899	234.2	26.16	12.72
111	2008	219	2100	74.5	78.3	0.948	236.2	22.07	12.7
111	2008	219	2115	73.9	78	1.498	237.8	27.56	12.7
111	2008	219	2130	73.3	79.3	1.34	188.4	25.36	12.69
111	2008	219	2145	72.9	80.3	0.091	173.4	10.01	12.68
111	2008	219	2200	72.2	82.5	0.236	37.65	24.09	12.67
111	2008	219	2215	71.7	84.1	0.216	109.9	6.796	12.66
111	2008	219	2230	71.5	84.5	0.048	105.8	1.228	12.66
111	2008	219	2245	71.1	85.9	0.146	115.6	4.07	12.65
111	2008	219	2300	70.7	86.7	0.103	163.1	26.12	12.65
111	2008	219	2315	70.7	86.4	0.018	262.9	5.844	12.64
111	2008	219	2330	70.7	86.3	0.414	117.1	18.96	12.63
111	2008	219	2345	70.1	86.9	0.514	200.4	13.47	12.62
111	2008	219	2400	69.85	87.3	0.224	221.6	11.75	12.62
111	2008	220	15	69.57	88	0.23	170.2	22.21	12.61
111	2008	220	30	69.17	88.7	0.605	170.1	35.33	12.61
111	2008	220	45	69.04	88.9	0.153	235	13.95	12.6
111	2008	220	100	68.73	89.4	0.502	200.3	12.21	12.59
111	2008	220	115	68.43	90.2	0.909	212.9	14.29	12.59
111	2008	220	130	68.36	90.7	1	235.8	18.19	12.59
111	2008	220	145	68.37	91.1	3.173	235.2	27.84	12.57
111	2008	220	200	67.98	91.8	2.295	235.5	37.28	12.57
111	2008	220	215	67.86	92.2	1.294	207.5	29.94	12.57
111	2008	220	230	67.82	92.2	1.748	249.2	33.98	12.57
111	2008	220	245	67.53	92.6	1.798	212.3	40.19	12.56
111	2008	220	300	67.37	92.7	2.179	252	27.68	12.56
111	2008	220	315	67.34	92.7	1.211	254.1	37.78	12.55

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	220	330	67.27	92.8	0.732	122.4	16.87	12.55
111	2008	220	345	67.29	93	0.466	315.9	10.94	12.55
111	2008	220	400	67.39	93	1.341	245.6	22.79	12.55
111	2008	220	415	67.42	92.8	0.88	239.9	18.8	12.54
111	2008	220	430	67.33	92.6	1.219	189.7	43.98	12.53
111	2008	220	445	67.23	92.6	0.406	121.7	26.64	12.53
111	2008	220	500	67.13	92.9	0.692	149.3	42.27	12.53
111	2008	220	515	67.2	93	0.545	122.4	50.42	12.52
111	2008	220	530	67.1	93.2	0.415	17.91	22.38	12.52
111	2008	220	545	67.06	93.6	0.793	327.8	31.49	12.52
111	2008	220	600	67.15	93.6	0.693	111.1	14.11	12.51
111	2008	220	615	67.18	93.8	1.213	110.5	22.21	12.52
111	2008	220	630	67.3	94	0.935	108.4	26.96	12.51
111	2008	220	645	67.39	94	0.898	116.4	21.43	12.51
111	2008	220	700	67.45	94	0.536	14.38	56.7	12.52
111	2008	220	715	67.98	93.8	1.666	38.44	56.33	12.51
111	2008	220	730	68.94	93.2	1.608	77.8	48.36	12.6
111	2008	220	745	69.94	91.6	2.877	63.22	26.65	12.83
111	2008	220	800	70.8	88.1	2.722	17.28	36.78	12.77
111	2008	220	815	71.7	83	2.8	14.36	37.31	12.89
111	2008	220	830	72	81.4	3.878	8.13	28.64	13.1
111	2008	220	845	73	77.8	3.988	16.94	25.69	13.3
111	2008	220	900	72.4	78.7	4.24	1.767	31.25	13.24
111	2008	220	915	72.4	73.9	3.602	337.4	24.95	13.23
111	2008	220	930	74.7	69.78	3.644	4.046	27.1	13.29
111	2008	220	945	73.7	71.8	3.15	353.7	45.07	13.28
111	2008	220	1000	73.8	70.2	4.361	334.1	31.19	13.27
111	2008	220	1015	75.1	72.4	4.393	342	28.57	13.26
111	2008	220	1030	75.1	71.8	4.299	340.6	28.4	13.25
111	2008	220	1045	75.8	69.96	4.637	349.1	29.16	13.24
111	2008	220	1100	76.2	69.89	5.677	349.7	30.85	13.24
111	2008	220	1115	76.3	71.2	5.201	348.6	35.16	13.22
111	2008	220	1130	76.1	72.7	6.354	356.9	26.97	13.22
111	2008	220	1145	75.7	69.02	7.15	353.6	25.58	13.22
111	2008	220	1200	75.9	68.75	6.06	348.7	29.86	13.21
111	2008	220	1215	76.1	73.4	6.694	339.6	26.39	13.21
111	2008	220	1230	76.3	71.2	7.43	342.8	31.8	13.2
111	2008	220	1245	78.2	63.37	8.04	351.1	20.87	13.2
111	2008	220	1300	78.9	65.21	7.95	345.7	28.69	13.2
111	2008	220	1315	78.7	67.88	7.41	333.9	30.24	13.18
111	2008	220	1330	76.6	73.2	8.03	324	23.52	13.19
111	2008	220	1345	76.8	73.3	6.4	329.2	21.47	13.2
111	2008	220	1400	76.5	69.42	7.68	332.6	24.76	13.2
111	2008	220	1415	77.5	68.55	7.62	342.2	28.54	13.2
111	2008	220	1430	78.4	69.39	5.953	335.9	26.42	13.2
111	2008	220	1445	78.9	66.24	5.479	344.4	33.3	13.2
111	2008	220	1500	77.3	72	4.861	322.8	34.09	13.21
111	2008	220	1515	75.4	75	5.26	297.5	37.42	13
111	2008	220	1530	75.1	73.9	2.771	332.2	66.15	12.88
111	2008	220	1545	76.6	69.2	5.318	317.5	28.59	12.92
111	2008	220	1600	77.2	68.22	6.412	327.8	32.7	13.24
111	2008	220	1615	77.6	66.76	5.852	333.8	29.38	13.1
111	2008	220	1630	77.7	64.61	5.558	329.8	29.76	13.08
111	2008	220	1645	77.9	67.96	5.594	333.2	30.46	13.14
111	2008	220	1700	78.3	67.49	5.356	337.1	33.57	13.14
111	2008	220	1715	78	70.5	7.05	348.5	27.37	13.1
111	2008	220	1730	77.5	72.9	6.247	344.9	28.57	13.12
111	2008	220	1745	77.6	74.5	7.28	356.6	27.43	13.1
111	2008	220	1800	77	74.7	7.41	2.881	24.53	13.01
111	2008	220	1815	76.8	76.2	6.702	4.563	27.03	12.92

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	220	1830	76.3	74.4	6.708	355.5	35.06	12.82
111	2008	220	1845	75.7	74.6	5.943	1.549	26.01	12.78
111	2008	220	1900	75.2	78.8	5.308	3.786	25.65	12.77
111	2008	220	1915	74.6	80.8	5.651	5.253	25.44	12.74
111	2008	220	1930	74.4	80.3	4.301	5.503	26.65	12.74
111	2008	220	1945	74.3	80.3	4.722	0.504	21.95	12.73
111	2008	220	2000	74.2	80.8	4.248	17.33	25.57	12.73
111	2008	220	2015	73.9	80.7	4.694	26.96	28.11	12.72
111	2008	220	2030	73.9	81.6	2.643	44.19	51.57	12.72
111	2008	220	2045	73.9	82.2	2.212	83.7	53.34	12.71
111	2008	220	2100	73.9	82.6	1.586	69.94	46.76	12.71
111	2008	220	2115	73.7	81.1	2.267	113.9	35.09	12.71
111	2008	220	2130	72.9	78.5	3.73	169.2	43.42	12.71
111	2008	220	2145	70.2	80.5	3.785	190.9	33.47	12.71
111	2008	220	2200	69.23	80.9	3.142	213	28.42	12.7
111	2008	220	2215	68.83	81.2	1.559	210	37.66	12.69
111	2008	220	2230	68.51	81.6	1.774	215.6	25.95	12.68
111	2008	220	2245	68.17	81.4	1.648	228.3	27.31	12.68
111	2008	220	2300	67.88	80.3	1.575	243.5	16.3	12.68
111	2008	220	2315	67.85	79.7	1.272	241.4	17.61	12.67
111	2008	220	2330	67.69	80.4	2.163	207.6	36.81	12.67
111	2008	220	2345	67.4	81.5	2.144	154.9	42.99	12.65
111	2008	220	2400	67.33	79.5	3.767	179.6	31.15	12.65
111	2008	221	15	67.38	83.9	4.079	171.4	32.97	12.65
111	2008	221	30	66.57	88.4	2.582	212.2	37.58	12.65
111	2008	221	45	66.07	89.9	2.443	205.9	37.25	12.64
111	2008	221	100	65.98	90.5	1.882	192.7	37.79	12.63
111	2008	221	115	65.92	90.7	1.224	192	27.55	12.63
111	2008	221	130	65.61	91.1	1.393	213.1	31.25	12.63
111	2008	221	145	65.39	91.6	1.298	187.1	27.08	12.63
111	2008	221	200	65.06	91.7	1.619	183.2	32.37	12.62
111	2008	221	215	64.8	92	0.754	196.9	22.71	12.61
111	2008	221	230	64.7	92.2	0.473	219.2	22.2	12.6
111	2008	221	245	64.45	92.4	0.16	182.6	15.51	12.6
111	2008	221	300	64.16	92.7	0.138	23.59	2.752	12.6
111	2008	221	315	64.04	92.7	0.452	80.7	29.35	12.59
111	2008	221	330	63.65	92.9	0.199	134.6	13.8	12.59
111	2008	221	345	63.43	93.3	0.161	121.3	20.02	12.58
111	2008	221	400	63.5	93.4	0.74	119.5	32.1	12.57
111	2008	221	415	63.32	93.4	0.213	115.6	20.42	12.57
111	2008	221	430	63.15	93.5	1.207	125	36.11	12.57
111	2008	221	445	62.98	93.6	0.774	125.1	37.27	12.56
111	2008	221	500	62.64	93.6	0.745	107.6	32.02	12.55
111	2008	221	515	62.43	93.6	0.395	105.4	13.24	12.55
111	2008	221	530	62.27	93.9	0.837	107.8	36.16	12.55
111	2008	221	545	62.56	94.1	1.344	131.2	46.07	12.54
111	2008	221	600	62.86	94	0.653	171.1	39.62	12.53
111	2008	221	615	63.12	93.9	0.61	258.6	31.5	12.52
111	2008	221	630	63.47	94	1.243	172.8	35.9	12.53
111	2008	221	645	64.22	93.6	1.417	133.5	30.74	12.81
111	2008	221	700	65.38	91.5	2.139	111.1	32.69	13.42
111	2008	221	715	66.19	90.2	2.137	131.9	52.02	13.19
111	2008	221	730	66.69	87	2.846	159.6	45.66	13.23
111	2008	221	745	67.07	82.8	2.225	164.8	47.93	13.41
111	2008	221	800	69.1	77.6	2.508	174.1	51.97	13.38
111	2008	221	815	68.93	80.1	2.481	170.3	49.19	13.38
111	2008	221	830	70	75.9	2.449	160.5	44.62	13.36
111	2008	221	845	70.8	73.2	3.072	171.1	41.27	13.28
111	2008	221	900	70.7	72	3.406	148.4	37.53	13.34
111	2008	221	915	73.1	67.07	3.153	155	66.72	13.31

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	221	930	73.7	65.83	3.849	124	39.67	13.29
111	2008	221	945	73.9	64.16	3.986	135.8	47.2	13.28
111	2008	221	1000	74.6	59.97	2.935	120.8	58.09	13.26
111	2008	221	1015	76.1	56.02	2.955	200.5	50.74	13.24
111	2008	221	1030	76.4	54.48	3.866	187	40.47	13.24
111	2008	221	1045	76.7	51.37	3.904	149.8	54.55	13.21
111	2008	221	1100	77.4	49.77	4.256	167	54.81	13.22
111	2008	221	1115	77.6	48.73	3.547	198.9	64.88	13.21
111	2008	221	1130	77.9	50.27	3.244	124.2	58.52	13.2
111	2008	221	1145	78.5	50.97	2.405	191.7	69.74	13.13
111	2008	221	1200	78.5	48.09	3.299	105.6	73.5	13.1
111	2008	221	1215	79.2	45.62	3.195	88.7	60.18	13.11
111	2008	221	1230	80.8	44.55	3.638	105.2	66.31	13.18
111	2008	221	1245	78.3	59.96	4.089	67.64	58.29	13.12
111	2008	221	1300	77.9	60.09	6.329	19.51	27.6	13.21
111	2008	221	1315	77.8	64.54	6.128	16.04	30.56	13.12
111	2008	221	1330	77.1	62	5.125	7.57	30.5	13.22
111	2008	221	1345	77.9	60.29	6.156	5.283	19.8	13.22
111	2008	221	1400	79.6	57.09	6.932	6.626	20.88	13.21
111	2008	221	1415	76.6	62.33	5.779	7.68	18.94	13.22
111	2008	221	1430	75.4	65.07	5.258	24.9	20.37	12.92
111	2008	221	1445	71.3	74.7	8.98	45.76	30.68	12.83
111	2008	221	1500	64.83	87.7	7.35	22.98	26.63	12.82
111	2008	221	1515	65.96	87.4	3.243	31.61	18.62	13.31
111	2008	221	1530	68.16	84.7	2.42	53.85	39.27	13.34
111	2008	221	1545	71	74.8	1.975	57.13	47.82	13.32
111	2008	221	1600	74.1	66.11	2.76	108.7	42.8	13.28
111	2008	221	1615	76	67.64	2.068	41.58	47.02	13.07
111	2008	221	1630	76	58.18	3.575	2.366	20.87	13.07
111	2008	221	1645	77.9	47.74	4.583	40.33	40.85	13.06
111	2008	221	1700	79.5	49.21	4.587	47.27	35.63	12.92
111	2008	221	1715	76.5	57.57	4.619	38.77	25.69	12.81
111	2008	221	1730	73.9	68.67	6.342	45.95	24.82	12.78
111	2008	221	1745	66.26	85.5	6.064	92	40.21	12.75
111	2008	221	1800	63.98	91.7	3.492	100	42.13	12.74
111	2008	221	1815	66.31	89.3	1.822	113.8	51.71	13.09
111	2008	221	1830	67.19	86.2	1.329	257.2	46.36	13.04
111	2008	221	1845	67.7	78.2	2.512	263.5	30.65	12.87
111	2008	221	1900	68.24	81.6	0.883	281.5	65.49	12.76
111	2008	221	1915	67.77	85.9	1.262	43.94	29.43	12.71
111	2008	221	1930	66.54	88.1	0.504	186.2	18.29	12.69
111	2008	221	1945	65.95	90.1	0.011	219.2	0	12.68
111	2008	221	2000	65.96	90.8	1.245	127.7	37.61	12.68
111	2008	221	2015	65.6	91.3	1.072	113.6	45.66	12.68
111	2008	221	2030	65.21	90.9	1.027	185	31.38	12.67
111	2008	221	2045	64.82	91.2	0.558	222.4	37.99	12.67
111	2008	221	2100	64.34	91.7	0.115	108	9.16	12.67
111	2008	221	2115	63.95	92.1	0.88	101.5	11.25	12.67
111	2008	221	2130	63.37	92.5	0.115	84.1	8.5	12.65
111	2008	221	2145	63	92.9	0.295	74.9	12.09	12.65
111	2008	221	2200	62.8	93	0.009	128.1	0	12.65
111	2008	221	2215	62.77	93.2	na	na	na	12.65
111	2008	221	2230	62.7	93.1	0.396	65.83	22.79	12.64
111	2008	221	2245	62.49	93.3	0.55	108.3	14.71	12.64
111	2008	221	2300	62.4	93.3	0.492	113.5	12.11	12.64
111	2008	221	2315	62.26	93.4	1.764	112.6	18.86	12.64
111	2008	221	2330	62.29	93.1	1.35	100.5	22.4	12.63
111	2008	221	2345	62.13	93.1	1.275	107.8	15.91	12.63
111	2008	221	2400	62.07	92.4	1.182	99.3	26.51	12.62
111	2008	222	15	61.86	92	1.039	103.4	23.69	12.62

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	222	30	61.6	91.5	1.563	99.7	26.91	12.62
111	2008	222	45	61.54	90.6	2.469	108.6	24.08	12.6
111	2008	222	100	61.4	90.1	1.505	100.2	23.59	12.6
111	2008	222	115	61.01	90.5	1.07	100.1	25.99	12.6
111	2008	222	130	60.8	90.6	1.304	92.1	28.57	12.6
111	2008	222	145	60.77	90.6	2.479	98.6	21.15	12.59
111	2008	222	200	60.99	90.1	1.871	104.9	23.46	12.58
111	2008	222	215	60.86	90.2	2.943	107.1	20.89	12.58
111	2008	222	230	60.74	90.2	2.031	96.1	25.01	12.57
111	2008	222	245	60.46	90.5	1.548	97.8	18.07	12.57
111	2008	222	300	60.22	90.6	1.596	93.9	20.23	12.56
111	2008	222	315	60.05	90.8	0.873	100.7	14.6	12.56
111	2008	222	330	59.71	91.3	1.179	113	16.51	12.56
111	2008	222	345	59.6	91.5	1.739	101.2	24.69	12.55
111	2008	222	400	59.41	91.6	1.427	100.3	29.75	12.54
111	2008	222	415	59.37	91.5	1	95.4	39.71	12.53
111	2008	222	430	59.23	91.6	0.384	30.11	8.23	12.52
111	2008	222	445	58.93	91.7	0.576	93.3	18.19	12.52
111	2008	222	500	58.77	91.9	0.111	43.08	15.02	12.52
111	2008	222	515	58.56	92.4	1.087	90.5	22.21	12.51
111	2008	222	530	58.53	92.6	0.156	76.8	11.17	12.51
111	2008	222	545	58.76	92.1	na	na	na	12.5
111	2008	222	600	58.3	92.3	0.254	80.6	20.4	12.5
111	2008	222	615	58.13	92.9	0.044	53.41	6.832	12.49
111	2008	222	630	58.48	93.1	na	na	na	12.49
111	2008	222	645	59.4	92.8	1.704	109.2	17.82	12.77
111	2008	222	700	61.07	90.8	2.01	104.8	19.95	13.47
111	2008	222	715	62.49	87.4	2.705	106.4	22.13	13.46
111	2008	222	730	63.84	83.1	2.745	110.3	27.24	13.46
111	2008	222	745	65.32	80.2	2.678	104.9	29.66	13.43
111	2008	222	800	66.63	74.9	2.438	122.4	46.91	13.42
111	2008	222	815	67.34	73.7	3.575	124.8	39.63	13.39
111	2008	222	830	68.19	72	3.179	143.8	49.61	13.38
111	2008	222	845	69.45	65.65	3.06	148.2	48.2	13.36
111	2008	222	900	70.7	62.29	2.978	152.2	49.4	13.34
111	2008	222	915	71.2	59.65	4.031	178.4	36.03	13.33
111	2008	222	930	72.4	57.54	3.98	170.9	46.66	13.31
111	2008	222	945	72.7	55.4	4.283	170.1	41.63	13.29
111	2008	222	1000	73.2	55.63	3.642	156.8	60.21	13.29
111	2008	222	1015	73.8	55.8	3.849	133.5	47.57	13.27
111	2008	222	1030	74.5	51.75	3.326	157.2	54.78	13.26
111	2008	222	1045	74.9	51.01	4.047	153.3	55.64	13.24
111	2008	222	1100	75.1	50.27	4.355	182.3	27.58	13.24
111	2008	222	1115	75.9	49.97	3.88	168.2	44.91	13.24
111	2008	222	1130	76.1	49.3	3.841	126.1	53.07	13.22
111	2008	222	1145	76.2	50.1	4.044	117	44.92	13.22
111	2008	222	1200	76.9	46.59	4.198	109.5	45.53	13.21
111	2008	222	1215	77.8	46.79	3.32	138.6	70.4	13.2
111	2008	222	1230	77.7	44.99	3.9	103.6	71.1	13.16
111	2008	222	1245	78.6	43.01	3.845	135.1	52.85	13.2
111	2008	222	1300	77.9	45.19	3.624	150.7	75.5	13.2
111	2008	222	1315	78.8	44.22	3.505	112.6	59.2	13.19
111	2008	222	1330	80.7	40.94	4.875	47.55	31.87	13.19
111	2008	222	1345	81.1	41.38	4.266	67.59	50.24	13.18
111	2008	222	1400	80.5	50.3	4.548	46.08	35.28	13.18
111	2008	222	1415	77.4	55.45	6.257	22.07	29.36	13.15
111	2008	222	1430	76.2	54.71	6.992	16.38	26.11	13.21
111	2008	222	1445	75.7	56.65	7.47	24.8	24.64	13.16
111	2008	222	1500	74.7	58.82	7.53	30.8	25.07	13.23
111	2008	222	1515	75.8	57.36	6.583	30.71	28.36	13.16

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	222	1530	74.2	59.27	6.845	19.19	23.08	13.08
111	2008	222	1545	74.1	56.74	5.989	34.06	28.18	13.06
111	2008	222	1600	75.7	53.96	7.17	18.76	22.01	13.06
111	2008	222	1615	77.4	50.42	6.15	26.83	24.91	13.26
111	2008	222	1630	77	52.09	5.362	10.46	26.57	13.1
111	2008	222	1645	76.3	52.49	5.423	5.255	19.72	13.06
111	2008	222	1700	76.7	48.21	6.009	13.15	20.86	13.02
111	2008	222	1715	77	49.85	5.6	19.01	22.18	13
111	2008	222	1730	76.2	52.09	5.824	356.8	20.52	12.99
111	2008	222	1745	75.7	52.46	4.962	5.697	25.01	12.93
111	2008	222	1800	75.3	58.27	5.657	359.3	23.14	12.89
111	2008	222	1815	74.3	65.03	6.325	14.99	22.12	12.87
111	2008	222	1830	73.6	62.75	6.692	27.64	20.26	12.84
111	2008	222	1845	72.8	63.49	5.864	8.79	22	12.81
111	2008	222	1900	72.7	65.46	6.307	24.59	21.17	12.76
111	2008	222	1915	71.7	64.19	4.881	19.23	22.8	12.75
111	2008	222	1930	71	68.65	3.108	23.32	17.27	12.73
111	2008	222	1945	70.2	70.6	4.045	33.5	21.45	12.73
111	2008	222	2000	69.65	71.8	3.206	30	19.62	12.72
111	2008	222	2015	69.29	72.5	3.068	10.05	20.45	12.72
111	2008	222	2030	68.95	74.6	2.116	26.09	20.55	12.71
111	2008	222	2045	68.59	76.6	1.286	23.85	18.42	12.7
111	2008	222	2100	68.24	77.7	0.564	23.23	10	12.7
111	2008	222	2115	67.89	78.8	0.263	26.53	9.27	12.69
111	2008	222	2130	67.63	79.5	0.139	22.28	6.306	12.69
111	2008	222	2145	67.47	80.3	0.031	48.48	0.762	12.68
111	2008	222	2200	67.16	81.6	0.165	16.53	5.57	12.68
111	2008	222	2215	66.9	82.5	1.645	27.64	15.2	12.67
111	2008	222	2230	66.9	83.1	1.936	23.02	13.61	12.67
111	2008	222	2245	67.11	83	2.687	25.88	17.14	12.67
111	2008	222	2300	67.46	82.9	2.947	21.76	19.54	12.67
111	2008	222	2315	67.81	82.6	3.487	22.07	22.03	12.65
111	2008	222	2330	67.96	82.9	3.142	28.27	21.95	12.65
111	2008	222	2345	68.04	83.4	3.559	28.19	19.85	12.65
111	2008	222	2400	67.95	84.1	2.389	22.05	20.43	12.65
111	2008	223	15	67.76	85.4	3.017	19.47	17.79	12.65
111	2008	223	30	67.83	85.5	1.712	17.62	21.04	12.65
111	2008	223	45	67.52	86.7	1.256	13.55	14.6	12.64
111	2008	223	100	67.17	87.6	0.15	30.43	5.058	12.63
111	2008	223	115	66.77	87.9	0.009	203.6	0.008	12.63
111	2008	223	130	66.05	89	na	na	na	12.63
111	2008	223	145	65.68	90	na	na	na	12.63
111	2008	223	200	65.46	90.6	na	na	na	12.61
111	2008	223	215	65.08	90.8	0.018	147.9	2.493	12.61
111	2008	223	230	64.62	91.3	na	na	na	12.61
111	2008	223	245	64.32	91.7	na	na	na	12.6
111	2008	223	300	64.34	92.3	na	na	na	12.6
111	2008	223	315	64.33	92.4	na	na	na	12.59
111	2008	223	330	64.31	92.6	na	na	na	12.59
111	2008	223	345	64.23	92.7	na	na	na	12.57
111	2008	223	400	63.96	92.9	na	na	na	12.57
111	2008	223	415	64.09	93.1	na	na	na	12.57
111	2008	223	430	64.1	93.1	na	na	na	12.57
111	2008	223	445	63.75	93.2	na	na	na	12.56
111	2008	223	500	63.44	93.2	na	na	na	12.55
111	2008	223	515	63.18	93.5	na	na	na	12.55
111	2008	223	530	63.14	93.6	na	na	na	12.55
111	2008	223	545	62.85	93.5	na	na	na	12.53
111	2008	223	600	62.53	93.7	na	na	na	12.53
111	2008	223	615	62.59	93.8	na	na	na	12.52

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	223	630	62.64	94	na	na	na	12.52
111	2008	223	645	63.36	94.4	na	na	na	12.72
111	2008	223	700	65.4	93.6	0.027	243.6	0.416	13.43
111	2008	223	715	68.26	90.6	na	na	na	13.41
111	2008	223	730	70.4	83.1	na	na	na	13.4
111	2008	223	745	72.4	72.1	na	na	na	13.39
111	2008	223	800	74	62.54	0.727	27.98	39.1	13.37
111	2008	223	815	74.8	58.28	0.284	349.5	11.37	13.22
111	2008	223	830	75.5	54.13	0.488	260	26.23	13.19
111	2008	223	845	76.2	55.8	0.73	303.6	24.42	13.3
111	2008	223	900	76.5	53.06	3.08	338.7	26.58	13.29
111	2008	223	915	76.1	48.27	3.181	328.7	32.49	13.28
111	2008	223	930	76.3	54.45	2.644	320.9	27.63	13.27
111	2008	223	945	76.2	54.81	4.804	332.8	23.71	13.26
111	2008	223	1000	78.5	57.96	5.072	19.63	23.51	13.26
111	2008	223	1015	77.3	58.05	5.058	0.519	24.78	13.25
111	2008	223	1030	78.1	54.65	4.424	19.21	31.22	13.24
111	2008	223	1045	79.1	54.81	5.304	12.56	25.3	13.24
111	2008	223	1100	77.8	52.27	5.888	3.033	26.24	13.24
111	2008	223	1115	78.6	48.3	5.375	3.708	20.21	13.22
111	2008	223	1130	78.4	45.42	5.709	6.27	25.66	13.23
111	2008	223	1145	79.3	47.39	5.62	359.9	26.37	13.22
111	2008	223	1200	78.9	44.52	6.215	1.58	26.26	13.22
111	2008	223	1215	78.9	47.53	6.138	352.8	21.93	13.22
111	2008	223	1230	78.9	45.02	5.846	4.228	22.13	13.22
111	2008	223	1245	79.1	44.85	6.209	0.723	24.24	13.22
111	2008	223	1300	79.3	50.97	6.162	348.2	28.15	13.22
111	2008	223	1315	77.1	48.66	6.605	343.5	27.06	13.22
111	2008	223	1330	76.8	49.87	6.057	347.3	24.13	13.24
111	2008	223	1345	76.5	53.24	5.596	334.4	26.91	13.24
111	2008	223	1400	75.6	51.94	5.145	334.8	27.86	13.25
111	2008	223	1415	76	52.45	4.762	346.6	26.53	13.26
111	2008	223	1430	75.5	57.47	5.145	350.9	20.99	13.26
111	2008	223	1445	75.5	60.18	5.548	341.4	28.82	13.28
111	2008	223	1500	74.7	61.38	5.455	337.9	25.5	13.28
111	2008	223	1515	74.3	61.75	5.594	332.4	22.98	13.28
111	2008	223	1530	74	63.36	6.043	344.5	21.98	13.29
111	2008	223	1545	73.8	62.05	4.756	342.8	24.91	12.97
111	2008	223	1600	73.4	66.63	5.524	352.6	18.36	12.91
111	2008	223	1615	72.4	72.6	3.42	356	20.75	12.82
111	2008	223	1630	71.6	76.1	2.917	356.6	22.2	12.78
111	2008	223	1645	70.8	77.5	2.802	11.43	18.14	12.76
111	2008	223	1700	70.2	81	2.373	358.6	23.78	12.74
111	2008	223	1715	69.61	81.3	2.235	3.817	22.54	12.73
111	2008	223	1730	69.53	84.1	1.587	36.85	52.62	12.73
111	2008	223	1745	69.45	86.9	0.781	101.6	21.27	12.75
111	2008	223	1800	69.47	87.9	0.964	93.9	24.33	12.71
111	2008	223	1815	69.27	88.6	1.223	40.78	29.67	12.71
111	2008	223	1830	69.57	84.5	4.301	11.97	19.64	12.7
111	2008	223	1845	69.51	80.6	5.387	29.75	21.84	12.7
111	2008	223	1900	69.04	76.9	4.17	23.13	22.54	12.71
111	2008	223	1915	68.52	75.7	3.535	29.18	20.5	12.69
111	2008	223	1930	68.04	78.6	1.931	29.23	20.96	12.69
111	2008	223	1945	67.6	80	2.077	44.31	42.33	12.69
111	2008	223	2000	67.28	82.3	0.695	142.6	28.17	12.68
111	2008	223	2015	66.78	84.3	0.375	214.2	12.19	12.68
111	2008	223	2030	66.35	85.8	0.213	228.5	8.46	12.67
111	2008	223	2045	66.02	87.1	0.181	96.3	6.934	12.67
111	2008	223	2100	65.7	88.6	0.126	18.4	2.916	12.67
111	2008	223	2115	65.52	89.7	0.68	39.73	10.26	12.66

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	223	2130	65.38	90.1	0.018	46.53	0.01	12.65
111	2008	223	2145	65.34	90.2	na	na	na	12.65
111	2008	223	2200	65.34	90.3	0.21	158.9	38.41	12.65
111	2008	223	2215	65.8	89.7	0.699	263.5	20.86	12.64
111	2008	223	2230	66.61	85.7	1.724	268.7	42.12	12.64
111	2008	223	2245	67.19	81	3.63	317.4	24.02	12.63
111	2008	223	2300	68.33	77.9	6.638	319.1	18.1	12.63
111	2008	223	2315	68.37	78.7	8.7	317.9	21.78	12.63
111	2008	223	2330	68.23	79.8	6.869	322.2	26.6	12.63
111	2008	223	2345	67.87	81.4	5.358	315.2	29.06	12.63
111	2008	223	2400	67.73	80.2	5.338	296.2	25.44	12.63
111	2008	224	15	68.03	79.6	3.614	330.6	33.59	12.62
111	2008	224	30	68.08	77.8	4.023	326.3	24.03	12.61
111	2008	224	45	67.76	79.2	3.285	337.5	24.38	12.61
111	2008	224	100	67.47	79.6	2.05	355	34.59	12.6
111	2008	224	115	67.48	77.9	2.138	339	24.18	12.6
111	2008	224	130	66.76	82.2	0.648	99.1	24.73	12.59
111	2008	224	145	65.48	85	0.51	113	11.39	12.59
111	2008	224	200	65	87.2	0.771	169.8	23.56	12.57
111	2008	224	215	65.12	87.5	1.215	228.7	28.93	12.57
111	2008	224	230	65.34	87.2	1.497	240.9	27.61	12.56
111	2008	224	245	65.15	87.2	1.415	230.2	15.25	12.55
111	2008	224	300	64.64	88	1.276	221.5	21.27	12.55
111	2008	224	315	64.06	88.8	0.533	195.8	21.11	12.55
111	2008	224	330	63.55	89.4	0.009	172.9	0	12.53
111	2008	224	345	63	90.3	0.009	101.7	0	12.53
111	2008	224	400	62.7	90.8	na	na	na	12.52
111	2008	224	415	62.43	91.4	na	na	na	12.51
111	2008	224	430	62.24	91.5	0.04	158.9	1.632	12.51
111	2008	224	445	61.99	91.9	0.309	168.8	11.86	12.51
111	2008	224	500	61.86	92.3	0.839	189	29.58	12.51
111	2008	224	515	61.74	92.2	0.351	216.5	20.82	12.5
111	2008	224	530	61.53	92.4	0.009	185.4	0	12.49
111	2008	224	545	61.28	92.3	0.018	222.1	1.078	12.49
111	2008	224	600	61.09	92.7	0.335	178.8	17.14	12.49
111	2008	224	615	61.2	92.9	0.073	181.2	8.27	12.5
111	2008	224	630	61.29	93.2	0.472	182.9	15.18	12.48
111	2008	224	645	62.15	93.1	0.52	188	20.76	12.77
111	2008	224	700	63.64	91.3	0.585	187.7	22.83	13.44
111	2008	224	715	65.42	87	0.883	215.5	26.26	13.42
111	2008	224	730	67.53	79	1.615	239.4	21.55	13.42
111	2008	224	745	68.98	76.3	2.111	229.4	29.55	13.4
111	2008	224	800	69.85	72.8	2.492	241	33.7	13.38
111	2008	224	815	70.8	71.8	2.6	233.2	35.11	13.36
111	2008	224	830	72.1	68.18	3.096	218.6	35.13	13.35
111	2008	224	845	71.7	67.27	2.687	250.1	31.23	13.33
111	2008	224	900	71	70.1	2.458	269.3	18.77	13.32
111	2008	224	915	71.8	67.17	1.57	222	39.72	13.3
111	2008	224	930	71.4	65	0.76	258	17.91	13.32
111	2008	224	945	74	61.02	1.959	249.6	60.29	13.29
111	2008	224	1000	73	61.08	2.904	295.2	39.7	13.28
111	2008	224	1015	73.3	65.69	4.117	284.5	30.63	13.26
111	2008	224	1030	73	66.89	4.685	329.2	37	13.26
111	2008	224	1045	73.2	65.01	5.123	312.2	33.33	13.25
111	2008	224	1100	72.6	65.28	5.717	321.9	27.28	13.25
111	2008	224	1115	73.3	61.78	6.477	347.1	25.91	13.25
111	2008	224	1130	73.7	65.03	6.998	335.9	27.58	13.25
111	2008	224	1145	73.7	63.96	6.009	331.4	26.02	13.25
111	2008	224	1200	73.7	64.32	7.37	336.1	23.61	13.24
111	2008	224	1215	72.3	68.7	7.87	330.6	21.71	13.25

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	224	1230	71.9	67.6	7.17	340.1	28.29	13.26
111	2008	224	1245	72.6	67.1	2.792	9.25	45.79	12.96
111	2008	224	1300	71.8	63.49	3.322	56.35	62.82	12.94
111	2008	224	1315	67.91	69.17	4.615	119.2	32.81	12.87
111	2008	224	1330	66.43	70.3	3.41	104	39.37	12.81
111	2008	224	1345	65.63	82.1	3.696	75	38.67	12.8
111	2008	224	1400	63.58	88.4	2.504	176.1	43.46	12.8
111	2008	224	1415	63.71	89.4	1.649	70.2	21.77	13.03
111	2008	224	1430	64.75	88.2	2.077	74.9	34.8	13.39
111	2008	224	1445	66	86.2	2.237	82.2	35.94	13.38
111	2008	224	1500	69.64	77.2	2.692	59.57	38.4	13.35
111	2008	224	1515	71.6	71.2	5.054	81.8	42.16	13.33
111	2008	224	1530	72.3	70.2	3.368	114.4	53.88	13.31
111	2008	224	1545	71.5	67.88	5.032	132.9	46.88	13.13
111	2008	224	1600	71.5	67.04	4.301	145.7	40.66	13.31
111	2008	224	1615	71.9	64.33	4.549	128.6	45.46	13.05
111	2008	224	1630	72.6	59.51	4.647	141.3	43.66	12.97
111	2008	224	1645	71.9	59.24	5.125	135.1	40.78	12.9
111	2008	224	1700	72.4	57.67	4.486	119.8	50.74	12.87
111	2008	224	1715	72.7	58.61	4.071	125.9	48.64	12.85
111	2008	224	1730	72.9	58.11	4.591	158.1	34.84	12.87
111	2008	224	1745	72	60.45	3.64	123.6	51.34	12.79
111	2008	224	1800	70.5	64.09	3.324	145.5	35.09	12.79
111	2008	224	1815	70.2	63.96	2.873	144.1	39.57	12.76
111	2008	224	1830	70.8	61.69	3.418	168.2	47.42	12.77
111	2008	224	1845	71.1	63.34	3.309	197.6	38.54	12.76
111	2008	224	1900	70.9	63.37	2.61	176.5	44.09	12.72
111	2008	224	1915	69.43	66.25	2.529	157.6	34.37	12.72
111	2008	224	1930	68.48	68.53	1.514	133.8	34.73	12.71
111	2008	224	1945	67.67	71	1.468	69.91	39.9	12.71
111	2008	224	2000	66.24	74.9	1.264	48.77	22.34	12.71
111	2008	224	2015	65.46	76	1.536	70.2	19.38	12.69
111	2008	224	2030	65.16	77.3	1.773	71	23.95	12.69
111	2008	224	2045	65.07	77.1	2.202	71.9	26.66	12.68
111	2008	224	2100	65.34	75.8	3.094	67.81	19.51	12.68
111	2008	224	2115	65.65	74.6	3.451	78.9	30.41	12.67
111	2008	224	2130	65.68	74.7	3.749	73	30.05	12.67
111	2008	224	2145	65.51	74.9	3.354	85.2	43.37	12.67
111	2008	224	2200	65.2	76.2	4.393	73.9	32.62	12.67
111	2008	224	2215	64.91	76.7	3.371	90	46.17	12.66
111	2008	224	2230	64.42	77	3.438	102.6	42.06	12.65
111	2008	224	2245	63.88	78.9	2.577	114.7	55.65	12.65
111	2008	224	2300	63.34	80.3	1.719	100.1	34.28	12.65
111	2008	224	2315	62.92	81	0.874	93.7	35.38	12.64
111	2008	224	2330	62.54	81.8	2.004	70.4	31.65	12.63
111	2008	224	2345	62.22	82.6	1.518	55.61	33.04	12.63
111	2008	224	2400	61.8	82.8	3.271	72.3	24.71	12.62
111	2008	225	15	61.66	83.3	2.865	79.2	34.28	12.62
111	2008	225	30	61.35	84.4	3.195	67.71	24.64	12.61
111	2008	225	45	61.12	85.1	3.406	73.3	36.35	12.6
111	2008	225	100	61.07	84.9	2.636	70.8	36.21	12.6
111	2008	225	115	60.87	85.2	1.988	76.6	33.34	12.59
111	2008	225	130	60.66	85.9	2.637	69.66	25.44	12.59
111	2008	225	145	60.38	86.6	2.076	73.3	25.82	12.58
111	2008	225	200	60.29	87.1	1.954	85.2	38.24	12.58
111	2008	225	215	60.01	88	1.679	47.77	28.3	12.57
111	2008	225	230	59.59	89	1.154	59.31	21.22	12.56
111	2008	225	245	59.18	89.5	0.281	32.3	10.77	12.56
111	2008	225	300	58.76	90.3	0.361	59.33	15.89	12.55
111	2008	225	315	58.49	91	1.166	73.6	17.7	12.55

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	225	330	58.44	91.5	0.971	60.51	23.65	12.54
111	2008	225	345	58.74	91.9	2.35	62.55	28.27	12.54
111	2008	225	400	59.22	91.6	1.776	64.96	25.7	12.53
111	2008	225	415	59.52	91.1	2.121	66.55	29.81	12.52
111	2008	225	430	59.78	90.4	2.671	67.21	30.14	12.52
111	2008	225	445	59.88	90.1	2.54	67.06	29.19	12.51
111	2008	225	500	59.73	90.3	1.826	63.18	20.5	12.5
111	2008	225	515	59.58	90.5	2.115	70.2	33.89	12.5
111	2008	225	530	59.64	90.6	2.817	72.1	23.45	12.49
111	2008	225	545	59.73	90.5	3.09	64.41	31.57	12.48
111	2008	225	600	59.85	90.2	3.305	77.5	27.15	12.48
111	2008	225	615	59.97	89.8	2.685	73.4	32.61	12.47
111	2008	225	630	60.07	90.1	2.973	60.07	24.01	12.47
111	2008	225	645	60.71	89	2.652	63.33	31.19	12.63
111	2008	225	700	61.97	86.4	3.154	74.8	24.01	12.95
111	2008	225	715	63.25	82.3	3.718	90.4	38.86	13.44
111	2008	225	730	64.42	78.7	4.347	82.1	37.89	13.42
111	2008	225	745	65.55	76.8	3.878	86.1	36.78	13.41
111	2008	225	800	65.47	76	4.478	77.3	27.55	13.29
111	2008	225	815	65.74	76.2	4.123	84	38.9	13.39
111	2008	225	830	65.03	77.5	3.444	84.5	30.98	13.39
111	2008	225	845	65.09	76.7	4.012	84.4	34.34	13.4
111	2008	225	900	66.51	73.4	3.622	82.3	38.28	13.39
111	2008	225	915	68.24	69.53	3.779	79.7	36.97	13.36
111	2008	225	930	68.26	66.42	4.069	88.8	33.71	13.35
111	2008	225	945	69.22	67.01	4.63	102.5	41.68	13.33
111	2008	225	1000	69.94	63.33	4.458	96.5	47.43	13.32
111	2008	225	1015	70.6	61.02	4.45	96.7	45.16	13.32
111	2008	225	1030	72	57.91	4.156	132.1	47.52	13.3
111	2008	225	1045	72.2	58.84	4.661	103.9	53.56	13.29
111	2008	225	1100	72.1	58.64	4.756	110.1	49.02	13.29
111	2008	225	1115	71.6	61.38	3.592	106.4	43.81	13.29
111	2008	225	1130	73.8	58.74	4.762	91.2	43.51	13.28
111	2008	225	1145	74	56.84	3.839	88.6	48.6	13.27
111	2008	225	1200	74.9	54.26	5.012	105.8	48.8	13.26
111	2008	225	1215	75.8	49.37	5.592	110.2	48.81	13.26
111	2008	225	1230	76.3	51.31	4.855	108.1	52.1	13.24
111	2008	225	1245	77.1	48.33	5.029	85.8	47.04	13.24
111	2008	225	1300	77.3	50.1	5.598	86.5	36.44	13.22
111	2008	225	1315	77.6	47.59	4.814	97.5	47.11	13.22
111	2008	225	1330	78.2	43.92	4.534	84.8	39.86	13.21
111	2008	225	1345	79.4	43.58	5.276	72.7	43.17	13.2
111	2008	225	1400	80.1	41.81	3.305	86.6	57.42	13.15
111	2008	225	1415	79.7	43.01	4.635	80.2	39.81	13.01
111	2008	225	1430	78.7	42.15	4.5	84.3	49.47	13
111	2008	225	1445	80	41.48	4.054	80.2	35.48	13.2
111	2008	225	1500	78.2	47.76	5.092	75.4	38.15	13.2
111	2008	225	1515	80.5	42.55	3.316	76.9	47.79	13.2
111	2008	225	1530	81	50.4	4.8	23.25	50.47	13.19
111	2008	225	1545	77.4	56.78	6.192	351.9	24.67	13.2
111	2008	225	1600	78	54.85	6.168	339.1	19.77	13.1
111	2008	225	1615	77.7	55.55	5.02	347.9	37.74	13.1
111	2008	225	1630	76.9	56.65	2.594	36.5	45.55	12.97
111	2008	225	1645	77.7	55.16	3.699	358.1	41.56	12.89
111	2008	225	1700	79.6	39.92	2.952	34.73	66.81	12.88
111	2008	225	1715	81.5	42.59	2.748	10.88	60.46	12.85
111	2008	225	1730	79.5	46	2.807	316.8	86.1	12.84
111	2008	225	1745	79	61.01	3.696	358.1	76.9	12.8
111	2008	225	1800	77.9	40.89	2.015	47.71	63.71	12.78
111	2008	225	1815	80.1	43.03	3.38	67.36	30.59	12.77

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	225	1830	78.7	42.69	1.235	53.24	28.63	12.76
111	2008	225	1845	78.4	47.31	1.625	49.09	41.01	12.76
111	2008	225	1900	76.7	48.51	0.655	47.85	21.8	12.74
111	2008	225	1915	76.3	50.42	1.082	54.69	22.98	12.74
111	2008	225	1930	74.7	53.43	0.282	60.83	8.85	12.74
111	2008	225	1945	73.5	55.33	0.107	29.59	8.73	12.73
111	2008	225	2000	72.4	57.71	0.149	57.29	5.816	12.73
111	2008	225	2015	71.6	61.32	0.45	5.174	12.38	12.72
111	2008	225	2030	71.1	61.2	0.497	20.59	21.13	12.72
111	2008	225	2045	71	61.7	0.957	35.42	26.74	12.71
111	2008	225	2100	70.8	62.64	0.489	55.39	14.28	12.7
111	2008	225	2115	70.5	64.78	0.249	60.37	8.04	12.7
111	2008	225	2130	69.5	68.33	0.181	15.15	11.7	12.69
111	2008	225	2145	68.53	70.8	0.346	20.62	7.13	12.68
111	2008	225	2200	67.93	71.2	0.154	10.46	9.27	12.68
111	2008	225	2215	67.59	70.8	0.29	47.96	16.83	12.67
111	2008	225	2230	67.64	69.43	0.562	52.68	16.06	12.67
111	2008	225	2245	68	66.36	1.299	75.9	24.31	12.65
111	2008	225	2300	68.12	68.16	1.715	64.27	23.59	12.65
111	2008	225	2315	67.55	68.5	1.808	64.02	22.36	12.65
111	2008	225	2330	67.31	69.73	1.475	57.29	18.82	12.65
111	2008	225	2345	66.67	72.3	0.868	51.6	18.65	12.63
111	2008	225	2400	66.29	71.6	2.065	68.29	18.86	12.63
111	2008	226	15	66.32	72.2	1.841	66.7	23.55	12.63
111	2008	226	30	65.79	74.8	0.618	49.13	17.68	12.63
111	2008	226	45	65.07	75.8	1.399	63.6	17.07	12.61
111	2008	226	100	65.3	75.2	1.677	62.01	26.18	12.61
111	2008	226	115	65.04	76.5	0.338	56.84	13.42	12.61
111	2008	226	130	64.32	78.7	0.188	27.42	6.227	12.6
111	2008	226	145	63.74	79.7	0.044	39.77	7.34	12.59
111	2008	226	200	63.47	80.3	0.252	72.6	6.755	12.59
111	2008	226	215	63.53	79.6	0.939	68.17	17.88	12.58
111	2008	226	230	63.18	81.5	0.181	59.07	6.279	12.58
111	2008	226	245	62.56	83.6	na	na	na	12.57
111	2008	226	300	62.53	83.1	na	na	na	12.56
111	2008	226	315	62.99	82.1	0.134	59.59	5.118	12.56
111	2008	226	330	62.61	83.3	0.02	51.74	1.914	12.56
111	2008	226	345	62	84.4	0.045	110.8	6.861	12.55
111	2008	226	400	61.67	85.4	0.038	3.604	0.995	12.55
111	2008	226	415	61.34	86.6	na	na	na	12.53
111	2008	226	430	61.56	86.3	na	na	na	12.53
111	2008	226	445	61.37	86.8	na	na	na	12.53
111	2008	226	500	60.93	87.9	na	na	na	12.52
111	2008	226	515	60.54	89.1	na	na	na	12.51
111	2008	226	530	60.54	89.1	0.036	77.7	0.498	12.5
111	2008	226	545	60.45	89.2	0.174	66.78	4.612	12.5
111	2008	226	600	60.5	89	0.133	96.3	5.413	12.49
111	2008	226	615	60.62	89	na	na	na	12.5
111	2008	226	630	60.52	89.5	na	na	na	12.5
111	2008	226	645	61.03	89.7	na	na	na	13.12
111	2008	226	700	62.61	87.1	na	na	na	13.23
111	2008	226	715	64.72	80.9	na	na	na	13.23
111	2008	226	730	66.93	73.7	0.309	95.2	15.6	13.43
111	2008	226	745	68.59	70.4	0.864	77	38.73	13.4
111	2008	226	800	69.96	67.93	0.625	83.5	21.93	13.38
111	2008	226	815	71.1	61.43	1.477	129.6	36.88	13.36
111	2008	226	830	71.5	60.05	2.313	127.5	52.39	13.34
111	2008	226	845	72.9	55.43	1.701	104.6	49.67	13.33
111	2008	226	900	73.6	52.16	3.095	63.52	34.96	13.3
111	2008	226	915	73.7	50.75	3.538	82.1	26.7	13.3

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	226	930	74.6	49.17	2.284	87.6	58.46	13.28
111	2008	226	945	75.6	46.09	2.494	124.1	52.04	13.27
111	2008	226	1000	75.8	48.2	2.066	50.06	58.62	13.26
111	2008	226	1015	77.2	45.39	2.565	7.07	68.36	13.25
111	2008	226	1030	77.8	43.62	3.045	29.64	48.95	13.24
111	2008	226	1045	78.8	44.95	2.322	40.1	52.12	13.24
111	2008	226	1100	76.7	56.35	5.02	309.8	32.79	13.23
111	2008	226	1115	74.9	59.46	6.059	317.3	25.58	13.24
111	2008	226	1130	74.5	60.03	5.084	302.2	25.14	13.24
111	2008	226	1145	74.7	58.09	4.536	296.5	31.48	13.25
111	2008	226	1200	75.1	55.86	5.967	286.1	18.69	13.24
111	2008	226	1215	75	57.26	6.785	289.9	17.98	13.25
111	2008	226	1230	75.4	53.45	7.12	306.4	22.25	13.25
111	2008	226	1245	76.7	51.48	6.247	322.5	24.37	13.25
111	2008	226	1300	76	53.05	6.65	294.1	23.86	13.24
111	2008	226	1315	75.7	44.66	6.65	299.4	23.8	13.24
111	2008	226	1330	77.7	39.14	6.035	320.3	28.95	13.24
111	2008	226	1345	79	44.29	6.66	331.9	23.23	13.24
111	2008	226	1400	77.4	47.19	6.819	322.1	27.44	13.24
111	2008	226	1415	77.1	48.83	6.892	322.6	29.18	13.24
111	2008	226	1430	77.4	49.97	6.16	326.1	25.36	13.24
111	2008	226	1445	77.2	48.43	7.4	329.8	22.9	13.24
111	2008	226	1500	75.6	52.27	7.03	297.9	27.83	13.11
111	2008	226	1515	75.9	56.66	7.35	313.1	31.04	13.02
111	2008	226	1530	76.7	58.77	6.037	337.4	35.01	13.14
111	2008	226	1545	75.7	63.52	7.43	300.8	28.3	13.21
111	2008	226	1600	76	64.39	6.416	327.2	24.35	13.26
111	2008	226	1615	75.7	63.59	5.391	328.5	26.8	13.26
111	2008	226	1630	76	63.69	4.627	318.3	29.7	13.27
111	2008	226	1645	75	66.87	4.538	308	26.09	13.27
111	2008	226	1700	75	69.68	3.96	302.4	29.01	13.26
111	2008	226	1715	73.7	64.93	5.544	284.1	19.02	13.14
111	2008	226	1730	73.7	69.58	5.125	294.4	25.06	13.08
111	2008	226	1745	73.5	71.7	4.97	304.6	22.91	13.08
111	2008	226	1800	73.5	73.1	4.075	320.5	24.58	12.92
111	2008	226	1815	73	75.5	3.347	319.1	31.53	12.89
111	2008	226	1830	72.7	78.4	4.182	300.6	29.96	12.85
111	2008	226	1845	72.4	81.3	4.609	291.1	24.4	12.8
111	2008	226	1900	72.1	82.3	4.087	318.4	23.84	12.77
111	2008	226	1915	72	83	4.194	326.7	21.91	12.75
111	2008	226	1930	71.8	83.8	2.896	316.1	21.49	12.75
111	2008	226	1945	71.6	84.8	3.269	309.3	23.55	12.73
111	2008	226	2000	71.3	85.3	3.533	300.7	21.16	12.73
111	2008	226	2015	71.2	86.5	3.362	307.2	21.13	12.73
111	2008	226	2030	71.2	87.4	3.177	297.6	22.75	12.72
111	2008	226	2045	71.2	88	3.104	310.9	20.23	12.71
111	2008	226	2100	71	88	2.997	315.6	25.85	12.71
111	2008	226	2115	70.9	87.8	2.383	297.6	25.11	12.71
111	2008	226	2130	70.9	87.3	2.052	289.1	23.43	12.7
111	2008	226	2145	70.9	86.4	2.431	293.6	24.7	12.71
111	2008	226	2200	70.9	86.3	2.185	313.1	17.59	12.71
111	2008	226	2215	70.8	86.2	1.353	302	22.79	12.7
111	2008	226	2230	70.7	86.1	1.338	312.3	26.2	12.69
111	2008	226	2245	70.6	85.7	1.588	329.3	26.14	12.69
111	2008	226	2300	70.3	85.3	1.421	307.7	27.44	12.68
111	2008	226	2315	70.3	85.2	1.988	331.2	18.18	12.68
111	2008	226	2330	70.2	85	2.153	320.8	22.5	12.68
111	2008	226	2345	70.6	84.7	2.133	314.3	21.31	12.67
111	2008	226	2400	70.7	84.2	2.333	329.2	18.32	12.67
111	2008	227	15	70.6	84.3	2.381	334.8	16.29	12.67

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	227	30	70.3	85.6	0.526	342.4	7.98	12.67
111	2008	227	45	69.97	86	0.395	342.1	12.61	12.66
111	2008	227	100	69.46	87.1	0.035	101.4	0.95	12.66
111	2008	227	115	68.9	88.3	0.02	106.1	0.23	12.65
111	2008	227	130	68.51	89.1	na	na	na	12.65
111	2008	227	145	68.25	89.6	na	na	na	12.64
111	2008	227	200	67.76	90.5	na	na	na	12.64
111	2008	227	215	67.51	90.7	na	na	na	12.63
111	2008	227	230	67.26	91.2	na	na	na	12.63
111	2008	227	245	67.13	91.5	na	na	na	12.62
111	2008	227	300	67.11	91.8	na	na	na	12.61
111	2008	227	315	67.13	91.8	na	na	na	12.61
111	2008	227	330	67.01	92.2	na	na	na	12.6
111	2008	227	345	66.99	92.1	na	na	na	12.6
111	2008	227	400	66.76	92.3	na	na	na	12.6
111	2008	227	415	66.6	92.4	na	na	na	12.6
111	2008	227	430	66.58	92.6	na	na	na	12.59
111	2008	227	445	66.47	92.6	na	na	na	12.59
111	2008	227	500	66.39	92.8	na	na	na	12.57
111	2008	227	515	66.56	92.6	na	na	na	12.57
111	2008	227	530	66.45	92.6	na	na	na	12.57
111	2008	227	545	66.24	92.7	na	na	na	12.56
111	2008	227	600	66.18	92.6	na	na	na	12.56
111	2008	227	615	66.05	92.7	na	na	na	12.55
111	2008	227	630	65.99	92.8	na	na	na	12.55
111	2008	227	645	66.07	92.9	na	na	na	12.55
111	2008	227	700	66.34	93.1	0.398	149.7	14.29	12.55
111	2008	227	715	67.37	93.1	0.703	139.5	31.35	12.7
111	2008	227	730	69.04	90.2	1.495	176.3	47.71	13.19
111	2008	227	745	69.92	88.5	1.034	174.8	32.94	13.08
111	2008	227	800	70.4	86.7	0.543	149.7	21.37	13.14
111	2008	227	815	71.3	84.4	1.667	144.4	32.31	13.29
111	2008	227	830	73.1	78	2.337	168.7	43.38	13.35
111	2008	227	845	74.7	74.7	2.318	138	54.22	13.32
111	2008	227	900	76.2	70.3	2.411	157.8	54.07	13.3
111	2008	227	915	76.4	70.2	3.271	139.9	49.95	13.29
111	2008	227	930	75.8	72.2	3.132	141.6	46.92	13.29
111	2008	227	945	74.6	75.6	2.818	125.9	42.92	13.29
111	2008	227	1000	74.1	69.83	2.622	130.3	44.22	13.29
111	2008	227	1015	75.8	60.51	3.361	205.9	29.59	13.28
111	2008	227	1030	77	60.5	2.826	174.8	48.26	13.26
111	2008	227	1045	78.4	60.6	2.65	73.9	64.04	13.24
111	2008	227	1100	79.5	57.69	2.007	95.1	62.86	13.23
111	2008	227	1115	82.2	54.78	3.023	19.79	51	13.22
111	2008	227	1130	81.1	55.31	1.565	327.5	72.8	13.2
111	2008	227	1145	81.9	54.81	2.283	36.9	66.51	13.19
111	2008	227	1200	82.1	56	2.656	31.74	59.59	13.19
111	2008	227	1215	79.8	64.09	4.865	330.5	46.21	13.13
111	2008	227	1230	77.7	66.17	1.948	172.3	59.43	12.91
111	2008	227	1245	76.2	71.7	3.097	200.9	27	12.86
111	2008	227	1300	75.1	73.7	3.214	272.4	60.32	12.84
111	2008	227	1315	75	75.4	4.422	323	25.38	12.81
111	2008	227	1330	73.3	75	5.211	326.1	35.38	12.8
111	2008	227	1345	72.5	79.4	4.611	291.8	24.68	12.79
111	2008	227	1400	73.1	80.3	4.305	297.9	22.43	12.78
111	2008	227	1415	72.8	79.4	3.356	318.4	37.29	12.76
111	2008	227	1430	73.3	66.73	4.599	311.6	22.8	12.8
111	2008	227	1445	75.7	75.1	6.497	310.3	22.24	13.26
111	2008	227	1500	76.1	69.74	6.192	323	21.62	13.24
111	2008	227	1515	76.8	65.46	6.303	328.8	22.47	13.21

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	227	1530	77.3	63.26	5.84	320.7	28.86	13.14
111	2008	227	1545	77.1	64.59	6.025	323.3	23.16	13.08
111	2008	227	1600	77.5	63.52	5.965	335.9	27.54	13.08
111	2008	227	1615	78	65.16	6.182	338.7	24.24	12.93
111	2008	227	1630	76.1	63.45	5.419	323.6	21.71	12.92
111	2008	227	1645	77.2	64.06	5.975	338.1	21.18	13.26
111	2008	227	1700	77.1	67.84	5.649	335.3	25.14	13.08
111	2008	227	1715	75.9	69.04	4.665	3.41	23.95	12.89
111	2008	227	1730	75.1	64.59	3.576	50	57.45	12.82
111	2008	227	1745	69.96	81.4	4.938	82.3	38.96	12.78
111	2008	227	1800	65.97	87.8	2.15	311.8	55.46	12.76
111	2008	227	1815	65.6	89.8	3.628	302	23.72	12.72
111	2008	227	1830	65.78	90.2	3.18	7.45	51.19	12.71
111	2008	227	1845	65.7	91	2.929	10.92	27.68	12.7
111	2008	227	1900	65.53	91.3	1.107	54.89	28.17	12.69
111	2008	227	1915	65.24	91.8	0.892	112.2	26.24	12.68
111	2008	227	1930	65.42	91.8	2.713	8.95	31.52	12.68
111	2008	227	1945	65.05	91.7	4.79	358.1	21.64	12.68
111	2008	227	2000	64.73	91.8	3.109	12.31	25.02	12.67
111	2008	227	2015	64.58	92.4	1.397	152.5	51.51	12.67
111	2008	227	2030	64.58	92.5	1.636	151.8	28.5	12.67
111	2008	227	2045	64.75	92.7	2.801	7.39	23.83	12.65
111	2008	227	2100	64.77	93	2.616	0.597	25.09	12.65
111	2008	227	2115	64.73	93	2.816	359	22.72	12.65
111	2008	227	2130	64.83	92.6	2.939	335.6	22.54	12.64
111	2008	227	2145	65.01	88.2	3.569	307.9	29.19	12.63
111	2008	227	2200	65.9	87.3	3.108	299	30.21	12.63
111	2008	227	2215	65.72	88.7	1.909	1.793	39.11	12.63
111	2008	227	2230	65.49	88.8	1.614	337.7	21.3	12.63
111	2008	227	2245	65.06	90	1.367	71.6	30.5	12.62
111	2008	227	2300	64.73	91	1.804	45.62	42.05	12.62
111	2008	227	2315	64.74	91.1	1.576	17.87	33.3	12.61
111	2008	227	2330	64.87	90.6	3.013	352.9	25.53	12.6
111	2008	227	2345	65.21	89.9	3.444	358.3	19.56	12.6
111	2008	227	2400	65.6	88.5	4.375	355.4	21.64	12.6
111	2008	228	15	66.01	87.9	5.783	350.4	18.27	12.59
111	2008	228	30	66.19	88.3	5.657	354	19.82	12.59
111	2008	228	45	66.19	88.7	4.585	7.35	23.29	12.59
111	2008	228	100	66.04	89.6	3.718	6.168	25.45	12.58
111	2008	228	115	65.88	90.1	1.89	10.37	18.92	12.58
111	2008	228	130	65.77	90.8	1.336	2.671	23.1	12.57
111	2008	228	145	65.62	91.3	0.734	78.8	31.49	12.57
111	2008	228	200	65.47	91.5	0.089	137.3	8.66	12.57
111	2008	228	215	65.39	92	0.197	100.8	9.04	12.56
111	2008	228	230	65.25	92.2	0.716	139	24.43	12.55
111	2008	228	245	65.02	92.5	0.163	136.4	8.84	12.55
111	2008	228	300	65.01	92.9	0.377	23.67	40.38	12.54
111	2008	228	315	64.95	93.1	0	0	0	12.54
111	2008	228	330	64.93	93.1	0.12	36.44	14.63	12.53
111	2008	228	345	64.93	93.4	0.068	99	2.668	12.53
111	2008	228	400	65.08	93.7	0.129	125.6	12.28	12.53
111	2008	228	415	65.21	93.7	0	0	0	12.52
111	2008	228	430	65.23	93.8	0.744	177.7	20.74	12.52
111	2008	228	445	65.22	93.9	0.376	100.2	19.65	12.51
111	2008	228	500	65.15	94	0.494	139	35.66	12.51
111	2008	228	515	65.13	94	1.008	191.5	29.09	12.51
111	2008	228	530	65.04	94.1	0.581	229.9	11.43	12.51
111	2008	228	545	64.84	94.1	0.43	232.1	15.27	12.51
111	2008	228	600	64.68	94.1	0.268	177.9	6.124	12.51
111	2008	228	615	64.54	94.3	0.611	201.5	22.44	12.47

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	228	630	64.73	94.4	0.585	186.4	26.64	12.49
111	2008	228	645	64.91	94.4	1.164	196.4	29.44	12.49
111	2008	228	700	65.07	94.5	0.153	158.7	8.44	12.49
111	2008	228	715	65.28	94.5	0.526	207.8	14.54	12.49
111	2008	228	730	65.85	94.8	1.113	172.4	23.71	12.6
111	2008	228	745	66.54	93.6	1.915	219	28.92	13.34
111	2008	228	800	67.16	93.2	1.436	200.6	32.26	13.14
111	2008	228	815	67.75	92.3	1.126	167.7	34.04	13.02
111	2008	228	830	67.97	91.5	2.081	146.3	28.68	13.05
111	2008	228	845	68.52	89.8	1.966	190.5	32.99	13.25
111	2008	228	900	69.31	85.2	2.137	171	44.64	13.35
111	2008	228	915	69.88	83.2	2.244	199.6	42.11	13.24
111	2008	228	930	70.4	82.3	1.743	165.1	41.01	13.18
111	2008	228	945	71.6	79	2.224	178	38.29	13.32
111	2008	228	1000	71.6	78.9	2.753	239.2	22.84	13.31
111	2008	228	1015	71.7	77.4	2.331	148.5	60.13	13.31
111	2008	228	1030	72.3	77.8	1.136	83.4	26.9	13.3
111	2008	228	1045	73.5	74.3	1.436	80.1	57.5	13.3
111	2008	228	1100	73.5	74.5	1	328	67.96	13.29
111	2008	228	1115	73.4	72.2	3.106	245.1	42.89	13.29
111	2008	228	1130	73.7	71.1	4.873	252.8	40.24	13.28
111	2008	228	1145	75.4	68.44	4.835	278.1	41.86	13.26
111	2008	228	1200	75.7	70.3	4.992	289.5	37.54	13.25
111	2008	228	1215	75.2	68.93	5.943	287.8	31.41	13.24
111	2008	228	1230	74.6	72.6	5.806	290.8	32.37	13.24
111	2008	228	1245	74.7	71.2	6.321	277.3	33.44	13.24
111	2008	228	1300	74.7	71.8	5.844	285.6	30.37	13.24
111	2008	228	1315	74.7	73.7	5.419	281.6	35.21	13.24
111	2008	228	1330	74.6	72.3	5.366	293.2	37.26	13.24
111	2008	228	1345	75.6	71.5	5.231	293.6	36	13.24
111	2008	228	1400	74.6	73.9	5.971	284.5	26.84	13.24
111	2008	228	1415	74.5	74.2	5.568	280.7	31.25	13.24
111	2008	228	1430	74.4	72	5.423	291.2	26.4	13.24
111	2008	228	1445	74.9	71.4	4.762	301.1	33.11	13.24
111	2008	228	1500	74.8	72.5	3.898	292	31.95	13.24
111	2008	228	1515	74.2	73.2	4.327	290.6	25.75	13.25
111	2008	228	1530	74.4	73.7	4.802	274.3	27.47	13.25
111	2008	228	1545	75.1	67.53	4.266	229.6	34.47	13.26
111	2008	228	1600	74.7	72.6	4.119	263.3	35.75	13.26
111	2008	228	1615	74.6	70.5	6.468	286.2	23.84	13.24
111	2008	228	1630	74.3	72.6	6.247	277	24.48	13.15
111	2008	228	1645	74	72.8	6.372	275.3	26.28	13.13
111	2008	228	1700	73.7	74.3	5.999	274.7	25.43	13.18
111	2008	228	1715	73.8	74.1	6.124	271.4	29.07	13.05
111	2008	228	1730	73.1	77.1	6.09	300.2	20.64	13.06
111	2008	228	1745	73.2	75.1	5.074	301.7	29.49	13.31
111	2008	228	1800	73.4	71.6	5.193	296.2	21.73	13.21
111	2008	228	1815	73.6	71.8	4.53	302.8	29.74	12.92
111	2008	228	1830	73.1	72.9	5.183	315	22.86	12.81
111	2008	228	1845	72.4	74.6	4.909	327	17.83	12.77
111	2008	228	1900	71.9	75.6	3.224	11.09	50.55	12.76
111	2008	228	1915	71.4	77.1	1.629	75.7	21.06	12.74
111	2008	228	1930	71	74.9	2.705	89.1	31.72	12.73
111	2008	228	1945	69.61	75	2.808	100.1	46.56	12.73
111	2008	228	2000	68.16	78.1	3.351	127.4	40.53	12.72
111	2008	228	2015	67.68	78.5	2.483	127.5	49.24	12.71
111	2008	228	2030	67.38	77.2	1.589	144.8	37.5	12.71
111	2008	228	2045	67.36	77.6	1.641	105.3	46.33	12.71
111	2008	228	2100	66.76	82.2	1.333	86.7	27.05	12.71
111	2008	228	2115	65.92	86.8	1.425	174	53.28	12.69

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	228	2130	65.35	88.6	1.169	67.88	40.02	12.69
111	2008	228	2145	65.12	89.7	1.706	86.7	29.84	12.68
111	2008	228	2200	65.06	90.8	1.017	54.53	34.4	12.68
111	2008	228	2215	65.1	91.5	1.491	354	29.96	12.68
111	2008	228	2230	65.09	92.2	2.378	353.1	26.32	12.67
111	2008	228	2245	64.97	92.8	1.366	333.1	24.93	12.67
111	2008	228	2300	65.03	93.2	1.345	310.8	29.66	12.67
111	2008	228	2315	65.33	93.4	0.458	42.03	20.86	12.65
111	2008	228	2330	65.48	93.5	0.339	331.3	23.83	12.65
111	2008	228	2345	65.51	93.2	0.854	310.7	17.2	12.65
111	2008	228	2400	65.54	92.8	2.255	351.3	74.4	12.65
111	2008	229	15	65.33	93.5	1.58	85.7	22.68	12.65
111	2008	229	30	65.44	93.5	0.605	95.2	21.84	12.64
111	2008	229	45	65.34	93.5	1.938	98	37.04	12.64
111	2008	229	100	64.94	93.5	1.788	113.4	36.98	12.63
111	2008	229	115	64.56	93.8	1.801	126.7	45.03	12.63
111	2008	229	130	64.32	93.7	1.48	121.6	38.46	12.63
111	2008	229	145	64.18	93.9	1.267	80.5	40.74	12.63
111	2008	229	200	64.16	94	0.97	89.4	34.93	12.62
111	2008	229	215	64	94.1	0.687	99	26.71	12.61
111	2008	229	230	63.97	94	0.848	117.7	40.4	12.61
111	2008	229	245	64.03	94.1	1.309	119.9	36.34	12.61
111	2008	229	300	64.19	94.2	0.998	117.6	33.14	12.6
111	2008	229	315	64.16	94	0.568	86.2	23.63	12.6
111	2008	229	330	63.97	94	0.329	86.4	26.3	12.6
111	2008	229	345	63.64	94.1	0.07	75.7	1.877	12.59
111	2008	229	400	63.28	94.2	0.009	50.49	0	12.59
111	2008	229	415	62.99	94.2	0.355	62.57	7.94	12.57
111	2008	229	430	62.78	94.2	0.175	67.56	4.461	12.57
111	2008	229	445	62.6	94.6	1.213	70.9	19.61	12.57
111	2008	229	500	62.61	94.5	0.892	73.9	14.45	12.56
111	2008	229	515	62.56	94.6	1.179	71.2	24.38	12.56
111	2008	229	530	62.48	94.7	0.612	70.8	10.66	12.55
111	2008	229	545	62.23	94.7	na	na	na	12.55
111	2008	229	600	61.89	94.9	na	na	na	12.54
111	2008	229	615	61.88	94.8	0.2	73.1	11.14	12.53
111	2008	229	630	61.84	94.9	0.58	76.6	14.91	12.53
111	2008	229	645	62.27	95	0.489	53	30.92	12.7
111	2008	229	700	62.73	95.2	1.578	89	24.26	13.26
111	2008	229	715	63.52	95.1	1.911	70	20.8	13.43
111	2008	229	730	64.14	94.8	1.94	74.7	30.1	13.41
111	2008	229	745	64.81	94.5	2.218	75.8	29.18	13.41
111	2008	229	800	65.53	94.3	2.479	89.2	30.15	13.4
111	2008	229	815	66.64	93.5	2.378	92	49	13.39
111	2008	229	830	67.4	91.6	3.006	80.1	39.18	13.38
111	2008	229	845	68.08	88.3	2.395	92.7	51.3	13.36
111	2008	229	900	69.17	85.1	2.588	71.5	34.42	13.35
111	2008	229	915	68.92	83.5	2.046	122.4	52.01	13.34
111	2008	229	930	69.05	79.8	2.433	137.7	51.2	13.33
111	2008	229	945	70.8	72.5	2.47	120.4	59.6	13.32
111	2008	229	1000	71.4	72	3.696	149.9	43.3	13.31
111	2008	229	1015	72.7	68.6	3.303	131.3	49.85	13.3
111	2008	229	1030	73.2	65.83	3.638	138	50.9	13.29
111	2008	229	1045	73.5	66.2	3.239	108.9	59.83	13.28
111	2008	229	1100	74.2	61.71	3.741	108.1	51.16	13.26
111	2008	229	1115	75.7	59.06	3.243	138.8	59.66	13.26
111	2008	229	1130	76.6	57.42	3.815	167.5	47.58	13.25
111	2008	229	1145	76.8	55.38	3.718	112.4	59.49	13.24
111	2008	229	1200	77.4	52.97	3.596	119.8	59.34	13.23
111	2008	229	1215	77.2	52.34	3.404	128.6	62.21	13.22

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	229	1230	78.1	48.2	2.617	106.1	58.42	13.16
111	2008	229	1245	78.4	48.4	3.432	66.22	43.7	13.21
111	2008	229	1300	78.9	44.75	4.069	84.8	47.21	13.21
111	2008	229	1315	79.1	41.31	4.105	49.63	51.06	13.21
111	2008	229	1330	79.7	41.78	4.313	52.7	47.12	13.19
111	2008	229	1345	80.3	40.84	3.988	80.1	51.25	13.19
111	2008	229	1400	80.2	39.17	3.524	86.5	49.47	13.19
111	2008	229	1415	80.3	43.78	4.806	67.61	28.25	12.99
111	2008	229	1430	80.1	40.78	4.218	64.26	54.04	13.01
111	2008	229	1445	80	40.91	4.82	77.1	44.07	12.96
111	2008	229	1500	79	35.49	5.187	68.3	36.08	13
111	2008	229	1515	80.6	39.47	4.526	87.5	57.75	12.92
111	2008	229	1530	81.1	35.56	4.677	86.2	45.26	12.92
111	2008	229	1545	81.2	36.83	4.877	59	38.21	12.89
111	2008	229	1600	81.2	36.4	4.504	75.3	42.1	12.89
111	2008	229	1615	80.9	36.63	4.029	60.63	44.48	12.89
111	2008	229	1630	80.4	44.15	4.307	8.22	27.87	12.89
111	2008	229	1645	80.6	43.78	5.103	353.3	35	12.96
111	2008	229	1700	80.5	41.81	3.608	23.94	50.38	12.95
111	2008	229	1715	81.5	35.8	3.253	15.59	56.58	12.89
111	2008	229	1730	81.9	34.76	4.111	73	39.01	12.84
111	2008	229	1745	81.3	33.16	3.737	68.5	47.47	12.83
111	2008	229	1800	80.8	34.86	4.579	84.4	45.25	12.79
111	2008	229	1815	80.5	35.36	3.39	83	45.79	12.78
111	2008	229	1830	78.4	48.1	4.337	158.3	34.4	12.77
111	2008	229	1845	76.7	50.82	2.854	165.2	34.84	12.76
111	2008	229	1900	75.5	53.96	2.281	165.1	29.21	12.76
111	2008	229	1915	74.6	54.8	1.087	170.8	30.24	12.75
111	2008	229	1930	74.2	54.13	0.273	164	28.83	12.74
111	2008	229	1945	73	59.08	0.462	59.45	11.89	12.73
111	2008	229	2000	71.4	62.29	0.155	69.21	5.5	12.73
111	2008	229	2015	70.3	66.88	0.114	54.88	6.293	12.72
111	2008	229	2030	69.2	67.39	0.734	56.9	15.7	12.71
111	2008	229	2045	68.67	69.73	0.6	52.71	15.73	12.71
111	2008	229	2100	67.92	73.1	0.095	39.8	5.952	12.7
111	2008	229	2115	67.14	75.4	0.036	58.99	3.684	12.69
111	2008	229	2130	66.52	75.7	0.213	75.6	3.369	12.68
111	2008	229	2145	66.55	76.7	0.049	83.6	1.227	12.67
111	2008	229	2200	65.89	79.3	na	na	na	12.67
111	2008	229	2215	65.53	80.1	0.009	82.1	0	12.66
111	2008	229	2230	64.62	81.9	na	na	na	12.65
111	2008	229	2245	64.2	82.4	0.133	66.45	4.801	12.64
111	2008	229	2300	64.09	82.6	0.056	57.16	1.887	12.64
111	2008	229	2315	63.94	82.7	0.076	53.86	2.52	12.63
111	2008	229	2330	64.02	81.2	0.756	57.28	17.54	12.63
111	2008	229	2345	64.54	78.7	1.099	52.35	20.21	12.62
111	2008	229	2400	64.69	78.6	0.727	58.24	15.63	12.62
111	2008	230	15	64.38	78.8	1.013	69.73	14.3	12.61
111	2008	230	30	64.27	79.5	0.092	67.87	2.496	12.6
111	2008	230	45	63.73	81.5	0.194	57.41	7.25	12.6
111	2008	230	100	63.42	81.3	0.101	83.6	4.519	12.59
111	2008	230	115	63.41	79.6	1.206	65.88	16.87	12.59
111	2008	230	130	63.63	79.5	0.612	37.5	16.38	12.58
111	2008	230	145	63.42	79.4	0.386	37.99	13.72	12.57
111	2008	230	200	63.2	80.5	0.39	68.67	9.15	12.57
111	2008	230	215	62.96	81.9	0.054	28.25	8.45	12.56
111	2008	230	230	62.5	83.1	0.27	63.6	11.97	12.56
111	2008	230	245	62.26	83.5	0.299	59.03	5.322	12.55
111	2008	230	300	61.94	84.5	0.322	56.32	11	12.55
111	2008	230	315	61.82	84.9	0.018	52.22	0.603	12.55

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	230	330	61.68	85.3	0.654	55.87	21.53	12.53
111	2008	230	345	61.76	84.8	0.497	37.49	20.48	12.53
111	2008	230	400	61.55	85.7	0.235	65.31	11.51	12.53
111	2008	230	415	61.31	85.5	0.953	63.87	17.52	12.52
111	2008	230	430	61.64	84.9	0.526	62.77	16.31	12.51
111	2008	230	445	61.44	85.4	0.29	58.41	9.27	12.51
111	2008	230	500	61.17	86.1	0.267	60.62	10.98	12.51
111	2008	230	515	61.02	86.5	0.402	54.57	9.34	12.51
111	2008	230	530	60.71	87.4	0.219	45.22	9.35	12.5
111	2008	230	545	60.64	87.6	0.188	64.7	5.518	12.5
111	2008	230	600	60.37	87.8	1.348	57.98	14.99	12.5
111	2008	230	615	60.33	87.9	0.81	53.21	12.19	12.5
111	2008	230	630	60.66	86.8	1.176	59.16	15.38	12.5
111	2008	230	645	61.82	83.1	1.896	63.26	16.16	12.93
111	2008	230	700	63.39	78.6	2.667	62.84	20.64	13.46
111	2008	230	715	65.03	74.3	2.921	62.32	19.18	13.45
111	2008	230	730	66.59	70.4	2.354	64.32	30.48	13.43
111	2008	230	745	67.92	68.54	1.983	70.8	31.13	13.41
111	2008	230	800	69.4	64.78	2.304	78.8	30.21	13.39
111	2008	230	815	70.4	63.34	3.156	83.2	32.85	13.37
111	2008	230	830	71.7	60.25	3.356	75.5	34.35	13.35
111	2008	230	845	72.6	58.04	3.749	79.4	38.61	13.33
111	2008	230	900	73.6	58.07	3.42	63.56	28.33	13.32
111	2008	230	915	73.8	55.43	4.275	85.1	36.46	13.3
111	2008	230	930	75.5	51.52	3.078	66.82	51.83	13.29
111	2008	230	945	76.4	48.57	3.406	77.3	55.17	13.28
111	2008	230	1000	77.1	47.93	3.604	89.2	46.19	13.26
111	2008	230	1015	78.2	48.3	3.247	82.9	50.09	13.25
111	2008	230	1030	78.4	42.98	4.395	68.22	33.78	13.24
111	2008	230	1045	78.6	41.68	4.192	60.73	38.02	13.23
111	2008	230	1100	80	39.77	3.638	64.48	47.81	13.23
111	2008	230	1115	80.7	36.96	4.41	52.88	51.5	13.22
111	2008	230	1130	82.4	35.53	3.825	46.03	44.23	13.2
111	2008	230	1145	82.1	32.29	4.621	68.54	48.6	13.2
111	2008	230	1200	81.4	31.22	4.089	86.3	41.9	13.2
111	2008	230	1215	81.8	29.98	5.308	82.3	44.94	13.19
111	2008	230	1230	81.8	32.91	4.47	96.8	43.73	13.19
111	2008	230	1245	82.6	31.34	5.302	57.87	40.31	13.19
111	2008	230	1300	83	30.94	5.213	67.95	37.46	13.18
111	2008	230	1315	83.3	30.47	4.167	63.81	46.27	13.18
111	2008	230	1330	83.6	28.47	5.099	75.9	36.52	13.17
111	2008	230	1345	84	30.47	4.166	43.63	53.63	13.17
111	2008	230	1400	84.8	30.17	5.062	39.31	43.72	13.16
111	2008	230	1415	84.3	30.4	3.962	57.81	68.97	13.16
111	2008	230	1430	84.9	36.92	4.923	36.26	51.88	13.15
111	2008	230	1445	85.1	34.65	4.589	358.1	36.75	13.07
111	2008	230	1500	83.5	38.42	7.24	355.2	30.28	12.99
111	2008	230	1515	81.6	46.08	6.902	348	26.2	12.94
111	2008	230	1530	80.4	49.59	8.13	350.3	27.54	12.93
111	2008	230	1545	80.7	50.7	5.727	341.7	27.18	12.96
111	2008	230	1600	81.6	41.01	7.08	355.7	26.13	12.94
111	2008	230	1615	82.5	39.71	7.5	2.447	28.4	12.91
111	2008	230	1630	82	45.76	6.716	354.5	22.26	12.89
111	2008	230	1645	81	49.06	6.801	348.9	25.84	12.87
111	2008	230	1700	80.1	51.37	7.53	353.7	28.18	12.85
111	2008	230	1715	79	54.45	7.81	349	23.16	12.83
111	2008	230	1730	78.3	59.36	7.76	350.3	26.82	12.81
111	2008	230	1745	77.4	59.4	7.5	349.2	25.32	12.78
111	2008	230	1800	77.6	58.57	5.898	2.123	26.13	12.77
111	2008	230	1815	77.8	59.24	5.264	359.3	32.69	12.76

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	230	1830	76.8	58.21	5.904	354.8	21.82	12.75
111	2008	230	1845	76.4	61.02	5.209	354.5	21.71	12.74
111	2008	230	1900	76	62.72	5.673	354.8	17.89	12.74
111	2008	230	1915	74.7	65.3	5.151	352	26.35	12.72
111	2008	230	1930	73.9	65.06	4.057	359.6	27.55	12.73
111	2008	230	1945	73.6	66.57	3.193	346.6	22.77	12.73
111	2008	230	2000	73.2	69.51	4.526	356.1	18.68	12.72
111	2008	230	2015	72.7	71.8	3.847	358	22.3	12.71
111	2008	230	2030	72.5	72.8	4.039	3.559	26.05	12.7
111	2008	230	2045	72.4	74.1	4.359	358.2	26.97	12.7
111	2008	230	2100	72.3	75.7	3.31	351.3	19.76	12.69
111	2008	230	2115	72.1	77.4	3.384	353.8	23.9	12.68
111	2008	230	2130	71.9	79	2.568	352.9	30.88	12.68
111	2008	230	2145	71.7	80.5	1.785	356.1	25.91	12.67
111	2008	230	2200	71.4	81.3	3.147	1.941	27.31	12.67
111	2008	230	2215	71.6	81.3	3.162	2.912	23.46	12.67
111	2008	230	2230	71.6	82.2	1.686	8.6	20	12.66
111	2008	230	2245	71.3	82.4	1.91	0.239	24.71	12.65
111	2008	230	2300	71.2	81.5	2.366	2.443	22.99	12.65
111	2008	230	2315	71.1	80.6	1.684	10.43	24.1	12.64
111	2008	230	2330	71.2	79.3	2.882	358	18.9	12.64
111	2008	230	2345	71.2	77.6	2.416	3.839	26.75	12.64
111	2008	230	2400	71.1	76.3	2.352	5.999	23.23	12.63
111	2008	231	15	71.1	75.6	2.44	13.95	30.92	12.63
111	2008	231	30	70.8	75.9	1.489	15.43	24.85	12.63
111	2008	231	45	70.3	77.3	0.159	17.84	9.67	12.63
111	2008	231	100	69.64	78.1	0.28	43.76	12.56	12.61
111	2008	231	115	69.12	78.8	0.468	33.14	18.25	12.61
111	2008	231	130	68.87	78.4	1.117	57.39	26.11	12.61
111	2008	231	145	68.59	79	0.992	10.65	18.82	12.61
111	2008	231	200	68.27	79.2	2.127	13.82	34.48	12.61
111	2008	231	215	68.58	78.2	2.159	12.05	23.33	12.61
111	2008	231	230	68.7	76.3	3.056	6.235	23.15	12.6
111	2008	231	245	68.89	76.4	2.635	7.69	23.38	12.6
111	2008	231	300	68.64	76.8	1.239	38.2	35.88	12.6
111	2008	231	315	68.25	77.2	1.37	25.67	33.44	12.59
111	2008	231	330	67.91	77.6	1.111	33.15	34.83	12.59
111	2008	231	345	67.41	78.8	2.121	357.9	19.16	12.59
111	2008	231	400	67.52	79.8	2.064	10.96	24.06	12.58
111	2008	231	415	67.38	80.9	0.867	63.03	28.41	12.58
111	2008	231	430	66.75	82.2	0.181	15.97	6.682	12.57
111	2008	231	445	66.31	82.7	0.183	57.72	15.42	12.57
111	2008	231	500	66	83.5	0.775	9.9	29.64	12.57
111	2008	231	515	65.45	84.5	0.755	357.5	19.7	12.56
111	2008	231	530	65.4	83.7	1.481	10.93	24.7	12.55
111	2008	231	545	65.84	82.3	0.793	44.84	23.79	12.55
111	2008	231	600	65.73	83	0.655	29.31	14.82	12.55
111	2008	231	615	65.71	83.2	0.056	35.56	6.246	12.55
111	2008	231	630	65.75	82.8	0.103	90	3.478	12.55
111	2008	231	645	66.05	82.8	0.188	37.29	12.36	12.79
111	2008	231	700	67.02	81.3	1.426	38.21	19.12	13.41
111	2008	231	715	68.54	77.3	1.878	67.33	25.32	13.4
111	2008	231	730	70.1	73.7	1.634	25.28	42.7	13.38
111	2008	231	745	71.4	70.8	1.724	38.22	36.05	13.37
111	2008	231	800	72.5	67.68	2.5	44.69	37.9	13.34
111	2008	231	815	73.5	65.3	2.179	24.25	31.27	13.32
111	2008	231	830	74.9	59.98	1.8	45.34	31.87	13.32
111	2008	231	845	76	59.38	2.945	56.51	30.5	13.3
111	2008	231	900	77.2	55.1	2.826	46.23	31.71	13.28
111	2008	231	915	78.2	55.85	2.806	33.06	55.6	13.27

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	231	930	79.1	52.94	3.322	45.86	37.57	13.26
111	2008	231	945	80.7	49.03	3.096	19.92	36.16	13.24
111	2008	231	1000	81.7	48.7	3.299	56.62	38.44	13.23
111	2008	231	1015	82.6	47.69	3.005	21.86	35.14	13.22
111	2008	231	1030	84.2	43.88	3.519	12.43	34.88	13.21
111	2008	231	1045	84.8	43.15	4.049	11.21	35.44	13.19
111	2008	231	1100	85.3	48.99	5.01	343.7	34.3	13.19
111	2008	231	1115	84.7	48.62	3.884	341	42.21	13.19
111	2008	231	1130	85.1	49.12	5.769	332.9	32.56	13.18
111	2008	231	1145	84.4	51.66	5.689	339.9	37.09	13.18
111	2008	231	1200	83.7	51.46	5.775	351.6	32.28	13.18
111	2008	231	1215	83.8	49.56	7.39	346.3	25.51	13.18
111	2008	231	1230	83.9	50.13	6.215	349.6	33.75	13.18
111	2008	231	1245	84.5	47.12	6.201	354.7	33.09	13.18
111	2008	231	1300	83.5	48.15	7.22	349.5	26.29	13.18
111	2008	231	1315	82.5	50.63	7.71	350	31.96	13.18
111	2008	231	1330	82.2	52.4	7.4	348.7	29.91	13.18
111	2008	231	1345	83.5	51.27	6.472	343.2	29.41	13.17
111	2008	231	1400	82.1	54.01	7.4	334.7	23.87	13.18
111	2008	231	1415	82.9	49.77	7.9	349.9	33.31	13.18
111	2008	231	1430	83.3	48.53	7.06	346.4	27.68	13.18
111	2008	231	1445	83.6	50.37	6.74	349	33.41	13.19
111	2008	231	1500	82.3	54.54	7.87	345.5	27.23	13.16
111	2008	231	1515	81.8	54.11	8.84	340	19.54	13.15
111	2008	231	1530	81.8	52.57	8.38	347.1	23.28	13.09
111	2008	231	1545	82	56.72	7.95	341.3	27.52	13.08
111	2008	231	1600	81.9	57.79	6.749	349.3	25.59	13.05
111	2008	231	1615	81.7	57.42	8.14	345.2	29.4	13
111	2008	231	1630	80.9	60.23	7.39	340.2	24.96	12.97
111	2008	231	1645	81.2	61.6	6.813	353.6	28.85	12.94
111	2008	231	1700	80.5	66.24	7.03	351.7	28.77	12.9
111	2008	231	1715	79.6	64.47	7.3	352.1	28.03	12.88
111	2008	231	1730	79.1	66.11	8.36	350.3	21.04	12.85
111	2008	231	1745	78.7	67.39	7.15	348.1	32	12.82
111	2008	231	1800	78.1	66.63	8.31	358.5	17.6	12.78
111	2008	231	1815	77.5	67.9	7.79	347.7	18.66	12.76
111	2008	231	1830	77.1	69.61	6.934	348.9	20.26	12.76
111	2008	231	1845	76.2	71.4	7.64	344.8	27.04	12.74
111	2008	231	1900	75.7	69.91	6.712	349.9	25.24	12.73
111	2008	231	1915	75.3	70.2	7.2	352.6	22.63	12.73
111	2008	231	1930	74.8	71.1	7.14	351.7	27.24	12.73
111	2008	231	1945	74.5	72.1	7.78	353.5	27.68	12.72
111	2008	231	2000	74.1	75	7.69	353.2	21.6	12.72
111	2008	231	2015	73.7	74.6	7.57	348.6	28.77	12.72
111	2008	231	2030	73.7	74.4	7.72	352.9	21.3	12.71
111	2008	231	2045	73.7	74.4	7.33	355.9	22.78	12.71
111	2008	231	2100	73.7	74.4	7.82	0.545	22.58	12.71
111	2008	231	2115	73.6	74.9	6.66	356	27.55	12.7
111	2008	231	2130	73.5	75.9	6.563	357.5	25.62	12.69
111	2008	231	2145	73.4	77.2	6.257	2.614	27.5	12.69
111	2008	231	2200	73.3	79.2	6.287	0.895	27.27	12.68
111	2008	231	2215	73	80.9	5.699	356.8	22.97	12.68
111	2008	231	2230	72.8	81.4	5.169	355.6	29.23	12.68
111	2008	231	2245	72.7	81.2	5.79	8.47	29.06	12.68
111	2008	231	2300	72.7	80.5	6.003	2.286	29.58	12.67
111	2008	231	2315	72.6	79.4	4.685	5.328	27.6	12.66
111	2008	231	2330	72.6	78.3	4.536	9.66	29.71	12.66
111	2008	231	2345	72.4	77.3	4.53	8.62	29.37	12.65
111	2008	231	2400	72.4	77.4	4.49	9.23	23.88	12.65
111	2008	232	15	72.2	77.4	4.275	13.22	30.1	12.64

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	232	30	71.9	77.7	3.849	3.949	30.35	12.64
111	2008	232	45	71.8	79.3	4.301	6.215	26.39	12.63
111	2008	232	100	71.6	80.2	3.769	11.95	33.14	12.63
111	2008	232	115	71.5	80.7	4.144	10.2	31.68	12.63
111	2008	232	130	71.4	81	3.124	14.42	32.96	12.62
111	2008	232	145	71.1	81.2	3.749	7.41	27.51	12.61
111	2008	232	200	71.1	81.2	4.416	2.012	23.29	12.61
111	2008	232	215	71	81.8	3.616	8.86	34.25	12.6
111	2008	232	230	71	82.6	4.629	8.48	29.54	12.6
111	2008	232	245	70.9	83.2	4.23	10.66	36.65	12.6
111	2008	232	300	70.9	83.5	3.712	8.71	31	12.59
111	2008	232	315	70.7	84	3.596	0.823	25.3	12.59
111	2008	232	330	70.5	84.3	2.408	11.48	26.04	12.58
111	2008	232	345	70.2	84.4	2.81	11.48	31.92	12.57
111	2008	232	400	69.97	84.6	1.908	5.519	24.58	12.57
111	2008	232	415	69.63	85	1.95	7.45	25.9	12.56
111	2008	232	430	69.3	85.3	1.567	19.44	29.25	12.57
111	2008	232	445	69.05	85.4	2.182	1.879	30.11	12.55
111	2008	232	500	68.91	85.7	1.717	18.88	35.06	12.55
111	2008	232	515	68.73	86.4	2.959	353.6	22.28	12.55
111	2008	232	530	68.65	86.9	2.522	13.21	27.34	12.55
111	2008	232	545	68.82	86.8	3.307	9.07	21.34	12.54
111	2008	232	600	68.86	87.1	3.211	5.297	18.18	12.53
111	2008	232	615	68.86	87.4	2.543	13.54	27.74	12.53
111	2008	232	630	68.79	87.7	2.16	19.91	30.28	12.53
111	2008	232	645	68.97	87.6	2.162	24.68	35.33	12.59
111	2008	232	700	69.65	85.7	2.941	21.33	30.07	13.13
111	2008	232	715	70.7	83.1	2.816	15.43	21.34	13.36
111	2008	232	730	71.9	79.4	2.951	18.51	28.35	13.35
111	2008	232	745	73.1	75.1	3.173	31.67	39.55	13.34
111	2008	232	800	74.1	71.3	3.083	63.22	34.62	13.33
111	2008	232	815	75.4	68.81	3.268	56.89	35.12	13.31
111	2008	232	830	76.4	64.96	3.455	45.33	39.04	13.29
111	2008	232	845	77.3	62.38	3.958	53.36	39.24	13.28
111	2008	232	900	78.6	57.89	3.193	63.5	45.09	13.26
111	2008	232	915	80.1	54.25	2.853	51.35	40.86	13.26
111	2008	232	930	80.7	50.64	4.736	65.21	40.2	13.24
111	2008	232	945	81.5	46.83	4.949	81.5	41.04	13.24
111	2008	232	1000	82.6	43.45	4.738	76.8	43.52	13.22
111	2008	232	1015	84	44.05	4.478	81.9	45.42	13.2
111	2008	232	1030	83.6	44.55	4.25	83.7	42.31	13.21
111	2008	232	1045	82.9	44.21	4.488	77.8	41.55	13.19
111	2008	232	1100	83.3	44.04	4.252	86.8	48.62	13.19
111	2008	232	1115	83.9	42.74	4.524	88.5	50.93	13.18
111	2008	232	1130	84.1	41.9	4.814	92.6	50.14	13.18
111	2008	232	1145	85	41.13	4.542	77.7	46.52	13.18
111	2008	232	1200	84.8	43.03	4.835	72.3	47.12	13.17
111	2008	232	1215	85.8	40.26	4.266	75.1	46.13	13.16
111	2008	232	1230	86	40.06	4.643	84.5	43.59	13.16
111	2008	232	1245	86	42.8	4.536	83.4	57.66	13.15
111	2008	232	1300	86.3	42.06	4.839	94.2	52.94	13.15
111	2008	232	1315	84.6	42.97	5.518	110.7	49.4	13.15
111	2008	232	1330	84.8	43.37	4.756	86.7	55.99	13.15
111	2008	232	1345	85	44.27	6.694	89.5	38.38	13.15
111	2008	232	1400	84.1	46.98	5.719	78.4	38.34	13.15
111	2008	232	1415	83.7	45.54	6.483	75.7	34.3	13.16
111	2008	232	1430	84.8	42.17	5.902	77.4	37.28	13.15
111	2008	232	1445	83.8	44.54	6.021	84.3	40.16	13.15
111	2008	232	1500	81.6	46.81	5.983	85.4	37.17	13.16
111	2008	232	1515	81.4	46.95	5.642	93.6	40.58	13.18

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	232	1530	83	46.89	5.669	104.7	45.24	13.19
111	2008	232	1545	81.4	50.13	5.918	95	43.85	13.19
111	2008	232	1600	81.3	47.12	5.651	90.7	40.89	13.06
111	2008	232	1615	82.4	43.35	5.824	109.8	44.2	12.95
111	2008	232	1630	83	50.5	5.802	113.5	57.1	13
111	2008	232	1645	80.1	52.17	4.889	128.3	43.09	12.92
111	2008	232	1700	80.5	51.87	5.775	139.3	43.05	12.9
111	2008	232	1715	80.3	49.06	4.982	135.8	42.79	12.86
111	2008	232	1730	79.6	48.56	4.976	140.7	37.6	12.81
111	2008	232	1745	78.8	50.53	5.35	156.3	35.71	12.8
111	2008	232	1800	77.7	47.57	6.315	139.8	45.41	12.78
111	2008	232	1815	77.1	47.57	6.213	140.4	34.9	12.76
111	2008	232	1830	76.6	48.11	5.274	149.3	32.2	12.75
111	2008	232	1845	75.9	47.71	5.671	136.4	35.98	12.73
111	2008	232	1900	74.7	48.95	5.375	144.1	35.49	12.72
111	2008	232	1915	73.6	50.89	5.338	138.5	42.73	12.72
111	2008	232	1930	72.4	50.89	5.495	138.5	36.42	12.72
111	2008	232	1945	71.4	51.02	4.964	148.2	33.17	12.71
111	2008	232	2000	70.6	47.28	5.435	141.2	28.75	12.71
111	2008	232	2015	70.2	44.08	5.187	142.2	42.61	12.7
111	2008	232	2030	69.65	46.99	3.428	144.5	38.64	12.69
111	2008	232	2045	68.98	48.86	3.158	144	35.37	12.68
111	2008	232	2100	68.38	52.17	3.966	132.9	36.68	12.68
111	2008	232	2115	68	54.01	4.688	137.7	40.66	12.67
111	2008	232	2130	67.63	54.35	4.043	142.1	40.99	12.67
111	2008	232	2145	67.34	53.95	4.675	138.4	44.29	12.66
111	2008	232	2200	67.05	54.82	3.598	135	58.98	12.65
111	2008	232	2215	66.6	55.52	3.512	118.9	34.36	12.65
111	2008	232	2230	66.34	55.49	3.962	138.3	34.66	12.65
111	2008	232	2245	66.14	55.06	4.131	136	37.34	12.64
111	2008	232	2300	66.01	53.96	4.432	149.8	40.54	12.63
111	2008	232	2315	65.83	54.13	5	143.5	36.27	12.63
111	2008	232	2330	65.59	55.44	4.835	141	27.56	12.63
111	2008	232	2345	65.18	56.77	3.872	137.3	35.02	12.61
111	2008	232	2400	64.74	57.21	2.922	132.2	52.45	12.61
111	2008	233	15	64.33	57.71	2.99	141.8	43.7	12.6
111	2008	233	30	64.01	58.01	3.549	122	39.15	12.6
111	2008	233	45	63.73	58.58	3.849	138.3	36.64	12.6
111	2008	233	100	63.37	60.19	3.96	134.5	34.1	12.59
111	2008	233	115	62.97	61.66	3.581	142.2	26.45	12.58
111	2008	233	130	62.54	63.93	1.98	159.5	27.87	12.58
111	2008	233	145	61.98	65.81	1.637	148.5	27.43	12.57
111	2008	233	200	61.62	67.15	1.666	158.9	29.51	12.57
111	2008	233	215	61.34	68.35	2.365	147.5	29.71	12.56
111	2008	233	230	61.21	66.01	3.243	144.5	34.39	12.56
111	2008	233	245	61.17	64.14	3.38	149.9	23.47	12.55
111	2008	233	300	60.99	63.27	2.524	152.3	34.16	12.55
111	2008	233	315	60.69	63.4	2.704	151.2	26.16	12.55
111	2008	233	330	60.05	65.64	0.813	154.9	17.27	12.54
111	2008	233	345	59.31	66.98	0.445	145.3	14.4	12.53
111	2008	233	400	58.77	68.36	0.338	140.4	14.7	12.52
111	2008	233	415	58.24	71	na	na	na	12.52
111	2008	233	430	57.26	74.8	0.027	344.8	1.637	12.51
111	2008	233	445	56.18	78.3	0.053	38.28	1.161	12.5
111	2008	233	500	55.64	80	0.1	37.9	5.954	12.5
111	2008	233	515	54.9	82.2	na	na	na	12.48
111	2008	233	530	54.38	84.4	0.422	70.1	11.08	12.48
111	2008	233	545	54.17	86	0.439	69.65	8.96	12.47
111	2008	233	600	54.07	86.4	0.679	71.6	10.89	12.47
111	2008	233	615	53.82	87.1	0.204	63.74	6.24	12.46

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	233	630	53.66	88	0.253	53.4	10.84	12.45
111	2008	233	645	54.15	88.4	0.28	64.87	10.32	12.55
111	2008	233	700	55.7	85.1	0.733	71.8	18.56	13.54
111	2008	233	715	57.9	74.5	1.618	96.1	34.23	13.53
111	2008	233	730	59.9	69.83	2.13	111	42.87	13.51
111	2008	233	745	62.04	63.57	1.124	135.1	36.48	13.49
111	2008	233	800	63.63	59.12	2.905	137.7	41.14	13.46
111	2008	233	815	64.2	54.29	3.946	145.9	34.23	13.44
111	2008	233	830	64.97	53.15	4.019	159.7	40.37	13.43
111	2008	233	845	65.59	53.14	4.825	153.1	32.03	13.4
111	2008	233	900	65.77	47.86	4.152	151.3	38.69	13.4
111	2008	233	915	66.47	43.91	5.904	170.9	27.96	13.28
111	2008	233	930	67.27	40.73	5.211	172.8	32.41	13.37
111	2008	233	945	68.05	38.62	4.522	154.3	39.95	13.36
111	2008	233	1000	68	41.76	6.569	152.1	32.93	13.35
111	2008	233	1015	68.19	41.06	5.268	161.3	33.98	13.34
111	2008	233	1030	69.74	36.94	4.428	156.5	43.7	13.34
111	2008	233	1045	69.85	38.92	5.455	149.5	43.92	13.32
111	2008	233	1100	70.8	35.51	4.845	148.9	48.49	13.32
111	2008	233	1115	70.2	39.49	6.106	155	34.92	13.31
111	2008	233	1130	70.5	37.65	5.026	132.1	53.21	13.3
111	2008	233	1145	71.2	36.68	4.309	135.7	44.3	13.29
111	2008	233	1200	71.2	41.26	3.72	128.3	57.62	13.29
111	2008	233	1215	72.2	35.17	4.097	142.4	43.96	13.28
111	2008	233	1230	73.1	35.21	3.739	131.1	51.98	13.27
111	2008	233	1245	73.1	39.65	4.309	100.4	59.47	13.26
111	2008	233	1300	73.2	35.17	3.572	83.4	69.41	13.25
111	2008	233	1315	74.3	34.63	4.397	45.99	51.65	13.25
111	2008	233	1330	74	32.59	5.044	77.8	41.01	13.24
111	2008	233	1345	74.5	34.02	3.676	77.1	64.34	13.24
111	2008	233	1400	75.2	34.79	4.403	135	61.09	13.23
111	2008	233	1415	76.1	34.63	3.906	82.9	56.06	13.23
111	2008	233	1430	76.5	33.22	3.336	51.66	63.11	13.23
111	2008	233	1445	75.8	33.76	3.908	67.73	58.97	13.1
111	2008	233	1500	76.1	31.79	3.914	72.9	52.52	13.08
111	2008	233	1515	76.2	31.68	4.403	74	56.64	13.04
111	2008	233	1530	75.8	30.98	4.774	82.5	48.93	12.96
111	2008	233	1545	75.2	41.05	4.389	17.37	73.7	12.94
111	2008	233	1600	74.2	38.44	4.629	341.8	31.23	12.92
111	2008	233	1615	74.4	40.99	5.57	351.7	25.46	12.91
111	2008	233	1630	73.7	40.29	5.679	353	30.24	12.89
111	2008	233	1645	74.5	40.79	4.355	3.709	31.9	12.87
111	2008	233	1700	74.5	40.76	4.957	356.6	28.74	12.86
111	2008	233	1715	73.3	42.73	4.649	355.6	40.61	12.83
111	2008	233	1730	73.5	44.33	3.426	356.4	31.71	12.81
111	2008	233	1745	72.3	46.34	4.835	341.2	30.58	12.79
111	2008	233	1800	71.1	48.08	5.749	335.7	23.88	12.78
111	2008	233	1815	71.2	49.15	5.103	343.6	25.45	12.76
111	2008	233	1830	71	49.83	4.935	352.8	19.05	12.75
111	2008	233	1845	70.4	50.93	4.017	348.8	24.41	12.75
111	2008	233	1900	69.79	53.44	3.181	344.8	19.93	12.74
111	2008	233	1915	68.49	57.06	3.664	343.5	14.49	12.73
111	2008	233	1930	67.53	58.6	3.158	345.6	21.7	12.72
111	2008	233	1945	66.79	61.04	2.278	353.6	21.65	12.71
111	2008	233	2000	66.02	63.44	0.225	10.82	12.48	12.71
111	2008	233	2015	65.11	66.49	na	na	na	12.71
111	2008	233	2030	64.43	67.6	na	na	na	12.69
111	2008	233	2045	63.88	70.8	0.099	343.8	12.85	12.68
111	2008	233	2100	63.28	72.1	0.064	354.4	1.129	12.67
111	2008	233	2115	62.93	73	0.009	82.3	0	12.67

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	233	2130	62.5	74.7	0.009	57.43	0.002	12.66
111	2008	233	2145	61.99	76.2	0.203	12.49	19.89	12.65
111	2008	233	2200	62.12	74.5	0.373	67.51	14.48	12.65
111	2008	233	2215	62.39	74.6	0.305	60.29	12.53	12.64
111	2008	233	2230	61.99	75.8	0.013	70.9	0.008	12.64
111	2008	233	2245	61.58	77.6	0.162	71.7	4.849	12.63
111	2008	233	2300	61.23	78	0.058	84.9	1.747	12.63
111	2008	233	2315	61.33	78.1	na	na	na	12.62
111	2008	233	2330	61	79.6	na	na	na	12.61
111	2008	233	2345	60.42	80.6	0.122	68.42	2.097	12.61
111	2008	233	2400	60.18	81.1	na	na	na	12.6
111	2008	234	15	59.69	82.8	0.083	70.3	3.955	12.6
111	2008	234	30	59.19	84.1	na	na	na	12.59
111	2008	234	45	59.11	84.5	na	na	na	12.58
111	2008	234	100	59.12	84.7	na	na	na	12.58
111	2008	234	115	59.27	84.8	na	na	na	12.57
111	2008	234	130	59.17	85.3	na	na	na	12.56
111	2008	234	145	59.07	85.7	na	na	na	12.56
111	2008	234	200	59.07	85.6	na	na	na	12.55
111	2008	234	215	59.15	85.5	na	na	na	12.55
111	2008	234	230	58.98	86	na	na	na	12.55
111	2008	234	245	58.58	86.6	na	na	na	12.54
111	2008	234	300	58.22	87.2	na	na	na	12.53
111	2008	234	315	58.08	87.6	na	na	na	12.52
111	2008	234	330	57.78	88.2	na	na	na	12.52
111	2008	234	345	57.65	88.5	na	na	na	12.51
111	2008	234	400	57.52	88.9	na	na	na	12.5
111	2008	234	415	57.39	89.1	na	na	na	12.5
111	2008	234	430	57.17	89.4	na	na	na	12.48
111	2008	234	445	57.29	89.5	na	na	na	12.48
111	2008	234	500	57.49	89.3	na	na	na	12.47
111	2008	234	515	57.35	89.2	na	na	na	12.46
111	2008	234	530	56.99	89.5	na	na	na	12.46
111	2008	234	545	56.76	90.2	na	na	na	12.46
111	2008	234	600	56.9	90.3	na	na	na	12.46
111	2008	234	615	57.02	90.1	na	na	na	12.46
111	2008	234	630	57.1	90.2	na	na	na	12.46
111	2008	234	645	57.45	90.3	na	na	na	12.47
111	2008	234	700	58.6	88.4	0.64	75.6	18.68	13.34
111	2008	234	715	60.6	83.5	0.913	78.4	24.3	13.5
111	2008	234	730	63	77	1.311	65.73	23.55	13.48
111	2008	234	745	65.12	74	1.211	65.44	25.87	13.46
111	2008	234	800	66.71	74.6	1.549	120.8	44.59	13.43
111	2008	234	815	68.4	72.5	1.576	118.6	40.35	13.4
111	2008	234	830	69.28	67.02	1.529	149.1	35.82	13.38
111	2008	234	845	70.6	63	2.145	165.1	42.13	13.36
111	2008	234	900	70.4	60.82	2.354	160.5	42.02	13.34
111	2008	234	915	71.1	53.93	2.363	151.7	55.82	13.24
111	2008	234	930	71.7	49.65	2.395	191.7	45.21	13.22
111	2008	234	945	73.1	48.51	2.594	122.9	80.2	13.26
111	2008	234	1000	73.7	48.75	2.324	155	52.83	13.3
111	2008	234	1015	74.5	44.8	2.949	99.1	42.72	13.28
111	2008	234	1030	75.8	43.72	2.536	47.4	74.4	13.27
111	2008	234	1045	76.3	44.89	2.264	359.9	66.88	13.26
111	2008	234	1100	74.8	42.18	2.725	103.7	96	13.26
111	2008	234	1115	76.2	43.82	2.876	69.07	55.51	13.24
111	2008	234	1130	75.3	50.07	3.962	305.9	33.79	13.24
111	2008	234	1145	75.2	49.93	5.236	317.8	30.21	13.24
111	2008	234	1200	75	52.21	5.449	320.4	30.72	13.24
111	2008	234	1215	75.3	55.05	6.253	314.9	28.16	13.24

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	234	1230	74.8	51.81	7.69	321.1	28.28	13.24
111	2008	234	1245	74.8	48.37	7.06	322.3	20.64	13.25
111	2008	234	1300	75.3	49.57	6.551	328.8	30.27	13.25
111	2008	234	1315	75.1	54.76	6.797	322.3	28.45	13.26
111	2008	234	1330	75.5	46.37	6.555	333.9	29.83	13.26
111	2008	234	1345	76.4	49.21	6.879	331.8	27.21	13.25
111	2008	234	1400	75.6	54.75	6.954	333	25.36	13.24
111	2008	234	1415	73.8	53.41	8.24	319.6	20.58	13.25
111	2008	234	1430	74.7	52.25	7.97	328.8	18.68	13.26
111	2008	234	1445	75.8	47.07	6.982	337.3	27.12	13.09
111	2008	234	1500	75.7	55.16	6.972	328.9	25.45	13.02
111	2008	234	1515	75.3	57.44	7.38	335.9	24.33	13
111	2008	234	1530	75	54.43	7.22	334.4	29.99	12.95
111	2008	234	1545	75.9	48.95	6.815	350.8	25.1	12.92
111	2008	234	1600	76.1	47.98	7.25	341.2	27.21	12.9
111	2008	234	1615	76	52.26	7.28	344.7	27.32	12.88
111	2008	234	1630	75.5	52.89	7.1	343.7	30.46	12.86
111	2008	234	1645	75	51.32	6.704	338.4	20.3	12.84
111	2008	234	1700	75.6	55.73	6.676	340.5	21.87	12.82
111	2008	234	1715	75.1	53.29	5.84	345.2	25.97	12.81
111	2008	234	1730	74.9	55.93	5.822	343.9	25.95	12.79
111	2008	234	1745	74.5	54.63	5.582	348.4	24.27	12.78
111	2008	234	1800	74.3	59.75	5.814	344.3	23.89	12.76
111	2008	234	1815	72.9	61.89	5.598	331.4	22.18	12.75
111	2008	234	1830	72.4	62.96	5	329.1	18.14	12.74
111	2008	234	1845	72.1	65.53	4.992	333.5	27.35	12.73
111	2008	234	1900	71	67.71	4.053	323.6	21.01	12.73
111	2008	234	1915	70.3	69.16	3.857	341.2	18.09	12.73
111	2008	234	1930	69.61	71.8	3.473	353.8	19.87	12.73
111	2008	234	1945	69.02	73.8	3.048	344.4	20.91	12.71
111	2008	234	2000	68.5	74.9	2.796	345.5	17.85	12.71
111	2008	234	2015	68.15	75.4	2.504	338.6	16.93	12.71
111	2008	234	2030	67.86	75.3	2.743	336.7	22.12	12.7
111	2008	234	2045	67.6	75.8	2.349	345.9	24.48	12.69
111	2008	234	2100	67.34	76.3	1.578	332.2	20.6	12.69
111	2008	234	2115	67.01	77.5	0.046	345.3	1.702	12.67
111	2008	234	2130	66.63	78.6	na	na	na	12.67
111	2008	234	2145	66.39	79.4	na	na	na	12.67
111	2008	234	2200	66.08	80.4	0.009	340.4	0.006	12.65
111	2008	234	2215	65.61	81.5	na	na	na	12.65
111	2008	234	2230	65.35	81.8	na	na	na	12.64
111	2008	234	2245	65.05	82	na	na	na	12.64
111	2008	234	2300	64.74	82.9	na	na	na	12.63
111	2008	234	2315	64.26	83.6	na	na	na	12.63
111	2008	234	2330	63.94	83.7	na	na	na	12.63
111	2008	234	2345	63.58	84.2	na	na	na	12.61
111	2008	234	2400	63.16	85	na	na	na	12.61
111	2008	235	15	62.63	86	na	na	na	12.6
111	2008	235	30	62.28	86.9	na	na	na	12.6
111	2008	235	45	61.99	87.5	na	na	na	12.59
111	2008	235	100	61.73	88.5	na	na	na	12.59
111	2008	235	115	61.74	88.4	na	na	na	12.58
111	2008	235	130	61.6	88.6	na	na	na	12.57
111	2008	235	145	61.46	88.9	na	na	na	12.57
111	2008	235	200	61.38	89.2	na	na	na	12.56
111	2008	235	215	61.28	89.5	na	na	na	12.56
111	2008	235	230	61.13	89.9	na	na	na	12.56
111	2008	235	245	60.98	90.1	na	na	na	12.55
111	2008	235	300	60.84	90.5	na	na	na	12.54
111	2008	235	315	60.74	90.6	na	na	na	12.54

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	235	330	60.5	90.9	na	na	na	12.52
111	2008	235	345	60.43	90.9	na	na	na	12.52
111	2008	235	400	60.2	91.1	na	na	na	12.52
111	2008	235	415	59.97	91.3	na	na	na	12.51
111	2008	235	430	59.75	91.5	na	na	na	12.5
111	2008	235	445	59.48	91.8	na	na	na	12.5
111	2008	235	500	59.3	91.9	na	na	na	12.49
111	2008	235	515	59.16	91.8	na	na	na	12.48
111	2008	235	530	58.86	92	na	na	na	12.47
111	2008	235	545	58.84	92	na	na	na	12.47
111	2008	235	600	58.77	92	na	na	na	12.47
111	2008	235	615	58.86	92.3	na	na	na	12.47
111	2008	235	630	59.12	92.3	na	na	na	12.47
111	2008	235	645	59.45	92.6	na	na	na	12.48
111	2008	235	700	60.58	92.9	na	na	na	13.3
111	2008	235	715	62.48	91.6	na	na	na	13.25
111	2008	235	730	64.65	87.7	na	na	na	13.45
111	2008	235	745	67.18	81.8	na	na	na	13.43
111	2008	235	800	69.34	78.6	0.275	56.64	10.94	13.4
111	2008	235	815	70.5	76.5	1.454	79.8	37.86	13.38
111	2008	235	830	71	73.9	1.444	47.03	43.61	13.34
111	2008	235	845	71.7	70.9	1.781	91.3	59.21	13.32
111	2008	235	900	72.3	65.7	1.331	175.2	69.19	13.3
111	2008	235	915	74	59.54	1.309	11.75	44.98	13.29
111	2008	235	930	74.4	61.01	1.732	354	50.77	13.28
111	2008	235	945	73.9	64.61	2.317	269.3	51.14	13.26
111	2008	235	1000	73.3	70.7	3.437	302	27.98	13.26
111	2008	235	1015	72.9	68.99	3.914	300.4	23.72	13.26
111	2008	235	1030	73.3	63.4	4.764	297.2	18.24	13.25
111	2008	235	1045	73.8	58.7	5.219	301.1	22.71	13.25
111	2008	235	1100	74.4	54.83	5.326	295.7	23.29	13.26
111	2008	235	1115	77.2	51.11	5.219	308.7	24.89	13.24
111	2008	235	1130	79.4	48.47	4.377	347.5	55.28	13.16
111	2008	235	1145	77.7	54.45	3.785	0.522	50.77	13.22
111	2008	235	1200	76.9	58.09	4.389	341.2	44.74	13.21
111	2008	235	1215	75.5	57.19	4.71	319.2	29.33	13.21
111	2008	235	1230	75.8	55.01	4.184	334.8	44	13.21
111	2008	235	1245	75.9	58.69	5.054	338	42.39	13.2
111	2008	235	1300	76	58.22	5.139	336.7	37.86	13.2
111	2008	235	1315	75.6	59.69	5.219	329.9	35.95	13.2
111	2008	235	1330	75.1	58.86	5.729	320.1	34.12	13.21
111	2008	235	1345	74.5	57.65	6.055	324.7	27.42	13.21
111	2008	235	1400	76	54.31	5.238	357	45.54	13.11
111	2008	235	1415	75	56.78	5.832	330.2	39.24	13
111	2008	235	1430	75.1	58.12	5.032	327.8	42.28	12.94
111	2008	235	1445	75.1	58.12	5.34	333.2	48.61	12.89
111	2008	235	1500	74.6	60.06	5.977	324	36.71	12.87
111	2008	235	1515	74.1	59.69	5.544	318.8	41.84	12.85
111	2008	235	1530	73.8	60.73	6.215	304	25.27	12.84
111	2008	235	1545	73.8	59.54	5.509	305.4	27.43	12.82
111	2008	235	1600	74.5	54.12	4.921	344.1	46.26	12.81
111	2008	235	1615	73.8	58.2	5.266	324.4	37.44	12.8
111	2008	235	1630	74	59.67	4.718	339	42	12.79
111	2008	235	1645	73.1	62.22	5.528	302.3	27.88	12.78
111	2008	235	1700	73.4	60.61	4.426	327.1	42.38	12.77
111	2008	235	1715	73.6	62.96	4.283	318.2	41.23	12.76
111	2008	235	1730	72.4	64.36	5.262	311.5	38.18	12.76
111	2008	235	1745	72.1	66.56	5.179	298.1	23.64	12.74
111	2008	235	1800	71.7	67.64	4.528	294.1	28.94	12.74
111	2008	235	1815	71.4	70.1	5.06	304.4	29.17	12.72

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	235	1830	71.1	70	4.256	310.4	35.28	12.72
111	2008	235	1845	70.8	70.5	4.766	309.7	26.33	12.72
111	2008	235	1900	70.7	71	3.978	325.8	33.56	12.71
111	2008	235	1915	70.1	71.3	3.958	299.7	19.88	12.7
111	2008	235	1930	69.77	71.6	3.444	316.3	30.05	12.7
111	2008	235	1945	69.39	70.6	4.327	303.2	13.54	12.69
111	2008	235	2000	69.19	69.9	3.592	306.5	20.66	12.68
111	2008	235	2015	68.88	68.23	2.493	318	27.07	12.66
111	2008	235	2030	68.92	67.79	3.157	303	25.81	12.66
111	2008	235	2045	68.75	69.16	2.865	313.1	25.42	12.63
111	2008	235	2100	68.65	71.9	2.7	315.9	31.45	12.65
111	2008	235	2115	68.41	73.2	2.307	333.3	32.11	12.64
111	2008	235	2130	68.16	75.1	1.514	337.5	26.03	12.63
111	2008	235	2145	67.95	75	1.266	333.7	31.01	12.63
111	2008	235	2200	67.64	76.2	0.934	343.6	28.15	12.58
111	2008	235	2215	67.55	77	0.761	335	27.09	12.61
111	2008	235	2230	66.94	79.2	0.09	331.3	11.64	12.61
111	2008	235	2245	66.7	79.4	0.203	344.6	14.62	12.6
111	2008	235	2300	65.99	82.3	1.172	103.6	23.96	12.59
111	2008	235	2315	64.46	84.6	na	na	na	12.57
111	2008	235	2330	63.91	85.8	na	na	na	12.57
111	2008	235	2345	63.7	86.2	na	na	na	12.57
111	2008	235	2400	63.27	87.1	na	na	na	12.56
111	2008	236	15	62.75	88.2	na	na	na	12.56
111	2008	236	30	62.44	88.2	na	na	na	12.55
111	2008	236	45	62.03	89	na	na	na	12.55
111	2008	236	100	61.62	89.4	na	na	na	12.54
111	2008	236	115	61.26	89.6	na	na	na	12.54
111	2008	236	130	60.98	90.2	na	na	na	12.53
111	2008	236	145	60.69	90.4	na	na	na	12.52
111	2008	236	200	60.4	90.7	na	na	na	12.52
111	2008	236	215	60.34	90.8	na	na	na	12.52
111	2008	236	230	60.33	90.9	na	na	na	12.51
111	2008	236	245	60.23	91.1	na	na	na	12.5
111	2008	236	300	60.28	91.2	na	na	na	12.5
111	2008	236	315	60.1	91.6	na	na	na	12.48
111	2008	236	330	59.94	91.7	na	na	na	12.48
111	2008	236	345	59.81	91.8	na	na	na	12.47
111	2008	236	400	59.68	92	na	na	na	12.46
111	2008	236	415	59.44	92.1	na	na	na	12.46
111	2008	236	430	59.2	92.2	na	na	na	12.42
111	2008	236	445	58.96	92.4	na	na	na	12.45
111	2008	236	500	58.89	92.5	na	na	na	12.44
111	2008	236	515	58.69	92.8	na	na	na	12.44
111	2008	236	530	58.66	92.8	na	na	na	12.44
111	2008	236	545	58.63	93.2	na	na	na	12.44
111	2008	236	600	58.68	93.3	na	na	na	12.44
111	2008	236	615	58.82	93.2	na	na	na	12.44
111	2008	236	630	58.8	93.6	0.011	170.6	0	12.43
111	2008	236	645	59.6	93.9	0.354	209.6	12.34	12.44
111	2008	236	700	61.12	93.2	0.278	198.2	17.01	13.48
111	2008	236	715	62.47	91.8	0.506	235.5	22.68	13.46
111	2008	236	730	64.38	87.6	0.555	229.1	21.62	13.44
111	2008	236	745	65.8	81.8	1.767	237.8	31.93	13.42
111	2008	236	800	67.31	77	1.803	229.5	34.78	13.4
111	2008	236	815	69.07	73.6	1.912	235.5	41.54	13.35
111	2008	236	830	70.6	71.1	2.597	246.3	41.02	13.37
111	2008	236	845	71	68.18	3.058	269.4	31.62	13.35
111	2008	236	900	70.9	68.37	3.666	285.8	28.55	13.33
111	2008	236	915	71.9	63.73	3.185	305.3	27.14	13.32

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	236	930	72.3	62.72	2.847	290.3	30.22	13.3
111	2008	236	945	73.1	63.69	3.908	305.1	30.43	13.29
111	2008	236	1000	72.9	68.61	4.855	299.4	26.88	13.28
111	2008	236	1015	73.2	66.06	5.191	309.6	33.82	13.26
111	2008	236	1030	72.8	65.23	5.336	293.7	20.88	13.26
111	2008	236	1045	73.7	64.89	4.953	313.2	37.35	13.26
111	2008	236	1100	73.5	66.93	5.119	311.8	32.23	13.25
111	2008	236	1115	74.3	61.84	4.232	338.8	44.42	13.24
111	2008	236	1130	74.8	63.17	4.927	326.8	35.04	13.24
111	2008	236	1145	73.6	68.42	6.096	298.7	27.39	13.24
111	2008	236	1200	74	63.7	5.507	324.9	47.73	13.24
111	2008	236	1215	73.5	65.54	6.561	307.4	25.65	13.24
111	2008	236	1230	74	64.01	5.83	322	36.68	13.24
111	2008	236	1245	73.9	62.6	6.049	313.8	41.09	13.24
111	2008	236	1300	73.9	61.2	6.078	317.5	39.1	13.23
111	2008	236	1315	74.8	61.53	5.58	308.3	32.22	13.23
111	2008	236	1330	75.1	60.43	5.236	328.5	40.26	13.22
111	2008	236	1345	74	60.4	6.233	301.7	27.63	13.22
111	2008	236	1400	74.3	63.5	5.705	316.5	30.29	13.15
111	2008	236	1415	74.5	65.94	5.886	317.2	41.58	13
111	2008	236	1430	74.5	61.03	5.651	335.2	52.12	12.96
111	2008	236	1445	74.7	63.21	5.922	312.3	35.9	12.92
111	2008	236	1500	74.6	68.46	5.955	315.6	42.7	12.9
111	2008	236	1515	74.3	67.98	5.681	315.2	24.09	12.89
111	2008	236	1530	74.5	66.48	6.017	322.7	32.35	12.88
111	2008	236	1545	74.1	69.46	6.624	307	25.25	12.86
111	2008	236	1600	73.5	70.5	6.434	303.8	30.71	12.84
111	2008	236	1615	73.8	69.47	5.469	312.7	32.17	12.82
111	2008	236	1630	73.3	71.9	5.681	310.7	30.52	12.82
111	2008	236	1645	73.8	70.4	5.074	316.2	31.34	12.8
111	2008	236	1700	73.4	70.9	5.37	309.9	37.88	12.78
111	2008	236	1715	73	73.6	5.133	310.6	38.43	12.78
111	2008	236	1730	72.9	74.8	5.129	309.7	26.3	12.78
111	2008	236	1745	72.3	77	5.431	297.6	24.42	12.79
111	2008	236	1800	72.2	77	5.423	304.6	21.63	12.77
111	2008	236	1815	72	76.2	5.701	296.9	24.22	12.73
111	2008	236	1830	71.4	77.2	6.644	299.6	19.4	12.73
111	2008	236	1845	71.3	76.7	5.235	298.4	17.97	12.72
111	2008	236	1900	71.2	76.9	4.831	298.2	23.12	12.72
111	2008	236	1915	70.8	77.2	4.001	294.7	25.29	12.71
111	2008	236	1930	70.7	77.5	3.702	303	20.61	12.71
111	2008	236	1945	70.6	77.5	4.407	310.1	21.72	12.71
111	2008	236	2000	70.6	78	3.67	298.9	23.09	12.69
111	2008	236	2015	70.5	78	2.499	285	31.74	12.69
111	2008	236	2030	70.4	78.7	2.627	293.1	24.37	12.69
111	2008	236	2045	70.1	79.6	3.1	301.1	17.99	12.68
111	2008	236	2100	69.99	79.3	3.541	307.9	23.34	12.67
111	2008	236	2115	69.93	79.7	4.26	310.2	24.09	12.67
111	2008	236	2130	69.83	79.3	4.746	300	20.33	12.66
111	2008	236	2145	69.77	79.4	4.508	307.5	23.7	12.65
111	2008	236	2200	69.71	79.3	4.383	307.4	21.74	12.65
111	2008	236	2215	69.65	78.3	4.262	309	17.62	12.65
111	2008	236	2230	69.69	77.3	5.373	307.6	18.78	12.64
111	2008	236	2245	69.71	77.2	4.426	308.1	24.61	12.63
111	2008	236	2300	69.65	76.5	4.061	303.6	22.29	12.63
111	2008	236	2315	69.53	77.2	4.077	301.2	22.37	12.63
111	2008	236	2330	69.18	78	2.825	326.3	35.23	12.62
111	2008	236	2345	69.08	76.5	3.336	317.8	25.17	12.62
111	2008	236	2400	69.21	76.4	3.553	309.9	23.65	12.61
111	2008	237	15	69.18	76.8	2.923	322.1	29.43	12.61

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	237	30	68.85	78.3	1.655	330	29.82	12.6
111	2008	237	45	68.54	79.1	1.938	339.7	37.27	12.6
111	2008	237	100	68.22	79.9	1.417	355.3	35.76	12.59
111	2008	237	115	67.9	80.6	1.107	357.7	17.27	12.59
111	2008	237	130	67.78	80.7	1.069	359	27.23	12.55
111	2008	237	145	67.74	80.9	0.667	354.7	23.27	12.57
111	2008	237	200	67.61	80.7	1.346	348.9	27.98	12.57
111	2008	237	215	67.75	79.9	1.313	0.197	25.33	12.57
111	2008	237	230	67.88	80.5	0.474	358.4	16.69	12.56
111	2008	237	245	67.72	80.8	0.96	352.2	16.23	12.55
111	2008	237	300	68.03	79.7	1.374	353.6	28.79	12.55
111	2008	237	315	68.09	79.7	0.93	352.5	25.44	12.55
111	2008	237	330	68.03	80.7	0.795	354.1	17.15	12.55
111	2008	237	345	67.7	81.6	0.937	358	24.57	12.54
111	2008	237	400	67.57	81.7	1.169	341.9	27.74	12.53
111	2008	237	415	67.41	81.9	1.242	4.711	27.21	12.53
111	2008	237	430	66.72	84	0.094	59.6	15.93	12.52
111	2008	237	445	66.08	85.3	0.068	5.549	4.238	12.51
111	2008	237	500	65.42	86.8	0.16	112.4	2.415	12.51
111	2008	237	515	64.62	88.4	0.172	124.1	2.501	12.5
111	2008	237	530	64.29	89.3	na	na	na	12.49
111	2008	237	545	64.39	89.7	na	na	na	12.48
111	2008	237	600	64.62	89.9	na	na	na	12.48
111	2008	237	615	64.65	89.8	na	na	na	12.48
111	2008	237	630	64.54	90.6	na	na	na	12.48
111	2008	237	645	65.29	90.1	0.518	105.3	7.18	12.48
111	2008	237	700	67.31	85	0.357	70.8	23.06	13.4
111	2008	237	715	70.3	77.9	0.276	42.22	14.2	13.11
111	2008	237	730	70.9	75.7	1.462	38.84	24.67	13.12
111	2008	237	745	72.4	72.2	2.028	44.76	23.4	13.35
111	2008	237	800	72.9	73.8	2.425	43.53	34.71	13.33
111	2008	237	815	72.7	73.2	1.997	37.95	31.72	13.33
111	2008	237	830	72.2	74.2	3.04	66.88	34.56	13.32
111	2008	237	845	72.7	71.6	1.908	33.88	36.57	13.18
111	2008	237	900	72.8	70.4	2.442	63.6	35.37	13.28
111	2008	237	915	73.5	67.44	2.205	43.1	33.69	13.3
111	2008	237	930	75.4	62.42	2.028	67.26	53.56	13.29
111	2008	237	945	75.7	68.61	2.106	57.41	41.26	13.27
111	2008	237	1000	73.6	66.76	1.888	72.6	32.32	13.28
111	2008	237	1015	74.9	67.7	2.602	2.636	48.48	13.27
111	2008	237	1030	74.9	65.22	3.087	9.28	43.79	13.26
111	2008	237	1045	77	65.65	4.154	32.85	39.12	13.25
111	2008	237	1100	76.3	65.25	3.394	28.87	42.37	13.24
111	2008	237	1115	75.6	66.81	4.397	42.21	26.91	13.12
111	2008	237	1130	74.1	71.8	4.885	39.64	36.24	13.08
111	2008	237	1145	74	67.82	3.727	17.33	51.68	13.24
111	2008	237	1200	76.6	67.62	4.303	20.88	40.99	13.24
111	2008	237	1215	74.5	70.3	4.508	33.19	38.28	13.02
111	2008	237	1230	73.4	70.3	3.825	23.07	37.85	13.01
111	2008	237	1245	75.8	62.58	3.757	3.67	41.61	13.25
111	2008	237	1300	76.5	65.89	4.732	37.56	33.99	13.24
111	2008	237	1315	75.6	66.65	5.105	37.18	24.44	13.24
111	2008	237	1330	74.9	69.12	4.657	39.47	28.94	13.25
111	2008	237	1345	74.8	64.41	4.424	25.34	36.99	13.26
111	2008	237	1400	77.6	58.66	4.758	18.99	51.01	13.21
111	2008	237	1415	78.3	59.46	5.171	36.63	35.02	13.16
111	2008	237	1430	78.6	59.36	5.221	36.79	38.63	13.06
111	2008	237	1445	79.1	57.52	4.549	25.97	35.97	13.02
111	2008	237	1500	78.7	59.99	4.905	19.85	36.62	12.98
111	2008	237	1515	77.5	61.8	5.61	10.17	44.97	12.97

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	237	1530	77.2	60.86	6.374	30.36	37.39	12.94
111	2008	237	1545	77.4	61.83	5.489	28.31	40.21	12.92
111	2008	237	1600	77.1	62.9	5.457	30.39	40.13	12.9
111	2008	237	1615	76.9	60.49	6.197	39.73	29.01	12.88
111	2008	237	1630	77.7	61.23	4.516	30.57	42.37	12.86
111	2008	237	1645	77.4	63.4	5.421	32.82	33.65	12.85
111	2008	237	1700	77.1	62.2	4.522	45.16	40.48	12.84
111	2008	237	1715	76.4	63.4	5.094	17.17	44.27	12.81
111	2008	237	1730	75.9	64	5.183	32.14	50.15	12.8
111	2008	237	1745	75.6	67.45	4.867	27.23	42.01	12.77
111	2008	237	1800	74.9	68.02	4.72	29.28	41.81	12.76
111	2008	237	1815	74.2	70.2	4.772	29.61	37.68	12.75
111	2008	237	1830	74.2	70	3.479	11.95	47.91	12.74
111	2008	237	1845	73	72.3	4.53	21.97	34.92	12.73
111	2008	237	1900	72.4	74	4.641	32.19	31.08	12.73
111	2008	237	1915	71.7	75.8	4.47	38.07	31.79	12.72
111	2008	237	1930	71.1	77.2	4.462	32.58	28.91	12.71
111	2008	237	1945	70.7	78.2	4.186	36.68	42.4	12.71
111	2008	237	2000	70.6	77.2	4.434	30.56	30.17	12.7
111	2008	237	2015	70.6	78	4.301	34.17	36.28	12.69
111	2008	237	2030	70.4	78.8	3.553	31.17	33.59	12.68
111	2008	237	2045	70.3	79.2	4.293	35.07	31.37	12.67
111	2008	237	2100	70.4	79.5	4.275	36.61	24.35	12.66
111	2008	237	2115	70.5	80.1	4.426	38.18	31.49	12.67
111	2008	237	2130	70.5	79.5	4.822	39.56	27.21	12.66
111	2008	237	2145	70.5	79.4	4.281	40.26	27.73	12.65
111	2008	237	2200	70.4	80	4.859	35.58	29.96	12.65
111	2008	237	2215	70.4	80.1	4.857	36.84	24.07	12.64
111	2008	237	2230	70.4	80.7	4.313	39.27	28.95	12.64
111	2008	237	2245	70.4	80.7	4.26	38.58	29.52	12.63
111	2008	237	2300	70.4	80.9	3.825	33.4	30.03	12.63
111	2008	237	2315	70.4	81.2	4.228	44.46	26.69	12.62
111	2008	237	2330	70.6	81.5	5.052	43.45	24.78	12.61
111	2008	237	2345	70.6	82	4.353	53.28	30.88	12.61
111	2008	237	2400	70.5	81.9	4.293	46.79	26.27	12.6
111	2008	238	15	70.4	80.3	4.708	47.3	24.79	12.61
111	2008	238	30	70.5	80	4.202	53.4	28.82	12.6
111	2008	238	45	70.3	79.6	4.103	41.29	26.93	12.6
111	2008	238	100	70.1	79.3	3.481	38.87	28.59	12.59
111	2008	238	115	69.96	79.4	3.178	41.23	24.47	12.59
111	2008	238	130	69.92	78.4	4.136	37.06	30.93	12.58
111	2008	238	145	70	78.5	4.031	45.81	25.12	12.57
111	2008	238	200	70.1	79.2	4.379	50.1	23.95	12.57
111	2008	238	215	69.84	80.7	3.684	43.42	26.94	12.57
111	2008	238	230	69.85	81	4.659	43.9	31.25	12.56
111	2008	238	245	69.87	81.7	3.952	43.42	24.99	12.56
111	2008	238	300	69.78	83	3.908	43.12	30.94	12.55
111	2008	238	315	69.82	83.2	4.462	44.29	23.71	12.55
111	2008	238	330	69.79	83.6	3.994	38.6	23.31	12.55
111	2008	238	345	69.97	83.4	4.869	44.8	24.27	12.55
111	2008	238	400	69.99	83.5	4.577	39.08	35.19	12.55
111	2008	238	415	69.87	83.9	4.389	41.49	20.62	12.53
111	2008	238	430	69.7	84.7	3.821	38.61	26.5	12.53
111	2008	238	445	69.57	85.6	3.759	45.35	31.73	12.52
111	2008	238	500	69.72	83.9	5.248	49.24	25.62	12.52
111	2008	238	515	69.86	82.6	4.337	50.07	33.38	12.52
111	2008	238	530	69.77	79.7	4.365	43.75	31.14	12.51
111	2008	238	545	69.54	79.7	3.406	47.88	28.22	12.51
111	2008	238	600	69.37	80.2	3.489	46.44	35.34	12.51
111	2008	238	615	69.22	81.5	3.282	48.14	28.49	12.5

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	238	630	69.17	82.3	3.414	51.66	23.12	12.5
111	2008	238	645	69.5	82.3	4.275	44.92	23.55	12.5
111	2008	238	700	69.8	81.9	4.033	51.03	28.84	12.49
111	2008	238	715	70.2	81.2	4.234	55.11	29.58	12.52
111	2008	238	730	70.6	80.8	3.698	64.03	38.3	12.63
111	2008	238	745	71	80.2	4.131	53.3	28.38	12.67
111	2008	238	800	71	81.1	3.765	60.46	32.29	12.53
111	2008	238	815	70.8	81.6	4.22	47.44	28.32	12.51
111	2008	238	830	71.1	81.4	2.72	45.44	30.32	12.51
111	2008	238	845	71.3	81.3	3.896	42.25	22.89	12.57
111	2008	238	900	71.8	79.9	3.634	41.98	25.63	12.66
111	2008	238	915	72.2	79.8	3.446	48.11	26.94	12.79
111	2008	238	930	72.7	78	3.932	51.18	27.41	12.89
111	2008	238	945	73.3	77.7	3.749	43.88	27.79	13.08
111	2008	238	1000	74	75.7	4.087	43.24	24.66	13.23
111	2008	238	1015	75.6	72.5	3.819	40.91	24.9	13.28
111	2008	238	1030	76.3	72.6	4.047	32.33	27.89	13.26
111	2008	238	1045	77.8	68.87	5.286	34.27	22.5	13.24
111	2008	238	1100	79	66.79	5.056	45.36	28.84	13.22
111	2008	238	1115	79.6	65.68	5.868	37.49	29.33	13.2
111	2008	238	1130	80.3	65.21	5.258	39.07	24.35	13.2
111	2008	238	1145	80.2	67.48	5.03	37.06	30.6	13.18
111	2008	238	1200	79.6	65.24	5.296	40.44	27.09	13.18
111	2008	238	1215	80.1	66.63	6.013	33.49	26.25	13.17
111	2008	238	1230	79.6	70.6	5.705	38.86	28.17	13.18
111	2008	238	1245	77.7	73.4	5.818	28.93	24.84	13.18
111	2008	238	1300	76.8	74.1	5.786	39.15	22.48	13.18
111	2008	238	1315	78.5	70.8	5.254	40.98	29.45	13.19
111	2008	238	1330	78.3	71.5	4.756	47.3	27.19	13.18
111	2008	238	1345	78.8	68.92	5.179	43.12	27.58	13.18
111	2008	238	1400	80.7	67.08	5.24	44.06	40.37	13.18
111	2008	238	1415	81.7	64.57	5.29	32.26	23.99	13.17
111	2008	238	1430	81.4	66.37	5.276	28.92	35.19	13.16
111	2008	238	1445	81.3	65.6	4.73	32.86	28.86	13.17
111	2008	238	1500	81.4	64.77	4.748	29.58	30.19	13.17
111	2008	238	1515	80.3	66.18	5.528	36.64	22.43	13.17
111	2008	238	1530	80.7	65.37	4.623	42.78	28.76	13.16
111	2008	238	1545	81.7	61.8	4.923	32.21	27.78	13.18
111	2008	238	1600	82.6	64.47	5.594	42.47	22.13	13.06
111	2008	238	1615	81	66.81	4.887	26.47	33.45	12.98
111	2008	238	1630	81.3	64.3	4.617	29.55	30.35	13.12
111	2008	238	1645	79.9	73.5	5.399	49.28	25.01	13.07
111	2008	238	1700	77.2	76.3	4.605	44.66	29.49	12.88
111	2008	238	1715	76.6	76.4	4.546	36.01	21.85	12.84
111	2008	238	1730	77	74.9	3.908	33.45	28.7	12.83
111	2008	238	1745	76.1	81.8	3.918	91.1	41.02	12.81
111	2008	238	1800	75.8	79.3	2.223	107.5	31.56	12.84
111	2008	238	1815	76	76.2	1.911	119.6	30.18	12.76
111	2008	238	1830	75.8	74.6	1.066	130.7	29.97	12.74
111	2008	238	1845	75.6	73.5	0.508	118.8	16.63	12.73
111	2008	238	1900	75.5	69.81	1.179	117.6	18.02	12.72
111	2008	238	1915	75.6	68.47	2.069	120.4	28.58	12.72
111	2008	238	1930	75.2	69.01	1.567	123.9	29.09	12.71
111	2008	238	1945	75	68.91	1.161	117.7	20.71	12.7
111	2008	238	2000	74.7	69.91	0.272	131.1	22.09	12.71
111	2008	238	2015	74.6	70.9	0.551	115.6	14.46	12.69
111	2008	238	2030	74	72.4	na	na	na	12.69
111	2008	238	2045	73	74.8	na	na	na	12.69
111	2008	238	2100	72.4	69.55	1.509	195	26.34	12.69
111	2008	238	2115	73	61.9	2.891	194.9	48.18	12.68

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	238	2130	72.5	57.12	3.827	192	40.32	12.67
111	2008	238	2145	71.7	56.58	4.325	190.6	46.3	12.67
111	2008	238	2200	71.1	55.62	4.244	184.1	58.83	12.67
111	2008	238	2215	70.4	53.91	4.53	185.4	44.51	12.65
111	2008	238	2230	69.81	54.85	4.325	181.7	46.84	12.65
111	2008	238	2245	69.17	55.65	4.434	188.9	39.71	12.65
111	2008	238	2300	68.54	55.52	4.359	199	45.83	12.64
111	2008	238	2315	68.01	55.72	3.795	185.4	45.15	12.63
111	2008	238	2330	67.52	55.62	3.71	184.4	48.57	12.63
111	2008	238	2345	66.94	56.82	3.152	165.4	58.26	12.62
111	2008	238	2400	66.54	56.16	3.324	174.1	58.36	12.61
111	2008	239	15	66.1	57.7	3.334	156.1	42.33	12.6
111	2008	239	30	65.48	59.71	3.154	152.1	52.38	12.6
111	2008	239	45	64.97	59.98	3.237	153.3	50.44	12.59
111	2008	239	100	64.69	60.85	2.989	168.4	53.41	12.59
111	2008	239	115	64.32	61.52	3.046	169.2	44.78	12.58
111	2008	239	130	64	62.06	2.716	172.2	51.18	12.57
111	2008	239	145	63.83	61.99	3.029	179.4	60.75	12.56
111	2008	239	200	63.58	61.66	3.709	170.5	56.97	12.57
111	2008	239	215	63.47	60.02	5	170.6	48.29	12.55
111	2008	239	230	63.12	61.43	4.51	182.2	41.55	12.55
111	2008	239	245	62.52	62.93	3.096	177	57.93	12.55
111	2008	239	300	62.01	63.8	3.149	171.5	56.04	12.54
111	2008	239	315	61.74	65.34	3.36	179.7	44.69	12.53
111	2008	239	330	61.35	67.55	2.448	189.9	36.94	12.53
111	2008	239	345	61.1	68.38	3.902	197.3	35.05	12.53
111	2008	239	400	60.76	69.55	2.528	191.3	42.99	12.51
111	2008	239	415	60.36	69.99	2.122	188.3	41.18	12.51
111	2008	239	430	59.99	69.76	2.527	195.3	46.66	12.51
111	2008	239	445	59.76	70.2	1.532	182.8	44.79	12.5
111	2008	239	500	59.17	71.2	0.419	183.3	18.85	12.5
111	2008	239	515	58.41	73.7	0.712	144.8	22.35	12.49
111	2008	239	530	57.62	74.3	0.19	138.2	26.03	12.48
111	2008	239	545	57.32	75.6	0.677	117.2	25.56	12.47
111	2008	239	600	57.07	76.3	1.053	128.6	37.14	12.46
111	2008	239	615	57.08	76.3	0.807	140.4	29.69	12.45
111	2008	239	630	57.11	76.6	1.18	116.8	29.95	12.45
111	2008	239	645	57.31	76.2	0.775	126	37.18	12.45
111	2008	239	700	59.09	70.9	1.38	156.9	36.57	13.52
111	2008	239	715	60.87	68.44	1.84	164.3	48.68	13.5
111	2008	239	730	62.13	65.95	1.776	167.2	48.2	13.48
111	2008	239	745	62.9	63.74	3.283	182.3	44.63	13.46
111	2008	239	800	63.8	61.29	3.471	177.3	41.8	13.44
111	2008	239	815	64.81	58.8	3.986	187.5	41.85	13.43
111	2008	239	830	65.55	57.16	4.148	186.6	48.31	13.42
111	2008	239	845	66.99	55.45	3.991	195	44.36	13.37
111	2008	239	900	67.28	52.78	4.309	184.9	42.75	13.39
111	2008	239	915	68.15	52.34	4.708	191.9	48.82	13.37
111	2008	239	930	68.83	48.29	4.407	177.8	41.29	13.35
111	2008	239	945	69.3	47.31	5.381	206	36.35	13.33
111	2008	239	1000	69.75	46.17	5.135	208.7	35.97	13.33
111	2008	239	1015	70	45.64	5.04	203.6	39.63	13.32
111	2008	239	1030	70.5	47.24	4.704	192	47.85	13.3
111	2008	239	1045	70.5	43.73	5.338	193.1	39.6	13.3
111	2008	239	1100	70.5	43.46	4.518	196.6	49.37	13.29
111	2008	239	1115	71.5	39.62	5.07	202.6	43.96	13.29
111	2008	239	1130	72.8	36.51	3.847	156.7	51.84	13.27
111	2008	239	1145	72.6	40.66	4.458	213.2	43.53	13.26
111	2008	239	1200	72.4	38.45	4.526	189.6	47.52	13.26
111	2008	239	1215	73.2	37.01	4.272	146.6	61.42	13.25

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	239	1230	73.3	35.04	4.837	157.3	57.27	13.23
111	2008	239	1245	73.3	35.3	4.911	180.5	39.84	13.24
111	2008	239	1300	74	38.94	4.355	144.1	53.25	13.24
111	2008	239	1315	74.6	35.76	4.093	149.1	44.57	13.22
111	2008	239	1330	75	36.16	3.872	136.6	53.18	13.22
111	2008	239	1345	74.9	36.66	4.399	130	59.97	13.22
111	2008	239	1400	74.4	36.36	4.434	152.8	53.61	13.05
111	2008	239	1415	75.6	36.5	5.068	178.8	53.18	12.97
111	2008	239	1430	74.9	33.59	4.893	162	48.88	12.92
111	2008	239	1445	75.3	35.06	4.518	182.4	40.71	12.88
111	2008	239	1500	76.3	35.33	4.057	149.2	50.43	12.86
111	2008	239	1515	76.1	35.39	4.309	152.8	53.11	12.85
111	2008	239	1530	76.4	34.26	4.15	140.1	49.47	12.84
111	2008	239	1545	76.9	31.82	4.142	135.4	56.57	12.83
111	2008	239	1600	77.2	31.85	4.115	134.3	50.41	12.82
111	2008	239	1615	77.1	30.85	4.272	162.5	43.88	12.81
111	2008	239	1630	76.8	29.61	4.103	162.9	52.94	12.8
111	2008	239	1645	77.1	30.05	3.672	133.9	49.92	12.8
111	2008	239	1700	77.1	29.18	3.777	144	42.87	12.78
111	2008	239	1715	76.6	28.98	3.898	133.7	42.05	12.77
111	2008	239	1730	76.8	28.88	3.406	127.6	44.62	12.76
111	2008	239	1745	76.6	30.52	3.049	147.4	52.9	12.76
111	2008	239	1800	76	31.69	3.124	131.2	41.66	12.76
111	2008	239	1815	75.7	32.73	3.046	113.3	34.47	12.74
111	2008	239	1830	75.4	35.07	2.794	140.8	49.84	12.74
111	2008	239	1845	74.5	38.01	2.858	125.9	31.19	12.73
111	2008	239	1900	73.1	41.02	2.991	120	33.6	12.72
111	2008	239	1915	71.8	44.23	2.119	124.4	39.59	12.71
111	2008	239	1930	70.2	45.88	1.922	135.9	43.11	12.7
111	2008	239	1945	69.36	45.25	1.902	157.8	61.91	12.68
111	2008	239	2000	69.18	44.92	2.216	207.2	39.29	12.68
111	2008	239	2015	68.46	48.26	0.366	80.4	10.54	12.67
111	2008	239	2030	67.16	51.41	1.207	104.4	25.82	12.65
111	2008	239	2045	66.34	50.31	0.869	158.9	39.56	12.65
111	2008	239	2100	66.11	52.49	0.127	116.9	14.52	12.63
111	2008	239	2115	64.82	57.17	0.419	112.4	8.85	12.62
111	2008	239	2130	63.55	58.21	1.166	103.6	11.75	12.61
111	2008	239	2145	63.76	55.54	0.219	89	29.92	12.59
111	2008	239	2200	63.83	58.35	0.614	98.5	19.7	12.59
111	2008	239	2215	62.74	61.99	0.57	101.4	7.81	12.58
111	2008	239	2230	62	62.4	1.586	85.7	16.16	12.58
111	2008	239	2245	61.9	60.69	0.135	80.9	9.66	12.56
111	2008	239	2300	61.6	64.81	0.655	32.83	11.17	12.56
111	2008	239	2315	60.18	67.29	1.009	37.13	13.41	12.55
111	2008	239	2330	59.56	69.77	0.339	86.3	13.45	12.55
111	2008	239	2345	58.92	71.4	0.35	106.3	5.113	12.54
111	2008	239	2400	58.04	73.3	na	na	na	12.53
111	2008	240	15	57.38	74.2	na	na	na	12.52
111	2008	240	30	57.36	74	0.06	127.1	2.265	12.51
111	2008	240	45	57.62	72.8	na	na	na	12.5
111	2008	240	100	58.21	70.8	0.055	99.4	1.378	12.5
111	2008	240	115	58.3	70.6	0.082	110	1.774	12.49
111	2008	240	130	58.33	70.5	na	na	na	12.48
111	2008	240	145	58.64	70.3	na	na	na	12.47
111	2008	240	200	58.13	73	0.134	90	5.75	12.47
111	2008	240	215	57.32	75.2	0.036	108.4	0.819	12.46
111	2008	240	230	56.73	76.4	na	na	na	12.46
111	2008	240	245	56.55	76.8	na	na	na	12.45
111	2008	240	300	56.37	77.5	na	na	na	12.44
111	2008	240	315	56.03	78.1	na	na	na	12.44

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	240	330	55.88	77.2	na	na	na	12.43
111	2008	240	345	56.78	68.78	na	na	na	12.42
111	2008	240	400	57.89	67.07	0.084	151.1	1.967	12.42
111	2008	240	415	58.5	61.01	0.263	191.8	13.93	12.42
111	2008	240	430	59.26	60.14	0.828	211.5	17.07	12.42
111	2008	240	445	59.53	59.1	1.352	209.5	29.66	12.42
111	2008	240	500	59.75	59.1	2.239	200.3	29.68	12.42
111	2008	240	515	59.95	59.34	2.679	210	27.91	12.42
111	2008	240	530	59.73	60.44	2.588	206.7	28.92	12.42
111	2008	240	545	59.55	62.12	2.604	204.5	34.69	12.42
111	2008	240	600	59.25	63.59	1.726	202.9	32.78	12.42
111	2008	240	615	58.85	65.16	1.569	204.7	26.67	12.42
111	2008	240	630	58.6	66.06	1.616	213.4	28.76	12.42
111	2008	240	645	59.01	65.36	0.895	222	16.83	12.44
111	2008	240	700	60.15	64.59	0.937	212	24.91	13.22
111	2008	240	715	60.67	64.72	1.285	196	26.3	13.32
111	2008	240	730	61.5	64.21	1.964	199.5	30.67	13.41
111	2008	240	745	62.33	63.03	2.256	193.6	33.37	13.48
111	2008	240	800	63.41	60.92	2.405	198.2	32.25	13.46
111	2008	240	815	65.13	59.32	3.14	200.6	35.5	13.44
111	2008	240	830	66.24	57.5	4.196	216	38.7	13.42
111	2008	240	845	67.27	54.52	4.371	212.8	37.97	13.4
111	2008	240	900	68.27	51.24	4.546	216.9	34.98	13.38
111	2008	240	915	69.39	48.76	3.99	220.1	42.3	13.36
111	2008	240	930	70.1	47.39	4.168	225.2	38.97	13.35
111	2008	240	945	70.9	45.41	4.15	204.8	35.48	13.34
111	2008	240	1000	71.5	46.57	4.325	214.7	30.77	13.32
111	2008	240	1015	72.1	43.97	4.073	204	33.49	13.31
111	2008	240	1030	73.4	43.03	3.868	212.9	47.6	13.29
111	2008	240	1045	73.4	43.8	3.845	233.1	48.16	13.28
111	2008	240	1100	73.7	42.36	3.678	214	44.06	13.27
111	2008	240	1115	73.7	40.65	4.113	264.1	35.25	13.27
111	2008	240	1130	74	41.65	4.432	255	39.76	13.26
111	2008	240	1145	74.4	38.31	4.236	242.3	41.37	13.25
111	2008	240	1200	75.5	39.34	4.262	231.9	46.74	13.24
111	2008	240	1215	73.3	48.53	6.059	311.3	34.53	13.24
111	2008	240	1230	72.4	49.67	6.636	299.6	31.66	13.24
111	2008	240	1245	72.2	48.47	6.624	311.7	25.91	13.24
111	2008	240	1300	71.6	49.78	6.209	304.8	30.96	13.13
111	2008	240	1315	71.7	46.6	5.999	303	22.06	13.25
111	2008	240	1330	72.6	46	5.892	307	41.07	13.2
111	2008	240	1345	73.1	46.14	5.906	308.4	26.6	13.24
111	2008	240	1400	73.6	42.99	4.949	292.3	36.38	13.15
111	2008	240	1415	73	46.8	6.313	309.6	27.69	13.01
111	2008	240	1430	73.2	47.94	5.52	301.2	30.26	12.96
111	2008	240	1445	72.7	47.51	5.062	337.6	39.8	12.97
111	2008	240	1500	72.8	49.51	4.851	350	38.55	12.99
111	2008	240	1515	72.6	47.21	4.919	345	41.84	13.01
111	2008	240	1530	73.2	49.21	4.694	323.1	43.47	13.1
111	2008	240	1545	72.7	47.84	4.873	320.9	39.88	13.11
111	2008	240	1600	72.4	49.08	5.431	303.1	26.63	13.16
111	2008	240	1615	71.3	49.58	5.235	300	31.13	13.12
111	2008	240	1630	70.9	47.11	5.749	311.2	21.48	13.12
111	2008	240	1645	71.5	38.88	5.62	301.1	24.15	13.02
111	2008	240	1700	71.8	44.1	5.37	283.2	33.64	13.01
111	2008	240	1715	71.7	42.26	4.456	290.6	34.44	13.07
111	2008	240	1730	71.6	43.97	4.281	292.6	34.79	12.98
111	2008	240	1745	71.2	46.84	3.779	281.4	34.19	12.91
111	2008	240	1800	71	48.24	3.344	285.9	44.66	12.84
111	2008	240	1815	70.3	50.55	3.386	306.9	35.99	12.79

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	240	1830	69.79	51.26	3.134	326.5	31.97	12.76
111	2008	240	1845	69.34	53.34	2.538	21.47	41.13	12.74
111	2008	240	1900	68.76	56.02	1.486	13.54	28.78	12.73
111	2008	240	1915	68.05	58.13	0.673	4.7	18.14	12.72
111	2008	240	1930	67.31	56.55	0.985	3.285	23.31	12.7
111	2008	240	1945	66.59	61.57	1.11	43.52	18.95	12.7
111	2008	240	2000	65.11	66.52	0.678	95.9	12.12	12.69
111	2008	240	2015	63.94	67.6	0.477	78.4	14.23	12.68
111	2008	240	2030	62.99	69.48	0.557	98.3	7.47	12.67
111	2008	240	2045	62.39	70.7	0.192	96.6	2.997	12.66
111	2008	240	2100	61.88	70.5	0.122	96.3	2.388	12.65
111	2008	240	2115	61.25	71.3	0.009	121.4	0	12.65
111	2008	240	2130	60.73	71	na	na	na	12.65
111	2008	240	2145	60.6	70.9	0.069	120.7	2.705	12.64
111	2008	240	2200	60.43	72	0.009	109.3	0.006	12.63
111	2008	240	2215	60.26	73.9	na	na	na	12.63
111	2008	240	2230	59.67	75.8	na	na	na	12.62
111	2008	240	2245	59.39	76.6	na	na	na	12.62
111	2008	240	2300	59.09	77.9	na	na	na	12.61
111	2008	240	2315	58.9	78.8	na	na	na	12.6
111	2008	240	2330	58.55	80.5	na	na	na	12.6
111	2008	240	2345	58.25	81.3	na	na	na	12.59
111	2008	240	2400	58.34	81.1	na	na	na	12.59
111	2008	241	15	58.04	82	na	na	na	12.58
111	2008	241	30	57.86	82.7	na	na	na	12.58
111	2008	241	45	57.68	83.2	na	na	na	12.58
111	2008	241	100	57.4	84	na	na	na	12.57
111	2008	241	115	57.14	84.6	na	na	na	12.55
111	2008	241	130	57	85	na	na	na	12.56
111	2008	241	145	56.99	84.7	na	na	na	12.56
111	2008	241	200	56.92	84.6	0.009	89.4	0.005	12.56
111	2008	241	215	56.79	84.9	na	na	na	12.55
111	2008	241	230	56.7	84.9	0.027	223.1	1.866	12.55
111	2008	241	245	56.81	84.5	0.159	90	3.358	12.55
111	2008	241	300	56.49	84.5	na	na	na	12.54
111	2008	241	315	56.18	84.1	na	na	na	12.51
111	2008	241	330	56.03	84.5	na	na	na	12.54
111	2008	241	345	55.9	84.2	na	na	na	12.52
111	2008	241	400	55.91	83.8	na	na	na	12.52
111	2008	241	415	55.87	83.3	na	na	na	12.52
111	2008	241	430	55.95	82.9	na	na	na	12.51
111	2008	241	445	56.07	82.5	na	na	na	12.5
111	2008	241	500	56.06	82.5	na	na	na	12.5
111	2008	241	515	56.44	82.9	0.098	91.4	2.531	12.5
111	2008	241	530	56.59	84.8	0.152	87.3	4.199	12.5
111	2008	241	545	56.22	86.8	0.122	102.1	3.914	12.48
111	2008	241	600	56.3	87.7	0.125	128.8	9.53	12.48
111	2008	241	615	56.47	88.4	0.036	167	2.326	12.47
111	2008	241	630	56.53	88.8	0.095	150.8	10.32	12.46
111	2008	241	645	56.81	89.3	0.18	108	4.809	12.46
111	2008	241	700	58.11	87.9	na	na	na	13.08
111	2008	241	715	59.59	84.9	0.061	194.2	5.2	13.22
111	2008	241	730	61.62	79.1	0.922	185.1	22.77	13.5
111	2008	241	745	64.01	74.6	1.496	197.3	33.27	13.48
111	2008	241	800	66.07	70.7	2.159	200.1	32.69	13.45
111	2008	241	815	68.09	64.93	2.544	183.3	31.71	13.43
111	2008	241	830	69.86	60.94	2.334	194.4	36.91	13.4
111	2008	241	845	71.6	55.82	2.608	199.6	33.42	13.37
111	2008	241	900	72.7	57.18	2.919	195.1	34.19	13.35
111	2008	241	915	73.9	50.89	2.479	190.1	48.34	13.33

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	241	930	75.7	48.98	2.548	202.3	41.67	13.31
111	2008	241	945	76.3	46.47	2.818	203.2	49.69	13.29
111	2008	241	1000	76.7	41.12	2.894	204.5	40.3	13.28
111	2008	241	1015	77.2	39.48	2.514	272.2	64.81	13.26
111	2008	241	1030	76.9	31.69	2.557	331.2	53.17	13.26
111	2008	241	1045	79.1	32.42	1.977	275.4	64.12	13.24
111	2008	241	1100	79.4	30.18	3.074	18.15	58.85	13.23
111	2008	241	1115	79.5	26.67	2.888	311.2	60.4	13.21
111	2008	241	1130	79.3	27.67	3.158	341.1	57.67	13.2
111	2008	241	1145	78.1	32.12	3.301	318.6	37.65	13.19
111	2008	241	1200	78.4	29.91	3.469	328.6	45.58	13.2
111	2008	241	1215	78.5	30.71	4.426	286.3	32.74	13.19
111	2008	241	1230	78.7	31.82	4.109	276.9	35.3	13.19
111	2008	241	1245	79.2	31.85	3.803	325.2	48.26	13.18
111	2008	241	1300	79.6	32.32	3.815	343.3	43.29	13.18
111	2008	241	1315	79.1	34.16	4.426	329.8	34.57	13.18
111	2008	241	1330	79.1	32.49	3.984	333.5	44.37	13.18
111	2008	241	1345	79.9	32.72	4.45	351.4	45.91	13.18
111	2008	241	1400	80.4	31.32	4.389	346	40.12	13.05
111	2008	241	1415	78.5	31.68	4.639	324.2	31.01	12.97
111	2008	241	1430	78.7	33.19	4.704	327	40.08	13
111	2008	241	1445	79.4	32.99	4.401	352.6	43.31	12.96
111	2008	241	1500	80	31.82	3.72	351.9	49.99	12.96
111	2008	241	1515	80.9	31.85	4.385	26.37	37.5	13.06
111	2008	241	1530	80.1	32.15	4.591	355.4	47.2	13.18
111	2008	241	1545	80.6	33.36	3.733	5.478	47.85	13.18
111	2008	241	1600	80.2	31.78	3.811	25.09	46.04	13.18
111	2008	241	1615	79.7	32.95	3.725	9.1	49.54	13.18
111	2008	241	1630	79.3	31.02	3.847	22	40.68	13.18
111	2008	241	1645	80.1	31.18	3.606	5.022	51.14	13.18
111	2008	241	1700	79.9	30.55	3.596	18.44	47.75	13.18
111	2008	241	1715	79.5	31.72	3.559	13.22	42.22	13.18
111	2008	241	1730	79	33.26	2.961	347	37.44	13.2
111	2008	241	1745	77.8	34.26	2.798	347.3	55.71	13.2
111	2008	241	1800	78	35.19	3.191	9.78	42.12	13
111	2008	241	1815	76.6	38.8	2.898	17.18	32.1	12.88
111	2008	241	1830	75.1	42.08	2.929	31.98	27.44	12.8
111	2008	241	1845	73.7	44.53	2.179	25.47	28.55	12.77
111	2008	241	1900	72.8	45.84	1.852	20.34	27.29	12.76
111	2008	241	1915	72.1	48.18	1.169	20.66	27.43	12.74
111	2008	241	1930	71.2	50.52	1.21	28.55	18.72	12.73
111	2008	241	1945	70.4	51.76	1.45	40.36	16.54	12.72
111	2008	241	2000	69.61	56.28	0.029	94.3	0.965	12.71
111	2008	241	2015	68.6	59.56	na	na	na	12.7
111	2008	241	2030	67.53	63.21	na	na	na	12.69
111	2008	241	2045	66.79	65.18	na	na	na	12.68
111	2008	241	2100	66.59	64.95	na	na	na	12.67
111	2008	241	2115	67.06	65.19	na	na	na	12.67
111	2008	241	2130	67.17	65.89	na	na	na	12.66
111	2008	241	2145	67.51	66.5	na	na	na	12.66
111	2008	241	2200	68.6	69.17	1.308	275.8	23.09	12.65
111	2008	241	2215	68.58	72.4	1.076	295.7	15.63	12.65
111	2008	241	2230	68.3	70.6	1.657	289.5	14.77	12.63
111	2008	241	2245	68.45	66.32	2.711	283.5	21.53	12.65
111	2008	241	2300	68.43	66.79	2.514	277.2	24.35	12.64
111	2008	241	2315	68.28	68.19	1.876	272	24.85	12.63
111	2008	241	2330	67.94	68.76	0.802	281.1	19.39	12.64
111	2008	241	2345	67.52	70.1	0.836	260.5	27.29	12.63
111	2008	241	2400	66.63	72.6	0.436	215	11.66	12.63
111	2008	242	15	65.78	74.4	0.335	216.3	14.53	12.63

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	242	30	65.05	76.1	0.237	185.8	14.13	12.62
111	2008	242	45	64.59	77.4	0.296	216.6	8.88	12.61
111	2008	242	100	64.14	79.1	0.244	199.8	16.16	12.61
111	2008	242	115	63.48	80.3	0.009	109.8	0.007	12.6
111	2008	242	130	62.7	82.3	na	na	na	12.59
111	2008	242	145	62.36	83.4	na	na	na	12.59
111	2008	242	200	62.21	84.4	0.195	230.1	6.692	12.58
111	2008	242	215	62.26	84.8	0.73	230.5	18.45	12.57
111	2008	242	230	62.31	85.5	1.294	235.9	24.5	12.57
111	2008	242	245	62.28	86.2	1.017	232.4	21.71	12.57
111	2008	242	300	62.13	86.5	0.18	219.3	14.12	12.56
111	2008	242	315	61.68	87	0.069	226.6	7.08	12.57
111	2008	242	330	61.38	86.7	na	na	na	12.55
111	2008	242	345	60.87	87.2	na	na	na	12.55
111	2008	242	400	60.57	87.3	na	na	na	12.55
111	2008	242	415	60.03	88	na	na	na	12.54
111	2008	242	430	59.7	88.6	na	na	na	12.54
111	2008	242	445	59.3	89	na	na	na	12.53
111	2008	242	500	59.01	89.5	na	na	na	12.52
111	2008	242	515	58.81	89.8	na	na	na	12.52
111	2008	242	530	58.62	89.8	na	na	na	12.51
111	2008	242	545	58.36	90.2	na	na	na	12.51
111	2008	242	600	58.11	90.2	na	na	na	12.5
111	2008	242	615	57.89	90.8	na	na	na	12.5
111	2008	242	630	58.12	90.5	na	na	na	12.49
111	2008	242	645	58.31	90.7	na	na	na	12.49
111	2008	242	700	59.44	89.6	na	na	na	12.84
111	2008	242	715	61.84	83	0.02	209.5	2.104	13.48
111	2008	242	730	64.08	75.8	0.905	229.7	22.26	13.46
111	2008	242	745	66.52	70.6	1.114	251.4	33.27	13.17
111	2008	242	800	66.74	71.4	1.408	227.2	17.77	13.06
111	2008	242	815	66.7	70.7	1.142	222.9	30.86	13.05
111	2008	242	830	67.03	70.4	1.992	233.9	34.19	13.1
111	2008	242	845	67.42	69.97	1.541	290.7	27.61	13.32
111	2008	242	900	67.7	67.73	2.778	289.5	35.32	13.39
111	2008	242	915	67.87	67.32	3.4	282.2	28.34	13.36
111	2008	242	930	68.18	65.45	3.428	291.6	22.13	13.36
111	2008	242	945	68.9	65.34	3.644	286.6	22.69	13.35
111	2008	242	1000	69.16	66.34	3.237	285	33.69	13.35
111	2008	242	1015	68.88	66.21	2.896	289.9	28.76	13.35
111	2008	242	1030	69.91	63.06	1.538	307.8	62.6	13.34
111	2008	242	1045	70	64.76	2.266	299.5	31.17	13.33
111	2008	242	1100	69.99	64.96	2.669	301.4	31.69	13.32
111	2008	242	1115	71	61.22	2.486	297.6	36.95	13.31
111	2008	242	1130	72.5	56.04	3.662	275	62.84	13.28
111	2008	242	1145	73	54.36	4.446	300.8	29.49	13.26
111	2008	242	1200	72	59.24	4.482	313.7	24.66	13.26
111	2008	242	1215	73.1	47.61	4.272	357.7	42.11	13.26
111	2008	242	1230	73.7	44.4	5.671	314.8	28.01	13.24
111	2008	242	1245	73	53.18	5.044	326.6	35.87	13.24
111	2008	242	1300	73.1	55.43	3.813	338.2	39.92	13.24
111	2008	242	1315	73.6	50.54	4.14	326.8	40.68	13.24
111	2008	242	1330	74.4	53.75	4.79	323.6	43.25	13.22
111	2008	242	1345	74.4	59.73	4.532	334.9	45.78	13.22
111	2008	242	1400	72.8	61.36	4.937	313.1	25.93	13.24
111	2008	242	1415	72.8	62.2	4.953	334.7	36.57	13.24
111	2008	242	1430	74.5	61.04	4.299	358.9	46.08	13.24
111	2008	242	1445	75.8	57.09	5.008	7.85	46.13	13.22
111	2008	242	1500	74	62.84	5.606	331.8	35.13	13.22
111	2008	242	1515	75.1	56.78	5.078	17.9	41.79	13.22

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	242	1530	76	58.39	5.266	22.3	33.56	13.12
111	2008	242	1545	75.3	64.07	4.756	13.34	40.7	12.99
111	2008	242	1600	73.2	67.71	4.218	339.3	32.95	13.08
111	2008	242	1615	73.4	66.71	5.006	334.3	37.4	13.06
111	2008	242	1630	73.4	69.32	4.538	339.5	43.81	12.9
111	2008	242	1645	73.4	69.56	4.563	334.1	44.28	12.85
111	2008	242	1700	72.6	69.4	4.182	330.6	43.07	12.82
111	2008	242	1715	71.7	72.7	4.8	322.4	28.7	12.78
111	2008	242	1730	71.3	72.5	2.925	346.9	39.4	12.78
111	2008	242	1745	71	74.2	3.19	344.9	37.27	12.77
111	2008	242	1800	70.9	74.4	3.604	339	37.79	12.78
111	2008	242	1815	70.8	75.3	4.047	333.2	35.46	12.75
111	2008	242	1830	70.2	76.7	2.784	7.93	41.91	12.73
111	2008	242	1845	69.6	77.9	3.464	335.7	25.92	12.73
111	2008	242	1900	69.4	77.9	2.555	336.7	32.37	12.71
111	2008	242	1915	69.33	77.9	3.175	330.5	24.53	12.71
111	2008	242	1930	69.28	78.5	3.17	322.3	25.01	12.71
111	2008	242	1945	69.22	78.4	3.16	318.5	25.92	12.69
111	2008	242	2000	69.25	78.8	2.385	338.4	33.18	12.69
111	2008	242	2015	69.29	78.8	3.1	317.7	25.84	12.68
111	2008	242	2030	69.36	78.9	2.548	332.6	28.45	12.68
111	2008	242	2045	69.42	79.4	2.745	322.1	23.87	12.67
111	2008	242	2100	69.54	79.2	2.755	327.2	36.57	12.67
111	2008	242	2115	69.6	80	3.025	321.7	24.09	12.67
111	2008	242	2130	69.63	79.6	3.845	313.2	22.37	12.67
111	2008	242	2145	69.56	80.5	3.378	333	28.32	12.66
111	2008	242	2200	69.53	80.6	2.592	334.8	21.33	12.65
111	2008	242	2215	69.52	81.3	1.739	334.2	28.96	12.65
111	2008	242	2230	69.51	81.4	2.08	326.4	26.38	12.65
111	2008	242	2245	69.54	82.4	2.353	325	19.81	12.64
111	2008	242	2300	69.59	82.8	2.54	322.6	23.19	12.64
111	2008	242	2315	69.7	82.7	2.247	330.2	23.57	12.63
111	2008	242	2330	69.73	82.9	2.442	329.2	25.92	12.63
111	2008	242	2345	69.8	82.7	1.918	332.6	25.91	12.63
111	2008	242	2400	69.86	81.6	1.505	357.8	26.41	12.63
111	2008	243	15	69.93	81.7	0.92	13.24	24.95	12.61
111	2008	243	30	69.94	82.6	1.001	357.2	31.81	12.61
111	2008	243	45	69.9	83.1	0.52	6.76	16.32	12.61
111	2008	243	100	69.89	83.3	0.887	353.7	26.56	12.6
111	2008	243	115	69.93	83.3	na	na	na	12.6
111	2008	243	130	69.91	83.5	na	na	na	12.59
111	2008	243	145	69.94	83	0.201	0.596	9.99	12.58
111	2008	243	200	70	82.9	0.24	330.5	14.03	12.59
111	2008	243	215	70.1	83.1	0.855	327.8	11.9	12.57
111	2008	243	230	70.2	82.8	1.953	325	20.45	12.57
111	2008	243	245	70.3	82.6	1.609	333.8	26.68	12.57
111	2008	243	300	70.4	82.7	0.791	325.4	22.27	12.56
111	2008	243	315	70.4	82.6	0.895	337.7	19.26	12.56
111	2008	243	330	70.5	82.6	0.655	321.8	16.83	12.55
111	2008	243	345	70.5	82.8	0.319	345.3	14.49	12.55
111	2008	243	400	70.4	83.2	1.115	339.5	24.82	12.55
111	2008	243	415	70.4	83.6	0.334	347.4	16.53	12.54
111	2008	243	430	70.4	84.4	0.185	327	8.85	12.54
111	2008	243	445	69.98	86.9	0.964	354.6	33.33	12.55
111	2008	243	500	69.15	88.9	0.508	337.4	14.39	12.53
111	2008	243	515	68.89	90.1	0.646	301	24.65	12.53
111	2008	243	530	68.8	90.6	0.645	284.8	16.88	12.53
111	2008	243	545	68.81	91	na	na	na	12.52
111	2008	243	600	68.8	91.4	0.567	220.4	21.83	12.52
111	2008	243	615	68.68	92.1	1.327	239.1	20.19	12.51

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	243	630	68.59	92.5	1.713	245.5	31.11	12.51
111	2008	243	645	68.61	92.8	1.419	236.3	21.31	12.51
111	2008	243	700	68.69	93	1.575	262.9	31.46	12.51
111	2008	243	715	68.73	93.1	1.306	256.8	29.26	12.51
111	2008	243	730	68.83	93.3	0.903	167.9	35.84	12.5
111	2008	243	745	68.85	93.2	2.028	145.4	43.15	12.51
111	2008	243	800	67.95	93.4	1.869	161.1	42.33	12.51
111	2008	243	815	67.51	93.7	0.893	214.4	21.67	12.5
111	2008	243	830	67.48	93.8	0.706	205.6	30.63	12.5
111	2008	243	845	67.68	93.9	0.647	187.4	58.06	12.49
111	2008	243	900	68.02	94	0.785	205.4	27.49	12.49
111	2008	243	915	68.64	94	0.834	190.2	24.51	12.6
111	2008	243	930	69	94.1	0.318	221.1	19.85	12.58
111	2008	243	945	69.73	93.7	1.246	257.2	30.48	12.78
111	2008	243	1000	71.3	93.9	1.203	246.9	36.71	13.3
111	2008	243	1015	73.1	91.3	1.274	261.4	32.42	13.29
111	2008	243	1030	73.6	88.9	3.241	309.1	32.86	13.27
111	2008	243	1045	74.8	85.9	1.988	8.32	44.03	13.26
111	2008	243	1100	75.2	84.8	2.973	74.8	46.66	13.06
111	2008	243	1115	74.5	86.2	1.752	95.6	42.69	13.08
111	2008	243	1130	75.9	81.7	2.206	99.9	37.09	13.24
111	2008	243	1145	75.6	80.3	2.375	122.9	30.03	13.24
111	2008	243	1200	75.9	80.4	2.991	137.4	45.51	13.24
111	2008	243	1215	76.4	77.6	2.882	152.6	50.16	13.22
111	2008	243	1230	76.5	76.4	2.46	155.5	49.42	13.22
111	2008	243	1245	78	70.5	2.799	169.3	49.88	13.2
111	2008	243	1300	78.1	74.9	3.13	117.1	44.15	13.2
111	2008	243	1315	78.4	70.5	3.003	140.5	38.97	13.18
111	2008	243	1330	77.9	72	3.823	126	41.48	13.18
111	2008	243	1345	79	67.81	3.487	138.3	51.7	13.18
111	2008	243	1400	80.2	67.48	3.432	158.1	48.54	13.18
111	2008	243	1415	80.8	66.91	3.324	157.2	55.08	13.16
111	2008	243	1430	80	66.98	2.901	186.4	62.99	13.17
111	2008	243	1445	79	66.71	2.719	127.7	49.93	13.17
111	2008	243	1500	79.6	65.24	2.945	150.6	56.65	13.18
111	2008	243	1515	80.1	60.06	3.436	97.8	50.15	13.18
111	2008	243	1530	81	60.29	3.154	146.2	55.4	13.05
111	2008	243	1545	81.5	60.33	2.923	112	47.81	13.02
111	2008	243	1600	81.2	59.49	2.45	123.1	38.06	13.04
111	2008	243	1615	82.8	57.11	2.634	120.2	67.07	13.13
111	2008	243	1630	82.6	56.74	2.843	158.1	52.16	13.04
111	2008	243	1645	82.2	56.94	2.942	164.8	49.4	13.04
111	2008	243	1700	81.5	58.75	2.796	127.9	47.67	13
111	2008	243	1715	81.5	57.45	2.462	150.8	42.06	12.95
111	2008	243	1730	81.1	57.89	2.228	129.9	47.12	12.9
111	2008	243	1745	80.6	59.63	2.156	116.3	42.51	12.84
111	2008	243	1800	80.2	62.27	2.295	98.6	30.78	12.81
111	2008	243	1815	79.7	61.4	1.746	95.9	23.92	12.78
111	2008	243	1830	79.2	69.89	2.674	57.3	24.19	12.76
111	2008	243	1845	77.1	74.1	2.828	32.78	30.19	12.74
111	2008	243	1900	76.2	75.3	1.982	24.42	26.58	12.74
111	2008	243	1915	75.6	77.1	1.606	26.01	26.27	12.73
111	2008	243	1930	75	78.1	2.505	30.85	22.33	12.72
111	2008	243	1945	74.5	78.2	1.734	33.7	21.77	12.72
111	2008	243	2000	74.4	77.5	0.815	75.1	28.46	12.7
111	2008	243	2015	74.3	76.7	0.174	107.3	31.04	12.7
111	2008	243	2030	74.2	75.6	na	na	na	12.69
111	2008	243	2045	74.4	76.4	na	na	na	12.69
111	2008	243	2100	74.4	77.8	0.46	26.72	15.98	12.69
111	2008	243	2115	74.3	77.7	1.63	36.1	15.86	12.68

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	243	2130	74	80.1	1.704	33.49	21.27	12.68
111	2008	243	2145	73.6	80.5	2.772	47.33	27.03	12.67
111	2008	243	2200	73.6	81.7	1.99	47.65	28.14	12.67
111	2008	243	2215	73.3	83.4	2.431	55.66	29.82	12.66
111	2008	243	2230	73	84.2	1.336	80.2	33.46	12.65
111	2008	243	2245	72.7	85.1	0.847	71	30.07	12.65
111	2008	243	2300	72.2	86.2	1.303	108.2	17.75	12.65
111	2008	243	2315	71.6	87.4	0.301	106.3	9.3	12.64
111	2008	243	2330	71.1	88.1	0.099	97.2	4.519	12.63
111	2008	243	2345	70.6	89.1	0.195	118.3	5.386	12.63
111	2008	243	2400	70.5	89.6	0.323	104.7	10.17	12.61
111	2008	244	15	70.4	89.4	0.666	111.8	18.12	12.61
111	2008	244	30	70.1	89	1.255	123.1	29.51	12.61
111	2008	244	45	69.64	88.5	0.678	146.5	29.58	12.6
111	2008	244	100	69.23	88.4	0.746	116.7	19.51	12.59
111	2008	244	115	68.91	88.4	1.213	137.5	34.77	12.59
111	2008	244	130	68.72	88.1	1.06	131.8	37.76	12.58
111	2008	244	145	68.48	88.2	0.515	105.9	15.67	12.57
111	2008	244	200	68.08	88.6	0.319	143.6	16.94	12.57
111	2008	244	215	67.81	89.1	0.44	141	23.7	12.56
111	2008	244	230	67.65	89.5	1.244	126.6	28.29	12.55
111	2008	244	245	67.46	89.6	1.149	128.1	26.67	12.55
111	2008	244	300	66.94	89.9	1.435	129.7	36.27	12.53
111	2008	244	315	66.72	89.5	1.2	133.2	40.45	12.54
111	2008	244	330	66.61	88.8	0.942	170.4	34.93	12.53
111	2008	244	345	66.49	87.9	0.976	135.3	38.3	12.52
111	2008	244	400	66.05	87.8	0.977	140.5	40.6	12.5
111	2008	244	415	65.74	86.9	1.369	119.7	33.28	12.52
111	2008	244	430	65.56	85.8	1.542	129	38.48	12.51
111	2008	244	445	65.15	85.9	1.269	116.7	29.96	12.51
111	2008	244	500	64.64	85.5	1.082	126	33.12	12.5
111	2008	244	515	64.51	84.3	1.359	123	38.04	12.5
111	2008	244	530	64.14	84.5	1.293	127.9	36.11	12.5
111	2008	244	545	63.6	85.7	1.74	124.7	30.59	12.48
111	2008	244	600	63.13	86.6	1.83	121.5	28.15	12.48
111	2008	244	615	62.92	86.5	2.469	122.1	31.67	12.47
111	2008	244	630	62.8	86.7	2.127	133.9	34.96	12.47
111	2008	244	645	62.8	85.8	1.919	125.1	35.71	12.47
111	2008	244	700	64.19	81.1	2.189	119.3	32.9	13.03
111	2008	244	715	66.06	77.3	1.878	127.1	36.06	13.42
111	2008	244	730	67.51	73.1	1.75	125.2	38.36	13.4
111	2008	244	745	68.53	69.68	2.517	127.4	28.84	13.39
111	2008	244	800	69.55	68.8	2.822	119.9	40.67	13.37
111	2008	244	815	70.7	65.79	2.611	133.7	40.61	13.35
111	2008	244	830	72.6	60.83	2.504	150.4	40.01	13.33
111	2008	244	845	73.7	58.65	2.997	138	54.81	13.31
111	2008	244	900	74	55.94	4.011	156.8	38.91	13.29
111	2008	244	915	75.1	52.83	3.98	155.4	50.42	13.29
111	2008	244	930	76.1	50.92	4.135	160.4	53.65	13.26
111	2008	244	945	76.5	50.75	4.188	151.7	55.8	13.26
111	2008	244	1000	77.5	49.23	4.563	171.8	44.21	13.24
111	2008	244	1015	77.8	48.06	4.399	173.3	41.74	13.24
111	2008	244	1030	79.2	44.39	4.464	174.7	50.2	13.22
111	2008	244	1045	80.3	41.21	4.22	167.4	46.07	13.21
111	2008	244	1100	81.4	36.97	4.311	160.2	55.39	13.2
111	2008	244	1115	81.3	34.19	4.845	165.5	51.53	13.18
111	2008	244	1130	82.1	30.58	3.892	147.3	61.56	13.18
111	2008	244	1145	82.5	32.35	4.293	172.6	46.55	13.16
111	2008	244	1200	82.2	31.78	5.06	155.4	51.71	13.16
111	2008	244	1215	81.9	33.78	5.161	180.4	47.54	13.16

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	244	1230	81.9	32.54	5.183	128.8	42.02	13.05
111	2008	244	1245	81.6	31.84	5.096	131.5	41.39	13.15
111	2008	244	1300	82.1	32.54	5.636	127.9	39.59	13.11
111	2008	244	1315	82.6	31.84	4.208	160.6	60.99	13.05
111	2008	244	1330	82.1	32.28	5.675	175.5	45.34	13.1
111	2008	244	1345	82.4	35.02	4.849	132.9	44.02	12.99
111	2008	244	1400	82.8	32.34	4.321	144.2	52.53	12.93
111	2008	244	1415	82.2	32.74	5.143	134.4	37.48	12.87
111	2008	244	1430	82.6	33.65	5.127	159.2	51.37	12.85
111	2008	244	1445	82.2	32.68	5.308	135.5	45.97	12.83
111	2008	244	1500	82.6	31.97	4.538	158.4	54.16	12.82
111	2008	244	1515	82.9	31.84	4.464	148.1	52.87	12.82
111	2008	244	1530	82.3	33.04	5.516	123.4	45.48	12.81
111	2008	244	1545	82.1	31.01	5.35	135.8	41.21	12.8
111	2008	244	1600	82.4	30.31	5.292	130.6	34.75	12.78
111	2008	244	1615	82.4	31.54	5.387	116	30.02	12.78
111	2008	244	1630	83	29.27	4.412	146.6	49.95	12.77
111	2008	244	1645	83.1	30.24	4.442	134.3	45.91	12.77
111	2008	244	1700	83	29.91	4.546	123	40.34	12.76
111	2008	244	1715	82.9	31.01	3.956	124.4	41.58	12.76
111	2008	244	1730	82.6	30.68	4.524	147.6	37.94	12.76
111	2008	244	1745	82.5	31.18	3.4	158.2	52.85	12.74
111	2008	244	1800	81.8	31.75	3.99	162.9	50.67	12.74
111	2008	244	1815	81.2	32.32	3.335	182.8	48.88	12.73
111	2008	244	1830	80.7	33.26	2.669	174.2	48.88	12.72
111	2008	244	1845	79.9	35.73	2.152	177.8	37.87	12.71
111	2008	244	1900	78.1	38.18	1.916	190	52.32	12.7
111	2008	244	1915	76.8	41.92	0.429	155.5	33.05	12.69
111	2008	244	1930	75.2	47.44	1.02	112	26.63	12.68
111	2008	244	1945	73.3	51.29	0.951	99.9	14.05	12.67
111	2008	244	2000	71.8	54.07	0.094	208.4	15.23	12.65
111	2008	244	2015	71.2	54.31	na	na	na	12.64
111	2008	244	2030	70.7	54.78	0.049	207.1	4.795	12.63
111	2008	244	2045	70.2	58.9	0.056	107.8	2.42	12.62
111	2008	244	2100	69.27	61.04	na	na	na	12.61
111	2008	244	2115	68.6	63.48	0.138	105.4	2.806	12.6
111	2008	244	2130	67.7	67.69	0.15	102.8	2.943	12.59
111	2008	244	2145	66.71	69.91	na	na	na	12.58
111	2008	244	2200	65.74	72.1	na	na	na	12.57
111	2008	244	2215	64.96	74.4	na	na	na	12.57
111	2008	244	2230	64.28	76.5	na	na	na	12.56
111	2008	244	2245	63.68	77.9	na	na	na	12.55
111	2008	244	2300	63.5	78.3	na	na	na	12.55
111	2008	244	2315	63.66	79.2	na	na	na	12.54
111	2008	244	2330	63.11	80	na	na	na	12.53
111	2008	244	2345	63.43	79.3	na	na	na	12.53
111	2008	244	2400	62.9	79.4	na	na	na	12.51
111	2008	245	15	63.08	78.8	na	na	na	12.51
111	2008	245	30	62.78	79.9	na	na	na	12.51
111	2008	245	45	62.18	81.6	na	na	na	12.5
111	2008	245	100	61.59	83	na	na	na	12.49
111	2008	245	115	61.21	83.6	na	na	na	12.5
111	2008	245	130	60.97	84	na	na	na	12.48
111	2008	245	145	61.46	81.8	na	na	na	12.48
111	2008	245	200	61.54	80.3	0.619	115.7	28.21	12.47
111	2008	245	215	61.93	78.9	0.413	114.8	22.47	12.47
111	2008	245	230	62.14	77.3	0.231	161.6	15.1	12.46
111	2008	245	245	61.97	78.1	0.18	181.4	20.17	12.46
111	2008	245	300	61.65	78.7	0.478	143.9	22.77	12.46
111	2008	245	315	61.71	78.6	0.272	113.4	11.38	12.45

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	245	330	61.36	79.5	0.615	121.6	15.29	12.45
111	2008	245	345	61.3	79.8	0.552	112.9	13.34	12.44
111	2008	245	400	60.98	80.6	na	na	na	12.44
111	2008	245	415	60.42	82.9	0.342	110.4	4.703	12.43
111	2008	245	430	59.81	83.8	0.018	117.9	0.877	12.43
111	2008	245	445	59.47	84.8	0.049	109.3	0.71	12.43
111	2008	245	500	59.43	85.3	na	na	na	12.43
111	2008	245	515	60.02	84.5	0.098	141.4	8.28	12.42
111	2008	245	530	60.41	83.7	0.571	132.3	23.62	12.42
111	2008	245	545	60.46	83.6	0.454	163.5	24.69	12.42
111	2008	245	600	60.34	83.6	0.242	123.8	14.62	12.42
111	2008	245	615	60.27	83.9	0.287	149.9	13.81	12.42
111	2008	245	630	60.12	84.5	0.499	123.3	23.02	12.42
111	2008	245	645	60.41	84.6	0.962	118.1	26.02	12.42
111	2008	245	700	61.9	81.3	0.946	129.7	39	13.14
111	2008	245	715	64.13	74.1	1.156	153.1	45.03	13.47
111	2008	245	730	65.79	70.6	1.487	146.9	50.61	13.44
111	2008	245	745	67.83	65.41	2.225	141.5	43.67	13.42
111	2008	245	800	69.28	62.55	2.541	149.2	39.83	13.4
111	2008	245	815	70.7	59.53	2.098	157.6	68.08	13.37
111	2008	245	830	71.6	57.96	2.971	161	48.87	13.36
111	2008	245	845	72.5	54.87	2.982	168.3	51.65	13.33
111	2008	245	900	73.4	53.5	3.654	165.1	48.2	13.32
111	2008	245	915	74.8	49.15	3.565	172.8	48.45	13.3
111	2008	245	930	75.8	46.57	3.287	152.2	47.82	13.29
111	2008	245	945	77.5	43.16	3.246	179.2	50.69	13.26
111	2008	245	1000	77	43.19	4.859	208.2	41.49	13.26
111	2008	245	1015	77.2	41.31	4.414	204.4	37.04	13.24
111	2008	245	1030	78.4	40.37	3.638	189.6	47.32	13.24
111	2008	245	1045	79.2	37.47	3.791	156	46.52	13.22
111	2008	245	1100	79.8	32.15	3.694	164.5	51.71	13.21
111	2008	245	1115	80.8	32.05	3.767	195.3	55.44	13.2
111	2008	245	1130	81.5	30.31	3.888	170.4	56.57	13.19
111	2008	245	1145	81.3	30.98	5.199	198.5	49.38	13.15
111	2008	245	1200	81.7	30.01	4.663	167.9	44.76	13.13
111	2008	245	1215	81.4	29.74	4.395	183.2	47.17	13.18
111	2008	245	1230	82.1	28.91	4.472	167.9	55.37	13.17
111	2008	245	1245	81.9	30.58	5.209	185.7	44.71	13.16
111	2008	245	1300	82.1	31.68	5.256	204.1	40.42	13.15
111	2008	245	1315	81.9	34.08	4.847	155.3	47.77	13.16
111	2008	245	1330	81.8	33.52	4.816	135.4	39.31	13.06
111	2008	245	1345	81.2	36.05	4.522	114.9	43.81	12.98
111	2008	245	1400	81.4	35.28	5.467	127.4	38.85	12.91
111	2008	245	1415	82	34.95	4.895	141.9	48.57	12.87
111	2008	245	1430	82.6	31.84	4.879	138.6	40.99	12.85
111	2008	245	1445	82.6	32.24	4.649	141.6	44.95	12.83
111	2008	245	1500	82.4	31.71	5.008	128.5	39.86	12.83
111	2008	245	1515	82.6	31.81	4.974	153.2	47.68	12.81
111	2008	245	1530	83.4	32.11	4.373	133.4	48.71	12.81
111	2008	245	1545	82.8	33.18	4.532	143.5	48.83	12.8
111	2008	245	1600	82.9	31.84	4.357	142.1	55.98	12.8
111	2008	245	1615	83.7	33.11	4.097	140.9	50.05	12.79
111	2008	245	1630	83.2	32.91	4.41	127.6	42.52	12.78
111	2008	245	1645	82.4	32.98	5.687	120	36.8	12.77
111	2008	245	1700	82.3	31.75	4.835	136	44.27	12.77
111	2008	245	1715	82.7	32.98	4.186	140.6	46.22	12.76
111	2008	245	1730	82.6	32.49	5.044	140.8	44.16	12.75
111	2008	245	1745	82.3	31.28	3.556	126.3	45.04	12.74
111	2008	245	1800	82	34.09	4.196	125.3	39.63	12.74
111	2008	245	1815	81	36.13	3.583	125.5	35.27	12.73

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	245	1830	80.3	37.73	3.517	112.4	28.52	12.72
111	2008	245	1845	78.6	39.84	3.557	126.1	40.49	12.7
111	2008	245	1900	77.2	41.48	2.86	124.3	32.21	12.7
111	2008	245	1915	76	43.56	2.117	117.6	41.46	12.69
111	2008	245	1930	74.8	46.71	1.784	102	20.27	12.68
111	2008	245	1945	73.7	50.35	0.974	97.3	22.88	12.67
111	2008	245	2000	72.2	53.1	1.052	96.9	17.83	12.65
111	2008	245	2015	71.3	56.35	0.268	103.7	5.774	12.65
111	2008	245	2030	69.8	59.5	0.921	95.1	12.38	12.63
111	2008	245	2045	68.96	60	0.009	137.2	0	12.62
111	2008	245	2100	68.8	61.57	0.198	108.9	2.819	12.62
111	2008	245	2115	67.79	63.38	0.302	112	4.907	12.61
111	2008	245	2130	67.4	64.69	na	na	na	12.6
111	2008	245	2145	66.72	66.81	0.522	91.1	8.73	12.59
111	2008	245	2200	66.28	67.61	0.018	17.44	2.203	12.58
111	2008	245	2215	66.13	68.98	0.056	31.12	2.411	12.57
111	2008	245	2230	65.58	70	na	na	na	12.56
111	2008	245	2245	65.12	72.1	0.063	76.1	7.23	12.56
111	2008	245	2300	64.46	73.6	0.286	109	3.489	12.55
111	2008	245	2315	63.87	75.5	na	na	na	12.55
111	2008	245	2330	63.51	77	na	na	na	12.53
111	2008	245	2345	63.01	77.5	na	na	na	12.53
111	2008	245	2400	63.14	77.3	na	na	na	12.52
111	2008	246	15	63.31	76.9	na	na	na	12.52
111	2008	246	30	62.95	78.6	na	na	na	12.52
111	2008	246	45	62.57	79.4	na	na	na	12.51
111	2008	246	100	62.24	80.7	na	na	na	12.5
111	2008	246	115	61.79	81.9	na	na	na	12.5
111	2008	246	130	61.49	82.8	na	na	na	12.49
111	2008	246	145	61.24	83.7	na	na	na	12.49
111	2008	246	200	61.1	84.6	na	na	na	12.48
111	2008	246	215	61.79	83	na	na	na	12.48
111	2008	246	230	62.79	81.8	na	na	na	12.47
111	2008	246	245	63.14	81.2	0.686	79.2	14.24	12.47
111	2008	246	300	62.9	81.8	0.85	64.82	21.05	12.47
111	2008	246	315	61.51	84.4	0.852	41.56	17.14	12.46
111	2008	246	330	60.67	85.8	0.478	59.32	11.26	12.46
111	2008	246	345	60.07	86.8	1.031	40.09	7.83	12.45
111	2008	246	400	59.56	88.1	0.791	57.96	20.7	12.44
111	2008	246	415	59.35	88.6	0.053	59.8	4.472	12.44
111	2008	246	430	58.94	89.4	na	na	na	12.44
111	2008	246	445	59.01	89.9	na	na	na	12.43
111	2008	246	500	59.27	90.4	na	na	na	12.42
111	2008	246	515	60.29	89.2	0.079	92.5	12.51	12.42
111	2008	246	530	61.11	87.8	0.125	117.7	5.12	12.42
111	2008	246	545	61.4	86.9	na	na	na	12.42
111	2008	246	600	61.28	87.1	na	na	na	12.42
111	2008	246	615	61.12	87.3	na	na	na	12.42
111	2008	246	630	61.24	87.3	0.326	195.7	13.38	12.42
111	2008	246	645	61.71	86.6	0.45	203.1	18.42	12.42
111	2008	246	700	63.07	83.4	1.129	187.6	29.66	13.01
111	2008	246	715	65.29	78.4	0.723	145.3	45.55	13.46
111	2008	246	730	67.34	74.1	1.101	145	44.49	13.43
111	2008	246	745	68.92	69.62	1.529	175.1	37.22	13.41
111	2008	246	800	70.7	65.19	1.429	159.7	38.27	13.39
111	2008	246	815	72.8	60.54	1.217	139.4	43.69	13.36
111	2008	246	830	72.4	64.14	2.749	110.9	26.48	13.34
111	2008	246	845	73.1	62.69	2.177	146.8	42.33	13.32
111	2008	246	900	73.5	63.16	2.924	110	32.68	13.3
111	2008	246	915	73.6	59.71	3.799	113.6	27.92	13.29

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	246	930	74.5	55.5	1.574	169.2	48.37	13.25
111	2008	246	945	77.4	48.21	3.17	161.1	45.87	13.26
111	2008	246	1000	78.3	45.79	4.365	194.7	39.82	13.24
111	2008	246	1015	79.4	43.89	3.696	205.6	37.75	13.24
111	2008	246	1030	79.5	43.85	4.953	188.7	36.66	13.22
111	2008	246	1045	79.7	44.52	4.941	201.1	43.02	13.21
111	2008	246	1100	80.8	42.51	3.809	188.6	49.3	13.2
111	2008	246	1115	81.3	41.51	4.003	194.7	43.6	13.18
111	2008	246	1130	81.8	40.91	3.581	169	46.19	13.18
111	2008	246	1145	82.4	38.73	3.585	167.8	63.8	13.17
111	2008	246	1200	82.9	37.56	3.559	218.1	53.38	13.16
111	2008	246	1215	82.3	40.03	4.661	224.2	38.98	13.16
111	2008	246	1230	83.5	35.52	3.061	203.4	58.15	13.15
111	2008	246	1245	83.6	35.88	3.71	183.3	42.88	13.14
111	2008	246	1300	84.4	34.41	2.995	186.6	62.77	13.14
111	2008	246	1315	82.6	37.65	3.996	304.9	85.8	13.13
111	2008	246	1330	83.2	34.11	3.428	231.1	38.43	13.05
111	2008	246	1345	84.9	31.81	2.959	218.8	87.7	13
111	2008	246	1400	83.1	41.16	3.056	320.9	68.59	12.95
111	2008	246	1415	81.9	42.33	3.823	319.4	45.01	12.9
111	2008	246	1430	81.3	49.48	5.274	334.8	33.11	12.89
111	2008	246	1445	78.7	49.85	5.393	328.8	31.98	12.88
111	2008	246	1500	79.8	49.92	4.428	339.6	43.15	12.88
111	2008	246	1515	78.9	48.13	4.768	325.8	33.27	12.87
111	2008	246	1530	80.1	47.56	4.651	7.18	41.36	12.87
111	2008	246	1545	79.9	47.13	4.911	4.683	43.07	12.87
111	2008	246	1600	79.7	48.43	4.486	341.3	45.74	12.98
111	2008	246	1615	80	49.23	3.862	13.99	34.19	13.16
111	2008	246	1630	77.8	54.38	4.049	355.4	38.58	13.05
111	2008	246	1645	77.9	53.11	3.888	9.75	41.78	13.03
111	2008	246	1700	78.9	54.51	4.067	23.4	38.32	12.88
111	2008	246	1715	78.3	55.41	3.69	26.11	41.61	12.82
111	2008	246	1730	77.8	54.55	4.111	30.8	29.93	12.78
111	2008	246	1745	77.4	54.71	4.355	37.42	29.94	12.76
111	2008	246	1800	77	56.45	3.627	24.16	27.85	12.74
111	2008	246	1815	76.3	59.49	2.743	36.52	28.01	12.72
111	2008	246	1830	76.1	59.06	3.283	40.81	19.32	12.72
111	2008	246	1845	75.2	62.88	1.721	33.26	44.73	12.72
111	2008	246	1900	74.3	64.39	1.55	34.93	27.38	12.71
111	2008	246	1915	73.6	65.56	1.9	78.2	27.72	12.7
111	2008	246	1930	72.9	67.67	0.877	93.9	19.81	12.7
111	2008	246	1945	72.2	69.04	0.436	91.3	11.6	12.68
111	2008	246	2000	72	68.64	1.877	338	36.53	12.68
111	2008	246	2015	71.9	68.79	1.984	17.63	67.03	12.67
111	2008	246	2030	71.9	69.76	1.732	330.1	29.95	12.67
111	2008	246	2045	71.7	72.6	1.838	351.7	41.77	12.67
111	2008	246	2100	71.3	72.3	1.952	2.452	28.41	12.65
111	2008	246	2115	71.3	77.6	3.813	321.8	28.97	12.65
111	2008	246	2130	71	77.8	5.272	313.6	25.6	12.65
111	2008	246	2145	70.4	77.9	4.279	327.3	23.58	12.64
111	2008	246	2200	69.77	74.4	3.7	340.8	29.79	12.64
111	2008	246	2215	70.1	68.93	3.918	333.1	30.02	12.63
111	2008	246	2230	70.3	65.72	3.507	329.4	24.44	12.63
111	2008	246	2245	70.4	67.02	3.499	338.8	32.9	12.62
111	2008	246	2300	70.5	71.6	4.303	309.9	37.37	12.61
111	2008	246	2315	70.1	75.2	5.755	301.4	25.66	12.61
111	2008	246	2330	69.17	78.4	4.962	295	31.21	12.61
111	2008	246	2345	67.83	83.8	5.475	297.7	29.36	12.61
111	2008	246	2400	66.21	83.4	4.959	295.3	24.88	12.6
111	2008	247	15	66.95	78.3	3.588	323.3	26.84	12.6

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	247	30	67.61	76.9	3.199	313.3	29.06	12.59
111	2008	247	45	68.05	77.9	4.317	307.6	17.01	12.59
111	2008	247	100	68.35	77.2	3.267	299.5	20.39	12.59
111	2008	247	115	68.48	77.6	3.731	313.8	28.44	12.58
111	2008	247	130	68.29	81.2	3.59	279.7	26.52	12.57
111	2008	247	145	67.94	78.8	4.103	299.7	20.17	12.57
111	2008	247	200	68.28	77.7	3.027	314.7	20.5	12.57
111	2008	247	215	68.48	77.5	2.709	319.6	26.65	12.57
111	2008	247	230	68.65	77.8	2.62	307.4	22.22	12.57
111	2008	247	245	68.52	78.7	0.32	262	19.32	12.56
111	2008	247	300	68.24	79.5	na	na	na	12.56
111	2008	247	315	68.1	79.3	0.419	330.9	26.68	12.55
111	2008	247	330	68.4	78.8	0.06	311.5	2.937	12.55
111	2008	247	345	68.16	80.5	0.789	104.2	11.89	12.55
111	2008	247	400	67.68	81.7	0.201	154.4	10.68	12.55
111	2008	247	415	67.45	82.8	0.155	126.8	8.15	12.55
111	2008	247	430	67.12	83.7	na	na	na	12.54
111	2008	247	445	66.7	84.7	na	na	na	12.53
111	2008	247	500	66.53	85.7	na	na	na	12.53
111	2008	247	515	66.45	85.8	na	na	na	12.52
111	2008	247	530	66.27	86.6	0.727	109.2	4.896	12.52
111	2008	247	545	65.99	87.4	0.114	117.5	7.14	12.51
111	2008	247	600	65.92	87.7	0.009	158.4	0.007	12.51
111	2008	247	615	66.1	87.5	0.018	204.1	0.244	12.51
111	2008	247	630	66.19	87.3	na	na	na	12.5
111	2008	247	645	66.05	87.7	na	na	na	12.5
111	2008	247	700	66.71	87.3	0.068	96.5	1.834	12.73
111	2008	247	715	68.65	80.8	0.48	99.7	4.867	13.29
111	2008	247	730	70.4	75.5	0.488	140.3	29.91	13.29
111	2008	247	745	70.7	74.9	0.546	84.4	18.82	13.09
111	2008	247	800	70.5	72.6	0.764	81.8	24.87	13.14
111	2008	247	815	72.8	64.71	0.738	34.97	37.22	13.32
111	2008	247	830	73.8	63.93	1.564	23.84	37.34	13.31
111	2008	247	845	73.6	62.12	1.974	12.72	58.33	13.29
111	2008	247	900	73.9	62.79	1.866	332.2	40.45	13.28
111	2008	247	915	75.4	63.15	2.019	13.43	48.48	13.26
111	2008	247	930	74.8	62.61	2.406	329	39.84	13.26
111	2008	247	945	74.1	59	2.569	277.7	41.7	13.25
111	2008	247	1000	74.2	58.89	3.735	305.7	38.87	13.24
111	2008	247	1015	75.7	50.64	3.144	346.3	34.72	13.24
111	2008	247	1030	75.7	49.93	3.896	341.4	42.78	13.22
111	2008	247	1045	76.8	47.76	3.398	356	46.11	13.22
111	2008	247	1100	76.8	49.53	4.22	332.7	36.36	13.21
111	2008	247	1115	77.1	49.1	4.452	5.309	45.11	13.2
111	2008	247	1130	78.9	46.02	3.594	10.69	52.89	13.2
111	2008	247	1145	79.2	46.29	4.194	13.18	45.79	13.18
111	2008	247	1200	79.2	45.55	4.474	12.05	43.83	13.18
111	2008	247	1215	78.9	46.16	4.827	342.6	36.32	13.18
111	2008	247	1230	78.9	47.39	5.3	340.7	26.95	13.18
111	2008	247	1245	79.6	48.53	5.074	359.9	38.88	13.17
111	2008	247	1300	79.6	47.89	5.288	25.64	31.19	13.17
111	2008	247	1315	80.6	49.67	5.578	15.21	36.28	13.16
111	2008	247	1330	80	49.2	5.137	7.54	35.67	13.16
111	2008	247	1345	80.7	49.09	5.58	32.76	35.79	13.16
111	2008	247	1400	79.6	49.42	5.715	37.33	26.14	13.09
111	2008	247	1415	79.5	50.09	6.166	34.73	30.36	13.01
111	2008	247	1430	79.4	50.06	6.626	30.71	26.76	12.97
111	2008	247	1445	79.6	50.36	5.84	26.47	25.43	12.94
111	2008	247	1500	80.1	50.4	5.624	38.94	28.13	12.94
111	2008	247	1515	79.4	51.06	5.526	37.06	30.02	12.9

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	247	1530	78.9	53.24	5.032	11.05	36.23	12.88
111	2008	247	1545	78.6	54.01	5.56	29.85	36.51	12.87
111	2008	247	1600	78.5	53.38	5.516	31.03	39.52	12.87
111	2008	247	1615	78	55.25	5.681	28.71	28.47	12.87
111	2008	247	1630	77.4	56.35	5.24	26.24	41.01	12.89
111	2008	247	1645	75.8	60.76	4.599	25.85	36.94	12.8
111	2008	247	1700	74.3	65.17	3.928	12.14	34.18	12.78
111	2008	247	1715	73.6	65.85	4.001	22.86	26.41	12.81
111	2008	247	1730	73.5	65.89	3.789	28.96	35.57	12.85
111	2008	247	1745	73.2	66.4	4.085	32.52	25.35	12.82
111	2008	247	1800	73	66.67	3.779	31.83	32.6	12.78
111	2008	247	1815	72.8	65.73	3.899	34.19	31.54	12.75
111	2008	247	1830	73.2	66.77	4.643	32.67	26.97	12.72
111	2008	247	1845	72.5	69.14	4.875	34.4	27.47	12.7
111	2008	247	1900	72	70	3.654	26.25	35.97	12.7
111	2008	247	1915	71.4	71.1	4.168	26.28	31.6	12.69
111	2008	247	1930	70.9	73.4	3.731	24.83	27.55	12.69
111	2008	247	1945	70.6	74.6	3.807	35.4	25	12.68
111	2008	247	2000	70.5	76.1	3.763	33.97	22.28	12.68
111	2008	247	2015	70.4	76.3	4.133	39.79	31.66	12.67
111	2008	247	2030	70.4	76.4	3.431	29.48	35.29	12.66
111	2008	247	2045	70.4	76.5	3.918	42.28	28.93	12.66
111	2008	247	2100	70.6	82	5.02	51.52	29.32	12.66
111	2008	247	2115	69.55	85.7	6.064	45.35	26.88	12.65
111	2008	247	2130	69.1	86.1	2.729	33.16	46.08	12.65
111	2008	247	2145	69.12	85.5	1.524	302.1	40.64	12.65
111	2008	247	2200	69.28	86.2	2.031	346.7	34.03	12.64
111	2008	247	2215	69.28	87	1.963	12.44	30.28	12.63
111	2008	247	2230	69.33	87.3	3.38	23.24	32.42	12.63
111	2008	247	2245	69.3	88.5	2.598	349.1	28.18	12.63
111	2008	247	2300	69.07	89.2	2.145	10.64	32.24	12.63
111	2008	247	2315	69.16	89.3	2.144	332.2	58.94	12.61
111	2008	247	2330	69.39	88.6	3.173	204.7	36.26	12.61
111	2008	247	2345	69.65	86.7	2.503	230.1	46.68	12.61
111	2008	247	2400	69.36	83.1	2.962	268.8	30.44	12.61
111	2008	248	15	69	82.5	2.273	348.1	40.22	12.6
111	2008	248	30	69.06	83.7	3.104	21.76	26.64	12.6
111	2008	248	45	69.36	83.4	2.683	20.46	30.35	12.6
111	2008	248	100	69.46	84.6	2.114	29.14	30.92	12.59
111	2008	248	115	69.62	84.9	2.611	34.74	32.08	12.59
111	2008	248	130	69.59	85.2	4.438	33.1	22.41	12.58
111	2008	248	145	69.64	85.6	4.158	34.02	23.39	12.57
111	2008	248	200	69.48	86.3	3.463	32.95	24.45	12.57
111	2008	248	215	69.44	86.6	3.535	31.34	31.2	12.57
111	2008	248	230	69.4	87.3	3.303	21.27	26.34	12.57
111	2008	248	245	69.36	87.8	3.626	31.95	24.95	12.56
111	2008	248	300	69.33	88.2	3.358	34.77	23.01	12.56
111	2008	248	315	69.32	88.7	2.614	31.75	24.52	12.55
111	2008	248	330	69.34	89.1	3.096	29.28	23.38	12.55
111	2008	248	345	69.49	89.5	3.338	36.03	22.98	12.55
111	2008	248	400	69.88	89.4	3.922	41.82	31.37	12.55
111	2008	248	415	70.1	89.5	3.932	45.54	31.64	12.55
111	2008	248	430	70	89.7	3.729	41.14	23.19	12.53
111	2008	248	445	69.91	90.4	3.033	46.27	25.81	12.53
111	2008	248	500	69.79	90.5	1.873	77.2	31.33	12.53
111	2008	248	515	69.48	90.8	0.634	80.9	22.5	12.52
111	2008	248	530	69	91.1	0.036	11.88	2.664	12.52
111	2008	248	545	68.62	91.5	0.169	22.09	7.61	12.51
111	2008	248	600	68.5	91.9	0.047	358.8	3.617	12.51
111	2008	248	615	68.41	92.2	0.998	37.99	10.8	12.51

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	248	630	68.43	92.8	2.49	34.09	23.48	12.5
111	2008	248	645	68.73	93.1	2.878	36.44	23.22	12.5
111	2008	248	700	69.22	93	2.639	39.79	16.06	12.52
111	2008	248	715	69.94	92.5	2.87	38.34	29.13	12.91
111	2008	248	730	70.8	90.6	3.418	45.07	30.29	13.27
111	2008	248	745	71.8	88	3.96	47.66	22.41	13.29
111	2008	248	800	72.7	84.8	4.184	44.77	23.54	13.33
111	2008	248	815	73.5	81.8	4.716	46.29	23.99	13.32
111	2008	248	830	74.6	79.7	4.675	36.28	27.29	13.29
111	2008	248	845	75.4	77.8	4.222	38.79	25.91	13.29
111	2008	248	900	76.4	76.7	3.724	34.09	30.64	13.28
111	2008	248	915	76.8	74.6	4.109	41.77	22.25	13.26
111	2008	248	930	77.5	73.2	3.363	39.62	44.71	13.25
111	2008	248	945	78.8	71	3.59	20.4	33.52	13.24
111	2008	248	1000	78.9	70.4	3.91	36.21	31.63	13.22
111	2008	248	1015	79.6	69.15	4.273	30.48	32.17	13.22
111	2008	248	1030	80	69.65	4.063	44.5	28.47	13.2
111	2008	248	1045	80.4	66.68	4.337	37.67	27.54	13.19
111	2008	248	1100	80.6	68.04	3.878	26.02	43.15	13.18
111	2008	248	1115	80.3	70.6	4.526	19.82	39.25	13.18
111	2008	248	1130	79.7	70.9	4.178	19.58	41.41	13.17
111	2008	248	1145	79.7	70.5	4.432	20.56	39.91	13.17
111	2008	248	1200	79.7	69.07	4.71	25.15	34.78	13.17
111	2008	248	1215	79.9	66.89	4.2	30.94	33.64	13.16
111	2008	248	1230	80.6	66.79	4.802	29.83	31.48	13.16
111	2008	248	1245	80.5	66.66	3.787	12.35	45.82	13.16
111	2008	248	1300	80.5	66.42	4.603	22.49	32.16	13.15
111	2008	248	1315	80.8	66.76	4.909	17.76	29.26	13.15
111	2008	248	1330	80.4	65.82	4.512	10.7	38.93	13.16
111	2008	248	1345	82	65.39	3.692	36.1	40.73	13.1
111	2008	248	1400	81.9	62.88	3.97	0.469	38.76	13.02
111	2008	248	1415	81.5	63.08	4.252	1.781	40.45	12.99
111	2008	248	1430	81.3	65.22	4.837	31.78	29.83	12.97
111	2008	248	1445	81.7	62.04	4.353	11.97	41.46	13
111	2008	248	1500	82.5	62.58	3.791	6.326	37.81	12.97
111	2008	248	1515	82	60.34	4.299	352	37.58	12.93
111	2008	248	1530	82.3	62.18	4.266	11.24	48.93	12.92
111	2008	248	1545	82.3	58.24	3.906	8.38	40.76	12.88
111	2008	248	1600	82.2	57.9	3.735	5.86	38.83	12.85
111	2008	248	1615	81.8	61.79	4.492	355.8	36.22	12.84
111	2008	248	1630	81.7	61.63	4.335	5.932	36.51	12.83
111	2008	248	1645	81.2	63.2	4.16	0.428	37.71	12.81
111	2008	248	1700	81.2	61.3	4.279	7.56	39.76	12.8
111	2008	248	1715	81	64.4	3.729	0.329	41.34	12.78
111	2008	248	1730	80.7	64.97	3.785	24.57	42.53	12.76
111	2008	248	1745	79.8	66.64	3.729	13.08	39.17	12.75
111	2008	248	1800	79.3	68.32	4.071	25.7	30.61	12.74
111	2008	248	1815	78.4	74.9	4.297	29.27	40.18	12.73
111	2008	248	1830	77	79.5	4.264	24.86	39.97	12.72
111	2008	248	1845	75.8	82.1	3.644	14.02	34.95	12.72
111	2008	248	1900	75.2	83.7	2.644	4.892	36.93	12.7
111	2008	248	1915	74.5	85.9	2.026	4.778	34.58	12.7
111	2008	248	1930	74	87.6	1.897	3.288	33.59	12.69
111	2008	248	1945	73.7	88.5	2.162	16.97	30.4	12.69
111	2008	248	2000	73.4	88.9	2.519	29.86	27.69	12.68
111	2008	248	2015	73.4	89.3	2.464	19.58	33.09	12.67
111	2008	248	2030	73.5	89.1	3.34	26.87	28.39	12.66
111	2008	248	2045	73.5	89.6	3.169	29.06	34.16	12.67
111	2008	248	2100	73.5	90.4	3.178	22.12	31.94	12.66
111	2008	248	2115	73.4	90.9	2.96	19.64	31.35	12.65

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	248	2130	73.3	91.2	3.217	23.4	36.84	12.65
111	2008	248	2145	73.2	91.5	3.213	23.46	37.96	12.65
111	2008	248	2200	73	91.5	3.158	21.18	32.35	12.64
111	2008	248	2215	72.9	91.8	2.582	19.93	39.99	12.64
111	2008	248	2230	72.9	92.1	3.481	25.02	29.68	12.63
111	2008	248	2245	72.9	92	3.213	23.97	35.28	12.62
111	2008	248	2300	72.9	92.1	3.495	17.7	38.02	12.62
111	2008	248	2315	73	92.3	3.581	26.17	35.4	12.62
111	2008	248	2330	73.1	92.3	4.875	26.52	31.8	12.61
111	2008	248	2345	73.2	92.1	4.8	36.98	32.61	12.61
111	2008	248	2400	73.1	92.1	4.986	21.81	34.04	12.6
111	2008	249	15	73	92.1	4.597	30.66	37.29	12.6
111	2008	249	30	73	92	3.59	34.99	33.62	12.6
111	2008	249	45	73	92	3.823	41.93	33.66	12.6
111	2008	249	100	73.1	91.8	3.233	37.31	31.87	12.59
111	2008	249	115	73.2	91.5	4.035	42.3	35.56	12.59
111	2008	249	130	73.3	91.3	3.775	46.79	33.24	12.59
111	2008	249	145	73.4	90.9	4.635	34.71	24.74	12.58
111	2008	249	200	73.4	90.9	3.855	27.74	33.03	12.57
111	2008	249	215	73.2	90.7	4.871	35.64	26.01	12.57
111	2008	249	230	72.8	90.9	3.449	33.36	27.46	12.57
111	2008	249	245	72.6	91.2	3.11	31.64	30.47	12.57
111	2008	249	300	72.5	91.5	2.943	24.58	25.13	12.56
111	2008	249	315	72.5	91.5	2.876	12.71	36	12.55
111	2008	249	330	72.5	91.4	2.977	19.25	33.83	12.55
111	2008	249	345	72.4	91.5	2.856	33.53	29.83	12.55
111	2008	249	400	72.1	91.7	2.06	13.58	32.08	12.54
111	2008	249	415	71.7	91.9	1.046	17.56	19.26	12.55
111	2008	249	430	71.3	92.1	0.454	9.96	12.43	12.53
111	2008	249	445	70.9	92.3	0.458	4.204	13.99	12.53
111	2008	249	500	70.7	92.6	0.084	336.1	6.193	12.53
111	2008	249	515	70.3	92.6	na	na	na	12.52
111	2008	249	530	69.76	93	na	na	na	12.51
111	2008	249	545	69.65	93.1	na	na	na	12.51
111	2008	249	600	69.61	93.2	0.061	190.3	3.535	12.51
111	2008	249	615	69.36	93.3	na	na	na	12.51
111	2008	249	630	69.33	93.9	0.605	317.9	15.09	12.49
111	2008	249	645	70.1	93.7	0.937	353.1	21.83	12.49
111	2008	249	700	70.4	93.8	0.536	2.363	18.29	12.5
111	2008	249	715	70.9	93.7	0.819	348.1	21.12	12.58
111	2008	249	730	71.6	93.8	0.907	2.468	21.62	12.69
111	2008	249	745	72.6	92.7	2.168	37.7	27.92	13.21
111	2008	249	800	73.6	90.5	2.761	27.69	36.06	13.23
111	2008	249	815	74.7	87.3	3.084	21.52	41.31	13.21
111	2008	249	830	75.9	81.6	3.228	29.93	46.76	13.21
111	2008	249	845	76	80.5	3.183	11.7	33.96	13.19
111	2008	249	900	76.8	77	3.013	4.271	41.43	13.17
111	2008	249	915	77.7	75.4	2.629	23.59	38.86	13.18
111	2008	249	930	77.7	79.4	4.327	6.526	35.95	13.22
111	2008	249	945	76.4	82	4.688	28.01	31.41	13.11
111	2008	249	1000	76.7	80.7	4.043	25.57	40.08	13.22
111	2008	249	1015	76.3	83.4	4.625	12.99	44.68	13.24
111	2008	249	1030	77.9	74.9	5.366	15.84	36.02	13.22
111	2008	249	1045	79.7	72.7	4.635	4.341	41.36	13.18
111	2008	249	1100	80.7	69.02	5.201	353.1	33.69	13.2
111	2008	249	1115	80.9	70.4	6.384	10.8	42.12	13.19
111	2008	249	1130	81.4	70.1	6.094	15.22	40.61	13.18
111	2008	249	1145	81.7	67.58	5.64	19.26	33.81	13.14
111	2008	249	1200	81.7	63.6	6.589	17.96	35.88	13.14
111	2008	249	1215	82.5	67.03	5.522	15.99	37.67	13.15

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	249	1230	82.3	68.5	6.219	23	35.73	13.15
111	2008	249	1245	82.2	68.93	5.518	5.111	36.09	13.15
111	2008	249	1300	82.5	66.22	6.329	12.34	41.06	13.15
111	2008	249	1315	82.2	67.42	6.597	13.37	36.97	13.14
111	2008	249	1330	82.9	64.75	5.967	10.39	43.06	13.13
111	2008	249	1345	82.7	65.92	6.088	12.56	36.35	13.05
111	2008	249	1400	81.2	73.2	7.07	333.8	25.66	13.01
111	2008	249	1415	80.1	72.3	6.65	356.6	35.58	13.04
111	2008	249	1430	80.4	68.48	6.319	348.1	44.24	13
111	2008	249	1445	81	66.11	5.689	4.499	36.4	12.94
111	2008	249	1500	81.1	70.1	6.104	351.7	30.57	12.97
111	2008	249	1515	79.5	71.4	6.753	349	38.97	12.88
111	2008	249	1530	80.1	68.98	5.459	2.619	43.49	12.88
111	2008	249	1545	80.2	70.2	6.251	354.3	40.52	12.86
111	2008	249	1600	79.4	71.6	6.503	347.7	40.8	12.85
111	2008	249	1615	79.4	71.8	5.828	356.3	40.64	12.81
111	2008	249	1630	78.8	72.1	6.589	20.03	36.87	12.8
111	2008	249	1645	78.7	71.8	5.802	3.364	36.52	12.78
111	2008	249	1700	78.9	73	5.04	347.6	43.16	12.76
111	2008	249	1715	77.9	73.7	5.503	352.8	34.2	12.76
111	2008	249	1730	77.3	75	6.43	346.1	37.76	12.74
111	2008	249	1745	76.8	74.9	5.419	356.3	38.63	12.73
111	2008	249	1800	76.5	76.5	5.054	338.4	39.3	12.72
111	2008	249	1815	76.1	77.6	4.244	354.3	37.84	12.72
111	2008	249	1830	75.3	80.2	5.236	340.2	36.53	12.71
111	2008	249	1845	74.5	82.6	4.726	346.2	40.6	12.7
111	2008	249	1900	74.1	83.8	4.702	333.5	27.04	12.7
111	2008	249	1915	73.7	84.3	4.299	334.2	29.71	12.69
111	2008	249	1930	73.5	85.1	4.23	338.5	28.31	12.68
111	2008	249	1945	73.3	85.7	4.381	334.6	25.59	12.68
111	2008	249	2000	73.2	86.2	3.837	328.9	28.3	12.67
111	2008	249	2015	73.2	86	3.898	327.4	27.58	12.66
111	2008	249	2030	73.3	85.9	3.769	331	31.91	12.67
111	2008	249	2045	73.4	86.1	3.322	326.7	28.85	12.65
111	2008	249	2100	73.6	85.7	3.928	328	27.14	12.65
111	2008	249	2115	73.8	85.8	3.716	320.2	32.65	12.65
111	2008	249	2130	73.8	86	4.027	313.8	16.92	12.64
111	2008	249	2145	73.8	86	3.904	309.1	23.83	12.64
111	2008	249	2200	73.8	86.3	4.597	314.5	20.59	12.63
111	2008	249	2215	73.8	86.6	4.148	325	31.49	12.63
111	2008	249	2230	73.7	87.3	4.506	325.3	24.76	12.63
111	2008	249	2245	73.6	88	4.375	318.7	20.64	12.62
111	2008	249	2300	73.5	88.6	4.005	315.2	22.07	12.62
111	2008	249	2315	73.5	89.7	4.069	318.2	29.01	12.61
111	2008	249	2330	73.3	91.4	3.708	324.9	25.95	12.61
111	2008	249	2345	73.2	92	3.158	332.4	24.23	12.61
111	2008	249	2400	73.2	92	4.903	316.5	19.65	12.6
111	2008	250	15	73.2	92.1	5.536	317	22.86	12.6
111	2008	250	30	73.2	92.7	4.899	327.1	26.01	12.6
111	2008	250	45	73.1	93.4	5.302	315.2	22.03	12.59
111	2008	250	100	73.1	93.8	3.743	341.4	39.03	12.58
111	2008	250	115	73.1	94.2	4.673	322.5	26.32	12.58
111	2008	250	130	73.3	94.3	5.429	338.4	32.57	12.58
111	2008	250	145	73.4	94.4	3.89	342.5	39.23	12.57
111	2008	250	200	73.6	94.5	4.677	328.1	21.02	12.57
111	2008	250	215	73.6	94.5	3.801	344.2	30.8	12.57
111	2008	250	230	73.3	94.5	2.667	348.2	29.36	12.57
111	2008	250	245	73.2	94.6	1.466	334.6	44.69	12.56
111	2008	250	300	73.3	94.7	1.294	64.49	48.55	12.56
111	2008	250	315	73.3	95	1.004	316.5	25.74	12.55

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	250	330	73.8	94.9	3.656	323.4	30.8	12.54
111	2008	250	345	74	94.9	4.508	334.9	35.02	12.54
111	2008	250	400	74	95	4.992	334.4	34.23	12.54
111	2008	250	415	74.3	95	5.417	342.1	38.4	12.54
111	2008	250	430	74.4	94.9	4.953	341	28.38	12.54
111	2008	250	445	74.3	95	4.248	347.8	35.88	12.53
111	2008	250	500	74.5	95.1	4.536	343.5	35.58	12.53
111	2008	250	515	74.4	95.1	4.575	353.2	39.77	12.53
111	2008	250	530	74.5	95.2	4.476	351.9	31.99	12.53
111	2008	250	545	74.5	95.2	3.612	5.08	40.26	12.52
111	2008	250	600	74.5	95.3	3.952	357.6	45.01	12.52
111	2008	250	615	74.5	95.2	3.698	3.661	36.46	12.52
111	2008	250	630	74.5	95.2	3.511	357.4	38.99	12.51
111	2008	250	645	74.5	95.3	3.96	2.903	35.91	12.52
111	2008	250	700	74.4	95.4	3.727	5.565	33.02	12.51
111	2008	250	715	74.5	95.4	4.013	6.538	39.6	12.51
111	2008	250	730	74.8	95.4	4.093	6.152	39.74	12.53
111	2008	250	745	75	95.3	3.779	357.6	37.84	12.54
111	2008	250	800	75.3	95.4	3.509	351.6	41.78	12.6
111	2008	250	815	75.7	95.3	4.073	356.4	33.94	12.66
111	2008	250	830	75.8	95.3	4.353	356.3	34.22	12.92
111	2008	250	845	76	95.2	3.938	346.9	36.14	13.07
111	2008	250	900	75.9	95	4.381	359.7	34.5	12.98
111	2008	250	915	75.8	94.9	3.833	357.2	33.54	12.94
111	2008	250	930	75.9	94.8	4.075	347.2	34.33	13.01
111	2008	250	945	75.8	94.5	4.468	346.4	38.1	13.08
111	2008	250	1000	75.8	94.3	5.373	334.8	30.97	13.1
111	2008	250	1015	75.7	94.4	5.328	331.2	29.37	13.08
111	2008	250	1030	76.3	93.7	4.883	332.9	28.69	13.11
111	2008	250	1045	77.4	92.1	5.399	328.5	30.59	13.24
111	2008	250	1100	77.6	90.6	5.824	323.7	29.72	13.22
111	2008	250	1115	77.8	90	5.121	334.2	34.84	13.22
111	2008	250	1130	77.6	88.8	5.294	326.7	29	13.08
111	2008	250	1145	77.8	88.2	5.636	319.3	33.7	13.11
111	2008	250	1200	77.3	89.5	5.872	316.6	27.37	13.1
111	2008	250	1215	76.7	90.8	5.465	321.5	24.42	13.05
111	2008	250	1230	77	89.7	5.6	313.8	29.75	13.02
111	2008	250	1245	76.7	90.6	5.473	316.5	27.19	13
111	2008	250	1300	76.5	91	4.448	310.6	25.84	12.91
111	2008	250	1315	76.4	91	5.322	304	28.26	12.9
111	2008	250	1330	76.2	90.9	4.855	303.1	26.52	12.92
111	2008	250	1345	76.4	90.7	3.729	292	42.55	12.99
111	2008	250	1400	76.6	90.2	4.738	290.8	32.01	13
111	2008	250	1415	76.7	89.6	4.395	280.3	39.09	13.02
111	2008	250	1430	77.3	88.6	4.508	301.4	36.48	13.1
111	2008	250	1445	77.4	88.6	4.639	289.1	42.58	12.92
111	2008	250	1500	76.6	91.1	5.002	289.2	30.23	12.83
111	2008	250	1515	75.8	92.6	5.634	297.5	35.22	12.79
111	2008	250	1530	75.5	93	6.027	298.6	28.83	12.76
111	2008	250	1545	75.3	93	6.247	291.8	29.9	12.74
111	2008	250	1600	75.2	93.1	6.501	285.6	33.08	12.73
111	2008	250	1615	75	93.2	6.63	297.1	26.77	12.72
111	2008	250	1630	74.8	93.5	7.24	295	28.5	12.71
111	2008	250	1645	74.7	93.6	7.71	286.7	33.47	12.71
111	2008	250	1700	74.6	93.9	7.13	284.9	34.27	12.71
111	2008	250	1715	74.3	94.4	6.658	281.6	38.52	12.69
111	2008	250	1730	74.2	94.9	8.37	296.7	30.35	12.69
111	2008	250	1745	74.2	95	9.11	296.7	24.52	12.68
111	2008	250	1800	74.4	94.9	10.48	311.7	24.12	12.68
111	2008	250	1815	74.7	94.6	9.92	306.8	26.87	12.67

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	250	1830	74.6	94.4	9.98	305.5	27.03	12.67
111	2008	250	1845	74.6	94.5	10.17	311.4	23.96	12.66
111	2008	250	1900	74.5	94.6	9.41	306	23.96	12.66
111	2008	250	1915	74.3	94.6	10.22	313	25.87	12.65
111	2008	250	1930	74.4	94.2	10.71	316.4	25.74	12.65
111	2008	250	1945	74.3	94.3	9.67	312.2	26.32	12.64
111	2008	250	2000	74.1	93.7	11.28	311.1	26.54	12.63
111	2008	250	2015	73.9	93.7	9.98	310.6	19.73	12.63
111	2008	250	2030	73.4	94.1	8.63	332.2	28.52	12.62
111	2008	250	2045	72.7	94.4	7.08	341.8	39	12.61
111	2008	250	2100	72.3	94.5	5.84	333.5	29.04	12.6
111	2008	250	2115	72.2	94.5	5.109	326.1	26.54	12.6
111	2008	250	2130	72.2	94.5	4.349	320.9	25.44	12.59
111	2008	250	2145	71.9	94.7	5.119	325.4	32.62	12.58
111	2008	250	2200	71.8	94.8	3.757	326.8	34.39	12.57
111	2008	250	2215	71.6	94.8	2.252	356.8	43.64	12.57
111	2008	250	2230	71.5	94.9	1.573	77.2	37.07	12.56
111	2008	250	2245	71.5	95	2.186	129.8	33.36	12.56
111	2008	250	2300	71.7	95	2.49	127.3	37.68	12.55
111	2008	250	2315	71.9	95	2.448	166.2	48.73	12.55
111	2008	250	2330	72	95.1	3.59	138.2	37.83	12.53
111	2008	250	2345	71	94.9	6.291	150.2	48.99	12.53
111	2008	250	2400	70.3	94.7	6.7	157.2	48.95	12.52
111	2008	251	15	69.66	94.4	6.958	159.4	55.54	12.51
111	2008	251	30	69.62	93.9	6.553	144.4	42.81	12.51
111	2008	251	45	69.9	92.4	6.078	143.8	42.35	12.51
111	2008	251	100	70.1	90.2	7.28	137.9	47.82	12.5
111	2008	251	115	70.3	88.5	6.529	133.4	42.29	12.49
111	2008	251	130	70.6	85.4	6.418	123.1	38.82	12.49
111	2008	251	145	71	82.6	6.416	126.5	39.96	12.49
111	2008	251	200	71.3	81.3	7.37	128.6	35.94	12.49
111	2008	251	215	71.4	80.8	7.22	113.3	25.52	12.49
111	2008	251	230	71.5	80.6	6.956	120.8	33.27	12.49
111	2008	251	245	71.5	82.3	6.95	113.2	24.11	12.49
111	2008	251	300	71	83.7	6.104	105.2	27.42	12.48
111	2008	251	315	70.9	82.9	6.174	106.8	29.89	12.48
111	2008	251	330	70.8	82.3	6.515	112.8	27.41	12.48
111	2008	251	345	70.7	81.7	6.41	103.3	27.95	12.48
111	2008	251	400	70.5	80.4	6.023	99.1	25.54	12.48
111	2008	251	415	70.4	79.3	6.201	104	28.18	12.47
111	2008	251	430	70.4	78.2	7.05	102.8	33.48	12.47
111	2008	251	445	70	78.6	6.051	107.6	27.98	12.47
111	2008	251	500	69.52	78.8	5.757	108	27.24	12.47
111	2008	251	515	69.15	78.7	6.215	104.4	26.02	12.47
111	2008	251	530	68.75	78.6	5.854	110.3	26.75	12.47
111	2008	251	545	68.53	79	5.157	101.1	29.68	12.46
111	2008	251	600	68.15	79.4	4.333	94.1	31.61	12.46
111	2008	251	615	67.89	79.3	4.236	95.8	38.22	12.46
111	2008	251	630	67.85	78.4	4.951	103.4	29.29	12.46
111	2008	251	645	67.89	78.4	4.806	97.1	27.19	12.45
111	2008	251	700	68.09	77.3	4.405	102	28.04	12.61
111	2008	251	715	68.52	76	4.099	113	26.62	13.29
111	2008	251	730	69	73.8	4.947	101.2	26.9	13.35
111	2008	251	745	69.58	72.2	4.287	112.5	36.94	13.33
111	2008	251	800	70	71.2	5.31	110.9	31.04	13.32
111	2008	251	815	70.6	67.22	5.568	102.4	25.56	13.31
111	2008	251	830	71.5	66.27	4.532	115.1	43.26	13.3
111	2008	251	845	72.3	64.93	5.131	113.6	33.76	13.29
111	2008	251	900	72.5	63.83	5.834	117	25.59	13.28
111	2008	251	915	73	63.29	5.324	122.7	34.56	13.28

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	251	930	73.8	60.08	5.29	128.9	36.12	13.26
111	2008	251	945	74.9	58.61	4.641	137.1	34.87	13.25
111	2008	251	1000	75.8	58.36	4.708	136.2	39.42	13.24
111	2008	251	1015	75.6	58.73	4.76	110.8	35.93	13.22
111	2008	251	1030	76.6	56.75	4.42	131.5	38.29	13.22
111	2008	251	1045	77.3	53.38	4.079	134.8	43.98	13.21
111	2008	251	1100	77	53.98	4.941	129	36.21	13.2
111	2008	251	1115	77.4	54.24	3.821	114.1	51.48	13.2
111	2008	251	1130	78.4	52.17	3.888	138.4	48.24	13.17
111	2008	251	1145	78.4	52.74	4.136	133.1	40.42	13.12
111	2008	251	1200	77.3	54.81	4.716	80.7	39.97	13.14
111	2008	251	1215	78.1	50.43	3.636	98.3	58.09	13.15
111	2008	251	1230	77.9	50.13	4.706	115.4	39.43	13.05
111	2008	251	1245	79.1	49.43	4.138	105.1	49.04	13.12
111	2008	251	1300	79.9	46.79	4.54	105.6	54.26	13.16
111	2008	251	1315	78.8	48.72	4.5	113.9	33.9	13.04
111	2008	251	1330	79	46.28	5.483	116.1	33.77	12.94
111	2008	251	1345	79.5	45.14	5.389	92.4	43.79	12.88
111	2008	251	1400	80.5	41.96	4.242	78.8	51.43	12.84
111	2008	251	1415	81	45.04	5.435	76.1	41.06	12.82
111	2008	251	1430	80	44.7	4.317	106.1	29.67	12.81
111	2008	251	1445	80.8	40.13	4.448	122.2	60.32	12.8
111	2008	251	1500	80.7	40.09	5.248	104.8	36.52	12.79
111	2008	251	1515	81.2	39.49	4.123	92.6	34.28	12.78
111	2008	251	1530	81	42.03	5.129	87.2	39.88	12.78
111	2008	251	1545	80.8	46.14	6.428	47.25	32	12.78
111	2008	251	1600	80.6	45.48	6.71	46.68	26.44	12.77
111	2008	251	1615	80.3	45.28	6.344	46.04	29.02	12.76
111	2008	251	1630	80.3	46.69	6.978	44.82	27.51	12.76
111	2008	251	1645	79.4	45.49	6.928	42.36	27.96	12.76
111	2008	251	1700	78.7	57.42	6.551	36.01	27.95	12.74
111	2008	251	1715	77.9	57.52	5.362	33.27	32.86	12.74
111	2008	251	1730	77.5	56.72	4.587	34.3	38.27	12.73
111	2008	251	1745	76.6	61.97	5.804	36.11	28.3	12.72
111	2008	251	1800	75.5	64.21	4.974	32	27.1	12.72
111	2008	251	1815	74.9	65.05	4.275	34.75	26.66	12.71
111	2008	251	1830	74.6	67.26	4.081	35.55	29.79	12.7
111	2008	251	1845	73.2	70.3	4.428	43.54	28.76	12.69
111	2008	251	1900	72.8	72	2.328	54.18	34.1	12.68
111	2008	251	1915	72.4	72.7	1.556	82.2	31.11	12.67
111	2008	251	1930	71.9	74.2	1.299	88.5	23.01	12.66
111	2008	251	1945	71.4	75.4	0.735	94.8	22.59	12.65
111	2008	251	2000	70.7	75.8	1.086	105.3	22.65	12.65
111	2008	251	2015	70.4	76.1	0.924	86.8	20.75	12.63
111	2008	251	2030	69.99	76.9	1.175	89.5	19.42	12.63
111	2008	251	2045	69.54	79.1	0.503	114	11.52	12.62
111	2008	251	2100	68.54	80.6	0.988	120.4	18.24	12.61
111	2008	251	2115	68.2	79.8	0.66	103.9	12	12.6
111	2008	251	2130	68	80.6	0.093	103.4	4.798	12.6
111	2008	251	2145	67.57	80.8	1.296	63.5	31.14	12.59
111	2008	251	2200	67.45	80.4	0.568	107.1	9.43	12.58
111	2008	251	2215	67.12	81	0.914	114.5	8.16	12.57
111	2008	251	2230	66.58	82.5	0.584	111.7	10.75	12.57
111	2008	251	2245	65.97	83.4	0.803	99	13.43	12.56
111	2008	251	2300	66.05	82.8	0.112	104.2	4.509	12.56
111	2008	251	2315	65.61	84.1	na	na	na	12.55
111	2008	251	2330	65.05	85.2	na	na	na	12.55
111	2008	251	2345	64.53	86.2	na	na	na	12.55
111	2008	251	2400	64.14	87.2	na	na	na	12.53
111	2008	252	15	64.02	87.4	0.11	81.9	7.17	12.53

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	252	30	64.47	83.6	1.565	105.1	15.29	12.52
111	2008	252	45	65.11	81.3	1.439	111.1	10.12	12.51
111	2008	252	100	65.37	79.4	1.661	109.2	16.09	12.51
111	2008	252	115	65.27	80.9	1.098	115.1	11.36	12.52
111	2008	252	130	64.67	81.1	1.419	107.8	18.9	12.51
111	2008	252	145	64.79	80.1	1.564	113.3	16.4	12.51
111	2008	252	200	64.58	81.6	0.429	114.4	8.83	12.5
111	2008	252	215	63.69	83.9	0.351	98.7	9.38	12.5
111	2008	252	230	63.04	85	0.553	112.4	13.14	12.49
111	2008	252	245	62.74	85.5	0.411	94.3	12.67	12.48
111	2008	252	300	62.56	85	1.443	100.4	16.48	12.48
111	2008	252	315	62.8	83.3	1.268	113.7	18.84	12.47
111	2008	252	330	62.75	82.5	0.796	115.9	14.68	12.47
111	2008	252	345	62.56	82	0.523	131.7	17.38	12.46
111	2008	252	400	62.29	82.2	0.127	126.3	5.161	12.46
111	2008	252	415	61.8	83.3	na	na	na	12.45
111	2008	252	430	61.22	84.7	na	na	na	12.45
111	2008	252	445	60.68	86	na	na	na	12.44
111	2008	252	500	60.17	87.1	na	na	na	12.43
111	2008	252	515	60.03	88.1	na	na	na	12.42
111	2008	252	530	59.94	88.7	0.14	83.8	11.32	12.42
111	2008	252	545	59.76	88.9	na	na	na	12.42
111	2008	252	600	59.71	89	0.151	90	8.75	12.42
111	2008	252	615	59.41	89.4	0.043	116.3	4.721	12.42
111	2008	252	630	59.17	89.8	0.291	100.3	5.886	12.41
111	2008	252	645	59.16	90.6	0.349	62.78	11.09	12.41
111	2008	252	700	60.37	90.1	0.985	44.91	12.23	12.72
111	2008	252	715	62.05	86.7	1.485	42.57	10.09	13.47
111	2008	252	730	63.87	81.2	2.107	37.96	12.95	13.46
111	2008	252	745	65.86	75.4	2.328	41.68	17.42	13.43
111	2008	252	800	67.42	70.3	2.285	48.52	28.6	13.42
111	2008	252	815	69.36	66.63	2.249	58.41	33.59	13.4
111	2008	252	830	70.4	62.78	2.43	64.13	37.26	13.38
111	2008	252	845	71.2	59.49	2.332	104	31.77	13.35
111	2008	252	900	72	56.41	2.877	86.7	34.03	13.33
111	2008	252	915	73.6	52.29	2.679	105.8	36.06	13.31
111	2008	252	930	75.3	46.31	2.727	126.3	51.74	13.29
111	2008	252	945	75.3	47.94	3.388	117.2	31.05	13.27
111	2008	252	1000	76.8	40.98	2.963	129.1	45.33	13.26
111	2008	252	1015	76.6	40.21	3.853	110.7	30.78	13.24
111	2008	252	1030	76.7	40.24	3.868	119.5	35.84	13.23
111	2008	252	1045	77.3	37.6	3.859	125.3	44.26	13.22
111	2008	252	1100	78.5	35.93	3.896	137.7	44.41	13.2
111	2008	252	1115	77.7	37.8	3.87	102.5	41.13	13.2
111	2008	252	1130	79.2	34.76	3.548	124	50.99	13.14
111	2008	252	1145	79.2	31.78	3.592	79.9	46.57	13.14
111	2008	252	1200	78.7	30.78	4.184	91.4	35.19	13.17
111	2008	252	1215	79.1	30.81	3.676	129.2	44.99	13.17
111	2008	252	1230	80.3	31.07	2.731	152.3	68.46	13.14
111	2008	252	1245	81.1	31.67	2.777	160.9	57.16	13.15
111	2008	252	1300	81.6	31.27	3.081	52.62	46.36	13.13
111	2008	252	1315	81.4	46.81	4.273	8.38	72.6	13.04
111	2008	252	1330	79	47.84	5.022	352.7	35.05	12.95
111	2008	252	1345	79.9	39.86	4.726	3.259	40.8	12.87
111	2008	252	1400	81.3	43.58	5.105	28.95	33.61	12.86
111	2008	252	1415	80.4	48.16	5.971	26.06	29.99	12.84
111	2008	252	1430	79.1	47.99	6.773	29.1	23.8	12.82
111	2008	252	1445	79.2	47.89	5.651	34.47	35.15	12.82
111	2008	252	1500	78.7	47.89	5.785	35.73	31.54	12.81
111	2008	252	1515	78.4	46.66	5.959	30.37	40.02	12.8

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	252	1530	77.7	43.38	6.648	41.56	32.32	12.79
111	2008	252	1545	78.7	39.14	4.728	32.61	37.37	12.78
111	2008	252	1600	78.7	38.03	5.898	38.63	32.44	12.77
111	2008	252	1615	78.6	41.44	4.941	39.43	28.87	12.76
111	2008	252	1630	78.4	48.73	4.432	26.97	36.69	12.76
111	2008	252	1645	78.1	44.49	5.052	31.03	31.44	12.75
111	2008	252	1700	77.7	43.55	4.823	36.94	27.37	12.74
111	2008	252	1715	77.5	45.52	4.273	16.59	37.61	12.73
111	2008	252	1730	76.4	52.04	4.244	24.84	38.83	12.73
111	2008	252	1745	75.6	52.24	4.186	34.14	31.98	12.72
111	2008	252	1800	75.3	50.51	4.144	32.44	30.18	12.72
111	2008	252	1815	74.8	52.69	2.852	27.77	35	12.71
111	2008	252	1830	74.2	55.16	2.887	29.42	35.23	12.7
111	2008	252	1845	72.7	58.44	2.367	24.14	30.76	12.69
111	2008	252	1900	71.7	63.89	2.158	27.59	33.33	12.68
111	2008	252	1915	70.8	65.5	2.929	31.55	24.72	12.67
111	2008	252	1930	70.3	67.28	2.432	36.14	29.85	12.66
111	2008	252	1945	70	69.19	2.594	32.15	29.6	12.65
111	2008	252	2000	69.8	70.4	2.146	34.62	34.48	12.65
111	2008	252	2015	69.58	69.9	2.02	28.92	28.23	12.64
111	2008	252	2030	69.47	70.4	1.712	31.69	22.77	12.63
111	2008	252	2045	69.3	72.6	1.715	23.61	33.06	12.63
111	2008	252	2100	69.02	74.6	2.266	30.35	22.6	12.62
111	2008	252	2115	68.87	75	2.227	27.22	27.77	12.61
111	2008	252	2130	68.74	76.2	1.89	27.69	26.19	12.61
111	2008	252	2145	68.44	77.5	1.645	25.3	24.84	12.6
111	2008	252	2200	68.2	78.8	1.919	21	27.39	12.6
111	2008	252	2215	68.2	79.1	2.132	15	28.11	12.59
111	2008	252	2230	68.31	78.5	2.058	19.05	27.85	12.58
111	2008	252	2245	68.49	78.1	2.455	19.66	29.74	12.57
111	2008	252	2300	68.44	77.4	2.637	21.74	27.75	12.57
111	2008	252	2315	68.62	78.1	2.464	29.69	23.41	12.57
111	2008	252	2330	68.42	80.1	1.891	19.88	30.33	12.57
111	2008	252	2345	68.3	81.9	2.62	24.37	22.46	12.57
111	2008	252	2400	68.31	83.6	2.149	15.72	35.28	12.55
111	2008	253	15	68.48	84.5	2.866	24.95	25.98	12.55
111	2008	253	30	68.53	85.2	1.682	26.62	26.15	12.55
111	2008	253	45	68.14	86.6	1.453	12.93	28.96	12.55
111	2008	253	100	67.85	87.6	0.334	27.69	16.56	12.55
111	2008	253	115	67.56	88.8	0.406	16.69	9.26	12.54
111	2008	253	130	67.47	89.4	0.036	3.358	7.04	12.53
111	2008	253	145	67.45	90	0.363	3.386	12.88	12.53
111	2008	253	200	67.36	90.6	0.031	16.25	0.093	12.53
111	2008	253	215	67.27	91.2	na	na	na	12.53
111	2008	253	230	67.55	91.4	1.738	22.88	24.02	12.52
111	2008	253	245	67.98	90.6	2.07	22.37	28.76	12.51
111	2008	253	300	68.27	90.1	2.856	25.65	29.46	12.51
111	2008	253	315	68.66	89.8	2.627	25.28	38.97	12.5
111	2008	253	330	68.99	89.4	3.543	22.07	30.92	12.5
111	2008	253	345	69.2	88.8	3.674	33.46	33.08	12.49
111	2008	253	400	69.32	88.1	3.789	29.35	24.33	12.49
111	2008	253	415	69.3	88	3.769	31.23	27.95	12.49
111	2008	253	430	69.52	87.1	3.473	30.26	32.78	12.49
111	2008	253	445	69.75	86.6	3.557	33.9	37.92	12.49
111	2008	253	500	69.74	86.3	2.935	20.57	36.38	12.48
111	2008	253	515	69.75	86.1	3.537	25.74	35.56	12.48
111	2008	253	530	69.87	86.2	2.619	21.38	37.22	12.47
111	2008	253	545	70	86.5	3.457	27.85	27.77	12.47
111	2008	253	600	70.1	86.7	3.471	23.03	35.14	12.47
111	2008	253	615	70.1	87.2	3.723	23.16	27.1	12.47

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	253	630	70.2	87.9	3.267	22.44	29.71	12.47
111	2008	253	645	70.4	88	4.129	30.74	29.87	12.47
111	2008	253	700	70.6	87.7	4.24	20.37	41.27	12.47
111	2008	253	715	70.9	87.2	3.809	21.77	35.82	12.47
111	2008	253	730	71.3	86	4.188	25.97	40.49	12.47
111	2008	253	745	71.6	85.6	4.418	24.47	32.59	12.51
111	2008	253	800	71.9	85.1	5.423	26.35	37.53	12.51
111	2008	253	815	72.4	84.7	5.753	21.2	34.02	12.7
111	2008	253	830	72.6	84.5	5.731	19.2	40.47	12.78
111	2008	253	845	73.2	83.7	6.815	19.2	34.12	13.08
111	2008	253	900	73.4	84.4	6.775	21.49	32.06	13.11
111	2008	253	915	73.1	85.3	6.603	19.3	39.7	13.05
111	2008	253	930	73.3	85.1	7	26.28	30.16	13.06
111	2008	253	945	73.3	85.1	7.16	29.05	34.64	13.03
111	2008	253	1000	73.2	85.2	7.24	23.49	40.33	13.01
111	2008	253	1015	73.2	84.8	7.19	36.1	38.78	13
111	2008	253	1030	73.4	84.1	7.52	33.99	26.47	12.99
111	2008	253	1045	73.2	84.3	7.38	33.69	26.38	12.87
111	2008	253	1100	73.1	85	6.732	32.82	30.86	12.84
111	2008	253	1115	72.7	86	6.418	21.64	35.59	12.77
111	2008	253	1130	72.4	87.5	5.838	40.79	37.51	12.74
111	2008	253	1145	71.8	90.1	5.884	45.77	30.45	12.74
111	2008	253	1200	71.1	87.2	5.856	67.33	40.51	12.71
111	2008	253	1215	67.5	89.6	5.099	118.8	32	12.68
111	2008	253	1230	65.42	92.1	2.024	134.3	33.48	12.65
111	2008	253	1245	65.17	92.9	0.857	101.8	39.9	12.64
111	2008	253	1300	65.37	93.6	1.364	41.7	38.24	12.63
111	2008	253	1315	65.72	93.5	1.586	36.27	24.63	12.71
111	2008	253	1330	65.92	93.9	1.298	121.9	41.32	12.87
111	2008	253	1345	66.67	93.8	1.323	351.6	48.73	13.03
111	2008	253	1400	67.67	92.4	1.819	348.9	35.23	13.24
111	2008	253	1415	67.6	91	2.461	348.5	33.11	13.08
111	2008	253	1430	67.23	90.8	3.213	335.3	29.86	12.98
111	2008	253	1445	67.08	91	2.955	348.1	33.67	12.93
111	2008	253	1500	67.04	90	3.565	332.8	25.39	12.95
111	2008	253	1515	67.14	89.9	2.525	348	31.33	12.99
111	2008	253	1530	67.32	88	2.995	325.3	28.28	13.01
111	2008	253	1545	67.91	87.5	2.643	8.89	39.54	13.03
111	2008	253	1600	68.45	87.5	2.551	35.7	23.95	12.93
111	2008	253	1615	68.33	88.4	2.144	30.96	22.9	12.87
111	2008	253	1630	68.34	89	2.069	29.98	25.75	12.82
111	2008	253	1645	68.31	88.2	3.07	29.95	39.08	12.8
111	2008	253	1700	68.13	88.3	2.602	28.34	25.38	12.74
111	2008	253	1715	67.92	88.4	2.242	38.5	28.69	12.73
111	2008	253	1730	68	88.5	2.094	61.66	35.69	12.71
111	2008	253	1745	67.98	89	2.153	44.93	30.41	12.68
111	2008	253	1800	67.96	89.4	1.698	20.45	28.64	12.67
111	2008	253	1815	68.05	89.6	1.449	50.01	40.94	12.65
111	2008	253	1830	68.17	90	1.377	46.72	40.07	12.64
111	2008	253	1845	68.21	90.4	1.96	28.01	41.72	12.63
111	2008	253	1900	68.23	90.4	1.828	34.54	40.85	12.61
111	2008	253	1915	68.1	90.7	1.849	32.94	32.2	12.59
111	2008	253	1930	67.95	91.3	1.756	24.04	24.91	12.57
111	2008	253	1945	67.96	91.7	3.203	27.46	26.06	12.57
111	2008	253	2000	68.08	91.5	4.037	46.9	32.67	12.55
111	2008	253	2015	68.17	91.2	4.401	41.51	25.92	12.55
111	2008	253	2030	68.18	91.3	3.704	60.96	38.84	12.54
111	2008	253	2045	68.15	91.6	3.583	64.47	29.79	12.29
111	2008	253	2100	68.01	91.6	3.178	76.6	35.87	12.52
111	2008	253	2115	67.73	91.8	2.671	70.7	33.25	12.51

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	253	2130	67.52	92	2.322	94.4	24.13	12.5
111	2008	253	2145	67.37	92.2	1.396	107.3	30.18	12.49
111	2008	253	2200	67.29	92.3	1.577	97.5	21.12	12.49
111	2008	253	2215	67.32	92.4	2.03	108.4	19.55	12.49
111	2008	253	2230	67.37	90.2	2.339	144.4	39.35	12.48
111	2008	253	2245	65.97	85.7	4.186	195.5	27.68	12.47
111	2008	253	2300	65.01	85.2	3.287	194.5	29.98	12.47
111	2008	253	2315	64.64	86	2.77	196.4	31.52	12.46
111	2008	253	2330	64.34	86.4	2.243	188.7	33.07	12.46
111	2008	253	2345	63.99	87.3	1.566	198.5	34.7	12.45
111	2008	253	2400	63.8	87.8	1.592	202.7	27.98	12.45
111	2008	254	15	63.58	88.3	1.523	207.3	33.64	12.44
111	2008	254	30	63.33	88.3	1.008	205.8	35.25	12.44
111	2008	254	45	63.19	88.6	0.207	209.3	13.12	12.44
111	2008	254	100	63.06	88.9	0.557	181.9	13.8	12.44
111	2008	254	115	63.05	89.1	0.444	132.6	19.04	12.44
111	2008	254	130	62.94	89.3	0.138	149.7	12.27	12.44
111	2008	254	145	62.87	89.4	0.102	174	3.709	12.43
111	2008	254	200	62.87	88.9	0.476	90.3	25.88	12.43
111	2008	254	215	62.76	85.9	1.073	175	32.89	12.43
111	2008	254	230	62.76	83.2	0.838	191.2	25.39	12.43
111	2008	254	245	62.75	82.7	1.095	131.1	36.66	12.43
111	2008	254	300	62.51	83.1	0.234	178.5	16.01	12.43
111	2008	254	315	62.32	84	0.64	125.7	25.19	12.43
111	2008	254	330	62.32	82.7	1.128	166.7	38.6	12.42
111	2008	254	345	62.3	79.2	2.095	199.3	29.17	12.42
111	2008	254	400	62.27	79.2	2.258	198.8	32.24	12.42
111	2008	254	415	62.19	78.8	2.232	191.7	38.37	12.42
111	2008	254	430	62.19	78.1	1.236	167	60.25	12.42
111	2008	254	445	62.26	75.9	1.72	189.5	34.66	12.42
111	2008	254	500	62.09	73.4	1.889	181.3	36.7	12.42
111	2008	254	515	61.98	72.5	2.244	181.7	45.65	12.41
111	2008	254	530	61.54	72.6	2.149	164.8	57.76	12.41
111	2008	254	545	60.78	74.5	2.179	160.3	49.45	12.42
111	2008	254	600	60.1	76.2	1.133	165.4	41.81	12.41
111	2008	254	615	59.16	78.7	0.79	116.3	42.21	12.4
111	2008	254	630	58.37	81.4	1.658	119	26.97	12.4
111	2008	254	645	57.92	82.3	1.348	151.7	29.62	12.4
111	2008	254	700	58.66	79.4	1.52	168.8	41.12	12.72
111	2008	254	715	59.95	74.8	2.225	183.4	43.26	13.47
111	2008	254	730	61.18	72	2.871	188.9	35.51	13.45
111	2008	254	745	62.28	70	3.058	188.9	30.65	13.43
111	2008	254	800	63.64	67.21	3.412	180.5	40.6	13.43
111	2008	254	815	64.3	64.36	3.606	177.7	39.4	13.41
111	2008	254	830	65.07	62.55	3.992	179.4	48.4	13.4
111	2008	254	845	65.25	59.57	5.207	187.8	33.76	13.39
111	2008	254	900	66.22	56.36	3.972	190.1	52.98	13.37
111	2008	254	915	66.54	56.39	4.643	196.4	35.38	13.36
111	2008	254	930	67.3	53.88	4.563	191.7	40.71	13.35
111	2008	254	945	68.06	51.97	4.176	192.4	43.97	13.35
111	2008	254	1000	68.11	52.57	4.75	179.9	35.26	13.33
111	2008	254	1015	68.37	48.79	4.837	179.6	41.24	13.32
111	2008	254	1030	68.81	49.32	5.217	212.1	36.32	13.31
111	2008	254	1045	69.84	46.97	4.718	196.3	37.75	13.29
111	2008	254	1100	70	44.63	4.53	197.6	33.56	13.29
111	2008	254	1115	70.6	43.53	5.078	176.3	36.46	13.27
111	2008	254	1130	70.8	43.03	4.903	177.8	45.37	13.21
111	2008	254	1145	71.1	40.55	4.091	186.7	41.82	13.07
111	2008	254	1200	71	40.32	4.923	187.7	33.98	13.26
111	2008	254	1215	71.4	41.39	4.653	180.1	48.33	13.21

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	254	1230	71.1	42.69	4.681	201.4	39.97	13.18
111	2008	254	1245	71.9	41.22	4.486	209.7	38.14	13.2
111	2008	254	1300	72.1	40.99	4.238	215.4	41.47	13.15
111	2008	254	1315	72.2	42.86	4.2	184.1	51.66	13.03
111	2008	254	1330	72.6	39.68	4.019	165.8	48.22	12.93
111	2008	254	1345	71.9	41.39	4.083	166.5	43.44	12.87
111	2008	254	1400	72.6	39.51	3.857	173.4	49.82	12.84
111	2008	254	1415	73.2	36.37	3.455	161	41.94	12.84
111	2008	254	1430	73.2	40.61	3.938	170.5	59.15	12.83
111	2008	254	1445	72.8	40.41	3.483	206.1	50.56	12.86
111	2008	254	1500	72.7	39.97	3.37	214.1	39.79	12.84
111	2008	254	1515	72.9	37.87	3.286	187.1	48.77	12.87
111	2008	254	1530	72.9	37.47	3.596	183.1	55.52	12.9
111	2008	254	1545	72.8	38.04	3.679	184	41.41	12.84
111	2008	254	1600	72.5	37	3.978	251.4	45.36	12.84
111	2008	254	1615	72.9	37.04	3.107	213.7	51.4	12.79
111	2008	254	1630	72.9	37.38	2.896	214.8	49.61	12.78
111	2008	254	1645	71.6	41.39	3.005	210.4	48.52	12.78
111	2008	254	1700	70.4	41.12	2.027	194.6	40.61	12.77
111	2008	254	1715	70	42.03	2.455	200.5	37.65	12.76
111	2008	254	1730	69.89	41.42	1.83	230.9	36.6	12.76
111	2008	254	1745	69.74	50.22	1.749	288.2	34.46	12.73
111	2008	254	1800	68.64	53.27	2.332	7.78	48.12	12.71
111	2008	254	1815	68.08	54.04	2.05	352.5	35.76	12.71
111	2008	254	1830	67.91	54.61	2.181	355.4	32.46	12.7
111	2008	254	1845	67.36	56.39	1.931	26.86	39.65	12.69
111	2008	254	1900	66.57	58.59	0.858	16.07	36.62	12.68
111	2008	254	1915	65.76	61.14	1.088	28.54	19.14	12.67
111	2008	254	1930	64.76	63.48	0.163	34.18	6.553	12.67
111	2008	254	1945	63.62	68.41	na	na	na	12.66
111	2008	254	2000	62.68	71.3	na	na	na	12.65
111	2008	254	2015	61.83	72.9	na	na	na	12.64
111	2008	254	2030	61.05	74.4	0.02	112.3	0.431	12.63
111	2008	254	2045	60.44	77	1.064	113.8	6.6	12.63
111	2008	254	2100	59.78	77.8	0.252	114.4	3.163	12.62
111	2008	254	2115	59.49	80	0.038	105.4	3.55	12.61
111	2008	254	2130	59	81.2	na	na	na	12.6
111	2008	254	2145	58.66	83.1	na	na	na	12.6
111	2008	254	2200	58.54	83.3	na	na	na	12.59
111	2008	254	2215	58.05	84.6	na	na	na	12.58
111	2008	254	2230	57.94	84.9	na	na	na	12.58
111	2008	254	2245	57.75	85.8	na	na	na	12.58
111	2008	254	2300	57.53	86.2	na	na	na	12.57
111	2008	254	2315	57.16	86.7	na	na	na	12.56
111	2008	254	2330	56.75	87.6	na	na	na	12.56
111	2008	254	2345	56.47	88.4	na	na	na	12.56
111	2008	254	2400	56.22	89.1	na	na	na	12.56
111	2008	255	15	56.12	89.4	na	na	na	12.55
111	2008	255	30	56.17	89.3	na	na	na	12.55
111	2008	255	45	55.97	89.4	na	na	na	12.54
111	2008	255	100	55.62	89.7	na	na	na	12.54
111	2008	255	115	55.51	89.8	na	na	na	12.53
111	2008	255	130	55.43	89.3	na	na	na	12.52
111	2008	255	145	55.46	88.5	na	na	na	12.53
111	2008	255	200	55.52	88.1	na	na	na	12.52
111	2008	255	215	56.06	86.4	na	na	na	12.52
111	2008	255	230	56.87	84.6	0.063	209.6	11.55	12.52
111	2008	255	245	57.58	83.5	0.069	173.5	7.21	12.52
111	2008	255	300	57.94	82.9	0.248	196.2	19.48	12.51
111	2008	255	315	57.99	82.7	0.25	196.1	14.2	12.51

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	255	330	57.77	83.7	0.356	154.1	17.84	12.51
111	2008	255	345	57.7	84.7	0.432	210.1	13.7	12.5
111	2008	255	400	57.69	85.4	0.069	162.3	9.72	12.5
111	2008	255	415	57.76	85.9	na	na	na	12.5
111	2008	255	430	57.9	86.3	0.19	195.8	14.42	12.5
111	2008	255	445	57.92	86.7	0.476	200.3	10.39	12.5
111	2008	255	500	57.77	87.4	0.049	115.8	2.11	12.5
111	2008	255	515	57.42	88.1	na	na	na	12.5
111	2008	255	530	57.27	88.8	0.056	194.4	3.711	12.49
111	2008	255	545	57.35	88.8	0.512	217.1	13.55	12.48
111	2008	255	600	57.57	87.3	0.957	206.3	31.09	12.48
111	2008	255	615	57.66	86.8	0.285	185.3	23.39	12.47
111	2008	255	630	57.83	86.5	1.333	197.2	27.83	12.47
111	2008	255	645	58.38	84.6	1.768	232.9	40.3	12.47
111	2008	255	700	58.88	83.7	0.892	199.3	46.6	12.46
111	2008	255	715	59.28	82.4	0.925	200.1	17.1	12.46
111	2008	255	730	59.84	80.7	2.035	195.1	23.7	12.46
111	2008	255	745	60.37	80	2.055	214.4	30.01	12.48
111	2008	255	800	60.97	79.6	2.068	194.1	42.34	12.55
111	2008	255	815	61.69	79.1	1.931	215.7	35.89	12.64
111	2008	255	830	62.22	78.3	2.083	230	33.22	12.74
111	2008	255	845	62.8	77.8	2.278	216.1	40.07	12.85
111	2008	255	900	63.62	74.6	2.514	230.8	43.64	13
111	2008	255	915	64.26	73.2	2.177	241	36.63	13.12
111	2008	255	930	65.06	71.7	2.173	243.3	44.96	13.21
111	2008	255	945	65.89	69.91	2.453	254.1	39.72	13.24
111	2008	255	1000	66.53	68.6	2.967	276.1	34.83	13.37
111	2008	255	1015	67.02	66.09	3.469	300.6	34.19	13.36
111	2008	255	1030	68.08	64.08	4.262	303.8	27.44	13.35
111	2008	255	1045	69.09	63.18	4.067	287.3	36.09	13.33
111	2008	255	1100	69.03	60.66	4.182	299.7	35.91	13.31
111	2008	255	1115	69.69	62.16	4.164	307.6	24.18	13.3
111	2008	255	1130	69.19	60.82	5.165	313.6	23.7	13.3
111	2008	255	1145	69.63	60.45	5.193	300.7	24.11	13.3
111	2008	255	1200	69.41	61.82	5.57	311.4	21.74	13.3
111	2008	255	1215	69.39	57.74	5.983	309.8	17.96	13.29
111	2008	255	1230	69.36	56.64	4.913	315	23.26	13.29
111	2008	255	1245	69.83	59.75	5.598	320.7	26.25	13.29
111	2008	255	1300	69.53	60.08	5.834	319	28.24	13.29
111	2008	255	1315	68.43	62.86	5.288	327.6	31.58	13.29
111	2008	255	1330	67.61	62.79	4.694	344.5	34.97	13.13
111	2008	255	1345	67.23	61.96	4.254	348.1	38.71	12.95
111	2008	255	1400	67.01	63.61	4.033	347.7	40.94	12.93
111	2008	255	1415	67.23	61.4	3.487	2.432	35.85	13.15
111	2008	255	1430	67.34	61.17	4.154	14.27	37.66	13.35
111	2008	255	1445	68.23	56.32	4.416	4.269	33.2	13.35
111	2008	255	1500	70.5	55.55	4.107	347.3	41	13.31
111	2008	255	1515	69.64	57.48	4.629	354.3	35.39	13.31
111	2008	255	1530	68.55	58.51	4.464	354.1	30.68	13.31
111	2008	255	1545	68.1	59.15	4.194	344.8	31.63	13.17
111	2008	255	1600	67.65	59.05	3.731	350.7	40.14	13.01
111	2008	255	1615	68.16	57.22	4.277	347.9	38.79	12.97
111	2008	255	1630	68.29	59.06	4.329	351.7	33.64	12.91
111	2008	255	1645	67.91	58.66	4.357	349.1	39.47	12.82
111	2008	255	1700	68.73	57.26	4.343	10.43	33.28	12.81
111	2008	255	1715	68.28	57.83	4.397	2.001	32.21	12.78
111	2008	255	1730	68.38	58.32	4.031	343.1	39.72	12.77
111	2008	255	1745	67.59	59.53	3.741	6.487	39.01	12.75
111	2008	255	1800	66.89	61.57	3.162	353.5	38.37	12.73
111	2008	255	1815	66.41	61.9	3.072	0.769	31.3	12.72

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	255	1830	65.8	63.85	3.247	353.7	30.91	12.71
111	2008	255	1845	65.01	65.38	2.56	6.698	30.54	12.7
111	2008	255	1900	64.38	66.49	2.709	7.44	40.73	12.69
111	2008	255	1915	63.94	67.47	2.799	3.621	34.48	12.68
111	2008	255	1930	63.41	67.74	2.102	4.989	30.75	12.67
111	2008	255	1945	63.33	67.91	1.724	5.611	30.33	12.66
111	2008	255	2000	63.12	69.22	1.626	18.92	28.84	12.65
111	2008	255	2015	62.83	70.1	1.903	7.92	30.87	12.65
111	2008	255	2030	63.1	69.62	2.248	356.8	37.08	12.64
111	2008	255	2045	63.18	69.39	2.457	346	25.71	12.64
111	2008	255	2100	63.51	68.95	2.925	346.5	35.51	12.63
111	2008	255	2115	63.28	68.82	3.06	5.498	36.27	12.63
111	2008	255	2130	63.1	70.5	1.911	7.77	31.13	12.63
111	2008	255	2145	62.84	70.2	2.185	6.898	35.6	12.63
111	2008	255	2200	62.73	69.52	2.09	359.3	24.43	12.62
111	2008	255	2215	62.64	69.52	1.747	3.11	32.88	12.61
111	2008	255	2230	62.7	68.92	2.068	3.571	25.86	12.61
111	2008	255	2245	62.46	70.2	1.322	354.9	24.23	12.6
111	2008	255	2300	62.68	69.42	2.2	350.6	30.06	12.61
111	2008	255	2315	62.72	69.49	1.776	7.61	29.82	12.6
111	2008	255	2330	62.51	69.62	1.775	1.002	28.18	12.6
111	2008	255	2345	62.45	70.5	1.407	3.217	29.2	12.59
111	2008	255	2400	62.65	69.29	2.362	344.1	25.33	12.59
111	2008	256	15	62.67	69.42	2.166	4.659	27.25	12.58
111	2008	256	30	62.59	69.55	2.185	351.9	28.8	12.58
111	2008	256	45	62.63	70.4	1.844	354.4	38.31	12.58
111	2008	256	100	62.86	68.75	2.523	347.4	29.61	12.58
111	2008	256	115	63.6	66.51	3.733	354.2	26.97	12.57
111	2008	256	130	63.88	66.04	2.963	352.8	30.9	12.57
111	2008	256	145	64.12	65.94	4.059	344.9	29.28	12.57
111	2008	256	200	64.2	65.34	3.069	357.8	30.93	12.57
111	2008	256	215	64.17	63.83	3.692	359.6	38.62	12.56
111	2008	256	230	64.2	64.33	3.247	352.9	35.32	12.57
111	2008	256	245	64.09	64.3	3.133	355.3	33.5	12.56
111	2008	256	300	63.88	64.57	2.093	357.4	29.81	12.56
111	2008	256	315	63.88	64.57	2.884	0.272	25.62	12.55
111	2008	256	330	63.83	64.23	2.858	3.682	35.81	12.56
111	2008	256	345	63.95	65.4	2.485	2.809	33.72	12.55
111	2008	256	400	64.02	64.37	2.949	343.7	33.69	12.55
111	2008	256	415	63.97	64.6	2.375	6.364	34.7	12.55
111	2008	256	430	63.95	64.63	2.919	14.89	30.98	12.53
111	2008	256	445	63.97	64.74	2.36	6.432	32.4	12.53
111	2008	256	500	63.96	64.73	2.649	3.422	34.9	12.53
111	2008	256	515	64.12	63.6	2.882	0.767	36.41	12.53
111	2008	256	530	64.17	64.16	2.822	358.6	31.74	12.52
111	2008	256	545	64.22	64.03	2.979	354.2	34.89	12.52
111	2008	256	600	64.32	62.9	3.273	351.7	32.41	12.51
111	2008	256	615	64.31	63.06	2.834	0.813	33.27	12.51
111	2008	256	630	64.37	64.2	3.088	356.9	33.15	12.51
111	2008	256	645	64.27	64.07	3.179	8.21	28.76	12.5
111	2008	256	700	64.7	63.06	3.585	3.142	32.79	12.5
111	2008	256	715	64.85	62.46	3.843	17.65	33.59	12.49
111	2008	256	730	64.98	63.73	2.784	12.12	32.57	12.49
111	2008	256	745	65.09	63.8	3.855	14.37	35.14	12.49
111	2008	256	800	65.75	63.26	3.448	19.52	35.28	12.49
111	2008	256	815	66.3	60.84	3.886	21.31	34.88	12.66
111	2008	256	830	66.37	62.61	4.52	24.29	32.51	12.6
111	2008	256	845	66.03	64.52	3.479	22.04	28.26	12.58
111	2008	256	900	66.7	62.44	3.898	7.68	44.11	12.73
111	2008	256	915	67.3	62.88	3.692	4.316	38.39	12.98

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	256	930	67.51	62.78	4.164	11.62	29.22	13.05
111	2008	256	945	68.23	59.97	4.532	18.49	33.17	13.19
111	2008	256	1000	68.31	60.2	4.571	4.907	32.4	13.19
111	2008	256	1015	69.46	55.52	4.732	15.61	32.16	13.33
111	2008	256	1030	70.2	55.78	4.802	6.461	34.55	13.32
111	2008	256	1045	69.51	58.05	4.698	6.166	29.41	13.3
111	2008	256	1100	69.35	58.34	5.552	26.98	38.21	13.23
111	2008	256	1115	69.19	58.61	4.839	26.23	32.99	13.24
111	2008	256	1130	68.65	59.18	4.679	22.89	23.85	13.12
111	2008	256	1145	68.74	59.25	4.093	18.48	33.61	13.14
111	2008	256	1200	68.72	60.55	4.327	17.18	33.8	13.18
111	2008	256	1215	68.49	60.76	4.504	6.685	37.53	13.31
111	2008	256	1230	68.69	58.15	4.808	16.85	39.68	13.33
111	2008	256	1245	69.12	56.22	4.772	9.41	36.35	13.33
111	2008	256	1300	69.93	57.28	5.163	11.44	37.25	13.32
111	2008	256	1315	69.16	61.02	5.32	13.17	29.45	13.33
111	2008	256	1330	68.63	62.73	5.745	11.81	44.49	13.29
111	2008	256	1345	68.09	65.48	4.694	12.18	36.84	13.05
111	2008	256	1400	67.32	72.9	5.012	10.22	30.94	13.04
111	2008	256	1415	66.23	73.2	5.266	14.61	30.39	13.03
111	2008	256	1430	66.02	76.8	4.462	10.3	29.55	13.02
111	2008	256	1445	65.83	78.7	3.177	6.789	38.34	13.05
111	2008	256	1500	66.17	76.3	4.432	11.64	36.84	13.13
111	2008	256	1515	66.38	77.7	3.912	13.51	32.1	13.07
111	2008	256	1530	66.26	78.7	4.26	10.4	35.27	12.92
111	2008	256	1545	66.09	79.8	4.46	9.55	34.02	12.8
111	2008	256	1600	65.63	83.9	4.643	23.62	38.65	12.75
111	2008	256	1615	64.7	86.6	4.784	30.23	32.6	12.73
111	2008	256	1630	64.02	89	3.499	19.46	33.86	12.72
111	2008	256	1645	64.21	89.7	4.544	15.5	32.8	12.71
111	2008	256	1700	63.89	91	4.115	18.68	37.77	12.7
111	2008	256	1715	63.48	91.8	4.849	6.157	44.51	12.69
111	2008	256	1730	63.03	92.5	4.51	4.313	40.11	12.68
111	2008	256	1745	63.18	93.1	4.061	3.782	41.35	12.67
111	2008	256	1800	63.22	93.4	3.994	0.602	31.67	12.67
111	2008	256	1815	63.04	93.4	4.627	351.9	34.81	12.67
111	2008	256	1830	63.07	93.7	4.351	0.001	31.99	12.66
111	2008	256	1845	63.35	93.9	4.466	1.692	31.44	12.65
111	2008	256	1900	63.69	94	3.739	12.45	33.16	12.66
111	2008	256	1915	63.57	93.7	4.348	28.06	29.68	12.65
111	2008	256	1930	63.55	93.9	2.947	23.33	38.05	12.65
111	2008	256	1945	63.79	94	3.168	22.5	30.98	12.65
111	2008	256	2000	64.07	94.1	3.354	10.02	33.38	12.65
111	2008	256	2015	64.32	94.2	3.787	38.68	29.63	12.64
111	2008	256	2030	64.36	94.2	3.801	32.84	29.98	12.63
111	2008	256	2045	64.36	94.3	3.396	28.16	35.04	12.63
111	2008	256	2100	64.36	94.4	3.853	28	35.23	12.63
111	2008	256	2115	64.23	94.3	3.557	25.03	36.66	12.63
111	2008	256	2130	64.23	94.4	2.618	12.25	32.16	12.62
111	2008	256	2145	64.55	94.5	3.618	6.902	33.47	12.62
111	2008	256	2200	64.88	94.6	3.116	18.98	39.49	12.61
111	2008	256	2215	65.23	94.6	3.076	13.23	32.37	12.61
111	2008	256	2230	65.49	94.7	3.312	28.2	30.06	12.6
111	2008	256	2245	65.75	94.7	3.083	26.57	34.72	12.6
111	2008	256	2300	66.02	94.8	2.205	25.31	31.32	12.6
111	2008	256	2315	66.27	94.7	2.102	25.3	29.51	12.59
111	2008	256	2330	66.51	94.8	1.789	37.93	31.94	12.59
111	2008	256	2345	66.69	94.9	1.325	34.93	35.35	12.59
111	2008	256	2400	66.89	94.9	1.432	29.57	32.69	12.57
111	2008	257	15	67.01	94.8	1.217	28.18	22.11	12.58

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	257	30	67.02	94.9	1.471	43.76	28.02	12.57
111	2008	257	45	67.07	94.8	0.413	94.8	11.4	12.57
111	2008	257	100	67.02	94.8	0.038	175.9	0.85	12.56
111	2008	257	115	66.98	94.8	na	na	na	12.56
111	2008	257	130	66.96	94.9	0.122	101.7	5.709	12.55
111	2008	257	145	66.91	95	0.018	95.3	0.56	12.55
111	2008	257	200	66.78	95.1	na	na	na	12.55
111	2008	257	215	66.75	94.9	na	na	na	12.53
111	2008	257	230	66.69	95	na	na	na	12.53
111	2008	257	245	66.64	95.1	na	na	na	12.53
111	2008	257	300	66.69	95.1	na	na	na	12.52
111	2008	257	315	66.73	95.1	0.101	150	12.42	12.52
111	2008	257	330	66.71	95.1	0.87	125.4	28.8	12.51
111	2008	257	345	66.65	95.1	0.333	152.8	21.62	12.51
111	2008	257	400	66.61	95.2	na	na	na	12.5
111	2008	257	415	66.6	95.2	0.058	168.9	1.296	12.5
111	2008	257	430	66.55	95.2	0.13	104.6	12.85	12.49
111	2008	257	445	66.43	95.2	0.647	117.4	26.96	12.49
111	2008	257	500	66.32	95.3	1.135	120.3	33.82	12.49
111	2008	257	515	66.28	95.3	0.346	103.5	21.62	12.49
111	2008	257	530	66.29	95.3	0.516	143.4	25.31	12.49
111	2008	257	545	66.25	95.3	0.626	177.5	12.74	12.48
111	2008	257	600	66.01	95.2	0.765	185.7	20.66	12.48
111	2008	257	615	65.62	95.1	na	na	na	12.48
111	2008	257	630	65.23	95.3	na	na	na	12.48
111	2008	257	645	65.05	95.4	0.366	116.8	4.392	12.47
111	2008	257	700	65.26	95.4	1.565	94.5	22.95	12.47
111	2008	257	715	65.47	95.4	0.31	103.2	11.49	12.47
111	2008	257	730	65.59	95.4	0.474	199.8	26.89	12.46
111	2008	257	745	65.89	95.4	0.669	124.5	25.87	12.47
111	2008	257	800	66.2	95.4	0.367	114	25.47	12.49
111	2008	257	815	66.61	95.2	0.699	125.2	23.16	12.51
111	2008	257	830	66.58	94.9	1.576	164.6	38.49	12.55
111	2008	257	845	66.99	94.7	1.277	156.3	45.5	12.59
111	2008	257	900	67.51	94.3	0.731	182.2	30.28	12.65
111	2008	257	915	67.89	93.7	1.593	195.1	29.26	12.83
111	2008	257	930	68.52	93	0.506	172.7	46.31	13
111	2008	257	945	69.07	91	1.497	187.1	48.89	13.01
111	2008	257	1000	69.41	89.5	1.997	178.7	39.12	13.09
111	2008	257	1015	69.47	88.6	2.017	186.6	35.05	13.05
111	2008	257	1030	69.68	85.8	2.767	198.2	43.69	13.06
111	2008	257	1045	70.2	83.9	2.278	199.3	46.19	13.14
111	2008	257	1100	70.9	82.3	1.806	215.9	55.22	13.21
111	2008	257	1115	72.2	77.6	2.18	209.1	59.22	13.24
111	2008	257	1130	73	76.5	2.353	238.4	64.97	13.26
111	2008	257	1145	74.2	72	2.182	259.5	63.43	13.25
111	2008	257	1200	75.4	72.9	2.808	171.6	89.2	13.24
111	2008	257	1215	76	68.96	1.937	199.7	58.71	13.24
111	2008	257	1230	75.9	68.82	1.97	258.9	79.7	13.23
111	2008	257	1245	75.4	73.6	2.671	250.5	55.04	13.24
111	2008	257	1300	73.9	75.4	2.735	353.5	40.14	13.24
111	2008	257	1315	75.3	72	1.955	37.52	37.85	13.24
111	2008	257	1330	76	66.92	2.209	120.6	72.6	13.24
111	2008	257	1345	77.5	65.18	2.702	186.4	71.9	13.22
111	2008	257	1400	77.7	64.41	2.022	166.5	70.6	13.21
111	2008	257	1415	78	62.83	1.731	180.8	71.3	13.21
111	2008	257	1430	78	63.64	1.705	158.7	78.9	13.21
111	2008	257	1445	76.9	73.5	2.68	173.8	85.2	13.22
111	2008	257	1500	75.4	74.6	3.523	346.5	30.75	13.22
111	2008	257	1515	75.9	73	3.585	350.8	33.31	13.22

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	257	1530	75.2	74.9	3.775	314.5	26.68	13.22
111	2008	257	1545	75.3	71.5	3.17	343	37.75	13.22
111	2008	257	1600	76.5	72.1	2.972	357.1	34.26	13.22
111	2008	257	1615	75.4	75.4	3.402	6.513	32.15	13.22
111	2008	257	1630	74.3	75.7	3.573	11.99	36.76	13.24
111	2008	257	1645	73.8	76.6	2.718	11.2	32.12	13.22
111	2008	257	1700	73.6	76.3	2.909	356.3	37.85	13.13
111	2008	257	1715	73.5	77.4	2.203	353.6	36.03	13.02
111	2008	257	1730	73	79.2	1.914	356.9	32.77	12.93
111	2008	257	1745	72.6	80.2	2.133	14.89	32.31	12.84
111	2008	257	1800	71.9	81.6	2.432	27.87	23.3	12.78
111	2008	257	1815	71.5	82.7	1.964	351.5	27.95	12.75
111	2008	257	1830	71.2	83.6	1.905	12.17	31.37	12.73
111	2008	257	1845	70.7	84.7	2.009	15.48	27.71	12.72
111	2008	257	1900	70.3	85.6	1.307	353.3	27.57	12.71
111	2008	257	1915	69.97	86.4	1.347	13.41	23.06	12.7
111	2008	257	1930	69.72	87.2	0.682	15.75	18.2	12.69
111	2008	257	1945	69.58	87.3	0.893	356.8	27.79	12.69
111	2008	257	2000	69.44	87.8	1.229	12.77	24.33	12.68
111	2008	257	2015	69.31	88.3	1.663	1.737	33.48	12.68
111	2008	257	2030	69.34	88.5	1.049	11.1	26.4	12.67
111	2008	257	2045	69.3	88.7	1.999	346.5	28.87	12.67
111	2008	257	2100	69.19	89.1	2.106	4.275	33.7	12.67
111	2008	257	2115	69.04	89.4	2.437	10.58	35.82	12.66
111	2008	257	2130	68.87	89.5	2.618	0.26	35.04	12.66
111	2008	257	2145	68.8	89.5	2.397	14.9	26.75	12.66
111	2008	257	2200	68.55	89.8	2.463	16.99	26.4	12.65
111	2008	257	2215	68.24	90.2	2.033	15.72	25.16	12.65
111	2008	257	2230	67.96	90.7	2.483	9.78	32.15	12.65
111	2008	257	2245	67.77	90.8	2.288	0.894	33.53	12.65
111	2008	257	2300	67.66	90.9	1.481	0.363	24.44	12.64
111	2008	257	2315	67.76	90.9	1.91	319.3	23.12	12.63
111	2008	257	2330	67.85	90.8	2.143	329.9	25.2	12.63
111	2008	257	2345	67.72	91	1.174	354.4	23.96	12.63
111	2008	257	2400	67.72	91	1.86	355.3	34.9	12.63
111	2008	258	15	67.92	90.9	2.526	351.9	28.06	12.63
111	2008	258	30	68.07	90.6	2.925	359.9	30.86	12.62
111	2008	258	45	68.14	90.6	3.089	13.9	30.06	12.62
111	2008	258	100	68.15	90.7	3.013	7.42	35.55	12.62
111	2008	258	115	68.12	90.7	2.368	10.59	26.52	12.61
111	2008	258	130	68.03	91	2.759	358.7	31.65	12.61
111	2008	258	145	67.96	91.6	3.134	352.8	31.29	12.61
111	2008	258	200	67.87	91.9	2.929	1.8	29.97	12.6
111	2008	258	215	67.89	92.1	2.252	356.5	32.09	12.6
111	2008	258	230	67.93	92.2	2.255	340.5	34.84	12.6
111	2008	258	245	68.05	91.8	3.378	344.4	29.77	12.6
111	2008	258	300	68.16	91.8	3.062	346.8	33.97	12.6
111	2008	258	315	68.26	91.8	3.152	334.7	26.63	12.59
111	2008	258	330	68.36	92	3.007	348.8	35.64	12.59
111	2008	258	345	68.45	92.1	2.673	350	32.76	12.59
111	2008	258	400	68.57	92.2	2.679	348.5	27.82	12.58
111	2008	258	415	68.75	92.3	2.888	5.786	33.32	12.57
111	2008	258	430	68.83	92.5	3.027	356.7	34.44	12.58
111	2008	258	445	68.89	92.5	2.298	329.5	31.51	12.57
111	2008	258	500	68.97	92.7	2.641	331.9	25.04	12.57
111	2008	258	515	69.01	92.8	2.09	353.4	32.45	12.57
111	2008	258	530	69.07	92.7	2.309	353.6	33.7	12.56
111	2008	258	545	69.11	92.8	2.165	356.4	30.18	12.56
111	2008	258	600	69.12	92.8	1.72	349.1	30.24	12.56
111	2008	258	615	69.17	93	2.265	349.8	34.02	12.56

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	258	630	69.22	93	2.014	356.4	26.44	12.55
111	2008	258	645	69.29	93	2.243	359.4	31.59	12.55
111	2008	258	700	69.36	92.9	2.278	3.356	33.17	12.55
111	2008	258	715	69.44	93	2.312	7.13	31.6	12.54
111	2008	258	730	69.55	92.8	2.371	357.3	31.67	12.54
111	2008	258	745	69.71	92.8	2.046	358.9	27.41	12.54
111	2008	258	800	69.93	92.6	1.97	356.9	36.53	12.53
111	2008	258	815	69.99	92.3	2.849	11.37	34.39	12.54
111	2008	258	830	70.2	92.3	2.939	1.117	35.63	12.54
111	2008	258	845	70.4	91.8	2.423	348.5	30.11	12.55
111	2008	258	900	70.8	91.2	3.451	2.255	33.96	12.6
111	2008	258	915	71.5	89.6	3.09	10.84	39.96	12.83
111	2008	258	930	72.6	87.1	3.32	18.76	31.84	13.05
111	2008	258	945	73.2	84.7	4.065	12.01	33.14	13.07
111	2008	258	1000	73.8	83.6	4.015	32.5	35.58	13.11
111	2008	258	1015	74	83.3	3.449	15.94	35.7	13.11
111	2008	258	1030	74.6	82	4.655	17.61	32.63	13.27
111	2008	258	1045	75.6	80.1	4.309	24.94	34.13	13.26
111	2008	258	1100	76.3	78.6	4.716	19.96	39.33	13.25
111	2008	258	1115	76.7	79.2	3.978	27.05	34.2	13.24
111	2008	258	1130	77	78.3	4.369	16.34	36.54	13.24
111	2008	258	1145	78	75.3	4.802	15.34	36.15	13.22
111	2008	258	1200	79.2	73.1	4.756	30.14	38.65	13.21
111	2008	258	1215	79.6	74.2	4.23	36.44	31.52	13.2
111	2008	258	1230	79.2	75.5	4.279	23.25	41.05	13.2
111	2008	258	1245	78.8	75.7	4.087	15.66	34.76	13.2
111	2008	258	1300	79.2	73.5	5.373	30.25	34.28	13.2
111	2008	258	1315	79.6	74.4	6.078	31.33	27.12	13.12
111	2008	258	1330	79.9	72.4	5.638	37.86	32.05	13.08
111	2008	258	1345	80.6	72.2	3.984	19.82	35.8	12.98
111	2008	258	1400	80.3	72.2	5.792	25.93	35.27	13
111	2008	258	1415	80.1	72.5	6.609	33.38	29.28	12.97
111	2008	258	1430	80.4	72.9	5.328	22.54	29.44	12.92
111	2008	258	1445	80.4	71.9	5.55	24.71	33.15	12.92
111	2008	258	1500	81.2	70.8	4.905	21.42	32.62	12.89
111	2008	258	1515	81.1	71.9	4.643	22.92	30.38	12.87
111	2008	258	1530	81.5	70.3	4.138	26.09	35.17	12.9
111	2008	258	1545	81.5	70.1	4.202	28.53	27.36	12.86
111	2008	258	1600	82	70.8	3.694	9.38	42.61	12.88
111	2008	258	1615	79.7	73.1	4.645	27.58	44.35	12.9
111	2008	258	1630	78.9	77.4	3.92	4.453	39.76	12.92
111	2008	258	1645	77.5	78.9	4.47	353.7	34.74	12.96
111	2008	258	1700	77.3	77.9	4.103	12.86	33.52	12.92
111	2008	258	1715	76.9	79.9	4.19	13.11	37.32	12.85
111	2008	258	1730	76.1	80.9	3.616	4.745	41.01	12.78
111	2008	258	1745	75.6	82.4	3.522	11.21	38.35	12.76
111	2008	258	1800	75	83.6	3.882	12.1	37.12	12.73
111	2008	258	1815	74.3	84.9	3.976	11.99	40.3	12.72
111	2008	258	1830	73.7	86.1	4.277	11.64	34.09	12.71
111	2008	258	1845	73.3	87	3.628	10.19	39.94	12.7
111	2008	258	1900	72.9	87.7	3.662	8.1	36.51	12.7
111	2008	258	1915	72.6	88.2	3.872	21.72	30.17	12.69
111	2008	258	1930	72.4	88.4	4.061	29.08	40.68	12.68
111	2008	258	1945	72.4	88.4	4.296	13.35	35.9	12.68
111	2008	258	2000	72.4	88	3.958	28.04	35.55	12.67
111	2008	258	2015	72.6	87.6	4.113	28.5	31.78	11.16
111	2008	258	2030	72.8	87.2	4.972	33.78	29.49	12.67
111	2008	258	2045	72.8	87.2	5.07	28.55	33.53	12.66
111	2008	258	2100	72.8	86.9	6.245	28.15	30.88	12.66
111	2008	258	2115	72.9	87.1	6.219	23.65	35.53	12.65

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	258	2130	72.8	87.4	6.458	29.15	27.88	12.65
111	2008	258	2145	72.8	87.8	5.606	24.68	40.91	12.65
111	2008	258	2200	72.7	88.1	5.526	22.25	33.17	12.65
111	2008	258	2215	72.7	88.4	6.197	27.6	30.02	12.63
111	2008	258	2230	72.7	88.2	5.886	28.96	34.3	12.63
111	2008	258	2245	72.7	88.4	5.961	24.79	34.39	12.63
111	2008	258	2300	72.5	88.5	5.935	30.34	33.13	12.63
111	2008	258	2315	72.6	88.4	5.485	33.66	27.81	12.63
111	2008	258	2330	72.7	88.1	6.342	34.72	33.52	12.61
111	2008	258	2345	72.8	88.1	6.523	38.8	29.75	12.61
111	2008	258	2400	72.7	88.4	6.174	27.64	29.93	12.61
111	2008	259	15	72.8	88.4	6.499	34.62	30.99	12.61
111	2008	259	30	72.8	88.4	6.563	35.39	30.71	12.6
111	2008	259	45	72.8	88.5	5.391	24.44	39.45	12.59
111	2008	259	100	72.7	88.6	5.584	23.08	33.02	12.58
111	2008	259	115	72.8	88.6	5.993	32.27	31.08	12.59
111	2008	259	130	73	88.2	6.525	30.52	35.08	12.57
111	2008	259	145	72.9	88.2	6.396	35.03	35.52	12.57
111	2008	259	200	72.8	88.3	6.567	30.89	31.53	12.57
111	2008	259	215	72.8	88.2	5.959	30.43	32.41	12.56
111	2008	259	230	72.8	88.6	5.993	33.56	39.32	12.56
111	2008	259	245	72.8	88.6	5.372	38.06	30.15	12.56
111	2008	259	300	72.8	88.7	5.405	36.69	31.6	12.55
111	2008	259	315	72.7	88.9	5.485	38.72	31.72	12.55
111	2008	259	330	72.6	89.2	5.326	33.5	31.28	12.55
111	2008	259	345	72.5	89.2	5.574	38.85	31.03	12.55
111	2008	259	400	72.4	89.1	5.518	31.64	28.61	12.54
111	2008	259	415	72.4	88.9	5.058	33.91	35.61	7.37
111	2008	259	430	72.5	88.5	6.011	43.05	31.51	12.53
111	2008	259	445	72.5	88	5.788	45.53	27.1	12.52
111	2008	259	500	72.7	87.3	5.987	43.76	29.83	12.53
111	2008	259	515	72.9	86.2	4.244	50.69	31.7	9.69
111	2008	259	530	73.7	82.7	5.356	44.02	27.82	12.51
111	2008	259	545	74.6	80.3	5.447	61.32	29.98	12.51
111	2008	259	600	75.1	78.5	4.77	55.79	37.7	12.51
111	2008	259	615	75.5	77.3	4.927	46.66	31.53	12.51
111	2008	259	630	76	75.7	5.215	63.23	33.35	12.51
111	2008	259	645	76.2	67.74	4.919	77.7	33.64	12.51
111	2008	259	700	77.1	56.44	6.4	77.6	39.42	12.51
111	2008	259	715	77	52.69	5.715	88.7	30.86	12.51
111	2008	259	730	76.9	52.96	5.925	81	34.76	12.77
111	2008	259	745	76.7	54.23	5.58	82.5	36.27	13.03
111	2008	259	800	77.1	52.26	5.358	94.4	31.81	13.16
111	2008	259	815	77.5	52.22	6.092	91.5	31.15	13.27
111	2008	259	830	77	52.83	5.165	97.5	30.11	13.27
111	2008	259	845	78	51.12	5.217	101.3	35.5	13.26
111	2008	259	900	77.7	51.68	6.473	105.2	27.41	13.25
111	2008	259	915	77.5	50.51	6.057	101	28.1	13.25
111	2008	259	930	78.3	49.17	6.97	100.5	29.93	13.24
111	2008	259	945	78.6	49.73	6.37	102.8	28.59	13.24
111	2008	259	1000	78.5	48.96	7.48	103.2	29.63	13.22
111	2008	259	1015	78.8	48.3	7.42	98.7	27.67	13.22
111	2008	259	1030	79.2	45.82	7.63	99.8	37.9	13.21
111	2008	259	1045	79.7	45.86	7.3	112.5	31.28	13.2
111	2008	259	1100	80.1	44.35	6.849	113.1	32.81	13.2
111	2008	259	1115	80.7	43.62	6.918	107.2	30.89	13.19
111	2008	259	1130	80.7	42.64	6.98	119.6	36.11	13.18
111	2008	259	1145	81.2	42.84	6.787	115.4	39.8	13.18
111	2008	259	1200	82.3	41.03	6.11	125.9	39.56	13.17
111	2008	259	1215	81.9	41.86	6.388	98.4	40.47	13.16

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	259	1230	82.3	41.96	6.352	120.3	43.84	13.11
111	2008	259	1245	81.9	43.33	6.666	109.4	33.51	13.03
111	2008	259	1300	83.3	37.92	4.631	119	34.14	13.13
111	2008	259	1315	83	42.17	7.32	103.4	31.32	13.02
111	2008	259	1330	81.6	40.76	6.68	110.4	33.18	12.97
111	2008	259	1345	82.9	39.39	6.452	105.8	32.53	12.89
111	2008	259	1400	82.8	38.39	6.34	104.2	36.71	12.86
111	2008	259	1415	83.4	37.05	6.724	126.3	35.96	12.85
111	2008	259	1430	82.5	36.69	7.47	108	31.24	12.82
111	2008	259	1445	83	36.85	6.307	104.8	24.54	12.81
111	2008	259	1500	83.6	35.55	6.61	129.6	37.58	12.81
111	2008	259	1515	84	34.61	4.823	134.9	37.96	12.79
111	2008	259	1530	83.2	35.82	6.43	121.9	35.86	12.78
111	2008	259	1545	82.9	37.32	6.219	115.7	35.6	12.77
111	2008	259	1600	82.5	36.22	5.61	117.3	33.05	12.76
111	2008	259	1615	83	36.92	5.977	105	33.1	12.75
111	2008	259	1630	83	36.89	5.429	108	32.97	12.76
111	2008	259	1645	83.5	36.86	4.901	107.8	27.61	12.74
111	2008	259	1700	83.6	33.98	4.377	121.4	39.47	12.73
111	2008	259	1715	82.8	37.86	4.686	122.1	35.38	12.74
111	2008	259	1730	83.1	34.62	3.87	123.3	40.78	12.74
111	2008	259	1745	82.1	36.96	4.138	127.8	34.77	12.73
111	2008	259	1800	82.1	38.3	3.35	130.3	37.54	12.72
111	2008	259	1815	81.3	39.84	2.832	134.5	39.75	12.72
111	2008	259	1830	79.6	44.32	2.014	118	38.25	12.71
111	2008	259	1845	77.9	46.86	1.979	130.7	40.33	12.7
111	2008	259	1900	76.8	49.68	1.978	150.7	44.97	12.69
111	2008	259	1915	76	52.82	2.504	144.5	46.72	12.68
111	2008	259	1930	74.9	52.39	2.892	135.7	39.55	12.66
111	2008	259	1945	74.3	54.66	2.248	147.7	49.76	12.66
111	2008	259	2000	73.3	56	2.035	146.1	48.27	12.65
111	2008	259	2015	72.9	54.74	2.896	145.9	36.01	12.64
111	2008	259	2030	72.5	54.81	2.784	129.5	41.73	12.63
111	2008	259	2045	72.2	54.15	2.937	139.9	39.06	12.63
111	2008	259	2100	71.8	55.52	2.77	134.3	38.85	12.62
111	2008	259	2115	71.4	55.99	2.979	144	43.85	12.61
111	2008	259	2130	71.2	56.52	3.617	155.4	40.81	12.6
111	2008	259	2145	71.1	54.82	3.986	152.5	40.65	12.6
111	2008	259	2200	70.8	55.48	3.644	166.9	45.61	12.59
111	2008	259	2215	70.3	55.22	3.127	155.6	55.88	12.59
111	2008	259	2230	69.63	56.45	2.82	158.9	49.86	12.58
111	2008	259	2245	69.18	58.9	2.889	155.1	45.08	12.57
111	2008	259	2300	68.6	63.08	2.778	161.3	44.71	12.57
111	2008	259	2315	68.03	65.18	2.699	178.3	41.04	12.56
111	2008	259	2330	67.54	63.95	3.8	192.6	41.67	12.55
111	2008	259	2345	67.04	64.08	3.023	183.7	43.99	12.55
111	2008	259	2400	66.38	62.98	4.054	189.4	33.65	12.55
111	2008	260	15	65.72	62.25	4.019	187	31.03	12.54
111	2008	260	30	65.24	60.85	4.762	188.3	45.96	12.53
111	2008	260	45	64.67	61.55	3.647	168	54.3	12.52
111	2008	260	100	64.18	63.23	4.258	185.8	36.32	12.51
111	2008	260	115	63.77	63.36	4.411	182.7	39.17	12.51
111	2008	260	130	63.33	64.57	2.585	180.8	45.89	12.51
111	2008	260	145	62.91	65.71	2.54	187	32.88	12.5
111	2008	260	200	62.6	66.18	3.585	185.6	32.74	12.5
111	2008	260	215	62.23	67.31	2.854	183.5	29.23	12.49
111	2008	260	230	62.04	66.34	3.1	182.1	38.99	12.48
111	2008	260	245	62.16	65.98	3.212	178.2	29.88	12.48
111	2008	260	300	62.04	67.55	1.925	190.8	35.49	12.47
111	2008	260	315	61.68	68.45	2.364	194.3	30.68	12.47

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	260	330	61.47	68.95	2.23	190.1	33.02	12.46
111	2008	260	345	61.27	69.96	2.115	202.3	33.73	12.45
111	2008	260	400	61.01	70.1	1.898	188.3	29.16	12.46
111	2008	260	415	61.08	68.95	2.308	191.3	35.05	12.46
111	2008	260	430	61.22	68.42	2.516	196.7	32.48	12.45
111	2008	260	445	61.2	68.92	1.494	193.6	25.79	12.45
111	2008	260	500	61.01	69.72	1.942	194.4	36.55	12.44
111	2008	260	515	60.91	70.6	1.384	190.7	36.29	12.44
111	2008	260	530	60.82	71.6	0.773	174.1	30.66	12.44
111	2008	260	545	60.65	72.7	1.487	179.7	36.37	12.44
111	2008	260	600	60.54	73.6	1.255	183.4	26.05	12.44
111	2008	260	615	60.29	74.6	1.304	191.7	29.09	12.43
111	2008	260	630	60.13	75.4	1.817	195.4	28.57	12.44
111	2008	260	645	60.05	76.3	1.48	190	30.57	12.43
111	2008	260	700	60.2	76.5	2.296	190.6	27.47	12.43
111	2008	260	715	60.53	77	2.091	185.3	27.56	12.44
111	2008	260	730	61	76.1	2.123	195.7	30.66	12.43
111	2008	260	745	61.8	74.2	2.302	210	41.28	12.47
111	2008	260	800	63.41	67.75	2.649	208.6	42.59	12.86
111	2008	260	815	66.17	64.44	4.319	217	38.76	13.4
111	2008	260	830	66.55	64.06	3.689	222.9	48.04	13.33
111	2008	260	845	67.07	64.29	3.793	210.7	41.51	13.37
111	2008	260	900	66.08	66.22	4.083	218.9	40.39	13.04
111	2008	260	915	65.64	67.36	3.289	238	41.69	13.01
111	2008	260	930	65.63	66.12	3.906	248.8	39.01	13
111	2008	260	945	66.61	65.32	4.019	254.3	37.07	13.37
111	2008	260	1000	66.5	62.98	4.706	268.6	29.34	13.37
111	2008	260	1015	67.09	63.21	4.599	274.7	38.69	13.21
111	2008	260	1030	66.77	63.08	3.563	282.2	31.2	13.13
111	2008	260	1045	66.8	62.61	3.457	287.8	30.44	13.14
111	2008	260	1100	66.81	61.14	3.309	292.3	44.18	13.23
111	2008	260	1115	66.62	61.27	2.832	308.4	33.95	13.19
111	2008	260	1130	67.56	58.76	2.65	232	47	13.19
111	2008	260	1145	67.67	58.46	2.314	236.6	46.55	13.13
111	2008	260	1200	68.07	58.93	2.224	238.6	50.62	13.26
111	2008	260	1215	69.01	58.33	1.88	202.4	65.38	13.35
111	2008	260	1230	69.47	59.13	2.124	193.9	63.95	13.33
111	2008	260	1245	68.88	60.16	1.912	157.6	49.25	13.18
111	2008	260	1300	68.36	60.72	2.166	186.7	38.72	13.17
111	2008	260	1315	67.57	62.23	2.866	177.6	43.1	12.99
111	2008	260	1330	67.2	62.3	2.295	175.4	44.28	12.96
111	2008	260	1345	67.51	62.74	2.933	187.2	38.54	13.09
111	2008	260	1400	67.72	62.34	2.844	192	39.84	13.35
111	2008	260	1415	68.06	59.7	2.285	217.4	41.01	13.36
111	2008	260	1430	68.66	59.83	2.09	182.6	53.59	13.35
111	2008	260	1445	68.56	60.4	2.1	180.4	54.96	13.35
111	2008	260	1500	68.57	60.63	1.681	249.7	57.4	13.35
111	2008	260	1515	68.9	60.2	1.825	204.5	57.56	13.33
111	2008	260	1530	69.14	59.12	2.202	146.8	45.58	13.3
111	2008	260	1545	69.1	60.96	2.216	183.4	34.33	13.34
111	2008	260	1600	68.76	61.8	1.936	176.7	54.48	13.14
111	2008	260	1615	68.39	62.17	2.409	164.6	42.81	13.06
111	2008	260	1630	68.67	61.13	1.966	192.8	46.04	13.36
111	2008	260	1645	68.7	61.64	2.197	166.8	32.57	13.05
111	2008	260	1700	68.86	60.26	1.932	175.8	51.14	13.03
111	2008	260	1715	69.31	60.36	1.751	222.6	70.1	12.93
111	2008	260	1730	68.53	61.74	1.865	184.8	57.99	12.82
111	2008	260	1745	68.12	64.28	1.12	183.2	33.67	12.76
111	2008	260	1800	66.94	66.39	1.124	202.2	23.42	12.74
111	2008	260	1815	66.1	67.96	0.939	195.3	25.77	12.72

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	260	1830	65.51	69.43	0.643	188.3	18.82	12.71
111	2008	260	1845	64.89	72.5	0.029	151.5	2.827	12.7
111	2008	260	1900	63.95	75.7	0.274	117.8	4.812	12.68
111	2008	260	1915	63.33	77	0.018	124.2	1.798	12.67
111	2008	260	1930	62.9	78.5	0.108	107	1.602	12.67
111	2008	260	1945	62.7	79.2	0.009	94.6	0	12.66
111	2008	260	2000	62.47	79.1	na	na	na	12.66
111	2008	260	2015	62.16	80.1	0.009	93.5	0	12.66
111	2008	260	2030	61.92	81.2	na	na	na	12.64
111	2008	260	2045	61.64	82.4	na	na	na	12.64
111	2008	260	2100	61.29	82.9	0.069	220.5	5.475	12.63
111	2008	260	2115	61.26	82.2	na	na	na	12.63
111	2008	260	2130	61.12	82.6	0.084	111.8	4.352	12.63
111	2008	260	2145	60.72	83.9	na	na	na	12.62
111	2008	260	2200	60.2	85.5	na	na	na	12.62
111	2008	260	2215	59.83	86.6	na	na	na	12.61
111	2008	260	2230	59.51	87.3	na	na	na	12.6
111	2008	260	2245	59.38	87.9	na	na	na	12.6
111	2008	260	2300	59.24	88.1	0.018	100.7	1.192	12.6
111	2008	260	2315	58.83	88.7	0.21	100.1	6.619	12.6
111	2008	260	2330	58.23	89.5	na	na	na	12.58
111	2008	260	2345	57.72	90.4	na	na	na	12.58
111	2008	260	2400	57.54	90.7	na	na	na	12.58
111	2008	261	15	57.3	90.8	na	na	na	12.58
111	2008	261	30	56.97	91.5	0.145	157.8	3.25	12.56
111	2008	261	45	56.77	91.5	na	na	na	12.56
111	2008	261	100	56.39	91.8	na	na	na	12.56
111	2008	261	115	56.22	92.1	na	na	na	12.55
111	2008	261	130	56.04	92.1	na	na	na	12.55
111	2008	261	145	55.76	92.3	na	na	na	12.54
111	2008	261	200	55.62	92.5	0.206	106.1	4.418	12.54
111	2008	261	215	55.45	92.5	0.009	113	0.007	12.53
111	2008	261	230	55.33	92.2	na	na	na	12.52
111	2008	261	245	55.12	92.2	na	na	na	12.52
111	2008	261	300	54.95	92.3	na	na	na	12.52
111	2008	261	315	54.8	92.5	na	na	na	12.51
111	2008	261	330	54.68	92.5	na	na	na	12.5
111	2008	261	345	54.52	92.7	na	na	na	12.5
111	2008	261	400	54.58	92.9	na	na	na	12.5
111	2008	261	415	54.8	93.2	na	na	na	12.5
111	2008	261	430	55.3	93	0.111	109.4	17.9	12.5
111	2008	261	445	55.46	93	0.17	135.7	24.58	12.48
111	2008	261	500	55.4	93.2	0.142	202.8	12.91	12.48
111	2008	261	515	55.54	93.2	0.065	210.8	9.37	12.48
111	2008	261	530	55.52	93.2	0.136	203.9	12.72	12.47
111	2008	261	545	55.73	93.2	0.325	197	19.25	12.47
111	2008	261	600	56.02	93.4	1.011	191	24.44	12.47
111	2008	261	615	56.4	92.2	1.38	202.7	28	12.46
111	2008	261	630	56.43	91.2	1.198	200.6	27.15	12.45
111	2008	261	645	56.22	90.6	1.002	197.7	26.25	12.44
111	2008	261	700	56.45	89.8	0.544	189.6	22.77	12.45
111	2008	261	715	57.41	87.7	1.536	190.4	29.23	13.11
111	2008	261	730	59.03	82	2.425	186.5	36.19	13.52
111	2008	261	745	60.6	75.4	2.882	187.2	34.69	13.52
111	2008	261	800	61.78	71.9	3.293	192.6	29.46	13.5
111	2008	261	815	62.71	69.02	3.579	192	34.55	13.48
111	2008	261	830	64.3	65.21	3.209	191	32.77	13.45
111	2008	261	845	65.01	64.03	3.739	186	34.34	13.43
111	2008	261	900	65.97	61.91	4.248	187.3	40.19	13.42
111	2008	261	915	66.7	58.4	4.188	187.1	35.22	13.4

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	261	930	67.74	54.82	4.115	183.1	39.31	13.38
111	2008	261	945	68.86	56.86	3.878	215.1	36.96	13.36
111	2008	261	1000	68.57	56.59	4.065	180.2	39.92	13.24
111	2008	261	1015	69.31	52.16	3.72	185.5	39.85	13.33
111	2008	261	1030	71.4	49.38	3.771	170.4	41.3	13.31
111	2008	261	1045	71.6	48.71	3.64	187	39.17	13.3
111	2008	261	1100	71.3	48.24	3.89	174.6	37.47	13.29
111	2008	261	1115	71.6	46.21	3.811	181.3	38.65	13.28
111	2008	261	1130	72.2	46.74	3.461	172.1	46.34	13.27
111	2008	261	1145	72.8	46.17	2.992	169	41.83	13.26
111	2008	261	1200	72.3	46.53	2.974	187.1	47.49	13.26
111	2008	261	1215	71.2	47.8	2.846	178.2	51.75	13.26
111	2008	261	1230	71	47.04	3.467	174.4	41.81	13.27
111	2008	261	1245	71.7	46.27	3.307	183	39.93	13.26
111	2008	261	1300	73	45.8	3.32	138.5	51.05	13.25
111	2008	261	1315	72.7	46.16	3.446	149.2	54.64	13.24
111	2008	261	1330	71.8	44.25	2.108	111.3	76	13.24
111	2008	261	1345	73.5	44.99	3.378	220	53.77	13.15
111	2008	261	1400	72.5	45.92	3.872	138.1	56.64	13.09
111	2008	261	1415	72.2	44.25	3.598	175.6	58.65	13.01
111	2008	261	1430	73.9	41.11	2.862	145.1	52.34	12.99
111	2008	261	1445	74.1	42.41	3.297	156.8	61.68	12.92
111	2008	261	1500	73.2	41.04	2.977	103.3	61.57	12.89
111	2008	261	1515	74.6	39.71	2.504	32.11	65.97	12.83
111	2008	261	1530	74	38.94	1.68	206	55.26	12.83
111	2008	261	1545	74.4	38.9	2.389	176.1	96.6	12.83
111	2008	261	1600	75.4	40.68	2.065	62.26	87.7	12.82
111	2008	261	1615	74.1	46.52	2.641	355.7	77	12.8
111	2008	261	1630	72.2	54.18	4.565	312	24.46	12.8
111	2008	261	1645	71.7	52.11	3.448	328.6	34.4	12.79
111	2008	261	1700	71.4	54.73	3.543	323.6	31.79	12.78
111	2008	261	1715	71.2	52.96	3.336	355.1	29.96	12.76
111	2008	261	1730	71.3	52.96	3.245	12.51	45.6	12.76
111	2008	261	1745	71.1	55.33	3.177	21.21	38.43	12.76
111	2008	261	1800	69.82	57.74	2.629	356.5	42.95	12.73
111	2008	261	1815	68.47	60.15	2.337	23.92	30.55	12.72
111	2008	261	1830	67.42	62.26	1.285	26.64	26.6	12.7
111	2008	261	1845	66.64	64.28	0.802	10.1	24.32	12.71
111	2008	261	1900	65.91	66.39	0.438	25.81	11.84	12.68
111	2008	261	1915	65.22	68.26	0.194	22.11	9.32	12.68
111	2008	261	1930	64.57	69.8	0.018	9.56	2.782	12.67
111	2008	261	1945	63.97	73.1	na	na	na	12.66
111	2008	261	2000	62.94	75.3	na	na	na	12.65
111	2008	261	2015	62.42	77.3	na	na	na	12.65
111	2008	261	2030	61.75	78.7	na	na	na	12.63
111	2008	261	2045	61.05	79.8	na	na	na	12.63
111	2008	261	2100	60.66	80.6	na	na	na	12.63
111	2008	261	2115	60.28	81.7	na	na	na	12.62
111	2008	261	2130	59.92	82.9	na	na	na	12.61
111	2008	261	2145	59.43	84.3	na	na	na	12.6
111	2008	261	2200	59.11	85.4	na	na	na	12.6
111	2008	261	2215	58.85	86.4	na	na	na	12.58
111	2008	261	2230	58.92	86.1	na	na	na	12.58
111	2008	261	2245	58.67	86.6	na	na	na	12.58
111	2008	261	2300	58.35	87.3	na	na	na	12.57
111	2008	261	2315	58.2	87.6	na	na	na	12.56
111	2008	261	2330	57.87	88.2	na	na	na	12.56
111	2008	261	2345	57.48	88.9	na	na	na	12.56
111	2008	261	2400	57.36	88.9	na	na	na	12.55
111	2008	262	15	56.93	89.5	na	na	na	12.54

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	262	30	56.71	89.9	na	na	na	12.54
111	2008	262	45	56.53	90.2	na	na	na	12.53
111	2008	262	100	56.76	89.8	na	na	na	12.53
111	2008	262	115	57.15	89.1	0.095	109.5	4.965	12.52
111	2008	262	130	57.06	89	na	na	na	12.51
111	2008	262	145	56.89	88.9	0.054	111.6	2.354	12.52
111	2008	262	200	56.73	89.2	0.029	95.1	0.478	12.51
111	2008	262	215	56.52	89.2	na	na	na	12.5
111	2008	262	230	56.07	90	0.009	44.53	0	12.5
111	2008	262	245	55.79	90.4	na	na	na	12.49
111	2008	262	300	55.57	90.8	na	na	na	12.48
111	2008	262	315	55.36	91.3	0.115	162.7	2.942	12.48
111	2008	262	330	55.49	91.6	0.018	173.2	1.164	12.48
111	2008	262	345	55.62	91.8	0.144	149.9	12.99	12.48
111	2008	262	400	56.08	91.6	0.071	166.5	6.625	12.46
111	2008	262	415	56.05	91.5	na	na	na	12.46
111	2008	262	430	55.86	91.7	0.093	153.1	3.93	12.46
111	2008	262	445	55.64	91.6	na	na	na	12.46
111	2008	262	500	55.34	92	0.009	156.7	0.007	12.45
111	2008	262	515	55.22	92	na	na	na	12.44
111	2008	262	530	54.93	92.3	na	na	na	12.44
111	2008	262	545	54.83	92.5	0.009	108.3	0.006	12.44
111	2008	262	600	54.81	92.9	0.033	97.4	0.801	12.43
111	2008	262	615	55.2	93.1	0.141	152.2	7.39	12.42
111	2008	262	630	55.36	93.2	na	na	na	12.42
111	2008	262	645	55.48	93	0.04	158.2	2.817	12.42
111	2008	262	700	55.61	93.1	0.088	101.7	2.003	12.42
111	2008	262	715	56.16	92.3	0.763	108.3	20.83	12.43
111	2008	262	730	57.1	91.1	1.101	150.6	34.7	12.58
111	2008	262	745	58.87	86.8	1.238	184	30.36	12.84
111	2008	262	800	61.56	76	2.258	177	33.59	13.23
111	2008	262	815	63.57	70.1	3.187	168.5	46.53	13.34
111	2008	262	830	65.37	65.31	2.7	181.1	48.82	13.23
111	2008	262	845	66.29	62.63	4.444	171.4	39.54	13.42
111	2008	262	900	66.92	62.99	4.282	177.4	42.79	13.29
111	2008	262	915	67.89	62.91	3.727	173.6	47.59	13.22
111	2008	262	930	69.29	56.76	3.765	177.1	38.1	13.37
111	2008	262	945	69.57	59.6	5.868	188.2	29.69	13.35
111	2008	262	1000	70.2	58.76	5.32	191	41.51	13.34
111	2008	262	1015	70.6	57.48	6.031	178.5	33.7	13.32
111	2008	262	1030	70.3	56.91	6.585	185.1	44.13	13.31
111	2008	262	1045	70.5	55.1	6.007	190.5	38.52	13.3
111	2008	262	1100	71.5	52.83	5.326	182.7	40.87	13.29
111	2008	262	1115	71.8	54.63	6.164	195.6	35.72	13.28
111	2008	262	1130	72.2	54	5.58	184	33.56	13.26
111	2008	262	1145	72.4	54.83	6.251	182.1	37.88	13.25
111	2008	262	1200	72.4	50.92	5.882	208.7	34.43	13.25
111	2008	262	1215	72.3	51.52	7.09	201.9	34.8	13.25
111	2008	262	1230	72.6	51.45	6.636	196	30.83	13.25
111	2008	262	1245	72.8	52.09	5.763	194.4	38.21	13.24
111	2008	262	1300	73.3	51.82	6.057	187	34.65	13.11
111	2008	262	1315	73.5	49.61	5.693	189.5	38.95	13
111	2008	262	1330	73.5	52.04	5.32	181.3	44.14	12.96
111	2008	262	1345	73.7	51.41	5.479	198.1	36.49	12.93
111	2008	262	1400	73.6	50.04	5.642	186.5	41.2	12.91
111	2008	262	1415	73.8	46.59	4.853	187	42.64	12.92
111	2008	262	1430	74.3	46.96	5.193	186	50.62	12.89
111	2008	262	1445	74.1	44.92	5.354	186.5	43.42	12.86
111	2008	262	1500	74.3	46.29	4.746	194.9	39.11	12.84
111	2008	262	1515	74	44.28	4.536	199.9	31.48	12.83

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	262	1530	73.7	45.12	4.949	203	39.28	12.81
111	2008	262	1545	72.7	44.75	5.127	196.5	39.46	12.8
111	2008	262	1600	73.5	43.79	4.621	173.9	33.53	12.82
111	2008	262	1615	72.9	43.03	4.653	196.1	35.76	12.79
111	2008	262	1630	72	44	5.046	209	33.73	12.78
111	2008	262	1645	72.5	43.76	4.24	181.3	42.64	12.76
111	2008	262	1700	71.8	42.59	5.016	200.6	38.43	12.74
111	2008	262	1715	71.3	41.66	4.601	209.6	42.77	12.74
111	2008	262	1730	71.2	40.92	3.93	195.9	37.2	12.73
111	2008	262	1745	70.6	41.96	4.405	194.8	36.64	12.72
111	2008	262	1800	69.76	41.79	4.152	195.2	42.54	12.71
111	2008	262	1815	68.6	44.84	3.41	201.2	33.56	12.71
111	2008	262	1830	67.31	47.52	2.311	203.3	37.49	12.7
111	2008	262	1845	66.48	49.16	2.689	192.8	33.66	12.68
111	2008	262	1900	65.79	51.3	2.755	196.4	39.36	12.67
111	2008	262	1915	65.28	49.9	3.539	179.5	48.26	12.66
111	2008	262	1930	64.74	49.6	3.59	181	37.3	12.66
111	2008	262	1945	64.15	50.81	3.268	192.2	35.18	12.66
111	2008	262	2000	63.57	52.62	2.806	202.7	28.69	12.65
111	2008	262	2015	62.88	53.63	2.342	190.8	35.97	12.63
111	2008	262	2030	62.5	54.17	2.574	196.3	37.5	12.62
111	2008	262	2045	62.14	55.57	2.539	187	31.97	12.62
111	2008	262	2100	61.63	56.81	2.598	197.8	28.87	12.6
111	2008	262	2115	61.11	58.38	2.318	197	25.62	12.6
111	2008	262	2130	60.57	59.99	1.952	192.6	24.48	12.59
111	2008	262	2145	60.27	61.03	2.42	197.4	33.94	12.58
111	2008	262	2200	59.94	62.2	2.312	193.6	26.29	12.58
111	2008	262	2215	59.47	63.04	1.703	200.8	25.93	12.57
111	2008	262	2230	59.27	62.68	2.259	193.5	25.29	12.56
111	2008	262	2245	59.15	58.93	2.814	201.4	32.16	12.56
111	2008	262	2300	59.32	56.16	2.977	203.5	32.72	12.55
111	2008	262	2315	59.59	54.35	3.342	197	33.57	12.54
111	2008	262	2330	59.71	54.85	3.473	218.9	33.72	12.54
111	2008	262	2345	59.2	55.89	3.046	218.1	42.64	12.52
111	2008	262	2400	58.86	55.76	3.277	222	36.74	12.52
111	2008	263	15	58.63	56.36	3.892	219.2	40.06	12.52
111	2008	263	30	58.2	58.06	3.138	220.4	34.09	12.52
111	2008	263	45	57.65	60.81	2.846	223.8	28.85	12.51
111	2008	263	100	56.91	63.49	2.111	221.2	33.78	12.5
111	2008	263	115	56.1	66.13	1.715	208.6	33.4	12.5
111	2008	263	130	55.42	68.78	1.36	198.5	22.49	12.5
111	2008	263	145	54.88	70.6	1.799	203.2	30.08	12.48
111	2008	263	200	54.64	72.4	0.995	190.8	24.5	12.48
111	2008	263	215	54.16	73.2	0.782	203.3	17.3	12.46
111	2008	263	230	53.72	73.2	1.418	189.8	23.87	12.46
111	2008	263	245	53.73	71.9	1.454	201.2	28.56	12.45
111	2008	263	300	53.51	73	0.717	197.4	16.86	12.44
111	2008	263	315	52.8	75.6	0.037	159.9	4.965	12.44
111	2008	263	330	52.15	76.9	0.051	189.4	2.453	12.43
111	2008	263	345	52.22	75.4	0.822	198.1	20.01	12.42
111	2008	263	400	52.34	72.3	2.105	203.3	24.11	12.41
111	2008	263	415	52.99	69.5	2.625	199.8	32.31	12.41
111	2008	263	430	53.02	69.9	2.702	200.3	27.44	12.4
111	2008	263	445	52.75	71.3	2.09	197.7	26.68	12.4
111	2008	263	500	52.2	72.9	2.038	194.5	26.03	12.39
111	2008	263	515	51.75	74.9	2.03	198	25.66	12.39
111	2008	263	530	51.4	76.3	1.75	195.8	23.24	12.38
111	2008	263	545	51.11	78.1	1.971	188.9	25.31	12.38
111	2008	263	600	50.88	79.6	1.97	189.8	26.4	12.38
111	2008	263	615	50.77	81.1	1.995	191.4	25.74	12.37

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	263	630	50.82	81.7	2.32	197.8	28.02	12.37
111	2008	263	645	51.01	82.3	2.029	195.3	26.33	12.37
111	2008	263	700	51.3	82.6	1.858	201.8	25.24	12.36
111	2008	263	715	52.12	81.2	2.269	200.6	29.95	12.87
111	2008	263	730	53.59	78	2.889	215.7	29.37	13.59
111	2008	263	745	55.08	73	3.463	205.2	38.69	13.56
111	2008	263	800	56.05	69.45	4.262	218.8	39.86	13.54
111	2008	263	815	57.19	66.13	4.76	223.7	38.85	13.52
111	2008	263	830	58.4	63.04	4.246	218.7	38.37	13.51
111	2008	263	845	59.22	59.36	4.927	223.8	52.66	13.49
111	2008	263	900	60.09	58.08	5.58	211.4	40.88	13.49
111	2008	263	915	60.68	58.35	5.034	220.4	38.25	13.47
111	2008	263	930	61.56	54.07	5.25	248.1	45.83	13.45
111	2008	263	945	61.68	54	5.745	234.7	35.31	13.31
111	2008	263	1000	62.28	51.75	5.896	213.7	32.79	13.43
111	2008	263	1015	63.37	49.44	4.889	246.4	40.38	13.41
111	2008	263	1030	63.59	44.45	6.011	238.6	37.55	13.39
111	2008	263	1045	63.9	41.71	5.254	221.9	40.82	13.38
111	2008	263	1100	64.29	43.98	5.665	228.7	37.38	13.25
111	2008	263	1115	64.35	45.22	5.516	256.6	45.71	13.35
111	2008	263	1130	65.53	43.61	4.853	206.9	42.67	13.34
111	2008	263	1145	63.02	47.09	4.357	223.1	39.94	13.18
111	2008	263	1200	64.09	41.74	5.254	245	41.63	13.24
111	2008	263	1215	64.26	45.42	4.752	234.7	38.72	13.19
111	2008	263	1230	63.78	42.71	4.806	254.9	43.17	13.14
111	2008	263	1245	64.3	44.55	5.008	220.6	32.89	13.35
111	2008	263	1300	63.9	44.38	4.599	218.8	34.67	13.36
111	2008	263	1315	65.84	40.07	4.752	269.6	32.54	13.35
111	2008	263	1330	64.88	45.12	4.74	264.8	44.01	13.33
111	2008	263	1345	63.29	50.9	6.456	288.7	30.21	13.31
111	2008	263	1400	64.71	52.94	7.16	295.1	27.55	13.35
111	2008	263	1415	63.13	52.78	6.303	282.9	28.4	13.35
111	2008	263	1430	63.1	51.61	7.9	292.2	19.07	13.36
111	2008	263	1445	63.39	51.57	5.961	283.1	31.34	13.17
111	2008	263	1500	63.11	52.21	6.47	285.2	22.77	13.01
111	2008	263	1515	63.29	52.68	7.76	299.3	19.24	13.37
111	2008	263	1530	63.32	53.04	6.271	289.9	28.13	13.09
111	2008	263	1545	62.95	56.32	7.15	293.5	25.54	13.08
111	2008	263	1600	63.86	46.39	5.967	265.9	34.58	13.24
111	2008	263	1615	63.41	53.98	7.04	288.3	26.97	12.95
111	2008	263	1630	62.71	54.55	5.59	275.9	36.47	12.89
111	2008	263	1645	63.24	44.11	4.984	242.7	63.31	12.83
111	2008	263	1700	63.93	42.84	4.105	244.7	50.46	12.81
111	2008	263	1715	63.71	43.08	3.994	206.9	41.85	12.79
111	2008	263	1730	63.43	44.95	4.317	225	39.43	12.76
111	2008	263	1745	62.91	47.26	3.98	239	38.72	12.75
111	2008	263	1800	62.33	48.24	4.611	262.8	35.55	12.74
111	2008	263	1815	61.89	48.98	3.229	245.4	39.76	12.72
111	2008	263	1830	60.77	51.66	4.246	278.7	24.69	12.71
111	2008	263	1845	59.92	55.03	2.941	276.8	26.93	12.71
111	2008	263	1900	59.2	57.38	3.614	273.6	33.8	12.69
111	2008	263	1915	58.54	59.09	2.874	244.2	37.51	12.69
111	2008	263	1930	57.61	61.67	1.838	230.6	27.06	12.67
111	2008	263	1945	56.69	64.49	1.807	216.5	24.36	12.67
111	2008	263	2000	55.88	67.13	1.39	211.4	23.13	12.66
111	2008	263	2015	55.48	67.84	2.129	221.6	25.71	12.66
111	2008	263	2030	55.2	68.47	2.138	230.1	36.17	12.64
111	2008	263	2045	54.98	68.27	2.471	220	27.04	12.64
111	2008	263	2100	54.73	67.54	2.558	220.9	24.58	12.63
111	2008	263	2115	54.46	68.07	2.159	223.7	37.43	12.63

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	263	2130	53.87	70.4	1.967	212.2	37.12	12.62
111	2008	263	2145	53.11	72	1.36	208.7	27.33	12.62
111	2008	263	2200	52.64	72.2	1.69	210	27.16	12.61
111	2008	263	2215	52.66	71.7	2.12	223	32.62	12.6
111	2008	263	2230	52.52	72.4	2.026	220.3	26.09	12.6
111	2008	263	2245	52.11	73.6	1.515	214.3	35.87	12.59
111	2008	263	2300	51.94	73.2	2.206	226.1	33.48	12.59
111	2008	263	2315	52.03	73	1.866	220.4	30.03	12.59
111	2008	263	2330	51.9	74.4	1.589	217.7	32.15	12.58
111	2008	263	2345	51.59	75.1	1.479	207.7	39.32	12.58
111	2008	263	2400	51.18	76.1	1.193	195.6	23.06	12.58
111	2008	264	15	50.91	77.3	1.24	187	19.48	12.57
111	2008	264	30	50.65	77.7	1.178	191.7	18.01	12.57
111	2008	264	45	50.45	78.3	0.775	186.4	21.62	12.56
111	2008	264	100	50.27	79	0.519	197.1	19.94	12.56
111	2008	264	115	50.22	79.3	0.109	168.4	9.88	12.55
111	2008	264	130	50.07	80.3	0.695	186.8	22.26	12.55
111	2008	264	145	50.38	79.9	1.231	189.6	26.11	12.55
111	2008	264	200	50.67	79.6	1.147	192.1	24.93	12.55
111	2008	264	215	50.65	80.7	1.554	199	22.29	12.55
111	2008	264	230	50.65	81.6	1.782	205.7	32.59	12.54
111	2008	264	245	50.76	82.4	1.515	202.5	34.56	12.54
111	2008	264	300	50.77	83.5	1.562	210.2	33.42	12.54
111	2008	264	315	50.8	84.2	1.742	195.2	34.87	12.54
111	2008	264	330	50.75	85.1	1.702	197.9	37.01	12.53
111	2008	264	345	51.09	85.1	2.154	195.1	28.86	12.54
111	2008	264	400	51.66	84.4	2.102	206.7	31.54	12.53
111	2008	264	415	51.81	84.4	1.858	188	32.13	12.53
111	2008	264	430	52.02	84.4	2.01	206.8	31	12.53
111	2008	264	445	52.26	84	1.964	207.8	32.64	12.53
111	2008	264	500	52.4	83.1	2.362	191.8	30.98	12.52
111	2008	264	515	52.21	83.7	1.09	209.1	29.2	12.53
111	2008	264	530	51.88	84.6	1.618	203.6	34.03	12.52
111	2008	264	545	51.6	85.6	1.972	195.6	28.46	12.52
111	2008	264	600	51.36	86.4	1.386	207.7	38.03	12.52
111	2008	264	615	51.1	86.8	2.085	208.2	29.49	12.52
111	2008	264	630	50.91	87.3	1.174	198.2	24.46	12.51
111	2008	264	645	50.51	88.2	0.78	189.2	20.42	12.5
111	2008	264	700	50.4	89.4	0.59	186.9	14.13	12.51
111	2008	264	715	51.24	89.1	0.939	167.1	25.25	13.02
111	2008	264	730	52.7	86.6	1.203	185.3	29.85	13.62
111	2008	264	745	54.19	83.5	1.636	188.1	30.32	13.6
111	2008	264	800	55.88	79.3	2.298	200.1	36.46	13.58
111	2008	264	815	57.49	75.3	3.042	220.4	40.91	13.56
111	2008	264	830	58.8	71.5	2.767	223.6	43.06	13.53
111	2008	264	845	60.14	68.76	3.473	198	43.79	13.51
111	2008	264	900	60.36	68.45	4.03	216.6	39.05	13.49
111	2008	264	915	60.18	65.78	3.811	234.4	44.37	13.43
111	2008	264	930	59.39	69.66	3.882	230.7	36.47	13.22
111	2008	264	945	60.78	63.67	3.376	223.3	49.54	13.25
111	2008	264	1000	60.17	64.87	3.352	206.6	39.68	13.29
111	2008	264	1015	61.45	58.81	3.362	192.1	43.19	13.45
111	2008	264	1030	64.39	53.22	2.882	236.2	62.95	13.4
111	2008	264	1045	65.62	57.86	3.627	200.4	42.4	13.37
111	2008	264	1100	63.47	56.72	3.291	190.7	43.19	13.37
111	2008	264	1115	63.11	54.15	2.277	215.1	69.55	13.37
111	2008	264	1130	63.09	56.12	3.16	292.6	43.61	13.38
111	2008	264	1145	64.41	56.45	3.135	299.1	42.61	13.36
111	2008	264	1200	63.45	56.45	5.3	312.2	25.86	13.35
111	2008	264	1215	63.97	56.52	5.235	321.9	39.39	13.34

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	264	1230	64.52	56.22	4.25	333.3	39.57	13.34
111	2008	264	1245	64.19	55.08	4.307	311.9	27.72	13.32
111	2008	264	1300	65.24	52.8	4.166	328	44.37	13.32
111	2008	264	1315	66.84	56.24	3.666	329.5	42.48	13.3
111	2008	264	1330	66.07	54.2	4.224	325.8	39.12	13.3
111	2008	264	1345	66.91	52.46	3.34	356.2	48.84	13.29
111	2008	264	1400	66.17	56.34	3.873	323.9	34.09	13.06
111	2008	264	1415	65.41	57.04	4.042	297.1	35.08	12.96
111	2008	264	1430	66.11	57.77	3.295	307.6	38.15	12.95
111	2008	264	1445	66.89	55.5	3.996	327.6	43.72	13.19
111	2008	264	1500	68.1	50.18	2.873	17.66	64.28	13.28
111	2008	264	1515	68.19	51.82	3.095	305.4	46.99	13.11
111	2008	264	1530	68.35	53.09	3.348	145.3	44.93	13.01
111	2008	264	1545	68.83	55.5	2.661	228.8	76	13.05
111	2008	264	1600	65.64	61.15	4.409	322	29.06	13.29
111	2008	264	1615	64.79	61.02	4.178	311.8	29.84	12.92
111	2008	264	1630	64.92	60.9	4.198	306.2	27.46	12.89
111	2008	264	1645	64.91	63.07	4.891	308.5	19.32	12.84
111	2008	264	1700	64.71	63.98	3.878	327.6	30.71	12.81
111	2008	264	1715	64.36	64.85	4.522	321.7	36.5	12.79
111	2008	264	1730	64.34	63.25	3.156	329.8	36.34	12.76
111	2008	264	1745	63.48	65.12	3.592	309.6	20.03	12.75
111	2008	264	1800	62.84	67.69	3.356	310.7	29.19	12.74
111	2008	264	1815	62.27	69.14	3.382	308.2	12.05	12.73
111	2008	264	1830	61.9	70.9	2.415	304.5	17.55	12.71
111	2008	264	1845	61.43	72.1	1.079	327.1	22.75	12.71
111	2008	264	1900	60.45	75.8	na	na	na	12.69
111	2008	264	1915	59.1	79.2	0.136	89.1	3.019	12.68
111	2008	264	1930	58.22	81.3	0.009	84.2	0	12.67
111	2008	264	1945	57.37	83	na	na	na	12.66
111	2008	264	2000	56.47	85	na	na	na	12.66
111	2008	264	2015	56.12	85.9	0.173	105	4.567	12.65
111	2008	264	2030	55.56	86.9	na	na	na	12.64
111	2008	264	2045	55.14	87.7	na	na	na	12.63
111	2008	264	2100	54.72	88.4	na	na	na	12.63
111	2008	264	2115	54.33	88.9	0.009	102.2	0	12.62
111	2008	264	2130	54.01	89.5	na	na	na	12.61
111	2008	264	2145	53.75	90.1	0.036	115.5	0.9	12.61
111	2008	264	2200	53.53	90.2	0.009	81.2	0	12.6
111	2008	264	2215	53.12	90.4	na	na	na	12.6
111	2008	264	2230	52.65	90.9	na	na	na	12.6
111	2008	264	2245	52.37	91.3	na	na	na	12.58
111	2008	264	2300	52.07	91.4	na	na	na	12.58
111	2008	264	2315	51.91	91.9	0.085	115.1	2.228	12.58
111	2008	264	2330	51.97	92.1	na	na	na	12.57
111	2008	264	2345	52.07	92	na	na	na	12.57
111	2008	264	2400	51.8	92.3	na	na	na	12.57
111	2008	265	15	51.81	92.2	na	na	na	12.56
111	2008	265	30	51.92	92.3	0.009	111.5	0.007	12.56
111	2008	265	45	52.08	92.2	0.176	155.8	9.4	12.56
111	2008	265	100	52.16	92.1	na	na	na	12.55
111	2008	265	115	52.2	91.8	na	na	na	12.55
111	2008	265	130	51.97	91.8	na	na	na	12.55
111	2008	265	145	51.71	91.9	na	na	na	12.54
111	2008	265	200	51.33	92	0.076	82.1	1.412	12.54
111	2008	265	215	50.96	92.1	na	na	na	12.53
111	2008	265	230	50.61	92.1	0.066	29.34	0.764	12.52
111	2008	265	245	50.26	92.3	0.018	40.98	0.791	12.52
111	2008	265	300	50.02	92.5	na	na	na	12.52
111	2008	265	315	49.7	92.6	na	na	na	12.51

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	265	330	49.39	92.9	na	na	na	12.51
111	2008	265	345	49.22	93	na	na	na	12.5
111	2008	265	400	48.96	93.1	na	na	na	12.5
111	2008	265	415	48.66	92.9	na	na	na	12.5
111	2008	265	430	48.38	93.3	na	na	na	12.49
111	2008	265	445	48.25	93.2	na	na	na	12.48
111	2008	265	500	47.92	93.6	na	na	na	12.48
111	2008	265	515	47.85	93.5	0.038	165.1	0.346	12.48
111	2008	265	530	47.73	93.8	na	na	na	12.47
111	2008	265	545	47.71	93.7	na	na	na	12.47
111	2008	265	600	47.6	93.9	na	na	na	12.47
111	2008	265	615	47.54	93.9	na	na	na	12.46
111	2008	265	630	47.48	94	na	na	na	12.46
111	2008	265	645	47.41	94.2	na	na	na	12.46
111	2008	265	700	47.73	94.3	na	na	na	12.46
111	2008	265	715	48.76	94.7	na	na	na	13.14
111	2008	265	730	50.48	95	na	na	na	13.64
111	2008	265	745	52.79	94.6	na	na	na	13.62
111	2008	265	800	55.79	91.6	0.419	85.9	9.66	13.6
111	2008	265	815	58.46	85.3	0.763	96	23.74	13.57
111	2008	265	830	60.78	76.7	1.271	86.8	28.82	13.54
111	2008	265	845	62.85	69.5	1.491	80.4	31.56	13.51
111	2008	265	900	64.27	65.44	1.746	30.12	31.74	13.48
111	2008	265	915	66.33	60.95	0.686	104.3	50.74	13.45
111	2008	265	930	67.28	59.44	1.263	52.32	55.72	13.41
111	2008	265	945	66.29	60.94	1.172	316.5	39.41	13.39
111	2008	265	1000	67.61	57.26	1.265	349.2	55.6	13.37
111	2008	265	1015	69.21	58.32	1.452	347.5	41.1	13.35
111	2008	265	1030	69.19	54.97	2.704	347.5	45.17	13.33
111	2008	265	1045	70.5	49.35	2.573	16.42	46.56	13.31
111	2008	265	1100	71.7	48.98	2.682	15.56	47.32	13.3
111	2008	265	1115	73	46.74	2.812	23.98	49.14	13.29
111	2008	265	1130	74	45.57	2.718	34.32	52	13.26
111	2008	265	1145	74.6	45.79	3.189	23.62	49.82	13.25
111	2008	265	1200	75.1	46.83	2.876	37.5	57.78	13.24
111	2008	265	1215	75.9	45.79	3.356	20.19	42.82	13.24
111	2008	265	1230	75.8	44.82	3.966	24.63	45.93	13.23
111	2008	265	1245	75.4	44.35	4.311	34.37	47.3	13.22
111	2008	265	1300	76	49.13	4.508	47.58	34.9	13.05
111	2008	265	1315	76.2	46.96	4.273	31.23	31.45	12.96
111	2008	265	1330	77.2	49.06	4.204	36.1	37.17	12.92
111	2008	265	1345	76.5	50.2	3.992	21.23	51.55	12.89
111	2008	265	1400	76.8	47.29	4.075	37.4	30.31	12.88
111	2008	265	1415	77.7	47.13	4.075	30.94	31	12.86
111	2008	265	1430	77.7	46.96	3.882	11.59	42.43	12.86
111	2008	265	1445	78.3	46.29	4.365	25.58	30.83	12.86
111	2008	265	1500	76.8	47.73	4.011	10.03	36.41	12.86
111	2008	265	1515	75	47.99	4.399	340.7	47.28	12.85
111	2008	265	1530	74.8	50.1	4.027	357.3	46.08	12.83
111	2008	265	1545	74.5	52.21	3.706	12.81	46.01	12.82
111	2008	265	1600	74.9	50.43	4.023	38.1	34.42	12.81
111	2008	265	1615	74.5	51.44	4.236	29.82	34.74	12.8
111	2008	265	1630	73.6	54.88	4.047	31.36	33.58	12.79
111	2008	265	1645	73	56.73	3.162	13.59	48.47	12.78
111	2008	265	1700	72.5	56	3.148	27.1	37.39	12.76
111	2008	265	1715	72.4	56.6	3.328	40.6	31.79	12.76
111	2008	265	1730	71.6	58.14	3.366	34.07	24.9	12.75
111	2008	265	1745	71.3	58.54	2.905	32.05	32.56	12.74
111	2008	265	1800	69.52	62.72	1.553	33.15	23.23	12.73
111	2008	265	1815	68.7	65.9	0.632	21.48	21.29	12.72

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	265	1830	67.59	70.1	0.594	23.28	18.07	12.71
111	2008	265	1845	66.59	73.5	0.831	30.52	25.76	12.7
111	2008	265	1900	65.81	76.4	1.525	30.2	24.7	12.7
111	2008	265	1915	65.22	79.7	1.762	32.35	20.2	12.68
111	2008	265	1930	64.88	81.7	1.098	32.9	20.81	12.68
111	2008	265	1945	64.49	82.9	0.352	30.78	6.879	12.67
111	2008	265	2000	63.67	84.8	0.009	117.3	0.006	12.67
111	2008	265	2015	63.05	86.4	0.009	124.7	0	12.66
111	2008	265	2030	62.62	87.6	na	na	na	12.65
111	2008	265	2045	62.23	88.7	0.045	109.2	3.665	12.64
111	2008	265	2100	61.99	89.3	na	na	na	12.63
111	2008	265	2115	61.71	89.5	na	na	na	12.63
111	2008	265	2130	61.3	89.8	na	na	na	12.62
111	2008	265	2145	60.89	90.3	na	na	na	12.61
111	2008	265	2200	60.44	90.8	na	na	na	12.61
111	2008	265	2215	60.22	91.1	0.031	90.9	0.862	12.6
111	2008	265	2230	60	91.4	na	na	na	12.59
111	2008	265	2245	59.88	91.8	na	na	na	12.59
111	2008	265	2300	59.79	92	0.211	200.3	3.454	12.58
111	2008	265	2315	59.65	92	na	na	na	12.58
111	2008	265	2330	59.59	92.1	0.047	23.83	2.092	12.57
111	2008	265	2345	59.37	92	0.124	89.8	1.495	12.56
111	2008	265	2400	58.91	92	na	na	na	12.55
111	2008	266	15	58.44	92.4	na	na	na	12.55
111	2008	266	30	58.11	92.4	na	na	na	12.55
111	2008	266	45	58.08	92.7	na	na	na	12.53
111	2008	266	100	58.62	92.2	na	na	na	12.54
111	2008	266	115	58.85	91.9	na	na	na	12.53
111	2008	266	130	58.93	91.6	na	na	na	12.53
111	2008	266	145	58.82	91.9	na	na	na	12.52
111	2008	266	200	58.67	92.1	na	na	na	12.52
111	2008	266	215	58.66	92.5	na	na	na	12.52
111	2008	266	230	58.91	92.3	na	na	na	12.52
111	2008	266	245	58.83	92.7	na	na	na	12.52
111	2008	266	300	58.89	92.9	na	na	na	12.51
111	2008	266	315	59.09	93.2	na	na	na	12.51
111	2008	266	330	59.36	93.5	0.059	177.8	19.02	12.5
111	2008	266	345	59.97	93.5	0.261	191.1	15.65	12.5
111	2008	266	400	60.46	93.6	0.97	191.4	26.34	12.5
111	2008	266	415	61.26	92.8	3.292	193.7	32.93	12.5
111	2008	266	430	61.58	92	2.477	192.2	38.84	12.5
111	2008	266	445	61.48	91.1	3.702	188.2	36.12	12.5
111	2008	266	500	61.36	90.1	3.614	185.6	31.27	12.5
111	2008	266	515	61.32	89.1	3.781	191.1	31.02	12.5
111	2008	266	530	61.2	88.6	3.39	192.3	34.62	12.5
111	2008	266	545	61.05	88.4	2.983	195.2	28.86	12.5
111	2008	266	600	60.92	88	3.62	197.8	31.23	12.5
111	2008	266	615	60.78	87.4	3.392	185.4	28.58	12.5
111	2008	266	630	60.6	86.8	3.472	202.1	27.52	12.5
111	2008	266	645	60.43	86.6	3.261	199.9	34.22	12.5
111	2008	266	700	60.44	85.9	3.547	198.5	30.48	12.5
111	2008	266	715	60.77	84.7	3.735	194.4	28.6	12.5
111	2008	266	730	60.98	84	3.64	187.3	33.68	12.59
111	2008	266	745	61.41	81.6	3.88	193	33.52	12.79
111	2008	266	800	62.03	80.1	3.535	191.1	33.6	13.15
111	2008	266	815	62.67	79	4.613	197.5	28.86	13.18
111	2008	266	830	62.85	76.6	4.089	203.2	45.17	13.26
111	2008	266	845	64.16	73.2	5.012	188.5	39.55	13.44
111	2008	266	900	64.38	72.3	4.369	198.8	41.36	13.21
111	2008	266	915	64.7	71	4.843	183.4	32.74	13.42

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	266	930	65.43	67.83	4.266	196.8	45.61	13.4
111	2008	266	945	66.52	66.62	4.559	187.4	36.76	13.38
111	2008	266	1000	67.12	64.88	5.018	200.1	40.88	13.36
111	2008	266	1015	68.45	62.84	4.144	181.4	43.62	13.35
111	2008	266	1030	69.2	60.9	3.67	215.1	47.9	13.33
111	2008	266	1045	69.39	61.39	4.688	186.9	38.99	13.32
111	2008	266	1100	69.82	60.82	4.617	198.8	41.99	13.31
111	2008	266	1115	70.2	59.28	5.163	208.5	45.1	13.3
111	2008	266	1130	70.5	60.55	5.183	231.5	38.88	13.29
111	2008	266	1145	70.5	57.71	5.231	202.1	37.62	13.29
111	2008	266	1200	71.3	59.28	4.972	186.9	42.07	13.28
111	2008	266	1215	71.6	58.74	4.673	205	43.19	13.27
111	2008	266	1230	71.7	56.84	4.389	202.4	40.4	13.26
111	2008	266	1245	72.5	57.47	4.925	238.8	51.91	13.26
111	2008	266	1300	71.5	59.21	4.238	221.5	45	13.25
111	2008	266	1315	71.5	58.34	4.011	237.6	53.75	13.26
111	2008	266	1330	70.8	60.95	4.164	211.2	44.77	13.26
111	2008	266	1345	70.4	61.65	4.238	215.5	36.94	13.27
111	2008	266	1400	70.8	59.01	4.579	216.5	45.15	13.28
111	2008	266	1415	70.8	57.91	5.01	223.8	36.77	13.27
111	2008	266	1430	70.7	59.78	4.718	204.3	45.74	13.27
111	2008	266	1445	70.7	60.45	4.595	239.6	37.8	13.28
111	2008	266	1500	70.8	58.68	4.579	223.2	49.11	13.27
111	2008	266	1515	70.9	57.74	4.845	232.3	46.45	13.28
111	2008	266	1530	71.2	58.27	4.617	223.1	41.75	13.28
111	2008	266	1545	71.2	60.58	4.532	226.2	41.06	13.28
111	2008	266	1600	69.91	62.62	4.546	229.9	38.96	13.28
111	2008	266	1615	69.14	65.03	4.994	235.1	43.58	13.3
111	2008	266	1630	68.05	66.47	4.7	237.5	36.78	13.26
111	2008	266	1645	67.46	66.81	5.137	217.5	43.06	13.18
111	2008	266	1700	67.3	66.35	4.835	225.9	36.11	13
111	2008	266	1715	67	68.56	4.454	227.2	42.32	12.9
111	2008	266	1730	66.61	68.39	3.662	228.1	46.05	12.82
111	2008	266	1745	66.62	68.03	3.644	244.9	43.82	12.78
111	2008	266	1800	65.93	70.2	4.45	215.1	37.57	12.76
111	2008	266	1815	64.93	73.3	4.726	244.1	35.88	12.74
111	2008	266	1830	63.98	75.3	3.998	243	33.95	12.72
111	2008	266	1845	63.35	76.9	3.175	241.1	36.65	12.71
111	2008	266	1900	62.83	77.9	3.823	243.7	38.19	12.7
111	2008	266	1915	62.28	79.2	2.98	244.5	40.89	12.69
111	2008	266	1930	61.64	80.5	3.199	240.1	40.18	12.68
111	2008	266	1945	61.33	80.9	3.266	237	37.25	12.68
111	2008	266	2000	61.07	81.9	3.122	241	36.56	12.67
111	2008	266	2015	60.7	82.8	2.688	226.9	37.95	12.66
111	2008	266	2030	60.64	82	2.543	247.5	37.41	12.65
111	2008	266	2045	60.82	81.1	3.07	244.9	40.11	12.65
111	2008	266	2100	60.92	81.2	2.238	247	39.7	12.65
111	2008	266	2115	60.61	81.2	2.485	262.4	39.87	12.65
111	2008	266	2130	60.17	82.1	2.655	234.8	38.41	12.64
111	2008	266	2145	59.6	83	2.496	220.2	34.63	12.63
111	2008	266	2200	59.27	83.4	1.742	204.7	34.58	12.63
111	2008	266	2215	59.34	83.6	1.035	209.5	33.84	12.63
111	2008	266	2230	59.28	83.1	1.764	194.5	30.2	12.63
111	2008	266	2245	58.74	84.2	2.086	200.9	33.88	12.63
111	2008	266	2300	58.21	85	1.815	202	30.72	12.62
111	2008	266	2315	57.64	86	1.423	200.6	22.46	12.62
111	2008	266	2330	57.16	86.8	1.073	199.2	18.83	12.62
111	2008	266	2345	56.57	87.9	0.37	200.5	14.72	12.61
111	2008	266	2400	56.2	88.7	0.809	198.8	18.9	12.6
111	2008	267	15	56.02	89	1.202	231.6	31.29	12.6

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	267	30	56.03	88.3	2.302	231.2	28.61	12.59
111	2008	267	45	55.72	87.9	2.069	224.2	36.81	12.59
111	2008	267	100	55.44	87.6	1.589	231.6	28.17	12.58
111	2008	267	115	55.05	88	1.499	224.5	35.17	12.58
111	2008	267	130	54.86	87.8	1.225	236.2	29.09	12.58
111	2008	267	145	54.67	87.7	1.661	236.2	29.76	12.57
111	2008	267	200	54.51	87.6	2.21	218.1	22.81	12.57
111	2008	267	215	54.3	88	2.054	188.8	36.5	12.56
111	2008	267	230	54	88.7	1.899	203.5	31.03	12.56
111	2008	267	245	54.12	88.8	1.766	192.1	22.78	12.56
111	2008	267	300	54.26	88.4	2.195	196.1	27.55	12.55
111	2008	267	315	53.96	88.7	1.409	190.9	26.93	12.55
111	2008	267	330	53.51	89.2	1.786	183.2	29.33	12.55
111	2008	267	345	53.19	89.8	1.955	192	25.83	12.54
111	2008	267	400	53.19	90	1.664	194.1	23.9	12.54
111	2008	267	415	53.14	90.1	1.835	197.4	21.45	12.53
111	2008	267	430	53.13	90.3	1.859	203	23.67	12.53
111	2008	267	445	53.02	90.4	1.058	187.9	18.37	12.52
111	2008	267	500	52.65	90.7	1.241	188	29.74	12.52
111	2008	267	515	52.5	91.3	1.363	201.9	30.36	12.51
111	2008	267	530	52.56	91.2	1.731	206	22.37	12.51
111	2008	267	545	52.63	90.7	2.505	197.8	30.11	12.51
111	2008	267	600	52.92	89.2	2.823	200.8	26.73	12.5
111	2008	267	615	52.79	88.4	1.952	202.8	26.42	12.5
111	2008	267	630	52.51	87.7	2.42	202.4	28.21	12.5
111	2008	267	645	52.43	86.8	2.682	192.2	27.66	12.5
111	2008	267	700	52.55	85.7	2.344	200.5	28.13	12.49
111	2008	267	715	53.44	81.9	3.132	197.8	28.58	13.05
111	2008	267	730	54.66	78.6	2.981	196.1	33.53	13.6
111	2008	267	745	55.92	74.7	3.628	187.1	31.17	13.58
111	2008	267	800	56.82	73.2	3.819	189.8	28.57	13.57
111	2008	267	815	58.03	69.04	3.72	191.6	29.7	13.56
111	2008	267	830	58.91	67.84	4.871	195.7	30.68	13.53
111	2008	267	845	59.98	65.01	4.609	207.7	36.95	13.51
111	2008	267	900	60.7	63.1	4.746	213.6	38.64	13.5
111	2008	267	915	61.64	60.96	4.849	205.1	40.99	13.48
111	2008	267	930	62.08	60.52	5.231	202.8	44.19	13.45
111	2008	267	945	62.76	57.54	5.135	210.1	33.93	13.44
111	2008	267	1000	63.49	56.47	4.953	226	36.35	13.43
111	2008	267	1015	64.19	57.5	4.953	219.8	37.86	13.2
111	2008	267	1030	64.3	54.75	5.723	219.8	39.6	13.39
111	2008	267	1045	64.21	56.22	6.124	243.2	39.3	13.19
111	2008	267	1100	64.35	55.02	5.278	235.3	38.19	13.18
111	2008	267	1115	66.2	51.4	5.558	218.1	47.25	13.28
111	2008	267	1130	65.6	53.58	5.28	208.7	43.29	13.29
111	2008	267	1145	64.31	55.15	6.096	214.3	33.49	13.22
111	2008	267	1200	64.57	51.34	5.33	232.8	35.57	13.18
111	2008	267	1215	66.88	48.7	4.798	223.3	49.29	13.33
111	2008	267	1230	67.61	46.66	5.056	219.1	39.49	13.13
111	2008	267	1245	67.89	45.65	5.522	203.9	47.73	13.14
111	2008	267	1300	68.35	44.37	5.749	210.4	42.23	13.06
111	2008	267	1315	67.82	44.4	5.443	212.9	45.33	13
111	2008	267	1330	68.41	44.97	4.573	209.2	58.1	12.95
111	2008	267	1345	68.27	43.13	4.949	233.7	50.97	12.95
111	2008	267	1400	68.72	43.6	4.244	217.7	49.04	12.91
111	2008	267	1415	68.78	45.3	3.872	231.1	45.26	12.87
111	2008	267	1430	68.42	42.93	4.762	222.6	47.92	12.87
111	2008	267	1445	68.73	40.22	4.138	217.6	42.8	12.86
111	2008	267	1500	69.17	40.55	4.262	198.1	41.55	12.86
111	2008	267	1515	69.13	39.08	3.514	206.6	46.22	12.84

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	267	1530	69.32	39.79	3.042	214.1	62.05	12.83
111	2008	267	1545	69.18	38.82	4.019	201.9	41.84	12.82
111	2008	267	1600	68.66	39.52	4.337	221.5	44.36	12.82
111	2008	267	1615	68.62	41.16	3.43	223.6	46.59	12.81
111	2008	267	1630	67.91	42.26	4.232	240.4	42.26	12.8
111	2008	267	1645	67.64	43.83	3.682	225.3	47.34	12.79
111	2008	267	1700	67.87	43.47	3.279	231.7	45.09	12.76
111	2008	267	1715	67.57	41.53	3.565	208.4	49.21	12.76
111	2008	267	1730	67.42	43.78	3.132	225.5	45.04	12.75
111	2008	267	1745	66.65	43.41	3.596	222.1	44.17	12.74
111	2008	267	1800	66.19	43.14	2.651	219	41.64	12.73
111	2008	267	1815	65.36	48.09	2.083	210.4	39.04	12.73
111	2008	267	1830	63.87	50.74	1.836	217.6	31.65	12.71
111	2008	267	1845	62.82	53.26	0.594	213.7	19.3	12.71
111	2008	267	1900	61.93	55.26	1.05	254.7	26.1	12.69
111	2008	267	1915	61.3	57.64	1.203	223.6	23.61	12.69
111	2008	267	1930	60.87	59.99	0.87	219.1	14.79	12.68
111	2008	267	1945	60.34	62	0.953	229.1	15.56	12.67
111	2008	267	2000	59.92	63.57	0.296	268.4	12.53	12.66
111	2008	267	2015	58.95	67.53	0.169	202.9	11.03	12.66
111	2008	267	2030	58.35	68.91	0.225	218	12.93	12.64
111	2008	267	2045	57.78	71.8	0.178	191.7	9.81	12.63
111	2008	267	2100	56.98	74.1	na	na	na	12.63
111	2008	267	2115	56.36	76.3	na	na	na	12.62
111	2008	267	2130	55.91	78.1	na	na	na	12.61
111	2008	267	2145	55.37	79.8	na	na	na	12.6
111	2008	267	2200	54.94	80.7	0.037	164.9	2.391	12.59
111	2008	267	2215	54.62	81.9	na	na	na	12.58
111	2008	267	2230	54.37	82.5	0.009	173.1	0	12.58
111	2008	267	2245	53.92	83.6	na	na	na	12.57
111	2008	267	2300	53.61	84.5	na	na	na	12.56
111	2008	267	2315	53.11	85.7	0.009	115.1	0.005	12.55
111	2008	267	2330	53.19	85.6	0.035	225.1	9.74	12.54
111	2008	267	2345	53.19	85.5	0.018	139.8	2.423	12.53
111	2008	267	2400	52.92	86	0.185	132.5	11.58	12.53
111	2008	268	15	52.83	86.2	0.092	165.7	2.889	12.52
111	2008	268	30	52.66	86.4	0.113	153.3	4.568	12.51
111	2008	268	45	52.61	86.2	0.759	175.8	16.68	12.5
111	2008	268	100	52.68	85.9	0.736	169.9	21.08	12.5
111	2008	268	115	52.44	86.4	0.652	169.2	20.21	12.5
111	2008	268	130	52.29	86.5	0.724	162.1	20.96	12.48
111	2008	268	145	52.11	86.7	0.768	176	21.32	12.48
111	2008	268	200	51.98	86.8	0.239	195.6	11.42	12.48
111	2008	268	215	51.67	87.4	0.432	159.6	16.06	12.47
111	2008	268	230	51.53	87.3	0.185	175.4	11.69	12.47
111	2008	268	245	51.37	87.5	0.471	165.1	14.72	12.47
111	2008	268	300	51.08	87.9	0.263	172.7	11.83	12.46
111	2008	268	315	50.87	87.9	0.383	164.9	9.05	12.46
111	2008	268	330	50.81	88	0.292	175.2	15.3	12.46
111	2008	268	345	50.77	87.6	0.392	171	19.68	12.45
111	2008	268	400	50.71	87.4	0.537	182.7	16.98	12.45
111	2008	268	415	50.71	87.5	0.607	185.5	16.94	12.44
111	2008	268	430	50.67	87.5	0.815	177.2	25.68	12.44
111	2008	268	445	50.8	87	0.356	195.8	17.76	12.44
111	2008	268	500	50.71	87.1	0.326	182.1	14.65	12.44
111	2008	268	515	50.68	87	0.328	221.6	12.62	12.44
111	2008	268	530	50.63	86.8	0.115	169	13.07	12.44
111	2008	268	545	50.22	87.4	na	na	na	12.43
111	2008	268	600	49.91	88	na	na	na	12.43
111	2008	268	615	49.74	88.6	0.04	229.1	1.28	12.43

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	268	630	49.7	88.9	na	na	na	12.42
111	2008	268	645	49.53	89.1	0.254	113.6	4.663	12.42
111	2008	268	700	49.46	90	na	na	na	12.42
111	2008	268	715	50.5	90.1	na	na	na	12.7
111	2008	268	730	52.88	86.2	0.346	169.7	7.45	13.63
111	2008	268	745	54.72	80.7	0.607	189.2	16.48	13.61
111	2008	268	800	56.24	76.2	0.829	199.9	30.26	13.59
111	2008	268	815	57.61	74.6	1.853	248.3	35.66	13.57
111	2008	268	830	58.94	71.1	2.216	215.6	38.15	13.55
111	2008	268	845	60.27	68.8	2.59	225.7	47.03	13.52
111	2008	268	900	60.86	67.49	3.269	236.2	35.12	13.5
111	2008	268	915	62.15	64.4	3.767	248.5	43.62	13.48
111	2008	268	930	62.85	62.76	3.525	249.7	42.12	13.24
111	2008	268	945	63.19	60.79	4.407	218.3	44.22	13.41
111	2008	268	1000	64.27	57.26	4.303	227.1	35.92	13.43
111	2008	268	1015	65.06	57.56	4.127	241.9	49.94	13.4
111	2008	268	1030	65.46	52.24	4.434	230.5	38.01	13.38
111	2008	268	1045	65.19	51.44	4.683	224.6	38.23	13.37
111	2008	268	1100	65.66	50.1	3.694	267.4	37.18	13.36
111	2008	268	1115	66.72	49	4.162	227.7	47.21	13.34
111	2008	268	1130	66.06	49.79	5.838	271.1	37.25	13.34
111	2008	268	1145	67.28	47.82	4.063	250.3	41.05	13.33
111	2008	268	1200	67.95	48.48	4.236	236.8	52.93	13.32
111	2008	268	1215	66.88	57.24	5.892	287.3	31.28	13.2
111	2008	268	1230	65.62	57.41	6.708	294.6	30.72	13.26
111	2008	268	1245	65.34	59.88	8.17	309.2	25.81	13.22
111	2008	268	1300	64.72	61.16	8.88	309.4	23.81	13.18
111	2008	268	1315	64.61	60.52	8.78	313.9	24.67	13.08
111	2008	268	1330	65.11	60.06	8.01	310.8	24.37	13.03
111	2008	268	1345	65.78	59.86	7.52	302.7	23.32	13.07
111	2008	268	1400	64.99	59.87	8.15	299.4	26.47	13.17
111	2008	268	1415	64.49	58.56	7.75	297.6	23.86	13.33
111	2008	268	1430	65.1	54.88	7.23	294.1	17.05	13.23
111	2008	268	1445	65.59	54.92	7.72	288.3	18.82	13.06
111	2008	268	1500	65.16	55.08	7.23	292.2	27.89	13.01
111	2008	268	1515	65.33	52.01	7.5	287.9	19.38	13
111	2008	268	1530	65.45	52.54	7.53	288.3	22.26	13.09
111	2008	268	1545	65.75	51.64	6.329	272.9	32.5	13.03
111	2008	268	1600	65.54	53.24	7.08	286.2	23.7	12.94
111	2008	268	1615	65.45	51.67	5.675	275.7	27.99	12.9
111	2008	268	1630	65.98	51.07	3.96	245.6	46.71	12.91
111	2008	268	1645	66.87	50.47	4.432	233.2	31.63	12.92
111	2008	268	1700	66.22	51.54	4.843	265.1	34.49	12.85
111	2008	268	1715	65.4	57.12	4.696	264.6	42.93	12.82
111	2008	268	1730	63.61	59.2	5.453	288.9	21.31	12.79
111	2008	268	1745	62.92	60.87	5.923	287.5	17.14	12.77
111	2008	268	1800	62.65	61.61	5.217	280	26.32	12.74
111	2008	268	1815	62.41	60.25	3.638	283.5	27.06	12.73
111	2008	268	1830	62.17	58.18	3.463	243.8	32.88	12.71
111	2008	268	1845	61.41	64.3	2.878	266.6	31.96	12.71
111	2008	268	1900	60.79	62.63	3.168	276	29.95	12.7
111	2008	268	1915	60.33	62.7	2.397	267.6	35.45	12.69
111	2008	268	1930	59.76	62.3	2.208	250.4	35.12	12.68
111	2008	268	1945	59.16	63.7	2.834	231.2	28.62	12.67
111	2008	268	2000	58.61	64.28	2.812	225.6	31.08	12.67
111	2008	268	2015	58.09	65.96	2.162	219.5	36.25	12.66
111	2008	268	2030	57.23	68.27	0.747	202.8	22.82	12.66
111	2008	268	2045	56.81	67.5	2.267	202.5	26.94	12.66
111	2008	268	2100	56.64	67.6	2.055	202	26.71	12.64
111	2008	268	2115	56.38	67.6	2.069	217.1	36.16	12.64

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	268	2130	56.07	68.41	1.219	230.6	30.6	12.63
111	2008	268	2145	55.54	69.41	0.966	212.8	24.5	12.63
111	2008	268	2200	54.93	70.7	0.435	230.6	14.1	12.62
111	2008	268	2215	54.37	72.6	0.354	209.3	11.03	12.62
111	2008	268	2230	53.88	73.2	0.578	205	21.11	12.61
111	2008	268	2245	54.06	72	1.478	215.8	28.19	12.6
111	2008	268	2300	54.26	69.49	2.602	222.8	30.62	12.6
111	2008	268	2315	54.69	68.29	2.652	219.7	34.98	12.6
111	2008	268	2330	54.67	68.42	2.351	223.4	29.96	12.59
111	2008	268	2345	54.62	69.09	2.404	221.9	38.52	12.59
111	2008	268	2400	54.11	70.4	1.881	219.1	33.54	12.58
111	2008	269	15	54	70.7	2.49	223	24.7	12.58
111	2008	269	30	53.88	71	2.304	219.9	26.37	12.58
111	2008	269	45	53.96	70.9	2.862	230.4	32.54	12.57
111	2008	269	100	54.05	71.6	3.374	220.6	32.9	12.56
111	2008	269	115	53.96	72.5	2.981	231.6	37.06	12.56
111	2008	269	130	53.81	73.6	3.044	223	29.11	12.56
111	2008	269	145	53.69	74	2.86	223.6	38.12	12.56
111	2008	269	200	53.71	73.8	3.016	230.3	32.92	12.55
111	2008	269	215	53.79	74	2.901	218.5	27.47	12.55
111	2008	269	230	53.79	73.9	3.283	227.7	30.36	12.54
111	2008	269	245	53.89	74	3.11	226	37.67	12.54
111	2008	269	300	53.67	75	2.454	206.2	34.62	12.53
111	2008	269	315	52.97	76.4	2.163	206.3	31.38	12.53
111	2008	269	330	52.54	77.6	1.814	199.5	26.55	12.53
111	2008	269	345	51.8	79.4	1.708	195.2	23.16	12.52
111	2008	269	400	51.38	80.1	2.133	201	27.34	12.51
111	2008	269	415	51.44	79.9	2.542	200.2	35.75	12.5
111	2008	269	430	51.61	79.8	2.613	199.8	33.1	12.5
111	2008	269	445	51.92	78.8	3.265	197	31.04	12.5
111	2008	269	500	52.36	77.7	3.368	203.9	34.68	12.48
111	2008	269	515	52.68	76.8	3.052	210.8	32.65	12.48
111	2008	269	530	52.76	76.3	3.469	206.3	32.97	12.47
111	2008	269	545	52.98	75.4	3.486	213.6	33.14	12.47
111	2008	269	600	52.94	75.5	3.622	209.9	33.68	12.46
111	2008	269	615	53.04	74.9	3.342	208.9	38.84	12.47
111	2008	269	630	53.25	74.7	3.729	220.8	32.57	12.46
111	2008	269	645	53.51	73.9	3.025	228.3	35.16	12.46
111	2008	269	700	53.7	72.2	3.328	217.1	39.54	12.45
111	2008	269	715	53.95	71.7	2.53	214.1	36.03	12.45
111	2008	269	730	54.07	72.6	2.971	216.9	28.92	12.47
111	2008	269	745	54.39	73.4	2.631	211.5	29.04	12.51
111	2008	269	800	54.84	73.1	3.098	207	27.6	12.62
111	2008	269	815	55.61	73	2.541	203	41.72	12.82
111	2008	269	830	56.43	73.3	3.636	222.6	32.22	13.09
111	2008	269	845	57.72	72.3	3.404	217.5	42.3	13.4
111	2008	269	900	59.33	68.14	4.808	220.2	31.72	13.52
111	2008	269	915	60.98	64.52	5.703	239	37.31	13.5
111	2008	269	930	62.62	62.23	6.819	238.9	33.76	13.47
111	2008	269	945	63.92	60.62	5.939	243.9	43.06	13.43
111	2008	269	1000	64.4	61.48	6.384	253.3	42.05	13.43
111	2008	269	1015	64.61	61.84	6.209	251.2	38.08	13.41
111	2008	269	1030	64.03	63.18	5.352	240.2	38.65	13.41
111	2008	269	1045	64.36	61.04	5.324	232.6	39.26	13.41
111	2008	269	1100	66.58	57.53	5.362	232.5	41.24	13.38
111	2008	269	1115	66.89	58.53	6.005	249.5	35.62	13.37
111	2008	269	1130	65.76	60.54	5.715	258.2	40.46	13.37
111	2008	269	1145	65.78	60.43	5.113	242.5	36.87	13.38
111	2008	269	1200	66.45	59.67	5.834	232.3	38.05	13.38
111	2008	269	1215	66.55	60	5.288	242.2	43.79	13.38

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	269	1230	66.74	54.68	6.777	256.2	36.8	13.38
111	2008	269	1245	67.2	52.74	7.14	244.2	39.06	13.38
111	2008	269	1300	67.33	54.01	6.704	247.1	43.37	13.38
111	2008	269	1315	67.72	53.18	6.293	227	37.35	13.37
111	2008	269	1330	67.27	55.65	5.659	221.6	39.35	13.37
111	2008	269	1345	66.1	58.49	5.747	218.5	35.26	13.38
111	2008	269	1400	65.83	59.13	5.375	223.7	38.87	13.39
111	2008	269	1415	65.76	56.69	5.715	229.9	39.83	13.39
111	2008	269	1430	65.63	55.89	5.743	226.1	34.86	13.4
111	2008	269	1445	65.22	58.13	5.268	236.9	38.02	13.4
111	2008	269	1500	64.9	57.36	5.074	230.9	32.52	13.41
111	2008	269	1515	64.71	57.13	5.372	224	37.69	13.41
111	2008	269	1530	64.65	55.96	4.645	227.6	41.27	13.41
111	2008	269	1545	64.31	56.66	5.673	233.1	42.88	13.41
111	2008	269	1600	63.84	58.93	5.967	224.3	34.27	13.42
111	2008	269	1615	63.57	60.48	6.477	227.5	35.68	13.11
111	2008	269	1630	63.23	62.62	5.491	231.5	38.94	12.93
111	2008	269	1645	62.78	64.23	5.796	227.4	36.85	12.83
111	2008	269	1700	62.4	65.1	5.647	234.1	36.83	12.79
111	2008	269	1715	62.15	65.87	5.31	229.4	40.28	12.76
111	2008	269	1730	62.05	66.24	6.473	229.5	38.06	12.74
111	2008	269	1745	61.93	66.88	5.586	227.2	30.89	12.73
111	2008	269	1800	61.85	67.41	4.808	217.7	46.06	12.72
111	2008	269	1815	61.71	67.68	5.193	217.9	33.47	12.71
111	2008	269	1830	61.61	68.15	4.927	230.4	36.98	12.71
111	2008	269	1845	61.61	68.69	4.882	225.8	38.3	12.71
111	2008	269	1900	61.61	69.52	4.395	213.3	43.81	12.7
111	2008	269	1915	61.67	70.3	4.119	229.1	41.27	12.69
111	2008	269	1930	61.66	70.9	3.369	224.8	33.67	12.69
111	2008	269	1945	61.66	71.6	5.231	227.6	34.54	12.69
111	2008	269	2000	61.64	72.1	4.241	230.4	44.62	12.68
111	2008	269	2015	61.72	73.6	4.553	230.8	40.69	12.68
111	2008	269	2030	61.66	73.8	5.223	230.2	46.57	12.67
111	2008	269	2045	61.38	77.2	5.771	227.1	48.47	12.68
111	2008	269	2100	60.44	79.9	5.268	226.8	44.69	12.68
111	2008	269	2115	59.94	82.2	5.054	222.3	48.03	12.66
111	2008	269	2130	59.3	83.8	4.947	214.3	38.38	12.65
111	2008	269	2145	58.77	85.3	4.865	199.7	42.76	12.65
111	2008	269	2200	58.57	85.4	5.304	219	35.67	12.65
111	2008	269	2215	58.56	85.3	5.79	228.6	43.53	12.65
111	2008	269	2230	58.57	86.3	5.193	214.9	38.88	12.64
111	2008	269	2245	58.53	86.7	4.941	212.3	35.76	12.63
111	2008	269	2300	58.6	86.1	5.556	217.2	41.99	12.63
111	2008	269	2315	58.77	85.4	7.33	212.3	33.72	12.63
111	2008	269	2330	58.96	84.8	7.14	215.1	31.93	12.63
111	2008	269	2345	59.14	85.1	7.4	221.6	37.87	12.62
111	2008	269	2400	58.9	87.9	6.898	208.2	33.86	12.62
111	2008	270	15	58.47	89.2	7.26	226.5	36.02	12.62
111	2008	270	30	58.45	90.1	6.35	210.9	38.98	12.61
111	2008	270	45	58.55	90.5	6.507	215.6	38.36	12.6
111	2008	270	100	58.67	91.2	7.44	217.5	39.3	12.6
111	2008	270	115	58.64	91.9	6.68	224.5	45.19	12.6
111	2008	270	130	58.67	92.1	6.211	216.5	45.45	12.59
111	2008	270	145	58.71	92.8	6.638	213.7	36.15	12.59
111	2008	270	200	58.84	92.9	5.979	221.5	41.61	12.59
111	2008	270	215	58.9	93.6	6.934	226.5	44.07	12.58
111	2008	270	230	58.97	93.9	7.27	226.6	35.78	12.58
111	2008	270	245	59.14	94	5.977	226.1	41.07	12.57
111	2008	270	300	59.23	94.2	6.571	215.8	40.27	12.57
111	2008	270	315	59.38	94.4	7.23	221.3	30.1	12.56

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	270	330	59.55	94.3	7.82	230.6	35.89	12.55
111	2008	270	345	59.63	94.4	7.36	220.3	38.24	12.55
111	2008	270	400	59.77	94.2	7.13	226	39.88	12.55
111	2008	270	415	59.85	94.2	7.33	230.1	39.83	12.54
111	2008	270	430	60.01	94.1	7.71	226.8	33.8	12.53
111	2008	270	445	60.09	94.4	6.579	213.2	39.04	12.53
111	2008	270	500	60.16	94.5	6.483	209.3	52.02	12.52
111	2008	270	515	60.33	94.3	6.954	227.9	40.27	12.51
111	2008	270	530	60.46	94.2	6.404	224.2	42.34	12.51
111	2008	270	545	60.59	94.4	7.13	223.6	43.28	12.51
111	2008	270	600	60.69	94.7	6.648	230.1	43.15	12.51
111	2008	270	615	60.79	95.1	7.08	221.3	37.09	12.51
111	2008	270	630	60.92	95.2	6.638	224	31.15	12.5
111	2008	270	645	61.07	95.4	7.28	221.6	39.86	12.5
111	2008	270	700	61.21	95.4	6.462	228.4	42.49	12.5
111	2008	270	715	61.33	95.4	7.06	226.3	34.12	12.5
111	2008	270	730	61.42	95.6	7.24	226.3	38.32	12.49
111	2008	270	745	61.59	95.7	6.7	215.7	37.95	12.49
111	2008	270	800	61.79	95.6	8.19	204	30.53	12.49
111	2008	270	815	61.99	95.6	5.477	198.5	46.01	12.49
111	2008	270	830	62.09	95.6	5.713	153.9	33.94	12.49
111	2008	270	845	62.09	95.6	5.572	90.3	68.54	12.49
111	2008	270	900	62.08	95.7	5.004	40.02	34.46	12.5
111	2008	270	915	62.04	95.6	4.814	39.84	36.76	12.49
111	2008	270	930	61.86	95.7	4.649	41.82	38.77	12.49
111	2008	270	945	61.76	95.9	5.018	33.34	40.24	12.5
111	2008	270	1000	62	95.9	4.579	22.8	31.71	12.59
111	2008	270	1015	62.46	95.9	5.203	33.96	33.68	12.64
111	2008	270	1030	63.07	96	4.264	33.16	40.56	12.74
111	2008	270	1045	63.57	95.9	3.594	36.45	30.48	12.79
111	2008	270	1100	63.97	95.9	3.019	52.27	36.47	12.71
111	2008	270	1115	64.4	95.9	2.913	55.05	40.22	12.71
111	2008	270	1130	64.99	95.9	2.782	51.73	42.19	12.74
111	2008	270	1145	65.62	95.9	2.434	49.48	35.85	12.99
111	2008	270	1200	66	95.8	2.862	38.82	40.67	13.01
111	2008	270	1215	66.2	95.8	2.504	44.18	35.8	13
111	2008	270	1230	66.44	95.7	2.965	36.75	32.3	13.01
111	2008	270	1245	66.82	95.7	2.878	45.72	35.68	13.06
111	2008	270	1300	67.06	95.6	2.991	40.19	34.65	13.07
111	2008	270	1315	67.52	95.4	3.189	22.35	33.01	13.23
111	2008	270	1330	67.45	95.2	4.033	24.32	39.81	13.13
111	2008	270	1345	67.62	95.1	3.811	36.19	32.74	13.28
111	2008	270	1400	67.81	94.6	3.956	35.04	33.66	13.08
111	2008	270	1415	68.06	94.3	3.34	17.89	31.11	13.09
111	2008	270	1430	68.28	93.9	3.477	26.78	32.84	12.98
111	2008	270	1445	68.49	93.9	2.931	29.92	36.69	12.97
111	2008	270	1500	68.84	93.2	2.936	32.46	48.98	13.03
111	2008	270	1515	69	92.5	3.648	33.13	31.24	12.95
111	2008	270	1530	68.99	91.9	3.543	42.58	39.28	12.87
111	2008	270	1545	68.53	91.9	3.648	55.32	39.01	12.81
111	2008	270	1600	68.05	92.1	3.809	41.72	47.91	12.79
111	2008	270	1615	67.42	92.7	3.289	47.07	39.43	12.76
111	2008	270	1630	66.74	92.8	3.999	28.31	39.85	12.76
111	2008	270	1645	66.4	92.5	4.653	23.79	33.2	12.79
111	2008	270	1700	66.28	92.6	4.518	25.6	32.45	12.76
111	2008	270	1715	66.18	92.7	3.624	34.46	36.7	12.73
111	2008	270	1730	66.15	92.8	3.424	48.7	40.46	12.72
111	2008	270	1745	66.1	92.8	3.648	38.51	37.9	12.71
111	2008	270	1800	66.01	93.2	3.356	49.42	45.22	12.71
111	2008	270	1815	65.92	93.5	3.082	38.88	39.68	12.7

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	270	1830	65.81	93.8	2.604	42.34	37.01	12.69
111	2008	270	1845	65.81	94	2.657	25.83	34.97	12.68
111	2008	270	1900	65.82	94.1	2.228	31.77	32.08	12.67
111	2008	270	1915	65.82	94.2	2.537	20.32	29.32	12.66
111	2008	270	1930	65.83	94.5	3.459	11.96	25.8	12.65
111	2008	270	1945	65.81	94.5	3.346	19.36	29.49	12.64
111	2008	270	2000	65.74	94.6	3.162	21.58	33.3	12.63
111	2008	270	2015	65.71	94.7	2.605	18.08	29.04	12.62
111	2008	270	2030	65.75	94.7	2.824	17.74	31.03	12.61
111	2008	270	2045	65.77	94.7	1.288	4.118	38.02	12.6
111	2008	270	2100	65.78	94.9	1.709	18.29	30.98	12.59
111	2008	270	2115	65.86	94.9	2.565	22.68	24.17	12.57
111	2008	270	2130	65.9	95	2.042	39.04	30.34	12.57
111	2008	270	2145	65.92	95	1.826	26.31	33.67	12.56
111	2008	270	2200	65.91	95.1	1.697	23.16	35.67	12.55
111	2008	270	2215	65.95	95.2	1.747	15.31	28.7	12.55
111	2008	270	2230	66.03	95.3	0.911	41.24	32.89	12.53
111	2008	270	2245	66.08	95.2	0.972	17.1	20.68	12.53
111	2008	270	2300	66.12	95.2	0.929	38.26	35.62	12.53
111	2008	270	2315	66.09	95.2	1.613	54.77	43.26	12.52
111	2008	270	2330	65.74	95.3	2.197	32.62	32.21	12.52
111	2008	270	2345	65.6	95.4	1.991	20.06	31.84	12.5
111	2008	270	2400	65.51	95.4	1.764	31.04	35.16	12.51
111	2008	271	15	65.4	95.4	1.485	26.58	46.54	12.51
111	2008	271	30	65.26	95.4	2.058	25.81	34.44	12.51
111	2008	271	45	65.05	95.5	1.935	31.69	41.98	12.51
111	2008	271	100	64.99	95.6	1.408	14.06	27.39	12.5
111	2008	271	115	64.85	95.5	2.061	12.17	46.49	12.5
111	2008	271	130	64.7	95.6	1.108	23.3	23.7	12.5
111	2008	271	145	64.66	95.6	1.892	37.83	31.67	12.5
111	2008	271	200	64.62	95.7	1.7	71.8	30.17	12.5
111	2008	271	215	64.64	95.7	2.144	41.48	32.11	12.49
111	2008	271	230	64.65	95.7	2.075	37.48	29.04	12.49
111	2008	271	245	64.73	95.8	1.776	41.54	26.92	12.49
111	2008	271	300	64.81	95.7	1.84	47.52	30.15	12.49
111	2008	271	315	64.89	95.9	2.042	38.72	34.74	12.49
111	2008	271	330	64.93	95.8	1.681	51.25	36.27	12.49
111	2008	271	345	64.98	95.9	1.901	25.12	34.84	12.49
111	2008	271	400	64.99	95.8	1.2	31.04	31.09	12.49
111	2008	271	415	64.93	95.9	2.362	35.33	30.61	12.49
111	2008	271	430	64.87	95.9	2.108	16.32	35.7	12.49
111	2008	271	445	64.81	96	1.112	16.4	28.15	12.49
111	2008	271	500	64.78	95.9	1.329	21.05	24.01	12.49
111	2008	271	515	64.76	95.9	1.27	2.8	26.02	12.49
111	2008	271	530	64.77	96	1.075	13.74	29.35	12.49
111	2008	271	545	64.77	96	1.911	22.1	31.23	12.49
111	2008	271	600	64.72	96	2.699	35.4	32.07	12.49
111	2008	271	615	64.71	96	2.258	39.99	35.08	12.49
111	2008	271	630	64.73	96.1	2.261	13.06	27.6	12.49
111	2008	271	645	64.73	96.2	3.287	35.32	35.98	12.48
111	2008	271	700	64.75	96.1	3.062	47.64	38.69	12.49
111	2008	271	715	64.86	96.1	2.788	39.92	38.52	12.48
111	2008	271	730	64.99	96.1	3.09	43.99	34.74	12.48
111	2008	271	745	65.19	96.2	2.764	46.48	39.5	12.48
111	2008	271	800	65.38	96.1	1.533	41.48	34.33	12.48
111	2008	271	815	65.6	96	1.285	50.39	49.03	12.48
111	2008	271	830	65.75	96	1.357	6.711	32.63	12.48
111	2008	271	845	65.94	96	1.91	355.3	31.73	12.48
111	2008	271	900	66.1	96.1	1.985	8.07	28.02	12.49
111	2008	271	915	66.25	95.9	1.286	358.1	17.91	12.49

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	271	930	66.64	96	1.847	11.87	29.44	12.49
111	2008	271	945	67.27	95.9	2.303	22.02	33.72	12.81
111	2008	271	1000	67.01	96	2.6	24.43	28.57	12.73
111	2008	271	1015	66.91	95.7	2.898	50.41	39.49	12.68
111	2008	271	1030	66.91	95.7	2.987	70	40.38	12.69
111	2008	271	1045	67.03	95.7	2.616	35.13	41.13	12.83
111	2008	271	1100	67.17	95.7	2.105	39	38.96	12.78
111	2008	271	1115	67.3	95.7	2.018	41.83	33.5	12.8
111	2008	271	1130	67.43	95.7	2.207	62.07	35.24	12.77
111	2008	271	1145	67.77	95.6	2.645	95.2	32.08	12.85
111	2008	271	1200	67.81	95.3	4.268	97.4	27.94	12.89
111	2008	271	1215	67.87	95.3	4.079	99.1	28.23	12.92
111	2008	271	1230	68.04	95.1	3.446	87	38.53	12.95
111	2008	271	1245	68.37	95.1	2.786	79.5	39.88	12.93
111	2008	271	1300	68.62	94.8	2.997	88.8	33.14	12.97
111	2008	271	1315	68.77	94.7	2.761	77.5	40.67	12.98
111	2008	271	1330	68.79	94.5	3.12	104.1	25.83	12.94
111	2008	271	1345	68.63	94.5	2.59	98.1	37.99	12.89
111	2008	271	1400	68.5	94.6	3.144	95.7	30.77	12.9
111	2008	271	1415	68.61	94.5	3.179	103.7	27.2	12.9
111	2008	271	1430	69.07	94.5	2.953	124.6	30.73	13.03
111	2008	271	1445	69.25	93.9	3.771	126.2	20.24	12.94
111	2008	271	1500	69.23	93.8	3.189	125.9	28.07	12.96
111	2008	271	1515	69.59	93.6	2.254	189.3	41.86	13.03
111	2008	271	1530	69.68	93.1	2.473	148.9	37.63	13.08
111	2008	271	1545	69.72	92.6	2.975	131.5	27.65	13.09
111	2008	271	1600	69.42	92.2	3.789	128.5	15.97	13.01
111	2008	271	1615	69.2	92.4	3.229	118.3	18.35	12.87
111	2008	271	1630	68.99	92.3	2.949	103.1	25.87	12.82
111	2008	271	1645	68.84	92.3	2.711	100.6	25.57	12.79
111	2008	271	1700	68.78	92.4	2.838	106.6	23.78	12.75
111	2008	271	1715	68.54	92.5	3.972	115.3	15.52	12.73
111	2008	271	1730	68.09	92.5	3.416	123.1	19.26	12.71
111	2008	271	1745	67.74	92.6	2.995	118.9	17.49	12.71
111	2008	271	1800	67.62	92.7	2.191	109.7	23.68	12.69
111	2008	271	1815	67.65	92.4	2.337	108.7	28.67	12.68
111	2008	271	1830	67.57	92.3	2.749	126.4	38.78	12.66
111	2008	271	1845	67.39	92.3	2.151	105.8	36.33	12.65
111	2008	271	1900	67.24	92.2	2.127	112.7	20.71	12.64
111	2008	271	1915	66.99	92.5	2.623	119.7	13.02	12.62
111	2008	271	1930	66.72	92.7	2.129	119.4	16.15	12.62
111	2008	271	1945	66.65	92.8	2.33	117.8	14.46	12.6
111	2008	271	2000	66.4	93.1	2.82	134.2	18.94	12.59
111	2008	271	2015	66.22	93.4	3.537	128.2	16.68	12.58
111	2008	271	2030	66.12	93.5	3.066	122.6	16.87	12.57
111	2008	271	2045	66.04	93.4	2.651	118.8	22.49	12.55
111	2008	271	2100	65.92	93.4	0.69	132.7	13.51	12.55
111	2008	271	2115	65.76	93.5	0.305	101.2	21.42	12.53
111	2008	271	2130	65.62	93.6	0.714	126.7	26.09	12.53
111	2008	271	2145	65.52	93.8	0.14	123.8	4.067	12.52
111	2008	271	2200	65.55	93.9	0.411	127.4	14.51	12.51
111	2008	271	2215	65.61	93.9	1.248	128.8	17.24	12.5
111	2008	271	2230	65.72	93.9	1.122	132.9	19.43	12.5
111	2008	271	2245	65.7	94	0.739	129.4	19.35	12.49
111	2008	271	2300	65.65	94	1.555	128.6	28.86	12.49
111	2008	271	2315	65.62	94.1	0.518	150.9	22.87	12.49
111	2008	271	2330	65.59	94.3	0.844	123.8	14.67	12.48
111	2008	271	2345	65.55	94.5	0.839	88.7	29.89	12.48
111	2008	271	2400	65.56	94.7	1.07	83.6	34.28	12.48
111	2008	272	15	65.46	94.9	0.148	356.7	6.157	12.48

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	272	30	65.49	95	0.42	57.27	44.97	12.48
111	2008	272	45	65.53	95.1	0.688	111.8	11.25	12.47
111	2008	272	100	65.54	95.2	1.454	99.7	29.18	12.47
111	2008	272	115	65.52	95.3	0.524	95.2	27.13	12.47
111	2008	272	130	65.56	95.3	0.187	29.68	23.36	12.47
111	2008	272	145	65.54	95.3	0.736	15.75	19.74	12.47
111	2008	272	200	65.57	95.5	1.17	16	49.68	12.47
111	2008	272	215	65.56	95.5	1.384	45.42	40.52	12.46
111	2008	272	230	65.52	95.5	0.871	83.8	48.04	12.47
111	2008	272	245	65.52	95.6	1.019	34.14	40	12.47
111	2008	272	300	65.53	95.7	0.609	357.7	13.17	12.46
111	2008	272	315	65.59	95.7	0.276	1.743	6.048	12.47
111	2008	272	330	65.63	95.7	0.07	52.34	2.24	12.47
111	2008	272	345	65.64	95.7	0.681	350	32.17	12.47
111	2008	272	400	65.61	95.8	0.948	8.91	22.33	12.47
111	2008	272	415	65.63	95.8	0.96	13.82	29.05	12.47
111	2008	272	430	65.62	95.9	1.264	29.15	30.73	12.47
111	2008	272	445	65.64	95.9	1.883	8.61	28.31	12.47
111	2008	272	500	65.7	95.9	1.922	13.21	30.99	12.47
111	2008	272	515	65.73	95.9	2.09	36.46	35.55	12.47
111	2008	272	530	65.7	96	1.96	31.72	32.83	12.47
111	2008	272	545	65.73	96	2.099	33.6	34.56	12.47
111	2008	272	600	65.79	95.9	1.609	45.15	50.21	12.47
111	2008	272	615	65.87	96	0.97	54.92	30.17	12.47
111	2008	272	630	65.93	96	1.209	36.83	44	12.47
111	2008	272	645	65.98	96	0.629	32.79	19.81	12.47
111	2008	272	700	66.04	96	0.782	18.05	23.19	12.46
111	2008	272	715	66.12	96.1	0.904	11	19.6	12.47
111	2008	272	730	66.26	96	0.596	11.3	25.66	12.47
111	2008	272	745	66.24	96	1.52	5.793	25.85	12.47
111	2008	272	800	66.3	96	1.993	5.674	22.32	12.47
111	2008	272	815	66.51	95.9	1.191	10.71	32.05	12.48
111	2008	272	830	66.68	96	1.946	17.55	27.69	12.49
111	2008	272	845	66.81	95.9	2.203	8.29	26.14	12.49
111	2008	272	900	66.98	96	2.298	27.73	37.3	12.58
111	2008	272	915	67.27	95.9	1.927	16.52	28.7	12.65
111	2008	272	930	67.93	95.8	1.742	22.93	42.27	12.85
111	2008	272	945	68.52	95.1	2.182	36.65	35.88	13.09
111	2008	272	1000	68.71	94.6	2.186	37.53	37.14	13.05
111	2008	272	1015	68.99	93.1	1.49	69.41	49.84	13.06
111	2008	272	1030	69.08	93.6	1.487	40.81	40.68	12.99
111	2008	272	1045	69.06	93.2	2.084	71	42.97	12.93
111	2008	272	1100	69.28	92	3.038	167.1	44.31	13.06
111	2008	272	1115	69.47	89.8	3.537	170.8	42.69	13.3
111	2008	272	1130	69.19	89.6	3.666	190.4	40.82	13
111	2008	272	1145	68.51	89.6	3.31	177.6	37.38	12.97
111	2008	272	1200	68.62	89.2	2.836	173	41.42	13.06
111	2008	272	1215	69.09	88.3	3.485	154.1	40.25	13.03
111	2008	272	1230	69.06	88.3	3.044	178.6	40.65	13.06
111	2008	272	1245	69.91	85.9	3.398	184	41.59	13.31
111	2008	272	1300	69.83	86.5	3.058	179	50.18	13.2
111	2008	272	1315	70.4	83.8	3.739	219.2	32.15	13.29
111	2008	272	1330	70.9	82	3.082	191.7	46.4	13.3
111	2008	272	1345	70.9	83.2	3.805	196.2	38.47	13.3
111	2008	272	1400	70.5	84.6	2.615	153.6	35.83	13.3
111	2008	272	1415	70.7	83.4	1.419	109.5	36.95	13.29
111	2008	272	1430	71.8	82.4	3.665	149.7	35.67	13.28
111	2008	272	1445	70.5	83.7	3.751	182.8	42.17	13.28
111	2008	272	1500	70.8	82.2	3.749	197.7	41.65	13.28
111	2008	272	1515	71.2	82.5	3.285	206.2	33.17	13.29

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	272	1530	71.1	82.2	3.144	189.4	50.99	13.29
111	2008	272	1545	70.8	81.8	3.412	176.2	39.39	13.29
111	2008	272	1600	70.7	83	4.623	206.9	28.27	13.17
111	2008	272	1615	70.6	82.1	3.11	228	31.13	13.3
111	2008	272	1630	71.2	80.6	2.535	212.9	36.16	13.3
111	2008	272	1645	72.3	79.1	2.919	201.7	50.26	13.3
111	2008	272	1700	71.4	82.5	4.27	222.5	22.37	13.02
111	2008	272	1715	69.4	86	3.886	231.3	26.59	12.96
111	2008	272	1730	68.81	86.4	3.745	215.5	22.84	13.22
111	2008	272	1745	69.05	86	2.27	225.4	26.28	12.98
111	2008	272	1800	68.71	86.7	2.232	220	15.67	12.83
111	2008	272	1815	68.16	88.3	2.249	220.7	20.78	12.79
111	2008	272	1830	67.47	89.5	2.514	215.9	26.81	12.77
111	2008	272	1845	66.67	90.9	2.284	211.9	27.58	12.75
111	2008	272	1900	66.22	91.6	2.524	224.2	28.14	12.74
111	2008	272	1915	65.92	92.3	1.542	210.8	25.27	12.73
111	2008	272	1930	65.67	92.6	2.204	210.6	23.79	12.71
111	2008	272	1945	65.41	93.2	1.152	197.6	27.01	12.71
111	2008	272	2000	65.37	93.3	1.845	222.6	26.8	12.7
111	2008	272	2015	65.21	93.6	1.362	231.5	28.05	12.7
111	2008	272	2030	65.19	93.9	0.567	232.7	33.09	12.69
111	2008	272	2045	65.27	93.9	0.195	334.7	24.12	12.69
111	2008	272	2100	65.24	94.1	0.201	247.3	18.19	12.69
111	2008	272	2115	65.3	94.3	0.377	197.3	22.64	12.68
111	2008	272	2130	65.31	94.4	1.195	226.3	13.89	12.68
111	2008	272	2145	65.34	94.5	1.574	226.9	21.42	12.68
111	2008	272	2200	65.23	94.6	1.291	217.8	24.13	12.68
111	2008	272	2215	65.2	94.6	0.477	206.7	19.35	12.68
111	2008	272	2230	65.31	94.7	1.458	223	16.52	12.67
111	2008	272	2245	65.42	94.7	2.461	212.2	23.78	12.66
111	2008	272	2300	65.42	94.8	2.987	230.3	35.99	12.66
111	2008	272	2315	65.36	94.8	1.521	347.6	71.1	12.66
111	2008	272	2330	65.45	95.2	2.704	197.9	74.6	12.66
111	2008	272	2345	66	95.3	3.208	320.1	35.74	12.66
111	2008	272	2400	66.04	95.4	1.566	315.4	26.73	12.66
111	2008	273	15	65.93	95.5	0.864	306.1	29.04	12.66
111	2008	273	30	65.88	95.6	0.736	327.8	22.05	12.65
111	2008	273	45	65.75	95.6	0.466	295.3	24.12	12.65
111	2008	273	100	65.66	95.7	0.261	261.1	14.7	12.65
111	2008	273	115	65.68	95.6	0.2	232.5	8.15	12.65
111	2008	273	130	65.71	95.6	0.04	284.4	1.465	12.65
111	2008	273	145	65.65	95.7	0.107	287.1	4.333	12.65
111	2008	273	200	65.61	95.7	na	na	na	12.64
111	2008	273	215	65.53	95.8	na	na	na	12.63
111	2008	273	230	65.46	95.8	0.699	329.6	22.99	12.63
111	2008	273	245	65.29	95.8	0.635	325.9	24.6	12.63
111	2008	273	300	65.1	95.8	0.556	328.7	20.75	12.63
111	2008	273	315	65.02	95.8	0.883	292.7	15.47	12.63
111	2008	273	330	64.94	95.8	0.98	307.8	25.02	12.63
111	2008	273	345	64.9	95.8	1	317.4	22.23	12.62
111	2008	273	400	64.86	95.9	1.906	325.9	32.42	12.62
111	2008	273	415	64.8	95.9	1.965	312.3	30.83	12.61
111	2008	273	430	64.76	96	1.179	323.5	26.19	12.61
111	2008	273	445	64.74	95.9	1.35	320.5	33.71	12.61
111	2008	273	500	64.65	96	1.68	329.1	44.35	12.61
111	2008	273	515	64.62	95.9	2.562	349.9	45.5	12.61
111	2008	273	530	64.58	95.8	2.075	341.6	44.07	12.6
111	2008	273	545	64.45	95.8	2.537	345.1	52.86	12.6
111	2008	273	600	64.46	95.8	2.259	353.4	44.17	12.6
111	2008	273	615	64.49	95.9	2.519	0.478	47.72	12.59

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	273	630	64.53	95.8	3.015	14.81	37.21	12.59
111	2008	273	645	64.54	95.9	2.196	4.894	31.17	12.59
111	2008	273	700	64.53	95.9	1.569	3.949	37.84	12.59
111	2008	273	715	64.57	95.8	1.259	342.5	32.05	12.58
111	2008	273	730	64.64	95.8	1.512	344.8	37.65	12.58
111	2008	273	745	64.7	95.8	1.939	354	35.22	12.58
111	2008	273	800	64.65	95.4	2.727	355.2	39.74	12.59
111	2008	273	815	64.66	95.8	2.033	353	24.61	12.59
111	2008	273	830	66.35	94.9	1.612	354.8	53.19	12.69
111	2008	273	845	67.03	93.2	2.106	325.5	55.81	12.76
111	2008	273	900	66.46	93.1	2.391	350.6	59.77	12.73
111	2008	273	915	66.93	91.9	2.204	338	68.86	12.73
111	2008	273	930	67.94	84.3	4.133	356.6	52.47	12.95
111	2008	273	945	69.25	77.7	3.765	356.2	52	13.3
111	2008	273	1000	69.73	76.2	4.859	3.178	51.17	9.39
111	2008	273	1015	69.93	73.3	3.674	8.63	49.97	13.11
111	2008	273	1030	70.8	69.18	4.033	359.6	53.96	13.16
111	2008	273	1045	71.6	70.3	4.258	24.87	43.02	8.51
111	2008	273	1100	72.2	65.1	4.023	359.2	48.87	13.26
111	2008	273	1115	73	65.6	4.377	3.736	55.72	13.21
111	2008	273	1130	71.8	63.96	4.744	5.028	45.03	13.24
111	2008	273	1145	72.7	62.69	4.522	1.619	52.22	13.24
111	2008	273	1200	73.2	63.62	4.532	2.131	47.51	11.82
111	2008	273	1215	72.9	62.69	4.208	3.283	42.62	13.24
111	2008	273	1230	72.4	61.12	5.437	7.84	45.32	13.24
111	2008	273	1245	72.6	61.92	4.542	4.189	58.44	13.25
111	2008	273	1300	72.8	58.84	5.08	353.3	44.27	13.25
111	2008	273	1315	74.4	58.51	4.744	360	46.16	13.25
111	2008	273	1330	73.4	60.41	4.43	334.9	50.34	13.24
111	2008	273	1345	73.5	57	4.035	344.7	42.37	13.25
111	2008	273	1400	74.1	57.84	4.279	346.6	45.64	13.25
111	2008	273	1415	72.7	59.94	3.93	339.1	42.72	13.25
111	2008	273	1430	72.2	63.05	3.912	328	45.08	13.26
111	2008	273	1445	71.5	63.05	3.358	326.6	50.48	13.26
111	2008	273	1500	71.7	62.72	4.418	328.8	46.02	13.27
111	2008	273	1515	71.8	62.92	4.891	331.8	46.14	13.27
111	2008	273	1530	70.9	62.99	4.488	336.2	44.84	13.27
111	2008	273	1545	70.7	63.19	4.087	327.5	46.37	12.72
111	2008	273	1600	70.7	62.62	3.966	325.7	42.4	13.28
111	2008	273	1615	70.9	61.42	4.395	324.8	48.81	13.3
111	2008	273	1630	71.4	59.21	3.634	320.2	43.64	10.96
111	2008	273	1645	72.2	56.67	3.855	326.7	47.83	13.29
111	2008	273	1700	71.6	59.91	2.443	337.1	54.41	13.29
111	2008	273	1715	70.5	61.38	3.495	337.2	48.83	13.2
111	2008	273	1730	69.61	62.25	3.287	342.2	42.13	13.12
111	2008	273	1745	69.87	60.95	2.343	336	47.59	13.06
111	2008	273	1800	70	61.79	3.312	356.7	52.76	12.89
111	2008	273	1815	69.08	65.51	3.108	13.97	40.43	12.82
111	2008	273	1830	67.81	66.89	3.125	14.74	46.28	12.76
111	2008	273	1845	66.84	67.62	2.764	14.41	43.62	12.72
111	2008	273	1900	66.03	68.53	2.705	6.206	43.29	12.7
111	2008	273	1915	65.48	69.5	2.573	358.6	51.13	12.68
111	2008	273	1930	64.97	70.2	2.377	5.617	50	12.67
111	2008	273	1945	64.76	70.9	2.148	12.62	39.18	12.66
111	2008	273	2000	64.41	71.6	2.25	4.186	49.03	12.65
111	2008	273	2015	63.93	72.3	2.135	338.2	37.84	12.65
111	2008	273	2030	63.34	74.6	1.114	327.4	38.29	12.63
111	2008	273	2045	62.84	75.7	1.737	332.6	43.05	12.63
111	2008	273	2100	62.44	76.9	1.682	333.9	43.5	12.63
111	2008	273	2115	62.05	77.9	1.807	342.6	40.73	12.62

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	273	2130	61.88	78.8	1.25	342.8	38.45	12.61
111	2008	273	2145	61.25	80.7	0.758	315.2	15.63	12.61
111	2008	273	2200	60.78	82.2	0.967	331	44.14	12.61
111	2008	273	2215	60.7	82.4	1.197	324	32.81	12.6
111	2008	273	2230	60.56	82.9	1.378	304.9	25.48	12.6
111	2008	273	2245	60.15	84.2	1.215	312.3	27.04	12.6
111	2008	273	2300	59.65	85.3	1.712	318	34.4	12.6
111	2008	273	2315	59.21	86.2	1.675	314.1	31.05	12.59
111	2008	273	2330	58.82	86.9	1.24	308.5	32	12.58
111	2008	273	2345	58.5	87.4	1.106	312.8	30.56	12.58
111	2008	273	2400	58.26	88	0.593	312.7	24.94	12.58
111	2008	274	15	57.97	88.6	1.269	306.2	31.07	12.57
111	2008	274	30	57.79	88.9	1.311	300.6	27.34	12.56
111	2008	274	45	57.51	89.4	1.262	320.8	34.78	12.56
111	2008	274	100	57.19	89.9	0.955	310.3	23.76	12.56
111	2008	274	115	57.04	90.5	1.057	310.4	24.55	12.55
111	2008	274	130	57.07	90.7	0.807	324.3	29.22	12.55
111	2008	274	145	57.24	91	1.09	324.2	27.37	12.54
111	2008	274	200	57.45	90.9	1.131	312.7	34.56	12.54
111	2008	274	215	57.5	90.8	0.403	355.1	23.06	12.54
111	2008	274	230	57.31	90.9	0.852	312.9	34.26	12.52
111	2008	274	245	57.13	91.1	0.994	317.8	23.49	12.52
111	2008	274	300	56.94	91.3	0.999	310.1	20.18	12.52
111	2008	274	315	56.62	91.6	0.949	321	31.47	12.51
111	2008	274	330	56.55	91.7	0.507	346.8	21.77	12.51
111	2008	274	345	56.44	92.1	0.287	337	20.05	12.5
111	2008	274	400	56.62	91.9	1.016	334.2	39.74	12.5
111	2008	274	415	56.48	91.6	1.419	303.3	18.25	12.5
111	2008	274	430	56.42	91.8	1.136	3.88	27.39	12.5
111	2008	274	445	56.65	91.8	0.698	352.9	30.96	12.5
111	2008	274	500	56.99	91.5	0.223	301.4	17.3	12.48
111	2008	274	515	57.28	91.3	0.331	339.1	19.37	10.94
111	2008	274	530	57.63	90.7	0.844	350.3	24.87	12.48
111	2008	274	545	57.95	90.2	1.059	2.57	25.38	12.48
111	2008	274	600	58.35	89.5	1.448	11.44	24.16	12.48
111	2008	274	615	58.65	88.5	1.769	8.57	30.78	12.48
111	2008	274	630	58.8	87.9	0.815	349.7	31.83	12.48
111	2008	274	645	58.95	87.4	0.99	351.9	24.28	12.48
111	2008	274	700	59.09	86.9	1.068	8.41	35.43	12.48
111	2008	274	715	59.31	86.4	0.833	8.24	20.31	12.48
111	2008	274	730	59.55	85.9	0.545	355.1	17.09	12.48
111	2008	274	745	59.83	85.1	1.178	8.88	29.29	12.48
111	2008	274	800	60.19	84.3	1.295	18.39	33.72	10.15
111	2008	274	815	60.49	83.2	1.842	14.31	28.13	12.48
111	2008	274	830	60.93	81.4	1.885	3.883	51.78	12.54
111	2008	274	845	61.24	80.7	2	8.34	35.81	12.55
111	2008	274	900	61.66	79.6	1.369	26.23	30.72	12.57
111	2008	274	915	62.02	78.3	1.08	46.7	41.49	12.62
111	2008	274	930	62.19	77.8	1.558	48.87	36.49	12.66
111	2008	274	945	62.33	77.3	1.55	46.13	39.95	12.47
111	2008	274	1000	62.71	77.2	1.081	20.22	40.08	12.71
111	2008	274	1015	63.15	75.6	0.998	33.67	35.37	12.79
111	2008	274	1030	63.42	75.8	0.502	343.7	28.73	12.85
111	2008	274	1045	64.11	74.1	1.231	19.79	27.77	8.38
111	2008	274	1100	64.33	73.3	1.267	21.79	40.64	13.17
111	2008	274	1115	64.97	72.3	1.2	105.5	32.59	13.37
111	2008	274	1130	66.55	66.16	1.942	243.5	68.78	13.36
111	2008	274	1145	67.39	66.49	2.366	351	56.37	11.8
111	2008	274	1200	69.95	59.16	1.908	283.3	60.11	13.32
111	2008	274	1215	70.3	61.19	3.006	278.3	50.9	13.3

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	274	1230	68.97	66.44	1.785	215.5	82.8	13.3
111	2008	274	1245	67.9	66.4	2.729	108.2	23.94	13.3
111	2008	274	1300	68.68	66.1	3.902	110.1	26.52	13.29
111	2008	274	1315	70.1	61.38	3.609	176.4	52.08	13.29
111	2008	274	1330	71.7	60.75	4.289	191.8	45.04	13.29
111	2008	274	1345	72.7	57.84	4.51	204.6	32.72	13.29
111	2008	274	1400	71.7	63.32	3.684	167.7	46.38	13.29
111	2008	274	1415	72	57.07	3.744	207.1	48.89	13.3
111	2008	274	1430	72.7	55.97	3.954	197.8	44.26	13.3
111	2008	274	1445	73	54.63	3.888	187	44.62	13.29
111	2008	274	1500	72.6	54.9	4.246	178.1	46.5	13.29
111	2008	274	1515	72.6	56.44	4.724	196.7	38.84	13.28
111	2008	274	1530	71.5	59.68	4.041	190.1	44.05	13.28
111	2008	274	1545	71.7	60.98	4.496	202.8	34.94	13.29
111	2008	274	1600	70.2	64.06	4.647	203.3	33.53	13.29
111	2008	274	1615	69.68	66.1	4.603	194.5	36.63	13.3
111	2008	274	1630	68.49	67.34	5.002	213.9	27.65	13.3
111	2008	274	1645	68.07	68.34	4.655	213.5	24.61	13.31
111	2008	274	1700	66.93	72.2	4.633	219	23.03	13.32
111	2008	274	1715	66.43	72.3	4.492	220.2	19.67	13.33
111	2008	274	1730	65.6	75.2	4.367	210.9	24.54	12.96
111	2008	274	1745	65.06	76.7	3.118	214.6	26.66	12.81
111	2008	274	1800	64.55	77.4	2.993	215.4	23.55	12.76
111	2008	274	1815	63.99	79.1	2.315	219.4	24.45	12.72
111	2008	274	1830	63.55	80	2.835	216.6	23.68	12.7
111	2008	274	1845	63.13	81.1	1.725	223.3	20.9	12.7
111	2008	274	1900	62.74	82.6	1.569	220.1	14.61	12.68
111	2008	274	1915	62.47	83.7	2.086	221	20.37	12.67
111	2008	274	1930	62.21	84.2	1.206	213.1	22.17	12.67
111	2008	274	1945	62.11	84.9	1.141	215.1	21.6	12.65
111	2008	274	2000	62.09	85.2	1.381	224.1	19.9	12.65
111	2008	274	2015	62.06	85.3	1.114	205.8	23.7	12.65
111	2008	274	2030	62.19	84.5	0.681	203	20.83	12.65
111	2008	274	2045	62.19	84.6	1.201	205.8	17.38	12.64
111	2008	274	2100	62.1	85.1	1.12	199.8	22.61	12.64
111	2008	274	2115	62.02	85.8	0.441	178.2	28.61	12.63
111	2008	274	2130	62.15	85.4	0.875	165.6	24.82	12.63
111	2008	274	2145	62.01	84.6	1.356	163.9	30.37	12.63
111	2008	274	2200	62.05	83.9	1.132	184.3	28.29	12.63
111	2008	274	2215	61.77	84.6	1.742	197.6	30.42	12.62
111	2008	274	2230	61.38	86.1	1.729	195.4	34.8	12.62
111	2008	274	2245	61.79	85.6	1.745	191.2	38.11	12.61
111	2008	274	2300	61.5	87.3	1.491	206.8	21.41	12.6
111	2008	274	2315	61.5	87.8	1.621	206.4	26.43	12.6
111	2008	274	2330	61.88	87.7	2.315	204.2	27.67	12.6
111	2008	274	2345	62.19	87.6	2.648	210.4	27.15	12.6
111	2008	274	2400	62.47	88.1	2.834	207.5	34.57	12.6
111	2008	275	15	62.74	88.1	1.619	209.3	30.09	12.59
111	2008	275	30	62.76	88.6	1.577	192.3	33.53	12.59
111	2008	275	45	62.79	88.7	1.793	207.2	30.42	12.59
111	2008	275	100	62.76	88.8	1.93	201.3	37.88	12.59
111	2008	275	115	62.86	88.5	1.856	168.3	43.99	12.58
111	2008	275	130	62.8	88.9	1.425	179.1	35.96	12.58
111	2008	275	145	62.76	89.1	1.605	163.2	34.13	12.57
111	2008	275	200	62.95	89.3	1.827	199.5	30.66	12.57
111	2008	275	215	63.19	88.9	1.493	180.5	40.42	12.56
111	2008	275	230	63.43	88	2.486	136.7	30.84	12.56
111	2008	275	245	63.75	88	3.62	138.5	34.09	12.56
111	2008	275	300	63.63	88.7	3.557	138	27.81	12.55
111	2008	275	315	63.73	88.2	4.373	132.7	22.23	12.55

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	275	330	63.87	87.7	4.756	126.5	20.34	12.55
111	2008	275	345	63.99	87.7	4.48	136.4	34.04	12.54
111	2008	275	400	63.79	89.6	3.033	206.9	50.44	12.53
111	2008	275	415	63.3	89.8	2.272	121.8	30.54	12.53
111	2008	275	430	63.47	90.1	1.03	158.6	34.64	12.52
111	2008	275	445	63.28	90.2	2.343	175.4	39.47	12.51
111	2008	275	500	63.51	89.7	2.602	148.5	43.59	12.51
111	2008	275	515	63.9	88.9	3.573	137.8	32.37	12.51
111	2008	275	530	64.05	89.2	3.332	151	35.17	12.51
111	2008	275	545	64.17	89.2	3.992	150.9	35.27	12.5
111	2008	275	600	64.29	89.7	3.324	153.2	40.14	12.49
111	2008	275	615	64.27	90.3	3.473	162.6	47.52	12.5
111	2008	275	630	64.37	90.2	2.905	171.7	45.47	12.49
111	2008	275	645	64.42	90.2	4.073	172	45.5	12.49
111	2008	275	700	64.56	90	3.884	175.1	47.31	12.49
111	2008	275	715	64.43	90.6	3.745	200.3	41.43	12.49
111	2008	275	730	64.66	90.2	3.831	198.1	43.98	12.49
111	2008	275	745	64.42	90.2	3.722	231.9	28.44	12.48
111	2008	275	800	64.68	88.7	2.606	256.8	40.1	12.49
111	2008	275	815	65.76	84.9	3.785	231.6	35.63	12.51
111	2008	275	830	66.55	82.6	4.079	247.4	39.64	12.57
111	2008	275	845	66.83	80.2	4.347	245.7	37.06	12.59
111	2008	275	900	67.71	77.9	3.501	280.7	46.48	12.71
111	2008	275	915	67.1	79	3.678	290.1	31.49	12.96
111	2008	275	930	66.61	79	2.983	283.3	30.61	13.1
111	2008	275	945	66.67	77.7	2.587	272.5	38.89	13.09
111	2008	275	1000	67.64	74.9	4.083	257.1	45.8	13.08
111	2008	275	1015	68.37	72.5	3.36	262.6	49.92	13.14
111	2008	275	1030	68.08	72.4	3.404	280.2	43.51	13.19
111	2008	275	1045	69.31	65.22	3.974	253.4	41.29	13.21
111	2008	275	1100	71	66.01	4.362	223.8	41.7	13.21
111	2008	275	1115	72.4	64.07	4.495	227.6	38.44	13.28
111	2008	275	1130	72.1	64.93	5.141	202.6	30.88	13.26
111	2008	275	1145	71.7	63.29	5.715	217.2	29.17	13.26
111	2008	275	1200	72.6	62.76	5.977	224.9	23.32	13.26
111	2008	275	1215	72.3	63.29	6.648	221.6	24.53	13.26
111	2008	275	1230	72.1	63.82	6.742	220.8	25.06	13.25
111	2008	275	1245	72	65.76	6.938	217.4	30.31	13.25
111	2008	275	1300	72.1	62.05	6.825	213.4	29.76	13.26
111	2008	275	1315	71.7	62.15	7.12	222.6	23.49	13.26
111	2008	275	1330	71.9	62.62	7.75	215.3	25.55	13.27
111	2008	275	1345	72.1	60.58	6.831	225.7	29.6	13.28
111	2008	275	1400	71.9	61.35	7.43	219.6	30.57	13.29
111	2008	275	1415	71.9	63.93	7.84	214.1	25.68	13.3
111	2008	275	1430	72.5	61.42	6.827	218.4	25.34	13.3
111	2008	275	1445	71.3	67.97	7.13	223.6	19.17	13.29
111	2008	275	1500	70.6	66.73	6.295	217.3	27.34	13.3
111	2008	275	1515	69.44	72.1	6.759	217.5	33.03	13.3
111	2008	275	1530	68.76	73	7.74	214.3	23.62	13.31
111	2008	275	1545	68.26	72.9	6.589	227.9	25.81	13.3
111	2008	275	1600	68.27	74.6	5.262	219.4	25.05	13.32
111	2008	275	1615	68.06	73.9	4.804	214.3	27.47	13.33
111	2008	275	1630	68.12	72.3	4.553	212.3	30.63	13.34
111	2008	275	1645	68.14	73	4.054	217.5	32.33	13.34
111	2008	275	1700	68.27	73.3	4.049	204.9	36.11	13.34
111	2008	275	1715	68.44	72.6	4.405	214.4	32.18	13.35
111	2008	275	1730	67.85	76.2	4.555	215.3	29.83	13.35
111	2008	275	1745	66.88	77.9	3.571	229.2	27.03	12.93
111	2008	275	1800	65.97	79.6	2.121	226.7	25.02	12.79
111	2008	275	1815	65.35	80.3	2.699	229.9	26.2	12.74

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	275	1830	64.8	81.3	2.429	222.4	18.34	12.71
111	2008	275	1845	64.44	81.5	2.118	216	23.41	12.69
111	2008	275	1900	64.35	82.7	2.598	229.1	21.59	12.68
111	2008	275	1915	64.54	82.5	2.523	238.9	31.72	12.67
111	2008	275	1930	64.26	69.68	4.899	277.6	40.34	12.67
111	2008	275	1945	60.82	78.1	3.975	299.8	26.6	12.65
111	2008	275	2000	59.05	82.8	1.407	301.4	32.68	12.65
111	2008	275	2015	58.89	83.5	0.759	317.5	50.31	12.64
111	2008	275	2030	58.8	82.5	0.532	128.9	14.44	12.63
111	2008	275	2045	59.43	83.9	0.657	73.2	56.95	12.63
111	2008	275	2100	59.2	84.8	0.027	14.86	1.712	12.63
111	2008	275	2115	59.35	84.7	0.592	285	17.55	12.62
111	2008	275	2130	59.15	85.1	0.845	297.8	16.57	12.62
111	2008	275	2145	58.68	86.4	0.255	303.2	9.61	12.62
111	2008	275	2200	58.45	87.1	0.487	307	9.24	12.62
111	2008	275	2215	58.35	87.1	0.731	307.6	14.35	12.6
111	2008	275	2230	58.56	87	1.418	291.3	21.31	12.6
111	2008	275	2245	58.47	88.1	2.214	304.3	30.55	12.6
111	2008	275	2300	58.2	89.3	0.454	9.28	24.43	12.6
111	2008	275	2315	58.1	89.6	0.062	6.738	6.929	12.6
111	2008	275	2330	58.31	89.8	0.423	137.2	5.254	12.6
111	2008	275	2345	58.53	90.4	0.07	213.7	3.698	12.58
111	2008	275	2400	58.41	91.2	0.471	232.8	12.75	12.58
111	2008	276	15	58.2	91.8	1.394	270.1	25.84	12.58
111	2008	276	30	57.78	92.2	0.285	277	16.53	12.58
111	2008	276	45	57.62	92.8	0.227	300.3	7.32	12.58
111	2008	276	100	57.66	92.9	0.836	275.3	26.15	12.57
111	2008	276	115	57.5	92.9	0.213	291.2	10.01	12.57
111	2008	276	130	57.46	92.8	0.042	268	5.171	12.56
111	2008	276	145	57.37	92.6	0.122	263.5	12.35	12.56
111	2008	276	200	57.29	92.6	0.63	278.4	17.94	12.55
111	2008	276	215	57.36	92.4	1.685	278.5	30.98	12.55
111	2008	276	230	57.47	92	1.511	267.1	22.57	12.55
111	2008	276	245	57.47	91.9	1.992	272.1	34.14	12.54
111	2008	276	300	57.47	91.9	2.354	275.9	32.98	12.54
111	2008	276	315	57.36	92.2	1.296	293.5	18.49	12.54
111	2008	276	330	57.13	92.3	1.96	296	28.83	12.53
111	2008	276	345	56.67	91.9	2.338	292.5	25.04	12.52
111	2008	276	400	56.22	91.3	3.092	289.4	31.36	12.52
111	2008	276	415	55.76	90.3	3.056	282.6	27.24	12.52
111	2008	276	430	55.36	90	2.461	277.5	32.6	12.5
111	2008	276	445	55.09	89.3	2.449	279.6	35.36	12.5
111	2008	276	500	55.03	88.6	3.384	297.5	31.01	12.5
111	2008	276	515	55.1	88	3.799	283.9	37.96	12.5
111	2008	276	530	55.04	87.2	3.608	282.1	29.1	12.48
111	2008	276	545	54.6	87.6	3.164	280.1	31.34	12.48
111	2008	276	600	54.17	87.6	3.632	285	36.19	12.47
111	2008	276	615	53.83	87.9	2.941	287.8	28.21	12.46
111	2008	276	630	53.51	87.7	3.271	278.1	26.58	12.45
111	2008	276	645	53.19	88	2.467	272.6	31.85	12.44
111	2008	276	700	53.02	87.2	3.642	290.1	31.31	12.44
111	2008	276	715	53.26	85.8	3.825	289.4	29.22	12.44
111	2008	276	730	53.78	84	3.406	281.9	31.34	12.42
111	2008	276	745	54.53	80.2	3.837	278.3	41.48	12.43
111	2008	276	800	55.09	78.1	5.141	284.8	29.92	12.44
111	2008	276	815	55.82	76	4.214	287.1	30.53	12.47
111	2008	276	830	56.29	73.6	5.352	287.1	28.03	12.5
111	2008	276	845	57.11	71.2	4.681	294.3	30.51	12.52
111	2008	276	900	56.58	71.2	6.817	293.2	32.76	12.6
111	2008	276	915	56.76	67.47	5.514	304.6	33.69	12.96

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	276	930	57.26	63.55	6.607	296.3	29.75	13.1
111	2008	276	945	57.85	62.27	7.85	297.2	33.41	13.35
111	2008	276	1000	58.37	57.78	8.57	296.3	38.07	13.43
111	2008	276	1015	58.99	55.84	6.863	294.9	36.37	13.42
111	2008	276	1030	59.39	55.84	7.03	298.5	32.99	13.41
111	2008	276	1045	59.8	52.83	7.11	277.6	30.67	13.29
111	2008	276	1100	60.13	50.52	8.58	278.2	29.02	13.39
111	2008	276	1115	59.98	52.52	8.18	303.4	29.69	13.39
111	2008	276	1130	60.63	50.08	7.97	288.2	29.75	13.38
111	2008	276	1145	60.97	48.21	8.32	295.2	35.25	13.29
111	2008	276	1200	60.81	46.17	9.12	285.6	34.65	13.38
111	2008	276	1215	61.12	43.49	9.64	294.6	24.89	13.37
111	2008	276	1230	61.51	43.02	8.63	281.4	35.58	13.38
111	2008	276	1245	61.95	40.31	8.28	294.9	30.79	13.38
111	2008	276	1300	62.23	42.95	7.04	294.1	39.99	13.38
111	2008	276	1315	63.45	41.84	6.074	294.6	28.75	13.38
111	2008	276	1330	62.48	43.78	7.06	299	32.79	13.38
111	2008	276	1345	61.75	41.07	6.843	282.9	45.16	13.39
111	2008	276	1400	62.4	41.81	6.738	297.2	34.89	13.4
111	2008	276	1415	61.89	43.01	6.442	289.5	30.88	13.41
111	2008	276	1430	61.28	40.07	6.803	277.5	35.37	13.41
111	2008	276	1445	62.68	38.67	7.94	288.1	33.19	13.42
111	2008	276	1500	63.51	38	6.674	281.7	37.03	13.41
111	2008	276	1515	63.76	39.06	7.48	294.8	27.55	13.4
111	2008	276	1530	62.72	40.47	6.559	287.3	35.64	13.4
111	2008	276	1545	63.22	39.7	6.605	288.6	31.17	13.4
111	2008	276	1600	63.06	40.27	6.69	305.7	36.46	13.4
111	2008	276	1615	62.82	40.8	6.388	291.9	33.36	13.4
111	2008	276	1630	63.62	39.33	6.726	274.5	40.63	13.4
111	2008	276	1645	62.74	40.94	6.962	285.7	36.64	13.4
111	2008	276	1700	62.41	40.84	4.957	283	39.26	13.27
111	2008	276	1715	62.05	43.85	5.725	252.3	36.61	12.99
111	2008	276	1730	61.15	44.19	4.43	275.3	39.89	12.97
111	2008	276	1745	61.24	45.03	5.844	271.5	31.3	12.94
111	2008	276	1800	60.47	47.54	5.121	283	34.83	12.82
111	2008	276	1815	59.74	48.38	5.526	267.7	42.13	12.77
111	2008	276	1830	58.92	50.72	3.664	264.3	38.19	12.74
111	2008	276	1845	58.41	49.92	4.273	245	37.2	12.72
111	2008	276	1900	58.12	49.59	4.131	273.8	37.07	12.71
111	2008	276	1915	58.33	49.66	4.174	278	31.52	12.7
111	2008	276	1930	57.87	57.96	3.88	327.9	31.2	12.68
111	2008	276	1945	56.52	61.61	3.559	308.1	29.03	12.68
111	2008	276	2000	55.6	64.12	1.861	289.4	24.87	12.68
111	2008	276	2015	55.08	65.03	1.148	278	16.84	12.67
111	2008	276	2030	54.58	67.54	na	na	na	12.66
111	2008	276	2045	53.87	70.6	na	na	na	12.66
111	2008	276	2100	53.16	71.2	0.141	274.8	5.649	12.64
111	2008	276	2115	53.13	64.27	1.506	276.5	28.42	12.64
111	2008	276	2130	53.94	61.56	2.651	286.3	22.95	12.63
111	2008	276	2145	54.07	59.32	2.482	276	26.03	12.63
111	2008	276	2200	54.12	57.65	2.714	250.8	37.17	12.62
111	2008	276	2215	53.96	58.92	1.89	280.6	26.68	12.62
111	2008	276	2230	53.2	60.96	0.804	260.1	18.36	12.62
111	2008	276	2245	52.72	61.7	1.055	282.6	23.44	12.61
111	2008	276	2300	52.25	64.35	0.718	240.6	25.95	12.6
111	2008	276	2315	51.3	67.39	0.183	234.9	10.74	12.6
111	2008	276	2330	50.94	68.66	0.665	301.1	10.5	12.6
111	2008	276	2345	50.72	68.56	0.781	256.6	23.54	12.59
111	2008	276	2400	51.03	67.02	1.336	284.4	23.7	12.58
111	2008	277	15	51.15	66.02	1.851	290.8	20.56	12.59

Array_ID	Year	Julian_Day	Time (Hmm)	Temperature (Fahrenheit)	Relative humidity (%)	Wind speed (mph)	Wind direction (degrees)	stdev Wind direction (degrees)	Battery (volts)
111	2008	277	30	51.42	65.92	1.53	278.2	25.11	12.58
111	2008	277	45	50.86	68.1	1.066	260.8	31.9	12.58
111	2008	277	100	50.9	67.69	2.026	287	26.92	12.57
111	2008	277	115	50.6	69.1	0.875	276.6	24.31	12.56
111	2008	277	130	50.53	68.46	1.951	274.4	23.28	12.57
111	2008	277	145	50.63	67.73	1.995	287.9	25.41	12.57
111	2008	277	200	50.55	68.87	1.138	290.4	18.05	12.56
111	2008	277	215	49.7	71.3	0.599	270.4	20.3	12.55
111	2008	277	230	49.69	68.06	2.524	265.1	31.36	12.55
111	2008	277	245	49.92	67.43	1.745	248.4	32.9	12.55
111	2008	277	300	50.25	66.16	1.831	261.9	31.45	12.55
111	2008	277	315	49.88	65.65	2.455	254.2	33.43	12.55
111	2008	277	330	50.3	64.25	2.126	270	28.66	12.55
111	2008	277	345	49.74	68.93	0.688	256.1	33.93	12.54
111	2008	277	400	49.11	68.17	2.07	295.1	22.59	12.54
111	2008	277	415	49.16	70.3	0.876	289.6	13.77	12.53
111	2008	277	430	48.64	72.7	0.711	272.7	24.42	12.53
111	2008	277	445	48.05	76	0.569	237.8	16.83	12.52
111	2008	277	500	48.99	74.1	1.468	267.8	32.32	12.52
111	2008	277	515	49.78	74.2	0.371	283.7	15.22	12.51
111	2008	277	530	49.17	76.6	na	na	na	12.51
111	2008	277	545	48.36	79.4	0.009	245	0.009	12.51
111	2008	277	600	47.84	81.7	0.374	231.2	8.09	12.51
111	2008	277	615	48.81	77.8	3.113	222.9	26.98	12.5
111	2008	277	630	52.32	68.61	5.03	228.8	22.5	12.5
111	2008	277	645	53.88	67.36	5.225	228.6	22.96	12.5
111	2008	277	700	54.71	64.11	5.91	229.8	27.47	12.5
111	2008	277	715	55.46	64.28	5.173	236.5	30.56	12.5
111	2008	277	730	55.91	62.84	5.632	238	30.3	12.51
111	2008	277	745	56.18	63.83	4.748	231.5	27.77	12.52
111	2008	277	800	56.75	60.51	6.612	233.7	31.5	12.53
111	2008	277	815	57.86	56.49	7.6	227.5	24.93	12.58
111	2008	277	830	59.84	55.89	7.52	231.1	30.96	12.82
111	2008	277	845	59.68	55.79	7.51	230.1	26.42	12.94
111	2008	277	900	59.67	53.61	9.11	230	26.15	12.99
111	2008	277	915	60.2	53.27	8.56	231.5	26.94	13.21
111	2008	277	930	60.38	53.36	10.08	224.7	23.37	13.32
111	2008	277	945	60.1	54.1	8.24	230.8	25.76	13.3
111	2008	277	1000	60.27	53.76	8.27	230.4	28.79	13.48
111	2008	277	1015	60.26	54.4	8.12	232.8	25.17	13.47
111	2008	277	1030	61.13	53.9	9.03	233.6	25.68	13.46
111	2008	277	1045	61.44	53.23	9.11	229.9	32.03	13.45
111	2008	277	1100	61.95	52.53	8.3	245.6	34.06	13.43
111	2008	277	1115	62.51	51.45	8.34	234.6	32.01	13.43
111	2008	277	1130	63.07	50.28	8.72	232.7	34.04	13.41
111	2008	277	1145	64.72	46.54	7.97	227.5	31.4	13.4
111	2008	277	1200	65.55	44.92	9.37	228	26.19	13.38
111	2008	277	1215	65.59	46.32	9.16	231.2	27.4	13.37
111	2008	277	1230	65.51	46.32	8.65	238.8	41.68	13.36
111	2008	277	1245	65.24	46.22	9.04	237.9	34.02	13.37
111	2008	277	1300	64.9	47.96	8.47	234.8	32.1	13.38
111	2008	277	1315	65.08	47.26	7.92	237.3	33.26	13.38
111	2008	277	1330	64.4	46.89	7.93	238.3	33.47	13.39