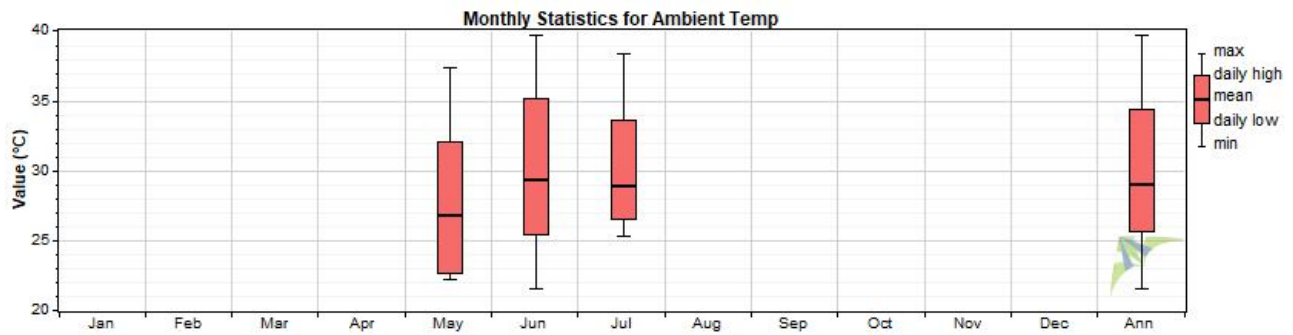


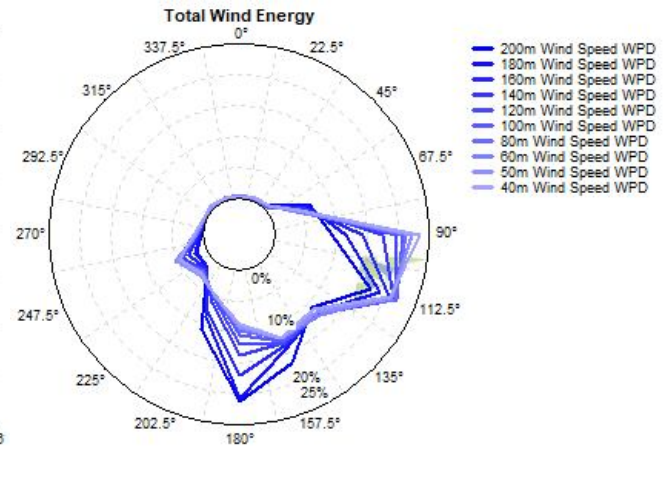
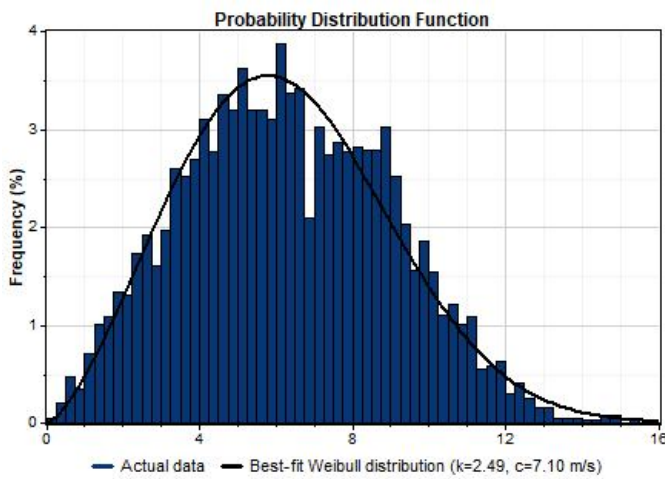
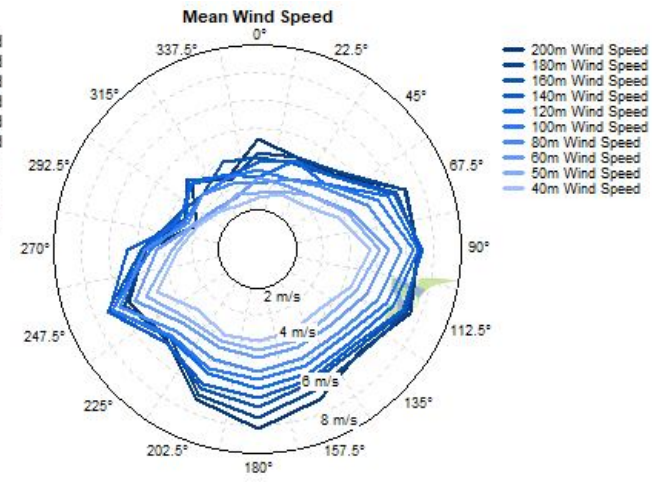
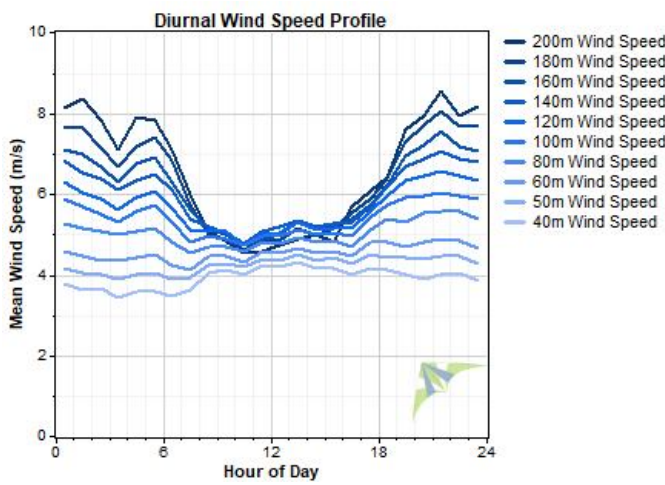
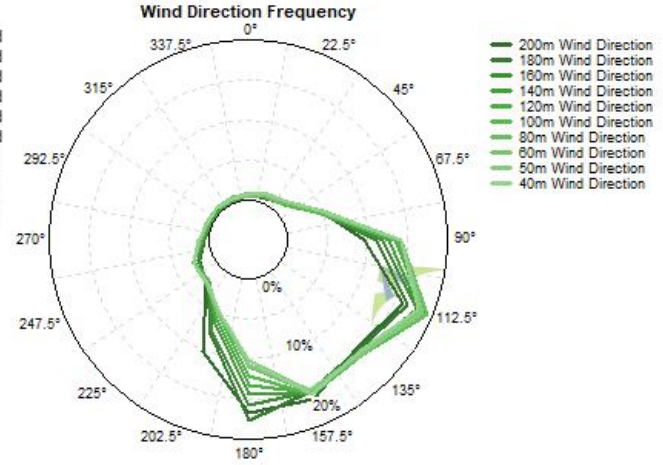
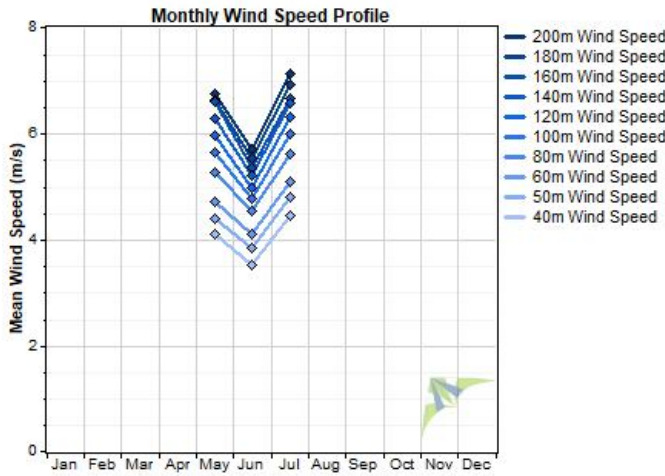
Data Set Properties

Report Created: 5/9/2018 10:10 using Windographer 3.3.10
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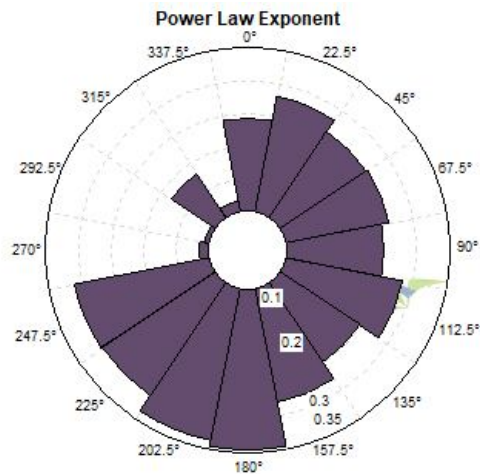
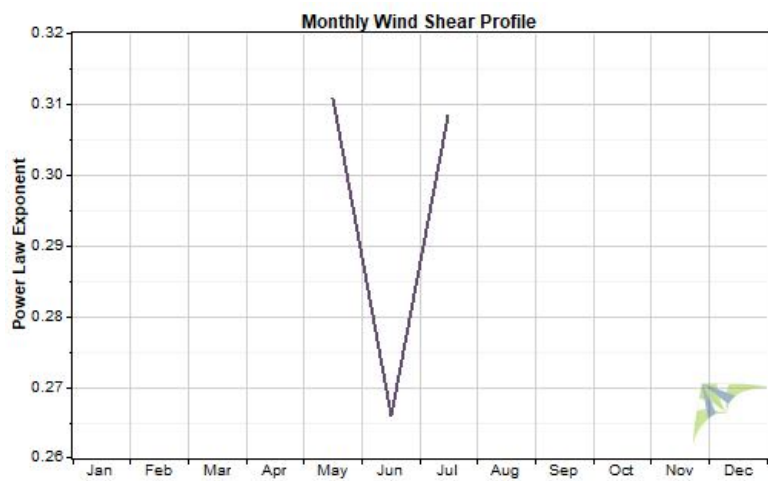
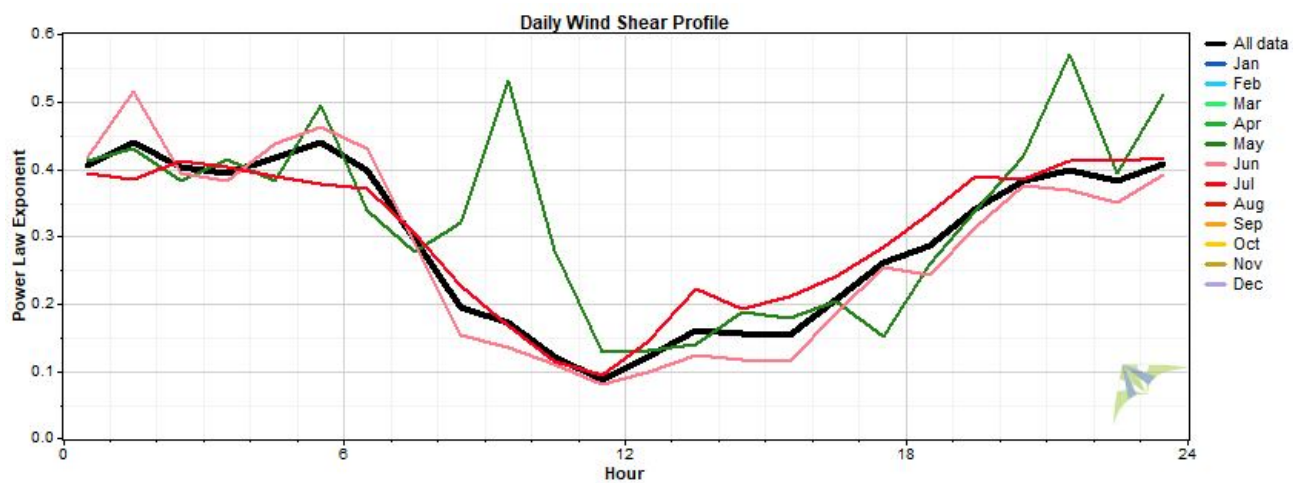
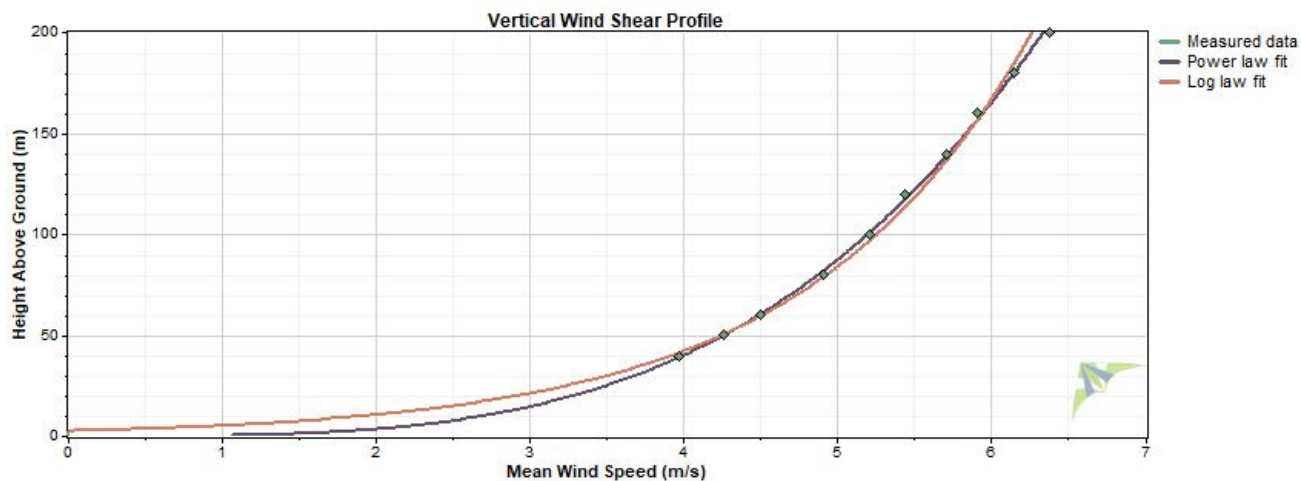
Variable	Value
Latitude	N 24° 10' 13.224"
Longitude	E 88° 54' 31.680"
Elevation	16 m
Start date	5/28/2014 11:10
End date	7/22/2014 10:20
Duration	55 days
Length of time step	10 minutes
Calm threshold	1 m/s
Mean temperature	29.0 °C
Mean pressure	998.1 mbar
Mean air density	1.151 kg/m ³
Power density at 50m	72 W/m ²
Wind power class	1
Power law exponent	0.287
Surface roughness	2.73 m
Roughness class	4.75



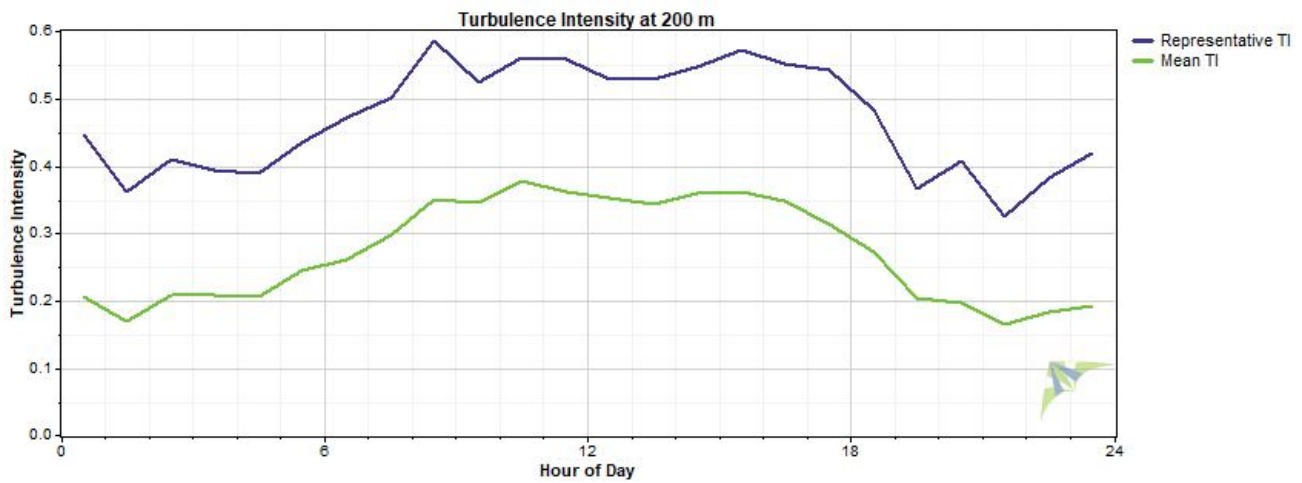
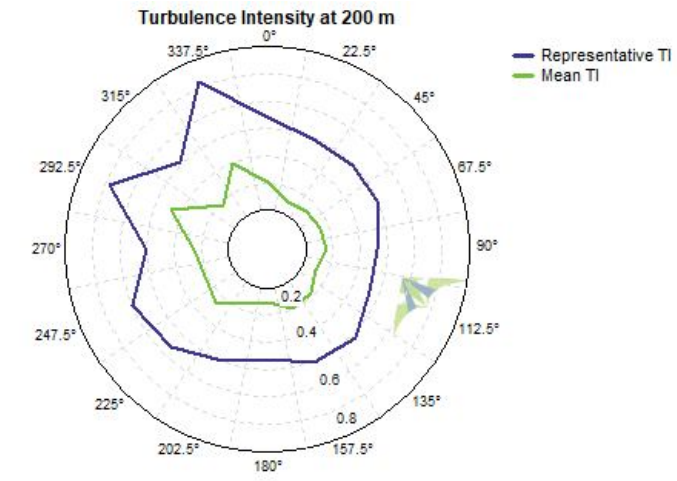
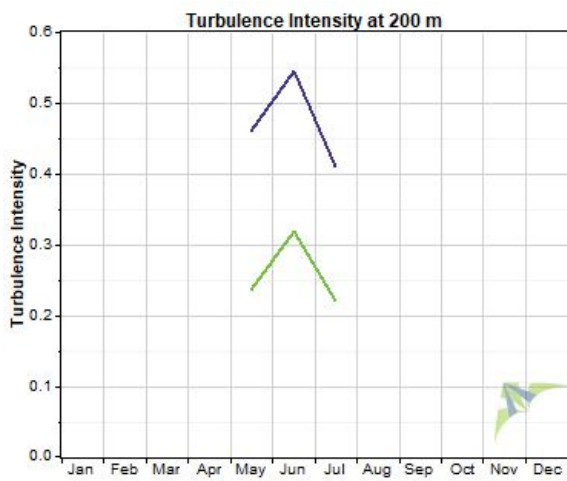
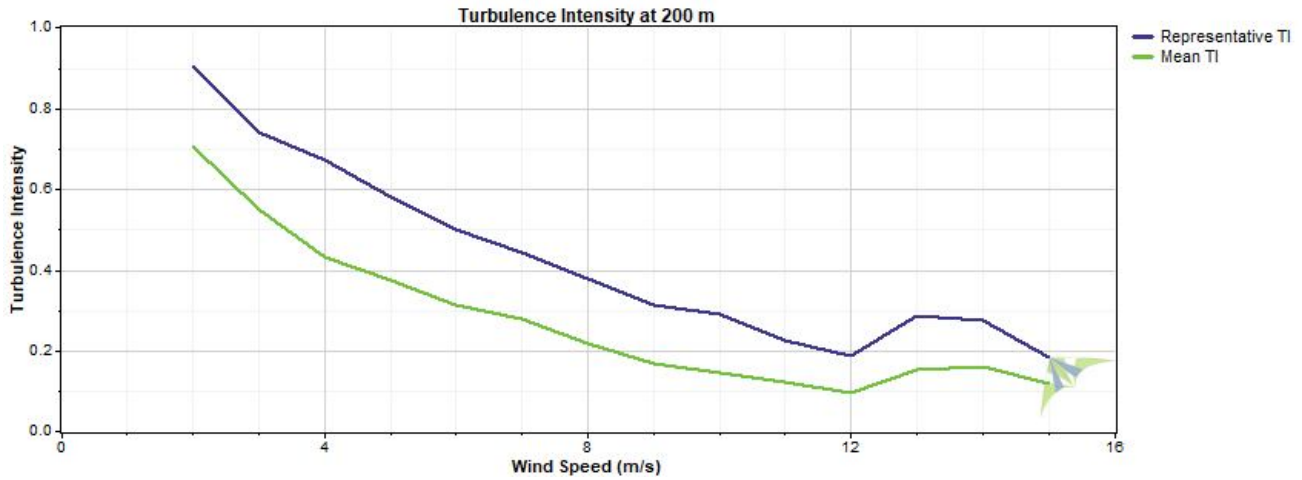
Wind Speed and Direction



Wind Shear



Turbulence Intensity



Data Column Properties

#	Label	Units	Height	Possible Data Points	Valid Data Points	Recovery Rate (%)	Mean	Min	Max	Std. Dev
1	40m Wind Direction	°	40 m	7,915	7,761	98.05	132.8	0.3	359.7	60.8
2	40m Wind Speed	m/s	40 m	7,915	7,761	98.05	3.927	0.090	13.960	1.713
3	40m Wind Vert	m/s	40 m	7,915	7,761	98.05	-0.380	-8.870	0.500	1.283
4	Quality (Station Height 40m)	%		7,915	7,770	98.17	97.9	90.0	100.0	1.4
5	50m Wind Direction	°	50 m	7,915	7,672	96.93	133.1	0.0	360.0	60.6
6	50m Wind Speed	m/s	50 m	7,915	7,672	96.93	4.252	0.060	14.500	1.809
7	50m Wind Vert	m/s	50 m	7,915	7,672	96.93	-0.386	-8.840	0.500	1.279
8	Quality (Station Height 50m)	%		7,915	7,694	97.21	98.0	90.0	100.0	1.4
9	60m Wind Direction	°	60 m	7,915	7,534	95.19	133.5	1.4	359.4	59.9
10	60m Wind Speed	m/s	60 m	7,915	7,534	95.19	4.544	0.160	15.970	1.895
11	60m Wind Vert	m/s	60 m	7,915	7,534	95.19	-0.398	-8.920	0.500	1.285
12	Quality (Station Height 60m)	%		7,915	7,573	95.68	97.9	90.0	100.0	1.6
13	80m Wind Direction	°	80 m	7,915	7,283	92.02	134.2	0.2	359.7	59.3
14	80m Wind Speed	m/s	80 m	7,915	7,283	92.02	5.022	0.120	15.350	2.077
15	80m Wind Vert	m/s	80 m	7,915	7,283	92.02	-0.418	-8.970	0.500	1.261
16	Quality (Station Height 80m)	%		7,915	7,337	92.70	97.5	90.0	100.0	1.9
17	100m Wind Direction	°	100 m	7,915	6,946	87.76	135.1	0.0	359.6	57.7
18	100m Wind Speed	m/s	100 m	7,915	6,946	87.76	5.351	0.150	16.160	2.208
19	100m Wind Vert	m/s	100 m	7,915	6,946	87.76	-0.396	-9.060	0.500	1.141
20	Quality (Station Height 100m)	%		7,915	7,016	88.64	97.1	90.0	100.0	2.1
21	120m Wind Direction	°	120 m	7,915	6,579	83.12	136.2	0.3	359.6	56.0
22	120m Wind Speed	m/s	120 m	7,915	6,579	83.12	5.608	0.150	17.650	2.311
23	120m Wind Vert	m/s	120 m	7,915	6,579	83.12	-0.355	-9.190	0.500	0.973
24	Quality (Station Height 120m)	%		7,915	6,658	84.12	96.6	90.0	100.0	2.4
25	140m Wind Direction	°	140 m	7,915	6,059	76.55	138.1	0.1	359.7	55.1
26	140m Wind Speed	m/s	140 m	7,915	6,059	76.55	5.858	0.140	15.680	2.398
27	140m Wind Vert	m/s	140 m	7,915	6,059	76.55	-0.304	-9.030	0.490	0.774
28	Quality (Station Height 140m)	%		7,915	6,146	77.65	96.1	90.0	100.0	2.5
29	160m Wind Direction	°	160 m	7,915	5,455	68.92	140.5	1.6	359.2	54.4
30	160m Wind Speed	m/s	160 m	7,915	5,455	68.92	5.973	0.100	15.310	2.457
31	160m Wind Vert	m/s	160 m	7,915	5,455	68.92	-0.279	-7.770	0.500	0.627
32	Quality (Station Height 160m)	%		7,915	5,543	70.03	95.6	90.0	100.0	2.7
33	180m Wind Direction	°	180 m	7,915	4,712	59.53	143.2	0.5	359.9	54.2
34	180m Wind Speed	m/s	180 m	7,915	4,712	59.53	6.150	0.110	15.890	2.563
35	180m Wind Vert	m/s	180 m	7,915	4,712	59.53	-0.270	-8.010	0.490	0.527
36	Quality (Station Height 180m)	%		7,915	4,806	60.72	95.2	90.0	100.0	2.7
37	200m Wind Direction	°	200 m	7,915	3,972	50.18	146.5	0.2	359.6	54.9
38	200m Wind Speed	m/s	200 m	7,915	3,972	50.18	6.306	0.060	15.350	2.712
39	200m Wind Vert	m/s	200 m	7,915	3,972	50.18	-0.281	-7.680	0.500	0.461
40	Quality (Station Height 200m)	%		7,915	4,077	51.51	94.8	90.0	100.0	2.7
41	40m Wind Turbulence	m/s	40 m	7,915	4,450	56.22	0.17	0.06	1.33	0.12
42	50m Wind Turbulence	m/s	50 m	7,915	4,997	63.13	0.16	0.05	1.38	0.12
43	60m Wind Turbulence	m/s	60 m	7,915	5,330	67.34	0.16	0.04	1.36	0.12
44	80m Wind Turbulence	m/s	80 m	7,915	5,546	70.07	0.18	0.04	1.20	0.13
45	100m Wind Turbulence	m/s	100 m	7,915	5,441	68.74	0.19	0.04	1.31	0.14
46	120m Wind Turbulence	m/s	120 m	7,915	5,264	66.51	0.21	0.03	1.29	0.15
47	140m Wind Turbulence	m/s	140 m	7,915	4,921	62.17	0.23	0.03	1.20	0.16
48	160m Wind Turbulence	m/s	160 m	7,915	4,382	55.36	0.24	0.04	1.06	0.16
49	180m Wind Turbulence	m/s	180 m	7,915	3,838	48.49	0.26	0.03	1.09	0.17
50	200m Wind Turbulence	m/s	200 m	7,915	3,197	40.39	0.27	0.03	1.22	0.17
51	Turbu. Quality (Station Height 40m)	%		7,915	4,452	56.25	97.9	90.0	100.0	2.2
52	Turbu. Quality (Station Height 50m)	%		7,915	5,005	63.23	97.9	90.0	100.0	2.1

#	Label	Units	Height	Possible Data Points	Valid Data Points	Recovery Rate (%)	Mean	Min	Max	Std. Dev
53	Turbu. Quality (Station Height 60m)	%		7,915	5,347	67.56	97.8	90.0	100.0	2.1
54	Turbu. Quality (Station Height 80m)	%		7,915	5,566	70.32	97.5	90.0	100.0	2.1
55	Turbu. Quality (Station Height 100m)	%		7,915	5,465	69.05	97.1	90.0	100.0	2.2
56	Turbu. Quality (Station Height 120m)	%		7,915	5,289	66.82	96.6	90.0	100.0	2.4
57	Turbu. Quality (Station Height 140m)	%		7,915	4,960	62.67	96.1	90.0	100.0	2.6
58	Turbu. Quality (Station Height 160m)	%		7,915	4,422	55.87	95.6	90.0	100.0	2.7
59	Turbu. Quality (Station Height 180m)	%		7,915	3,879	49.01	95.2	90.0	100.0	2.8
60	Turbu. Quality (Station Height 200m)	%		7,915	3,251	41.07	94.8	90.0	100.0	2.7
61	Ambient Temp	°C	2 m	7,915	7,911	99.95	29.0	21.6	39.7	3.3
62	Barometric Pressure	mbar	2 m	7,915	7,911	99.95	998.1	990.4	1,006.3	2.8
63	TiltX	°		7,915	7,911	99.95	-0.1671	-0.4000	0.2000	0.0678
64	Azimuth	°		7,915	7,911	99.95	0	0	0	0
65	TiltY	°		7,915	7,911	99.95	0.3343	0.2000	0.5000	0.0501
66	Humidity	%		7,915	7,911	99.95	79.0	38.0	94.0	9.0
67	Noise Level-A	dB		7,915	7,911	99.95	13.11	5.00	18.20	2.61
68	Noise Level-B	dB		7,915	7,911	99.95	13.12	5.00	17.70	2.61
69	Noise Level-C	dB		7,915	7,911	99.95	13.13	5.00	18.20	2.62
70	Speaker Power	W		7,915	7,911	99.95	5.27	0.10	23.80	3.22
71	Modem Power	W		7,915	7,911	99.95	0.008	0.000	0.500	0.031
72	CPU Power	W		7,915	7,911	99.95	2.350	2.100	2.900	0.101
73	PWM Power	W		7,915	7,911	99.95	1.221	0.900	2.400	0.225
74	Core Power	W		7,915	7,911	99.95	2.815	2.600	3.300	0.088
75	Solar Power	W		7,915	7,911	99.95	0	0	0	0
76	Internal Temp	°C	2 m	7,915	7,911	99.95	32.6	23.7	53.2	6.1
77	Mirror Temp	°C	2 m	7,915	7,911	99.95	32.7	22.3	68.2	8.3
78	Heater Temp	°C	2 m	7,915	7,911	99.95	0.0	0.0	0.0	0.0
79	CPU Temp	°C	2 m	7,915	7,911	99.95	0.0	0.0	0.0	0.0
80	VibrationY	g		7,915	7,911	99.95	0	0	0	0
81	VibrationX	g		7,915	7,911	99.95	0	0	0	0
82	Battery	Volts		7,915	7,911	99.95	12.97	12.40	14.40	0.53
83	Beep Volume	dB		7,915	7,911	99.95	90.1	0.0	100.0	29.9
84	Air Density	kg/m ³		7,915	7,915	100.00	1.151	1.106	1.222	0.013
85	200m Wind Speed WPD	W/m ²		7,915	3,972	50.18	227	0	2,097	253
86	180m Wind Speed WPD	W/m ²		7,915	4,712	59.53	205	0	2,326	222
87	160m Wind Speed WPD	W/m ²		7,915	5,455	68.92	186	0	2,081	205
88	140m Wind Speed WPD	W/m ²		7,915	6,059	76.55	176	0	2,222	202
89	120m Wind Speed WPD	W/m ²		7,915	6,579	83.12	155	0	3,241	185
90	100m Wind Speed WPD	W/m ²		7,915	6,946	87.76	135	0	2,474	165
91	80m Wind Speed WPD	W/m ²		7,915	7,283	92.02	112	0	2,120	143
92	60m Wind Speed WPD	W/m ²		7,915	7,534	95.19	84	0	2,388	112
93	50m Wind Speed WPD	W/m ²		7,915	7,672	96.93	70	0	1,787	96
94	40m Wind Speed WPD	W/m ²		7,915	7,761	98.05	57	0	1,595	82