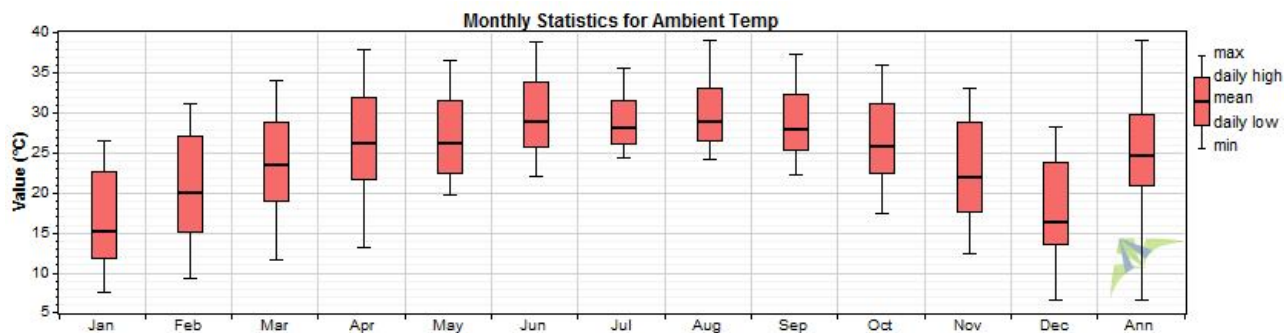


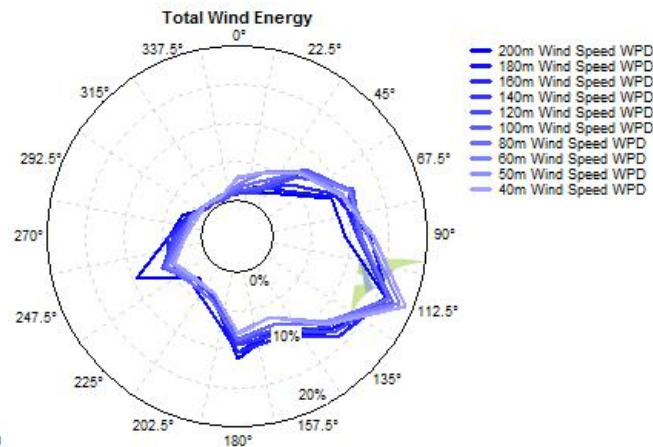
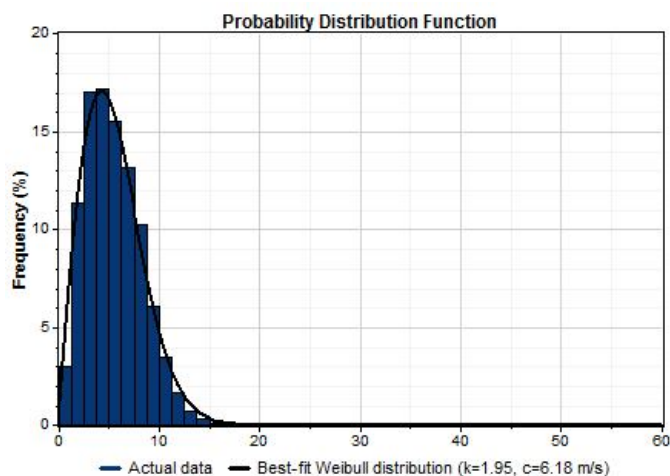
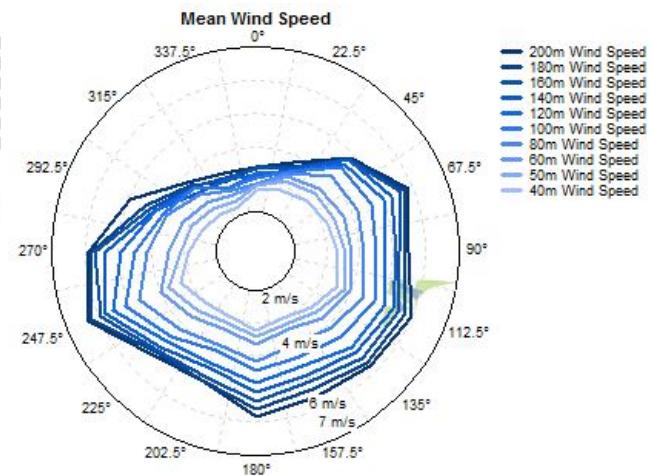
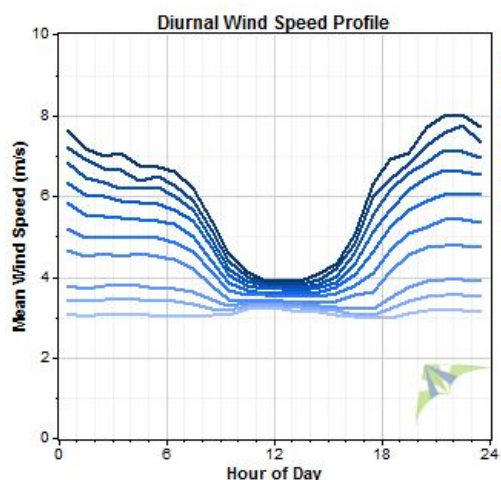
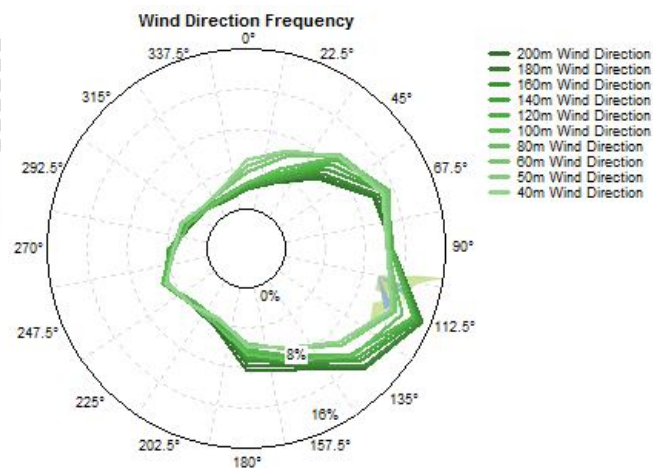
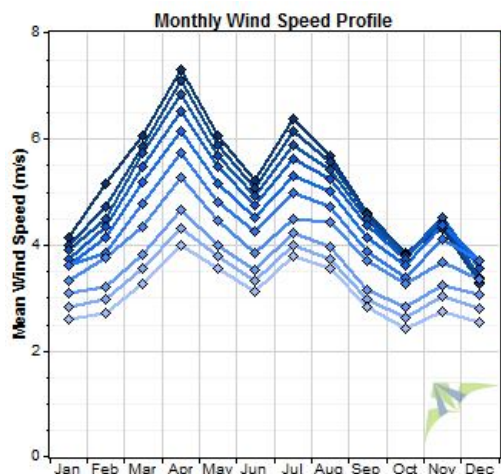
Data Set Properties

Report Created: 7/14/2017 16:14 using Windographer 3.3.10
 Filter Settings: <Unflagged data>

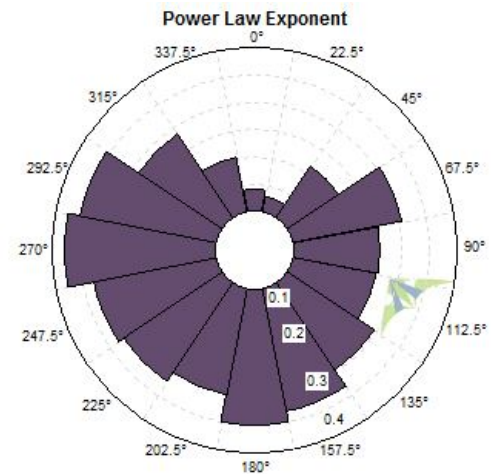
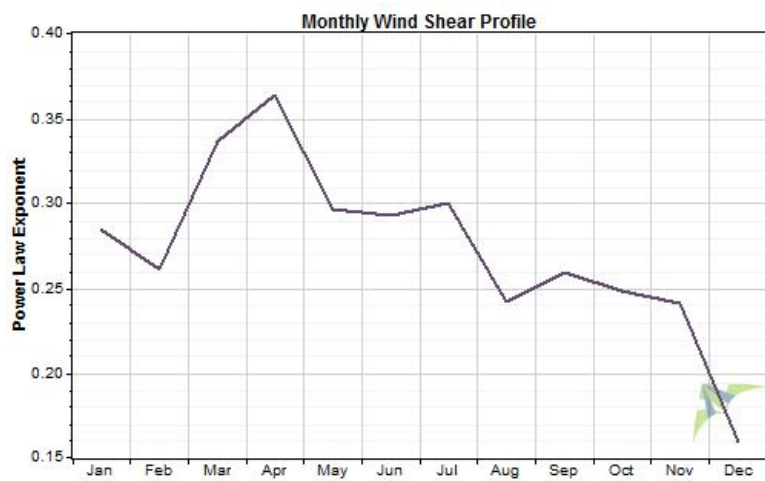
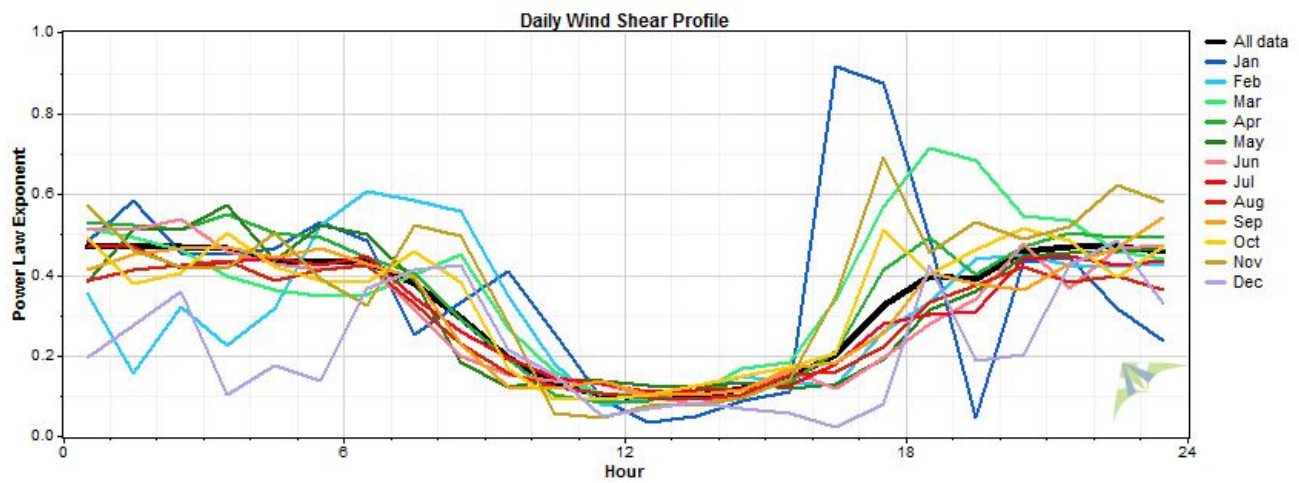
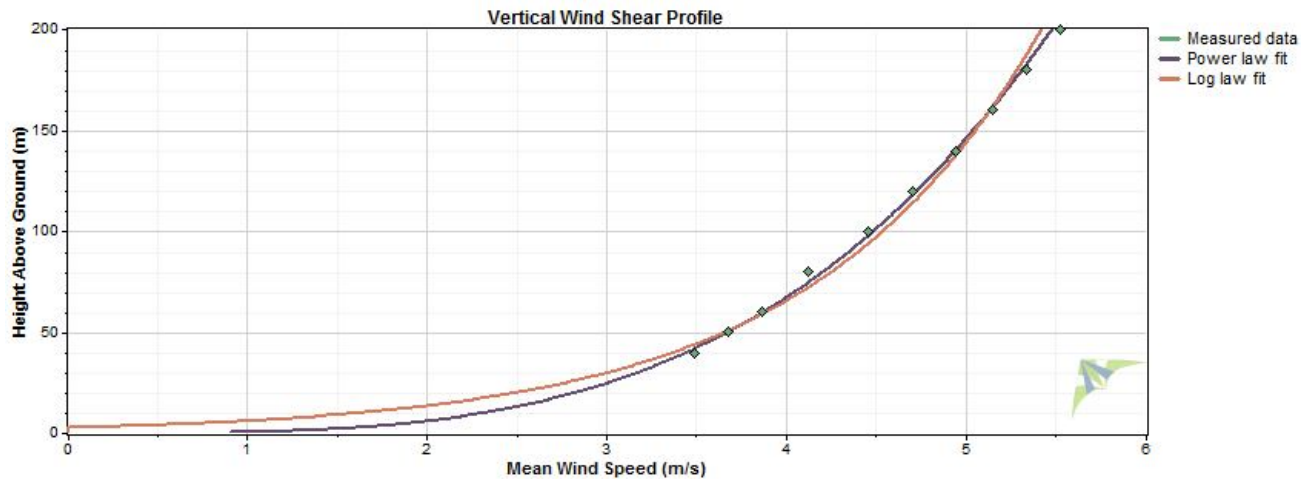
Variable	Value
Latitude	N 25° 36' 22.968"
Longitude	E 89° 4' 7.752"
Elevation	32 m
Start date	8/4/2015 19:10
End date	4/19/2017 06:10
Duration	20 months
Length of time step	10 minutes
Calm threshold	0 m/s
Mean temperature	24.7 °C
Mean pressure	1,590 mbar
Mean air density	1.688 kg/m ³
Power density at 50m	58 W/m ²
Wind power class	1
Power law exponent	0.289
Surface roughness	2.87 m
Roughness class	4.79



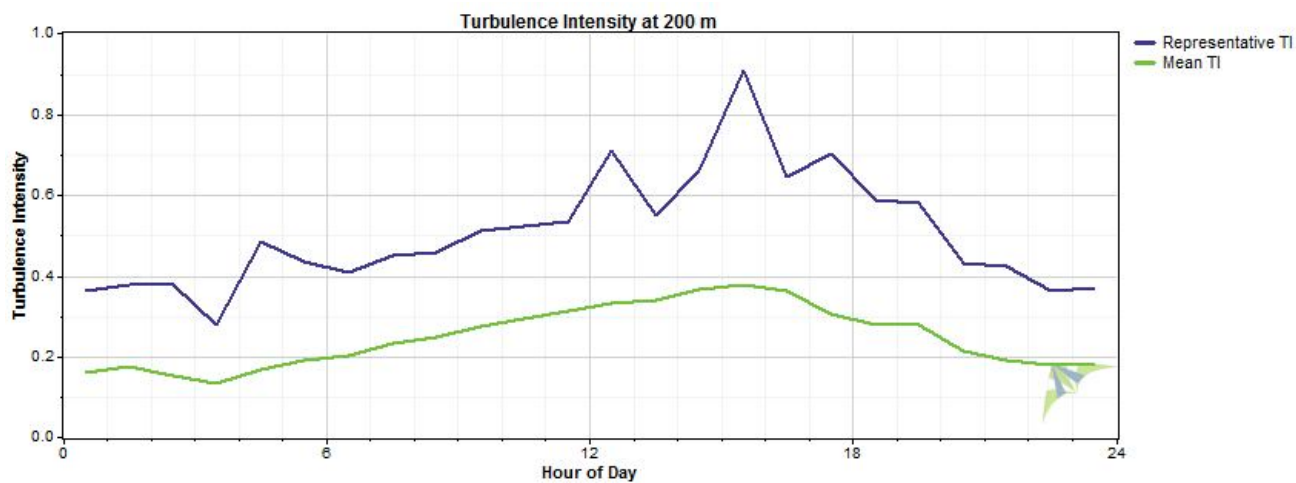
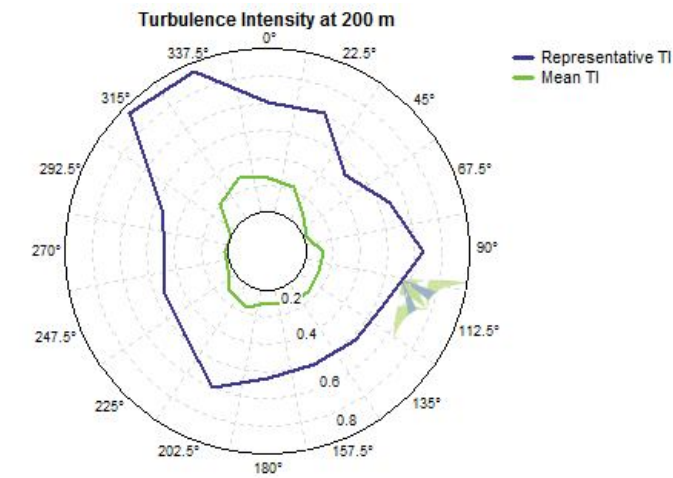
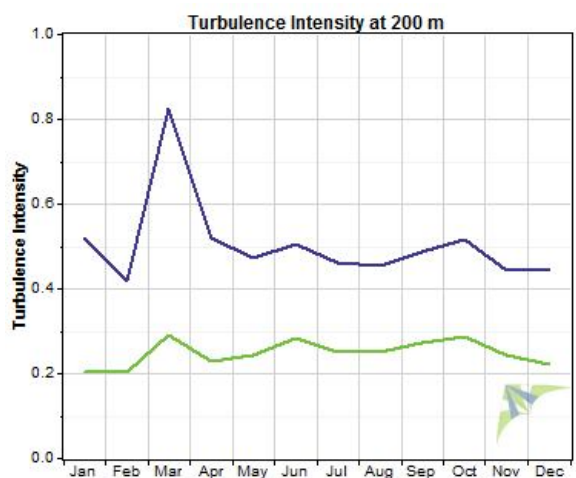
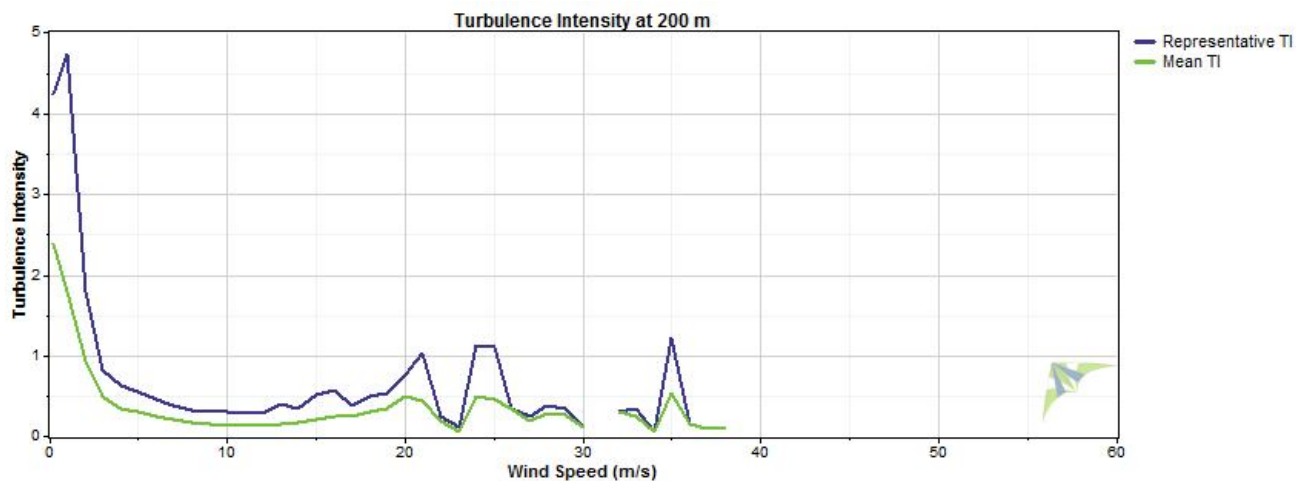
Wind Speed and Direction



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	89,778	64,338	71.66	101.4	0.0	360.0	92.0
2	40m Wind Speed	m/s	40 m	89,778	64,338	71.66	3.09	0.01	15.19	1.41
3	40m Wind Vert	m/s	40 m	89,778	64,338	71.66	-0.20	-9.36	0.50	0.94
4	Quality (Station Height 40m)	%		89,778	64,469	71.81	97.3	31.0	100.0	1.6
5	50m Wind Direction	°	50 m	89,778	63,385	70.60	101.5	0.0	360.0	90.9
6	50m Wind Speed	m/s	50 m	89,778	63,385	70.60	3.33	0.02	15.42	1.52
7	50m Wind Vert	m/s	50 m	89,778	63,385	70.60	-0.20	-9.33	0.50	0.94
8	Quality (Station Height 50m)	%		89,778	63,632	70.88	97.3	22.0	100.0	1.9
9	60m Wind Direction	°	60 m	89,778	61,846	68.89	102.9	0.1	360.0	89.6
10	60m Wind Speed	m/s	60 m	89,778	61,846	68.89	3.56	0.02	16.39	1.63
11	60m Wind Vert	m/s	60 m	89,778	61,846	68.89	-0.21	-9.32	0.50	0.94
12	Quality (Station Height 60m)	%		89,778	62,210	69.29	97.3	19.0	100.0	2.1
13	80m Wind Direction	°	80 m	89,778	53,356	59.43	114.5	0.0	360.0	82.6
14	80m Wind Speed	m/s	80 m	89,778	53,356	59.43	4.04	0.02	19.70	1.87
15	80m Wind Vert	m/s	80 m	89,778	53,356	59.43	-0.25	-9.36	0.50	0.94
16	Quality (Station Height 80m)	%		89,778	53,927	60.07	96.7	0.0	100.0	4.4
17	100m Wind Direction	°	100 m	89,778	52,660	58.66	113.0	0.0	360.0	83.9
18	100m Wind Speed	m/s	100 m	89,778	52,660	58.66	4.38	0.01	30.41	2.07
19	100m Wind Vert	m/s	100 m	89,778	52,660	58.66	-0.23	-9.33	0.50	0.89
20	Quality (Station Height 100m)	%		89,778	53,476	59.56	96.8	0.0	100.0	4.1
21	120m Wind Direction	°	120 m	89,778	47,792	53.23	117.2	0.0	360.0	81.9
22	120m Wind Speed	m/s	120 m	89,778	47,792	53.23	4.70	0.03	27.96	2.25
23	120m Wind Vert	m/s	120 m	89,778	47,792	53.23	-0.23	-9.33	0.50	0.84
24	Quality (Station Height 120m)	%		89,778	48,812	54.37	96.4	0.0	100.0	5.3
25	140m Wind Direction	°	140 m	89,778	43,048	47.95	120.4	0.0	360.0	80.3
26	140m Wind Speed	m/s	140 m	89,778	43,048	47.95	4.95	0.05	45.08	2.46
27	140m Wind Vert	m/s	140 m	89,778	43,048	47.95	-0.22	-9.35	0.50	0.76
28	Quality (Station Height 140m)	%		89,778	44,241	49.28	96.0	0.0	100.0	6.3
29	160m Wind Direction	°	160 m	89,778	38,563	42.95	123.1	0.0	360.0	79.5
30	160m Wind Speed	m/s	160 m	89,778	38,563	42.95	5.15	0.04	40.06	2.64
31	160m Wind Vert	m/s	160 m	89,778	38,563	42.95	-0.21	-9.33	0.50	0.67
32	Quality (Station Height 160m)	%		89,778	39,843	44.38	95.5	0.0	100.0	7.3
33	180m Wind Direction	°	180 m	89,778	34,105	37.99	125.5	0.0	360.0	78.2
34	180m Wind Speed	m/s	180 m	89,778	34,105	37.99	5.32	0.04	54.53	2.79
35	180m Wind Vert	m/s	180 m	89,778	34,105	37.99	-0.20	-9.31	0.50	0.58
36	Quality (Station Height 180m)	%		89,778	35,492	39.53	94.9	0.0	100.0	8.2
37	200m Wind Direction	°	200 m	89,778	29,553	32.92	127.4	0.0	360.0	77.1
38	200m Wind Speed	m/s	200 m	89,778	29,553	32.92	5.48	0.04	56.06	2.94
39	200m Wind Vert	m/s	200 m	89,778	29,553	32.92	-0.21	-9.31	0.50	0.57
40	Quality (Station Height 200m)	%		89,778	31,023	34.56	94.1	0.0	100.0	9.5
41	40m Wind Turbulence	m/s	40 m	89,778	23,199	25.84	0.16	0.04	2.37	0.12
42	50m Wind Turbulence	m/s	50 m	89,778	28,017	31.21	0.16	0.03	7.90	0.14
43	60m Wind Turbulence	m/s	60 m	89,778	31,086	34.63	0.16	0.03	6.36	0.15
44	80m Wind Turbulence	m/s	80 m	89,778	31,554	35.15	0.17	0.03	9.57	0.17
45	100m Wind Turbulence	m/s	100 m	89,778	33,352	37.15	0.19	0.02	4.97	0.17
46	120m Wind Turbulence	m/s	120 m	89,778	32,050	35.70	0.20	0.03	34.48	0.26
47	140m Wind Turbulence	m/s	140 m	89,778	29,666	33.04	0.22	0.02	20.64	0.22
48	160m Wind Turbulence	m/s	160 m	89,778	26,856	29.91	0.23	0.00	4.07	0.19
49	180m Wind Turbulence	m/s	180 m	89,778	24,047	26.78	0.24	0.02	9.45	0.23
50	200m Wind Turbulence	m/s	200 m	89,778	21,030	23.42	0.25	0.00	10.00	0.22
51	Turbu. Quality (Station Height 40m)	%		89,778	23,214	25.86	96.0	7.0	100.0	7.5
52	Turbu. Quality (Station Height 50m)	%		89,778	28,045	31.24	96.5	3.0	100.0	6.6

#	Label	Units	Height	Possible Data Points	Valid Data Points	Recovery Rate (%)	Mean	Min	Max	Std. Dev
53	Turbu. Quality (Station Height 60m)	%		89,778	31,143	34.69	96.8	2.0	100.0	6.0
54	Turbu. Quality (Station Height 80m)	%		89,778	31,678	35.28	96.1	0.0	100.0	7.5
55	Turbu. Quality (Station Height 100m)	%		89,778	33,570	37.39	96.5	0.0	100.0	6.5
56	Turbu. Quality (Station Height 120m)	%		89,778	32,374	36.06	96.0	0.0	100.0	7.4
57	Turbu. Quality (Station Height 140m)	%		89,778	30,108	33.54	95.5	0.0	100.0	8.4
58	Turbu. Quality (Station Height 160m)	%		89,778	27,351	30.47	94.9	0.0	100.0	9.5
59	Turbu. Quality (Station Height 180m)	%		89,778	24,611	27.41	94.2	0.0	100.0	10.5
60	Turbu. Quality (Station Height 200m)	%		89,778	21,647	24.11	93.4	0.0	100.0	11.9
61	Ambient Temp	°C	2 m	89,778	66,250	73.79	24.7	6.6	39.0	5.7
62	Barometric Pressure	mbar	2 m	89,778	66,252	73.80	1,590.1	341.7	6,397.9	1,152.2
63	TiltX	°		89,778	66,252	73.80	-0.6503	-0.9000	0.0000	0.0733
64	Azimuth	°		89,778	66,252	73.80	0	0	0	0
65	TiltY	°		89,778	66,252	73.80	0.638	0.500	1.000	0.057
66	Humidity	%		89,778	66,252	73.80	79.4	30.0	97.0	10.8
67	Noise Level-A	dB		89,778	66,252	73.80	12.44	5.00	18.40	2.68
68	Noise Level-B	dB		89,778	66,252	73.80	12.48	5.00	18.20	2.69
69	Noise Level-C	dB		89,778	66,252	73.80	12.44	5.00	18.50	2.69
70	Solar Power	W		89,778	66,252	73.80	0	0	0	0
71	Core Power	W		89,778	66,252	73.80	2.786	2.400	3.400	0.083
72	CPU Power	W		89,778	66,252	73.80	2.379	2.000	3.200	0.169
73	Modem Power	W		89,778	66,252	73.80	0.064	0.000	0.600	0.122
74	Speaker Power	W		89,778	66,252	73.80	4.57	0.10	25.20	3.01
75	PWM Power	W		89,778	66,252	73.80	1.209	0.900	2.500	0.201
76	CPU Temp	°C	2 m	89,778	66,252	73.80	0.0	0.0	0.0	0.0
77	Internal Temp	°C	2 m	89,778	66,252	73.80	28.6	7.3	53.4	8.2
78	Mirror Temp	°C	2 m	89,778	66,252	73.80	27.8	5.5	68.6	9.2
79	Heater Temp	°C	2 m	89,778	66,252	73.80	0.0	0.0	0.0	0.0
80	VibrationX	g		89,778	66,252	73.80	0	0	0	0
81	VibrationY	g		89,778	66,252	73.80	0	0	0	0
82	Battery	Volts		89,778	66,252	73.80	12.84	11.70	14.90	0.68
83	Beep Volume	dB		89,778	66,252	73.80	89.4	0.0	100.0	30.8
84	Status	Mask		89,778	0	0.00				
85	Air Density	kg/m ³		89,778	89,778	100.00	1.688	0.398	7.438	1.173
86	200m Wind Speed WPD	W/m ²		89,778	29,553	32.92	357	0	300,922	2,571
87	180m Wind Speed WPD	W/m ²		89,778	34,105	37.99	304	0	282,466	2,058
88	160m Wind Speed WPD	W/m ²		89,778	38,563	42.95	259	0	98,921	1,160
89	140m Wind Speed WPD	W/m ²		89,778	43,048	47.95	218	0	159,700	1,041
90	120m Wind Speed WPD	W/m ²		89,778	47,792	53.23	171	0	30,641	386
91	100m Wind Speed WPD	W/m ²		89,778	52,660	58.66	136	0	22,164	288
92	80m Wind Speed WPD	W/m ²		89,778	53,356	59.43	104	0	14,644	215
93	60m Wind Speed WPD	W/m ²		89,778	61,846	68.89	71	0	11,159	142
94	50m Wind Speed WPD	W/m ²		89,778	63,385	70.60	58	0	5,237	118
95	40m Wind Speed WPD	W/m ²		89,778	64,338	71.66	48	0	5,897	105