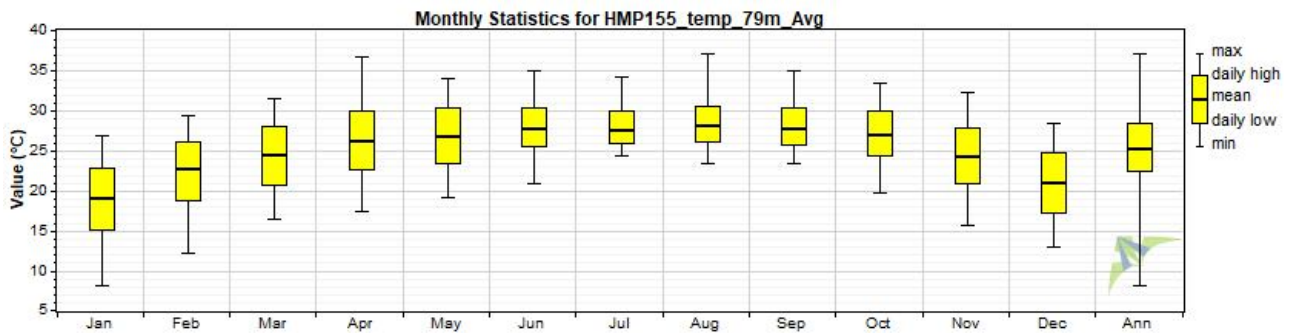


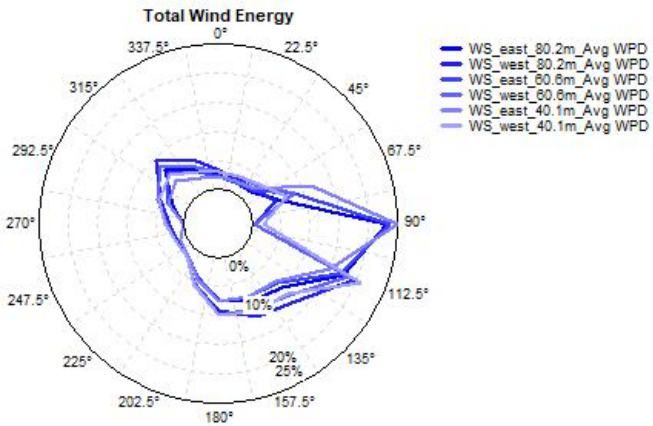
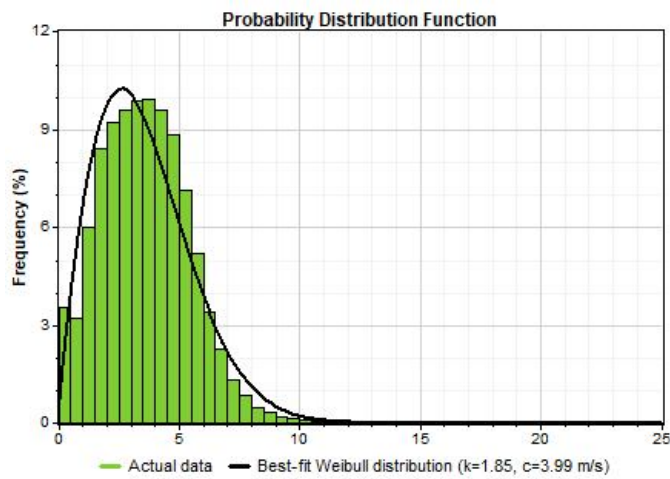
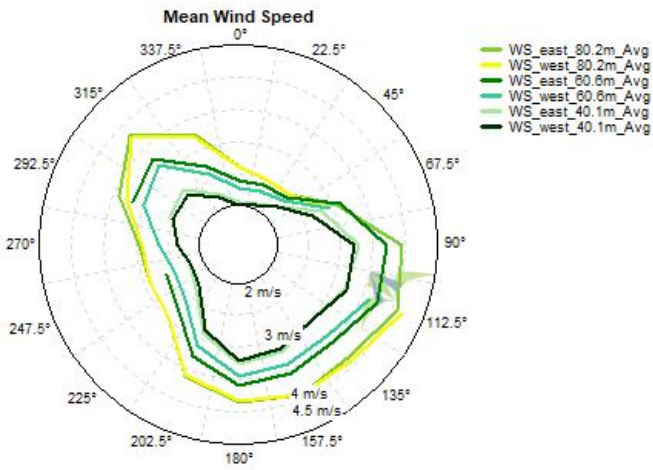
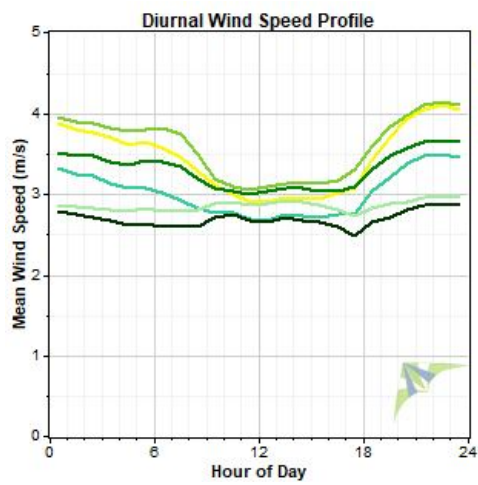
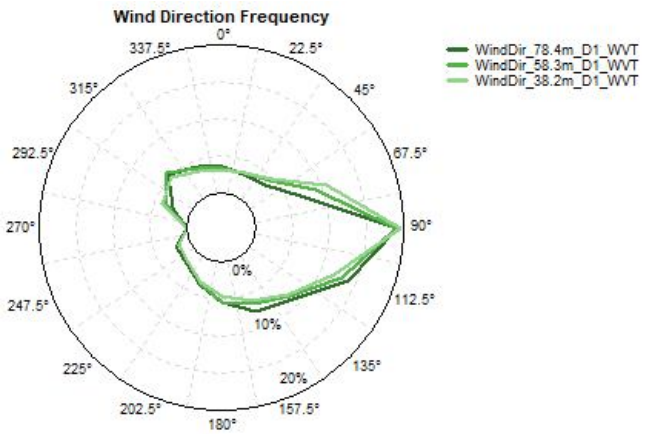
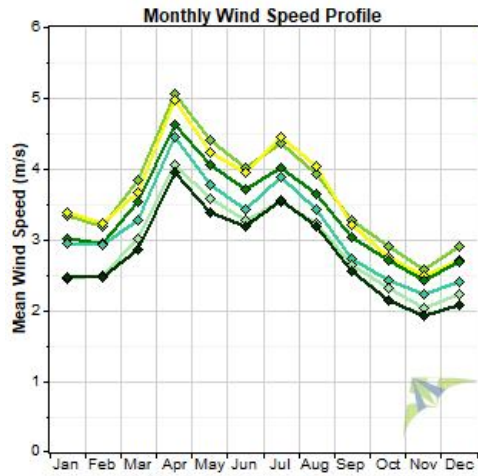
**Data Set Properties**

Report Created: 4/11/2018 10:21 using Windographer 3.3.10  
 Filter Settings: <Unflagged data>

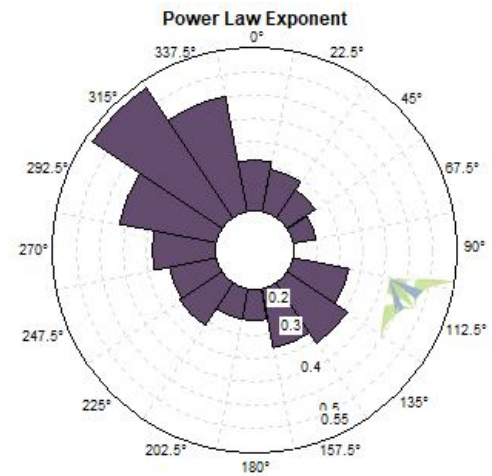
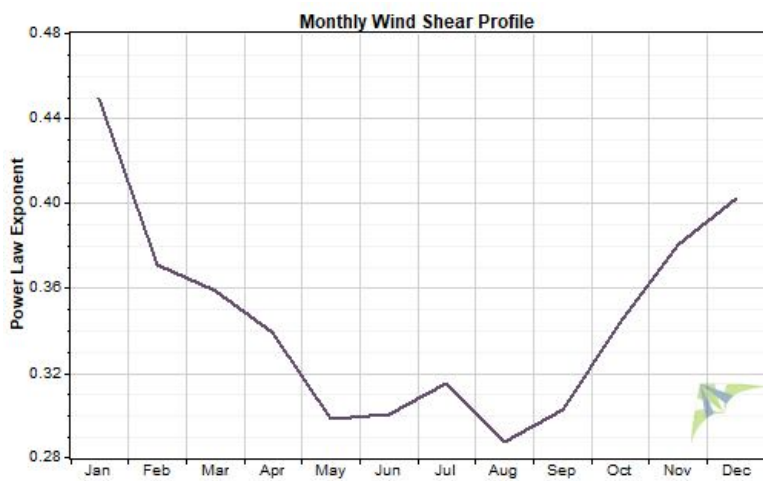
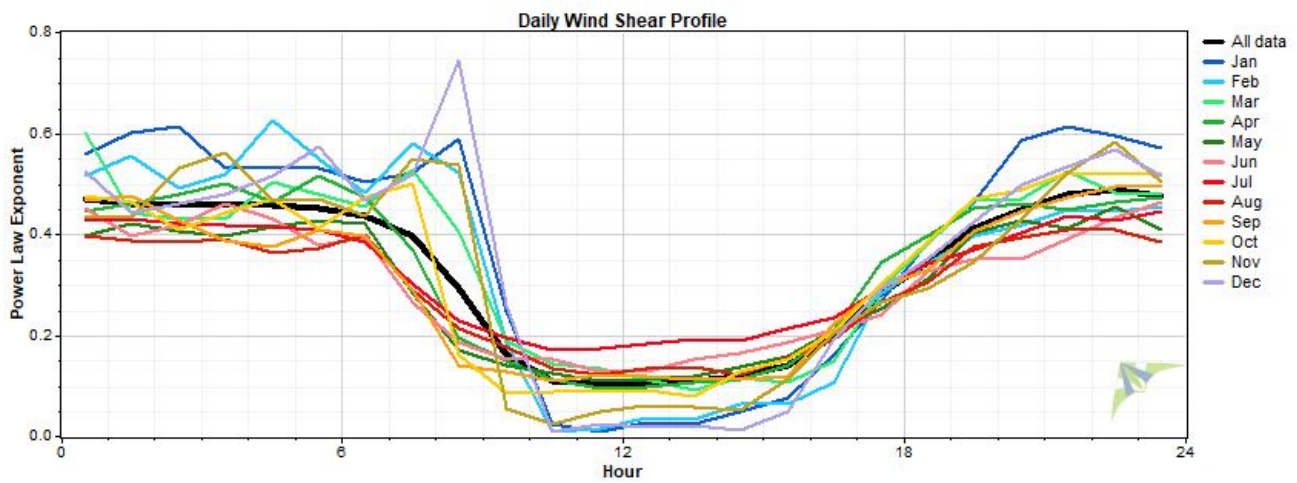
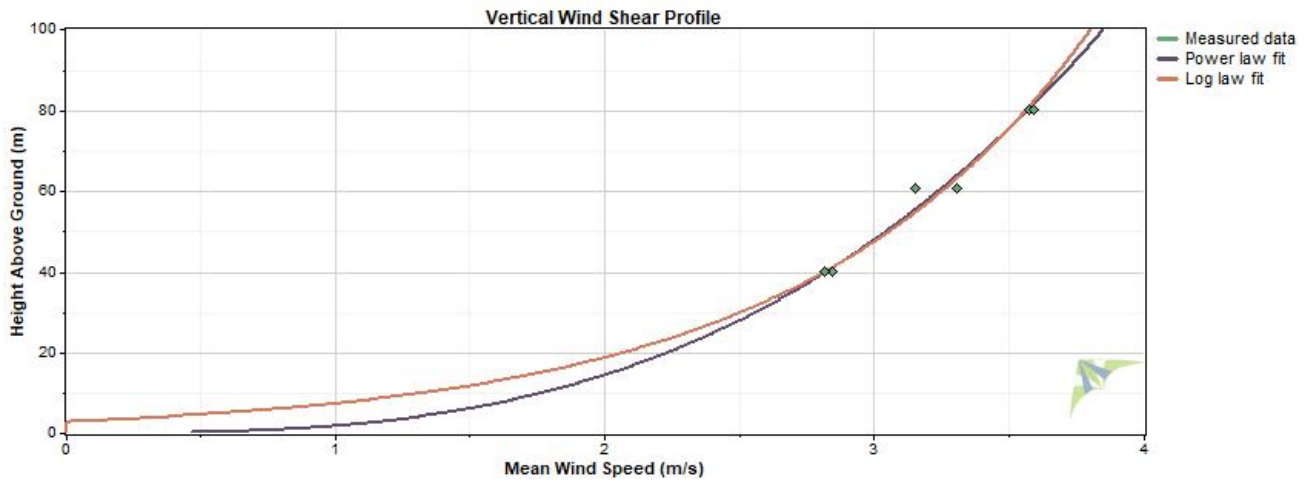
Variable	Value
Latitude	N 24.715460
Longitude	E 90.466800
Elevation	0 m
Start date	8/13/2015 14:50
End date	12/13/2017 00:10
Duration	28 months
Length of time step	10 minutes
Calm threshold	1 m/s
Mean temperature	25.4 °C
Mean pressure	999.6 mbar
Mean air density	1.168 kg/m <sup>3</sup>
Power density at 50m	33 W/m <sup>2</sup>
Wind power class	1
Power law exponent	0.34
Surface roughness	2.96 m
Roughness class	4.81



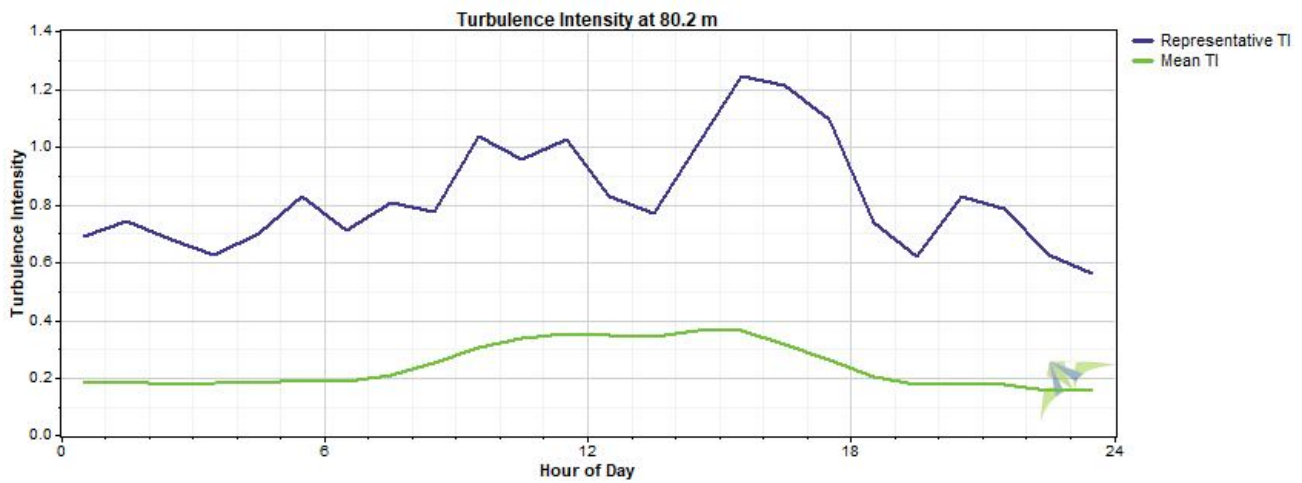
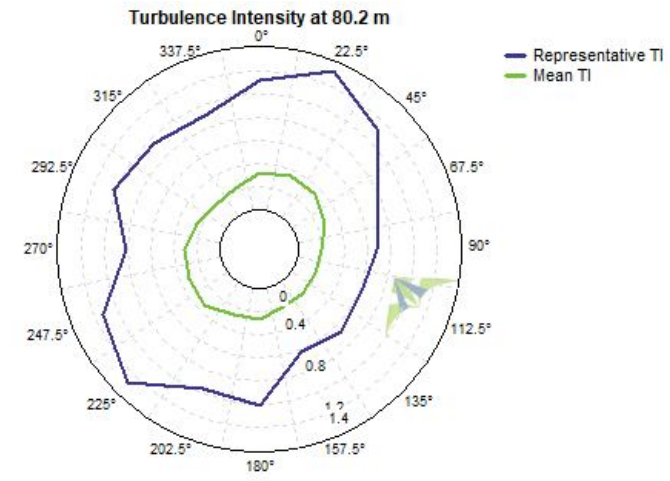
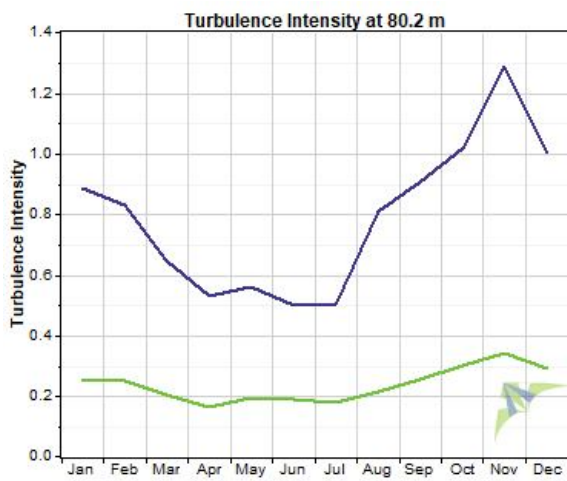
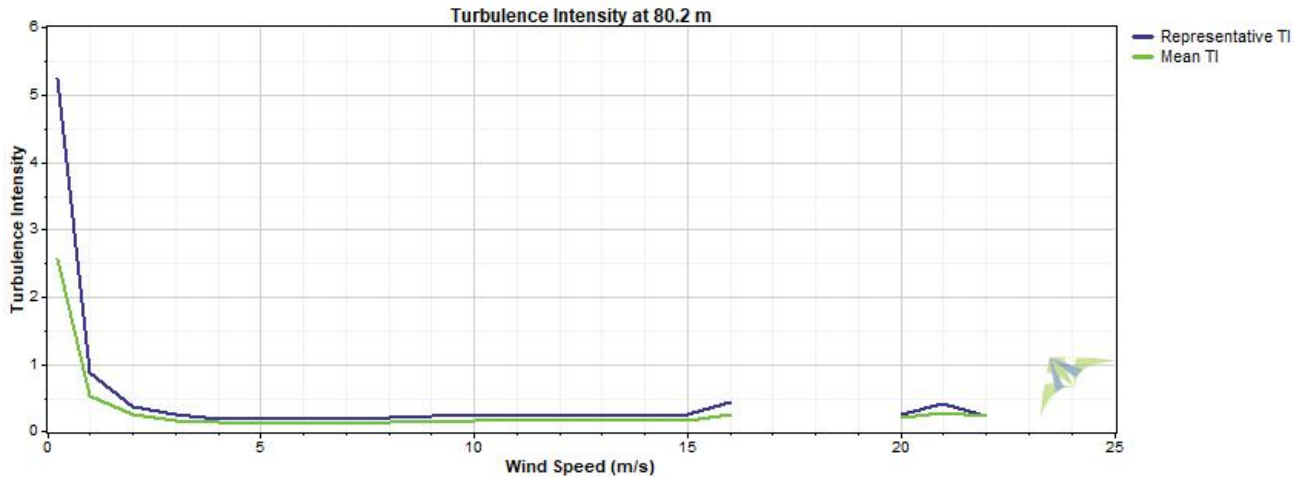
Wind Speed and Direction



Wind Shear



**Turbulence Intensity**



## Data Column Properties

#	Label	Units	Height	Possible Data Points	Valid Data Points	Recovery Rate (%)	Mean	Min	Max	Std. Dev
1	RECORD			122,744	119,620	97.45	44,699	0	104,116	31,551
2	WS_east_80.2m_Avg	m/s	80.2 m	122,744	112,865	91.95	3.591	0.000	22.420	1.879
3	WS_east_80.2m_Max	m/s	80.2 m	122,744	112,865	91.95	4.885	0.000	38.730	2.362
4	WS_east_80.2m_Min	m/s	80.2 m	122,744	112,865	91.95	2.302	0.000	13.320	1.574
5	WS_east_80.2m_Std	m/s	80.2 m	122,744	112,865	91.95	0.548	0.000	8.780	0.278
6	WS_west_80.2m_Avg	m/s	80.2 m	122,744	91,254	74.34	3.461	0.000	22.330	1.880
7	WS_west_80.2m_Max	m/s	80.2 m	122,744	91,254	74.34	4.722	0.000	40.300	2.367
8	WS_west_80.2m_Min	m/s	80.2 m	122,744	91,254	74.34	2.226	0.000	13.320	1.579
9	WS_west_80.2m_Std	m/s	80.2 m	122,744	91,254	74.34	0.535	0.000	8.560	0.279
10	WS_east_60.6m_Avg	m/s	60.6 m	122,744	114,523	93.30	3.305	0.000	20.940	1.652
11	WS_east_60.6m_Max	m/s	60.6 m	122,744	114,523	93.30	4.615	0.000	34.850	2.190
12	WS_east_60.6m_Min	m/s	60.6 m	122,744	114,523	93.30	2.020	0.000	11.780	1.328
13	WS_east_60.6m_Std	m/s	60.6 m	122,744	114,523	93.30	0.550	0.000	8.280	0.269
14	WS_west_60.6m_Avg	m/s	60.6 m	122,744	91,141	74.25	3.025	0.000	20.570	1.707
15	WS_west_60.6m_Max	m/s	60.6 m	122,744	91,141	74.25	4.331	0.000	33.990	2.215
16	WS_west_60.6m_Min	m/s	60.6 m	122,744	91,141	74.25	1.755	0.000	12.570	1.391
17	WS_west_60.6m_Std	m/s	60.6 m	122,744	91,141	74.25	0.554	0.000	8.170	0.288
18	WS_east_40.1m_Avg	m/s	40.1 m	122,744	113,520	92.49	2.855	0.000	18.950	1.457
19	WS_east_40.1m_Max	m/s	40.1 m	122,744	113,520	92.49	4.204	0.000	34.140	2.086
20	WS_east_40.1m_Min	m/s	40.1 m	122,744	113,520	92.49	1.570	0.000	9.470	1.080
21	WS_east_40.1m_Std	m/s	40.1 m	122,744	113,520	92.49	0.557	0.000	7.923	0.266
22	WS_west_40.1m_Avg	m/s	40.1 m	122,744	91,969	74.93	2.693	0.000	18.640	1.450
23	WS_west_40.1m_Max	m/s	40.1 m	122,744	91,969	74.93	4.003	0.000	34.790	2.070
24	WS_west_40.1m_Min	m/s	40.1 m	122,744	91,969	74.93	1.453	0.000	9.450	1.076
25	WS_west_40.1m_Std	m/s	40.1 m	122,744	91,969	74.93	0.548	0.000	7.666	0.274
26	WindDir_78.4m_D1_WVT	°	78.4 m	122,744	119,618	97.45	107.6	0.0	360.0	93.6
27	WindDir_78.4m_SD1_WVT	°	78.4 m	122,744	119,620	97.45	7.3	0.0	79.4	7.8
28	WindDir_58.3m_D1_WVT	°	58.3 m	122,744	119,618	97.45	102.6	0.0	360.0	94.7
29	WindDir_58.3m_SD1_WVT	°	58.3 m	122,744	119,620	97.45	8.4	0.0	79.8	8.3
30	WindDir_38.2m_D1_WVT	°	38.2 m	122,744	119,618	97.45	99.9	0.0	360.0	95.0
31	WindDir_38.2m_SD1_WVT	°	38.2 m	122,744	119,620	97.45	9.5	0.0	80.2	8.7
32	RTD_temp_C_78.3m_Avg	°C	78.3 m	122,744	119,599	97.44	25.4	7.8	37.0	3.7
33	RTD_temp_C_78.3m_Max	°C	78.3 m	122,744	119,599	97.44	25.7	7.9	37.1	3.7
34	RTD_temp_C_78.3m_Min	°C	78.3 m	122,744	119,599	97.44	25.1	7.7	36.7	3.8
35	RTD_temp_C_78.3m_Std	°C	78.3 m	122,744	119,599	97.44	0.1	0.0	3.1	0.1
36	RTD_temp_C_3.7m_Avg	°C	3.72 m	122,744	119,514	97.37	24.6	8.0	37.0	5.0
37	RTD_temp_C_3.7m_Max	°C	3.72 m	122,744	119,514	97.37	24.7	8.1	37.2	5.0
38	RTD_temp_C_3.7m_Min	°C	3.72 m	122,744	119,514	97.37	24.4	8.0	36.8	5.0
39	RTD_temp_C_3.7m_Std	°C	3.72 m	122,744	119,514	97.37	0.1	0.0	2.3	0.1
40	HMP155_temp_79m_Avg	°C	79 m	122,744	119,480	97.34	25.4	8.0	37.1	3.8
41	HMP155_temp_79m_Max	°C	79 m	122,744	119,480	97.34	25.5	8.1	37.5	3.8
42	HMP155_temp_79m_Min	°C	79 m	122,744	119,480	97.34	25.2	7.9	36.6	3.8
43	HMP155_temp_79m_Std	°C	79 m	122,744	119,480	97.34	0.1	0.0	2.5	0.1
44	HMP155_RH_79m_Avg	%		122,744	119,619	97.45	78.6	14.4	100.0	16.1
45	HMP155_RH_79m_Max	%		122,744	119,619	97.45	79.9	16.4	100.0	15.7
46	HMP155_RH_79m_Min	%		122,744	119,619	97.45	77.46	-0.03	99.90	16.47
47	HMP155_RH_79m_Std	%		122,744	119,619	97.45	0.64	0.01	18.70	0.70
48	HMP155_temp_4.5m_Avg	°C	4.49 m	122,744	119,361	97.24	24.6	7.8	37.2	5.0
49	HMP155_temp_4.5m_Max	°C	4.49 m	122,744	119,361	97.24	24.7	7.9	37.2	5.1
50	HMP155_temp_4.5m_Min	°C	4.49 m	122,744	119,361	97.24	24.4	7.8	37.1	5.0
51	HMP155_temp_4.5m_Std	°C	4.49 m	122,744	119,361	97.24	0.1	0.0	2.1	0.1
52	HMP155_RH_4.5m_Avg	%		122,744	119,226	97.13	86.9	-22.7	100.0	13.9

#	Label	Units	Height	Possible Data Points	Valid Data Points	Recovery Rate (%)	Mean	Min	Max	Std. Dev
53	HMP155_RH_4.5m_Max	%		122,744	119,226	97.13	88.3	-20.6	100.0	12.7
54	HMP155_RH_4.5m_Min	%		122,744	119,226	97.13	85.77	-23.44	99.90	14.88
55	HMP155_RH_4.5m_Std	%		122,744	119,226	97.13	0.60	0.01	33.71	0.72
56	BP_78.7m_Avg	mbar	78.7 m	122,744	119,605	97.44	999.6	982.0	1,025.0	5.3
57	BP_78.7m_Max	mbar	78.7 m	122,744	119,605	97.44	999.8	983.0	1,026.0	5.3
58	BP_78.7m_Min	mbar	78.7 m	122,744	119,605	97.44	999.4	814.0	1,025.0	5.5
59	BP_78.7m_Std	mbar	78.7 m	122,744	119,605	97.44	0.1	0.0	11.3	0.1
60	BP_4.7m_Avg	mbar	4.69 m	122,744	119,620	97.45	1,007.2	992.0	1,021.0	5.4
61	BP_4.7m_Max	mbar	4.69 m	122,744	119,620	97.45	1,007.3	992.0	1,021.0	5.4
62	BP_4.7m_Min	mbar	4.69 m	122,744	119,620	97.45	1,007.1	958.0	1,020.0	5.4
63	BP_4.7m_Std	mbar	4.69 m	122,744	119,620	97.45	0.1	0.0	5.0	0.0
64	LWmV_Avg	Avg		122,744	119,620	97.45	326.1	167.8	968.0	88.4
65	LWmV	Smp		122,744	119,620	97.45	326.1	167.4	959.0	89.1
66	VBatt_Min	Volts		122,744	119,620	97.45	12.41	0.00	13.75	0.89
67	IBatt_Min	Amps		122,744	119,620	97.45	0.045	-0.430	3.389	0.501
68	ILoad_Min			122,744	119,620	97.45	0.283	0.000	0.350	0.019
69	V_in_chg_Min			122,744	119,620	97.45	8.34	0.00	20.44	8.21
70	I_in_chg_Min			122,744	119,620	97.45	0.285	-0.004	3.163	0.411
71	Chg_TmpC_Avg	°C	2 m	122,744	119,620	97.45	30.0	9.2	64.4	8.4
72	Chg_State	Smp		122,744	119,620	97.45	1.095	0.000	3.000	1.296
73	Ck_Batt	Smp		122,744	119,620	97.45	0.017	0.000	1.000	0.130
74	BattV_Min	Volts		122,744	119,618	97.45	12.01	9.24	13.39	0.92
75	PTemp_C_Avg	°C	2 m	122,744	119,618	97.45	27.2	8.8	47.1	6.5
76	latitude_a	Smp		122,744	119,620	97.45	24	24	24	0
77	latitude_b	Smp		122,744	119,620	97.45	42.92	42.92	42.93	0.00
78	longitude_a	Smp		122,744	119,620	97.45	90	90	90	0
79	longitude_b	Smp		122,744	119,620	97.45	28.01	28.00	28.02	0.00
80	magnetic_variation	Smp		122,744	119,620	97.45	-0.4	-0.4	-0.4	0.0
81	fix_quality	Smp		122,744	119,620	97.45	2	1	2	0
82	nubr_satellites	Smp		122,744	119,620	97.45	9.13	5.00	12.00	0.89
83	altitude	Smp		122,744	119,620	97.45	8.42	-33.80	45.70	6.11
84	max_clock_change			122,744	119,620	97.45	221	-1,000	7,999	1,969
85	nubr_clock_change	Smp		122,744	119,620	97.45	1.346	0.000	7.000	2.009
86	Air Density	kg/m <sup>3</sup>		122,744	122,744	100.00	1.168	1.113	1.250	0.021
87	WS_east_80.2m_Avg TI			122,744	111,111	90.52	0.24	0.03	20.50	0.48
88	WS_west_80.2m_Avg TI			122,744	90,198	73.48	0.24	0.03	20.00	0.46
89	WS_east_60.6m_Avg TI			122,744	113,916	92.81	0.24	0.03	20.50	0.44
90	WS_west_60.6m_Avg TI			122,744	89,147	72.63	0.34	0.03	22.50	0.77
91	WS_east_40.1m_Avg TI			122,744	112,690	91.81	0.28	0.04	20.00	0.47
92	WS_west_40.1m_Avg TI			122,744	90,947	74.09	0.31	0.04	20.50	0.58
93	WS_east_80.2m_Avg WPD	W/m <sup>2</sup>		122,744	112,865	91.95	52	0	6,597	102
94	WS_west_80.2m_Avg WPD	W/m <sup>2</sup>		122,744	91,254	74.34	48	0	6,518	100
95	WS_east_60.6m_Avg WPD	W/m <sup>2</sup>		122,744	114,523	93.30	39	0	5,375	80
96	WS_west_60.6m_Avg WPD	W/m <sup>2</sup>		122,744	91,141	74.25	34	0	5,095	76
97	WS_east_40.1m_Avg WPD	W/m <sup>2</sup>		122,744	113,520	92.49	26	0	3,984	60
98	WS_west_40.1m_Avg WPD	W/m <sup>2</sup>		122,744	91,969	74.93	23	0	3,791	57