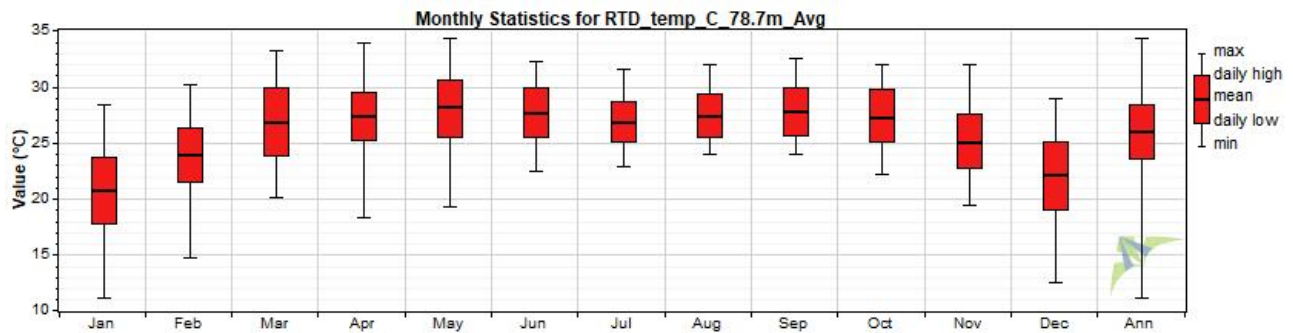


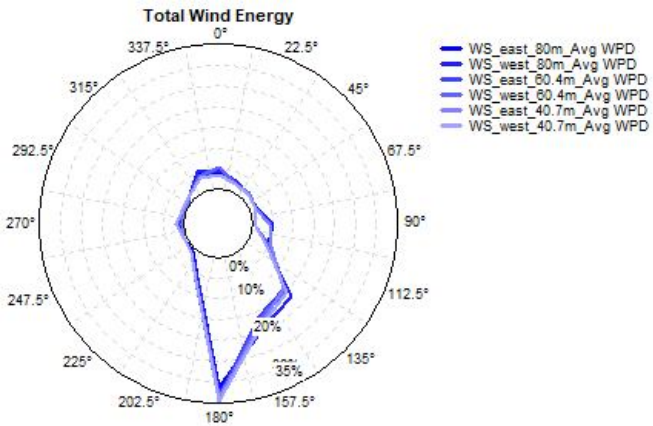
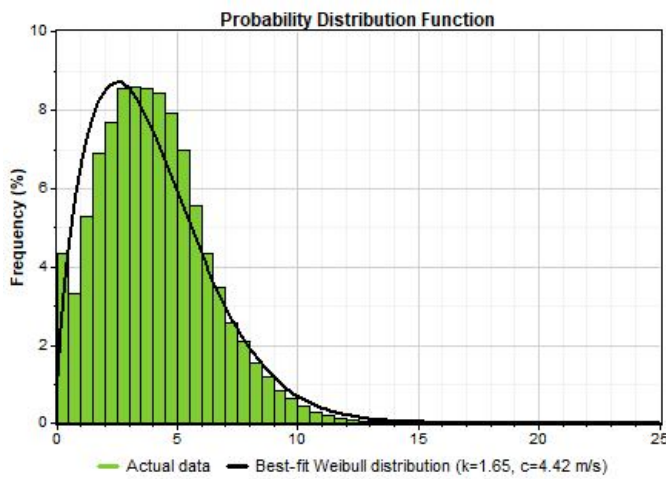
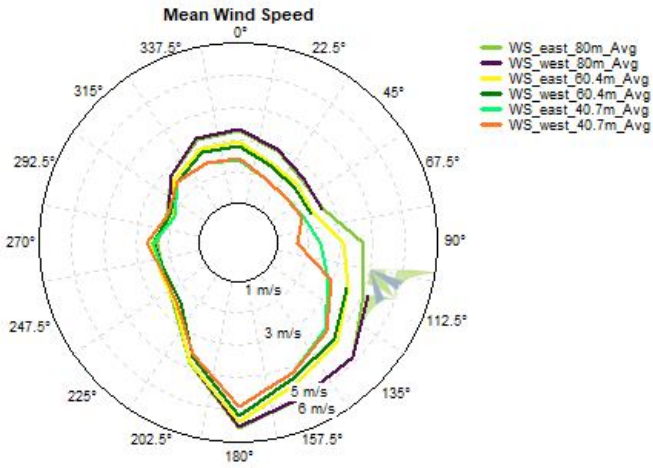
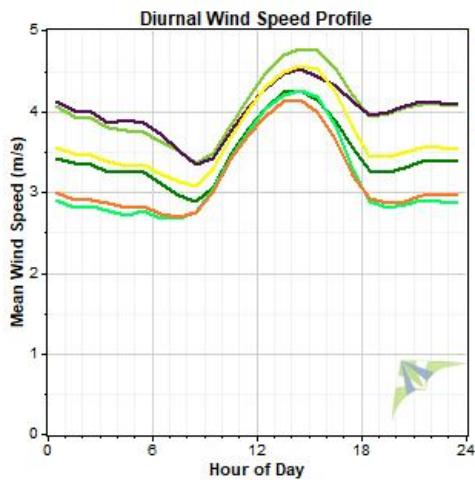
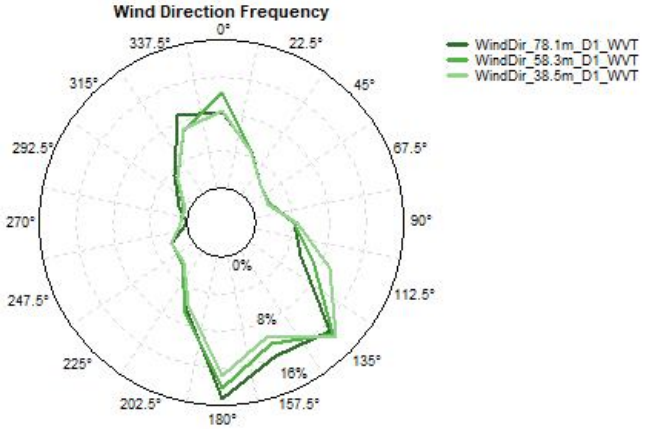
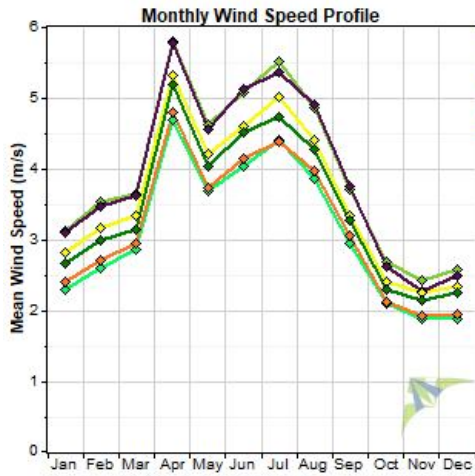
Data Set Properties

Report Created: 4/11/2018 10:43 using Windographer 3.3.10
 Filter Settings: <Unflagged data>

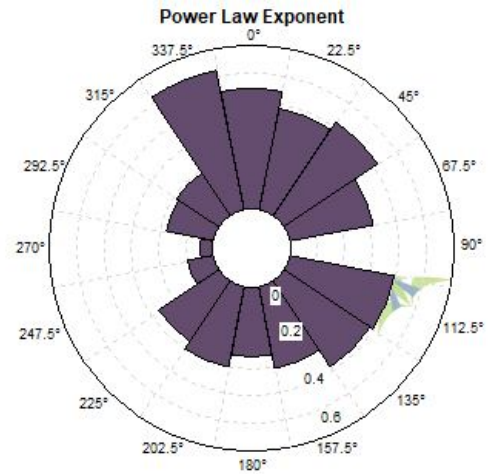
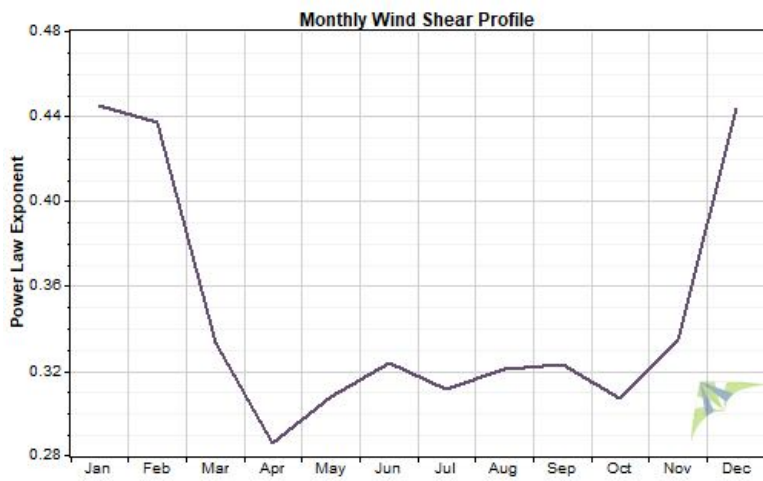
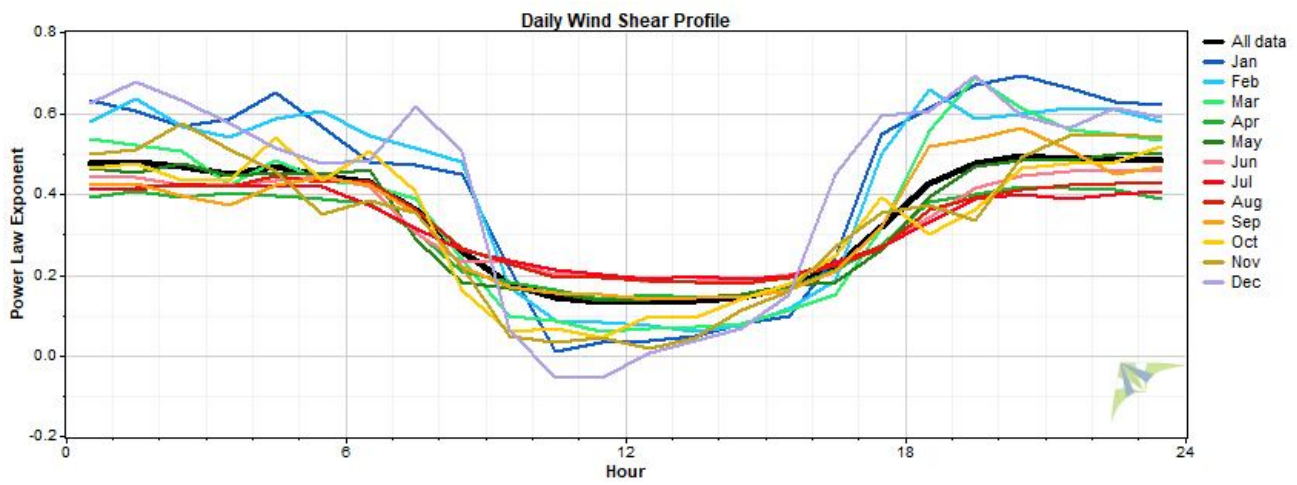
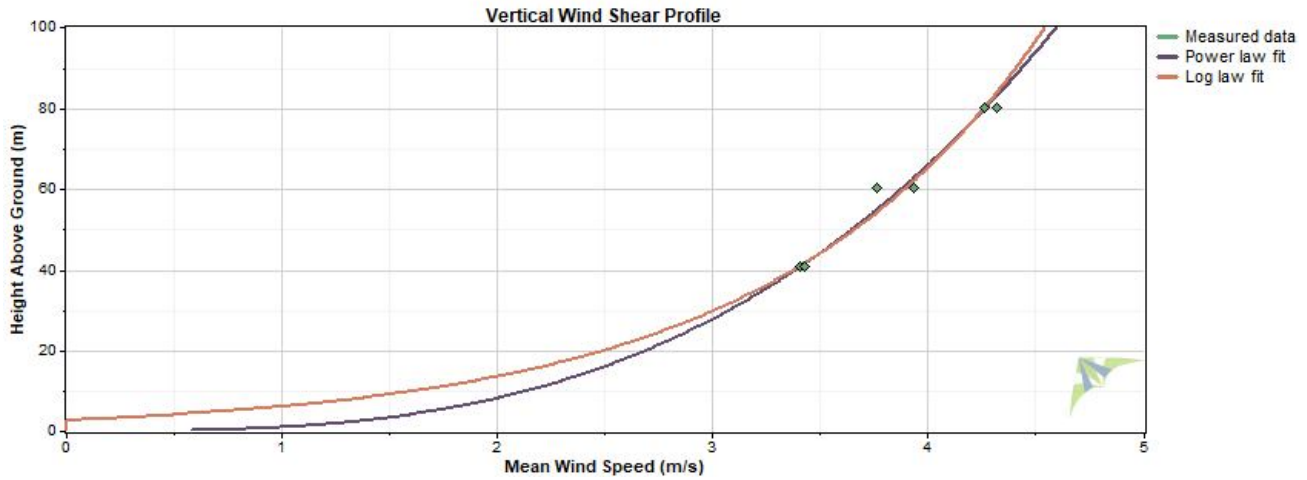
Variable	Value
Latitude	N 22.604160
Longitude	E 91.660100
Elevation	0 m
Start date	12/18/2014 09:50
End date	12/20/2016 00:10
Duration	24 months
Length of time step	10 minutes
Calm threshold	1 m/s
Mean temperature	26.0 °C
Mean pressure	999.9 mbar
Mean air density	1.169 kg/m ³
Power density at 50m	49 W/m ²
Wind power class	1
Power law exponent	0.334
Surface roughness	2.84 m
Roughness class	4.78



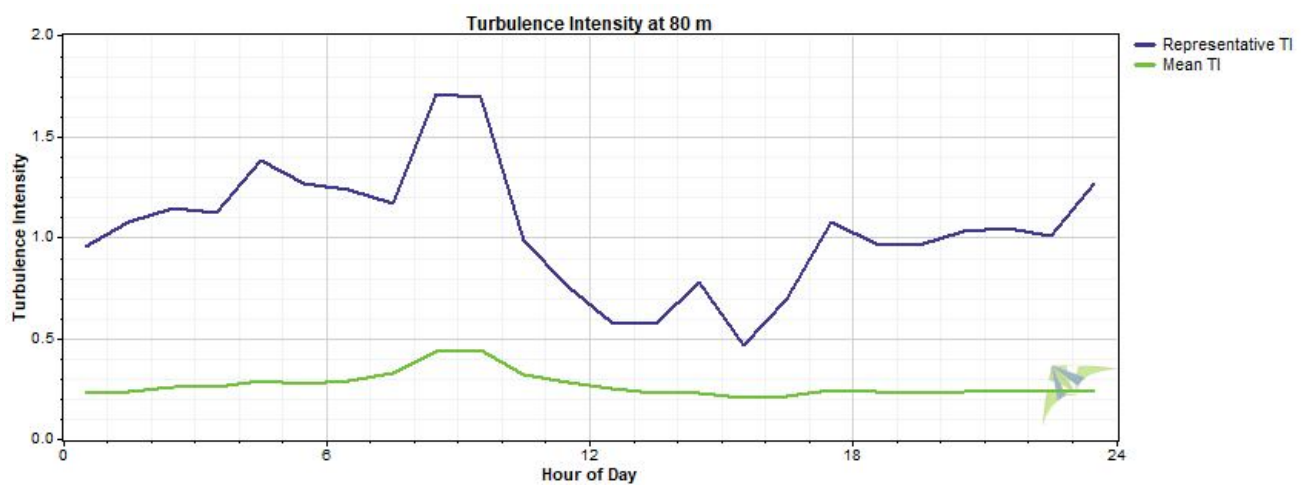
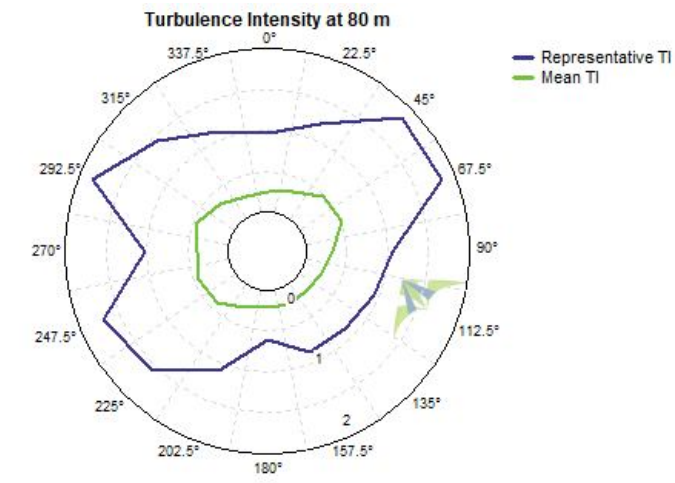
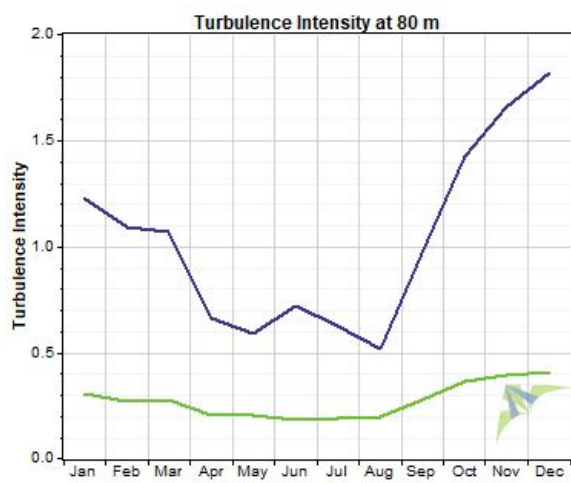
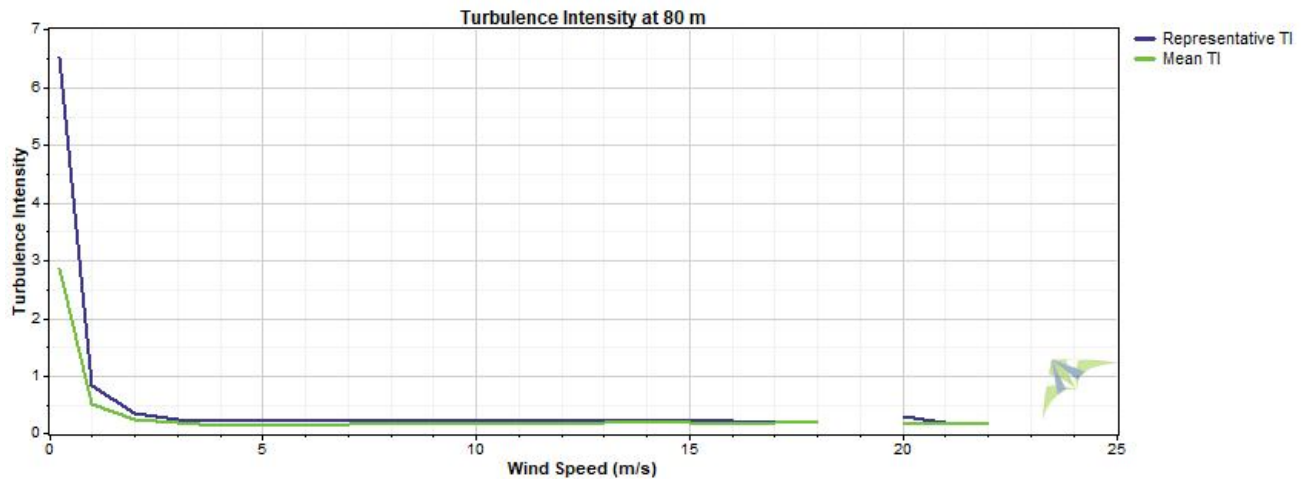
Wind Speed and Direction



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	RN		105,494	96,567	91.54	22,630	0	53,062	14,763
2	WS_east_80m_Avg	m/s	80 m	105,494	91,476	86.71	4.015	0.000	21.730	2.296
3	WS_east_80m_Max	m/s	80 m	105,494	91,476	86.71	5.704	0.000	31.020	3.163
4	WS_east_80m_Min	m/s	80 m	105,494	91,476	86.71	2.350	0.000	14.070	1.575
5	WS_east_80m_Std	m/s	80 m	105,494	91,476	86.71	0.676	0.000	6.838	0.373
6	WS_west_80m_Avg	m/s	80 m	105,494	85,589	81.13	4.009	0.000	21.490	2.311
7	WS_west_80m_Max	m/s	80 m	105,494	85,589	81.13	5.720	0.000	31.010	3.170
8	WS_west_80m_Min	m/s	80 m	105,494	85,589	81.13	2.303	0.000	13.290	1.597
9	WS_west_80m_Std	m/s	80 m	105,494	85,589	81.13	0.687	0.000	6.486	0.386
10	WS_east_60.4m_Avg	m/s	60.4 m	105,494	92,008	87.22	3.638	0.000	20.430	2.125
11	WS_east_60.4m_Max	m/s	60.4 m	105,494	92,008	87.22	5.353	0.000	31.730	3.047
12	WS_east_60.4m_Min	m/s	60.4 m	105,494	92,008	87.22	1.987	0.000	12.510	1.385
13	WS_east_60.4m_Std	°C	60.4 m	105,494	92,008	87.22	0.678	0.000	6.575	0.373
14	WS_west_60.4m_Avg	m/s	60.4 m	105,494	89,834	85.16	3.480	0.000	19.600	2.115
15	WS_west_60.4m_Max	m/s	60.4 m	105,494	89,834	85.16	5.190	0.000	30.640	2.983
16	WS_west_60.4m_Min	m/s	60.4 m	105,494	89,834	85.16	1.818	0.000	11.700	1.397
17	WS_west_60.4m_Std	m/s	60.4 m	105,494	89,834	85.16	0.679	0.000	6.123	0.371
18	WS_east_40.7m_Avg	m/s	40.7 m	105,494	92,586	87.76	3.144	0.000	18.710	1.919
19	WS_east_40.7m_Max	m/s	40.7 m	105,494	92,586	87.76	4.918	0.000	36.860	2.939
20	WS_east_40.7m_Min	°C	40.7 m	105,494	92,586	87.76	1.477	0.000	10.230	1.095
21	WS_east_40.7m_Std	m/s	40.7 m	105,494	92,586	87.76	0.694	0.000	6.451	0.384
22	WS_west_40.7m_Avg	m/s	40.7 m	105,494	88,302	83.70	3.194	0.000	18.530	1.910
23	WS_west_40.7m_Max	m/s	40.7 m	105,494	88,302	83.70	4.977	0.000	30.230	2.913
24	WS_west_40.7m_Min	m/s	40.7 m	105,494	88,302	83.70	1.516	0.000	11.000	1.102
25	WS_west_40.7m_Std	m/s	40.7 m	105,494	88,302	83.70	0.699	0.000	6.059	0.381
26	WindDir_78.1m_D1_WVT	°	78.1 m	105,494	96,567	91.54	150.1	0.0	360.0	98.2
27	WindDir_78.1m_SD1_WVT	°	78.1 m	105,494	96,567	91.54	8.4	0.0	79.5	7.6
28	WindDir_58.3m_D1_WVT	°	58.3 m	105,494	96,567	91.54	149.5	0.0	360.0	99.6
29	WindDir_58.3m_SD1_WVT	°	58.3 m	105,494	96,567	91.54	9.3	0.0	80.1	7.9
30	WindDir_38.5m_D1_WVT	°	38.5 m	105,494	96,567	91.54	148.7	0.0	360.0	98.9
31	WindDir_38.5m_SD1_WVT	°	38.5 m	105,494	96,567	91.54	10.3	0.0	80.4	8.4
32	RTD_temp_C_78.7m_Avg	°C	78.7 m	105,494	96,567	91.54	26.0	11.2	34.3	3.2
33	RTD_temp_C_78.7m_Max	°C	78.7 m	105,494	96,567	91.54	26.3	11.3	34.4	3.2
34	RTD_temp_C_78.7m_Min	°C	78.7 m	105,494	96,567	91.54	25.7	11.0	34.1	3.2
35	RTD_temp_C_78.7m_Std	°C	78.7 m	105,494	96,567	91.54	0.1	0.0	2.4	0.1
36	RTD_temp_C_3.9m_Avg	°C	3.88 m	105,494	72,429	68.66	24.8	7.8	34.9	5.2
37	RTD_temp_C_3.9m_Max	°C	3.88 m	105,494	72,429	68.66	25.0	7.9	35.1	5.2
38	RTD_temp_C_3.9m_Min	°C	3.88 m	105,494	72,429	68.66	24.7	7.7	34.6	5.1
39	RTD_temp_C_3.9m_Std	°C	3.88 m	105,494	72,429	68.66	0.1	0.0	2.3	0.1
40	HMP155_temp_78.7m_Avg	°C	78.7 m	105,494	96,567	91.54	25.9	11.1	33.8	3.2
41	HMP155_temp_78.7m_Max	°C	78.7 m	105,494	96,567	91.54	26.0	11.1	34.0	3.2
42	HMP155_temp_78.7m_Min	°C	78.7 m	105,494	96,567	91.54	25.8	11.0	33.8	3.2
43	HMP155_temp_78.7m_Std	°C	78.7 m	105,494	96,567	91.54	0.1	0.0	2.2	0.1
44	HMP155_RH_78.7m_Avg	%		105,494	96,567	91.54	75.6	10.4	100.0	16.1
45	HMP155_RH_78.7m_Max	%		105,494	96,567	91.54	76.8	11.7	100.0	15.8
46	HMP155_RH_78.7m_Min	%		105,494	96,567	91.54	74.38	9.09	99.90	16.48
47	HMP155_RH_78.7m_Std	%		105,494	96,567	91.54	0.61	0.02	14.47	0.62
48	BP_79m_Avg	mbar	79 m	105,494	96,567	91.54	999.9	976.0	1,014.0	5.2
49	BP_79m_Max	mbar	79 m	105,494	96,567	91.54	1,000.1	976.0	1,015.0	5.2
50	BP_79m_Min	mbar	79 m	105,494	96,567	91.54	999.7	835.0	1,014.0	5.9
51	BP_79m_Std	mbar	79 m	105,494	96,567	91.54	0.1	0.0	27.4	0.2
52	BP_3.9m_Avg	mbar	3.88 m	105,494	96,567	91.54	1,008.3	984.0	1,022.0	5.4

#	Label	Units	Height	Possible Data Points	Valid Data Points	Recovery Rate (%)	Mean	Min	Max	Std. Dev
53	BP_3.9m_Max	mbar	3.88 m	105,494	96,567	91.54	1,008.4	984.0	1,022.0	5.4
54	BP_3.9m_Min	mbar	3.88 m	105,494	96,567	91.54	1,008.2	983.0	1,021.0	5.4
55	BP_3.9m_Std	°C	2 m	105,494	96,567	91.54	0.0	0.0	1.0	0.0
56	SlrW_Avg	W/m2		105,494	31,255	29.63	999	980	1,014	6
57	SlrW_Max	W/m2		105,494	31,255	29.63	999	981	1,015	6
58	SlrW_Min	W/m2		105,494	31,255	29.63	999	835	1,014	6
59	SlrW_Std	W/m2		105,494	31,255	29.63	0.07	0.02	19.26	0.17
60	VWC_Avg	m^3/m^3		105,494	31,255	29.63	1,007	989	1,021	6
61	VWC_Max			105,494	31,255	29.63	1,007	990	1,021	6
62	VWC_Min			105,494	31,255	29.63	1,007	989	1,021	6
63	VWC_Std			105,494	31,255	29.63	0.0514	0.0200	0.9500	0.0312
64	SoilT_Avg	°C	0 m	105,494	31,255	29.63	320.4	246.4	840.0	98.3
65	SoilT_Max	°C	0 m	105,494	31,255	29.63	320.4	243.5	839.0	99.9
66	SoilT_Min	°C	0 m	105,494	31,255	29.63	12.9	0.0	13.7	0.5
67	SoilT_Std	°C	0 m	105,494	31,255	29.63	-0.0	-0.3	1.4	0.4
68	LWmV_Avg	%		105,494	96,567	91.54	217.8	0.0	737.6	168.0
69	LWmV	%		105,494	96,567	91.54	220.6	0.0	794.6	164.8
70	HMP155_temp_4.6m_Avg	°C	4.63 m	105,494	65,422	62.01	24.8	0.0	35.0	4.9
71	HMP155_temp_4.6m_Max	°C	4.63 m	105,494	65,422	62.01	25.0	8.3	35.2	4.9
72	HMP155_temp_4.6m_Min	°C	4.63 m	105,494	65,422	62.01	24.7	0.0	34.8	4.9
73	HMP155_temp_4.6m_Std	°C	4.63 m	105,494	65,422	62.01	0.1	0.0	2.0	0.1
74	HMP155_RH_4.6m_Avg	%		105,494	65,422	62.01	85.65	12.10	99.80	13.81
75	HMP155_RH_4.6m_Max	%		105,494	65,422	62.01	86.98	13.53	99.90	12.75
76	HMP155_RH_4.6m_Min	%		105,494	65,422	62.01	84.50	22.00	99.70	14.73
77	HMP155_RH_4.6m_Std	%		105,494	65,422	62.01	0.60	0.03	36.25	0.71
78	VBatt_Min	Volts		105,494	96,567	91.54	37.86	0.00	91.00	36.64
79	IBatt_Min	Amps		105,494	96,567	91.54	12.76	-0.35	39.61	18.51
80	ILoad_Min			105,494	96,567	91.54	-0.0058	-0.6000	0.3200	0.4098
81	V_in_chg_Min			105,494	96,567	91.54	6.53	0.00	19.96	7.55
82	I_in_chg_Min			105,494	96,567	91.54	3.11	-0.00	11.00	4.20
83	Chg_TmpC_Avg	°C	2 m	105,494	96,567	91.54	22.4	-28.5	46.8	12.8
84	Chg_State	Smp		105,494	96,567	91.54	-40	-1,350	340	308
85	Ck_Batt	Smp		105,494	96,567	91.54	0.169	0.000	2.000	0.487
86	BattV_Min	Volts		105,494	96,567	91.54	12.66	0.00	13.71	0.49
87	PTemp_C_Avg	°C	2 m	105,494	96,567	91.54	27.2	8.3	40.2	5.8
88	latitude_a	Smp		105,494	96,567	91.54	22	22	22	0
89	latitude_b	Smp		105,494	96,567	91.54	36.25	36.24	36.26	0.00
90	longitude_a	Smp		105,494	96,567	91.54	91	91	91	0
91	longitude_b	Smp		105,494	96,567	91.54	39.60	39.59	39.61	0.00
92	magnetic_variation	Smp		105,494	96,567	91.54	-0.6	-0.6	-0.6	0.0
93	fix_quality	Smp		105,494	96,567	91.54	2	1	2	0
94	nmbr_satellites	Smp		105,494	96,567	91.54	9.16	5.00	12.00	0.87
95	altitude	Smp		105,494	96,567	91.54	8.19	-37.50	37.00	6.38
96	max_clock_change			105,494	96,567	91.54	-156	-1,350	340	478
97	nmbr_clock_change	Smp		105,494	96,567	91.54	0.981	0.000	3.000	1.070
98	Air Density	kg/m³		105,494	105,494	100.00	1.169	1.126	1.234	0.021
99	WS_east_80m_Avg Tl			105,494	89,873	85.19	0.27	0.03	20.00	0.64
100	WS_west_80m_Avg Tl			105,494	82,399	78.11	0.28	0.04	20.25	0.70
101	WS_east_60.4m_Avg Tl			105,494	90,318	85.61	0.30	0.03	20.00	0.70
102	WS_west_60.4m_Avg Tl			105,494	86,721	82.20	0.38	0.03	25.00	1.04
103	WS_east_40.7m_Avg Tl			105,494	91,288	86.53	0.36	0.05	20.00	0.81
104	WS_west_40.7m_Avg Tl			105,494	87,343	82.79	0.35	0.04	20.50	0.75
105	WS_east_80m_Avg WPD	W/m²		105,494	91,476	86.71	79	0	5,880	147
106	WS_west_80m_Avg WPD	W/m²		105,494	85,589	81.13	78	0	5,687	141

#	Label	Units	Height	Possible Data Points	Valid Data Points	Recovery Rate (%)	Mean	Min	Max	Std. Dev
107	WS_east_60.4m_Avg WPD	W/m ²		105,494	92,008	87.22	61	0	4,891	117
108	WS_west_60.4m_Avg WPD	W/m ²		105,494	89,834	85.16	55	0	4,319	106
109	WS_east_40.7m_Avg WPD	W/m ²		105,494	92,586	87.76	42	0	3,757	86
110	WS_west_40.7m_Avg WPD	W/m ²		105,494	88,302	83.70	43	0	3,649	86