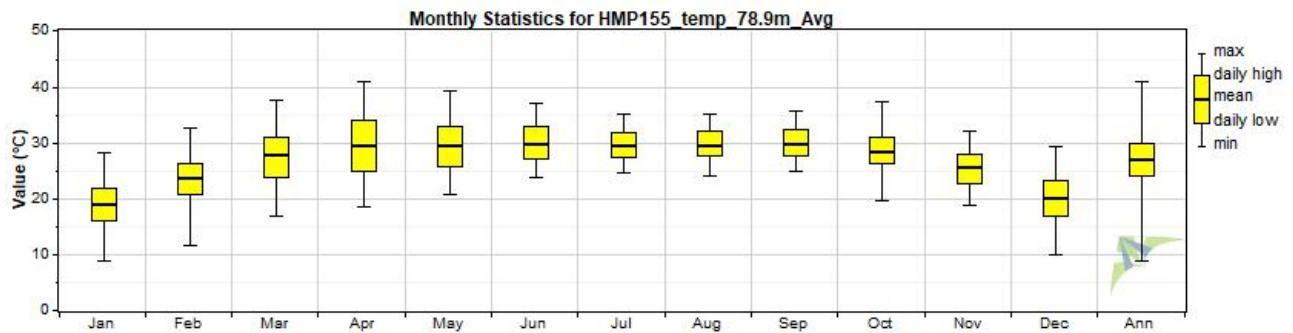


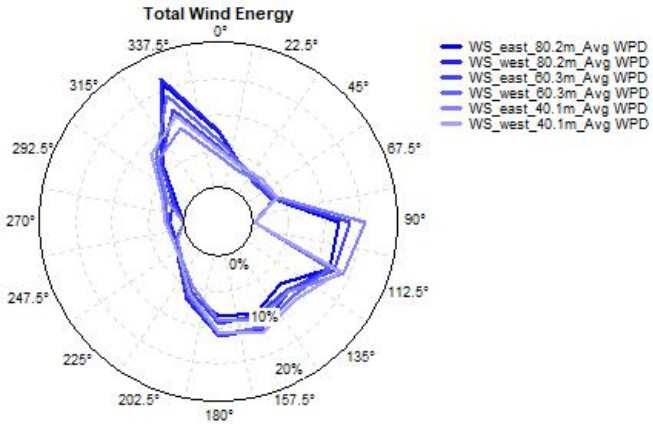
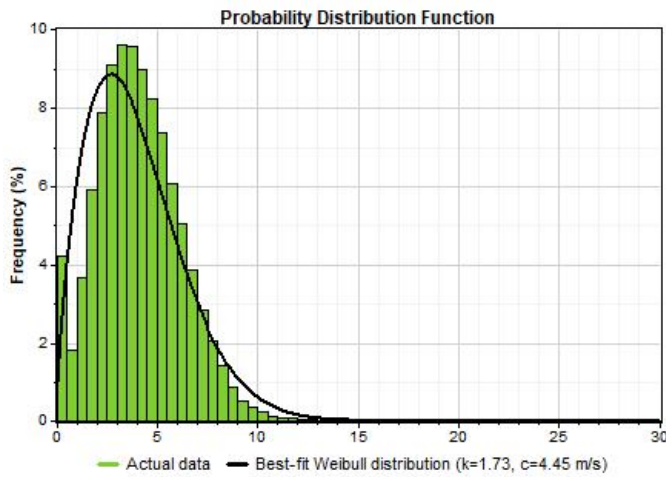
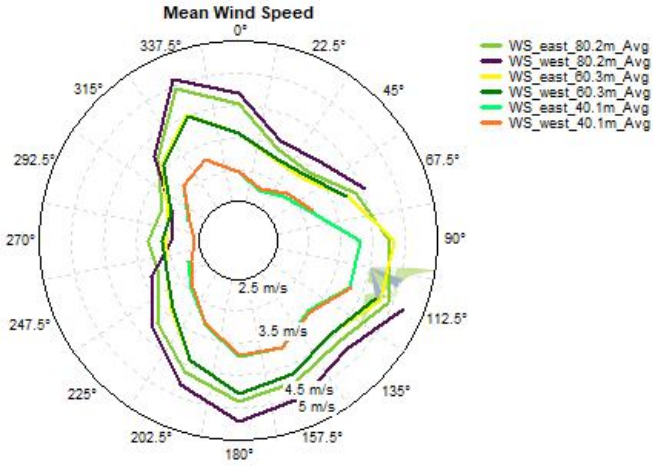
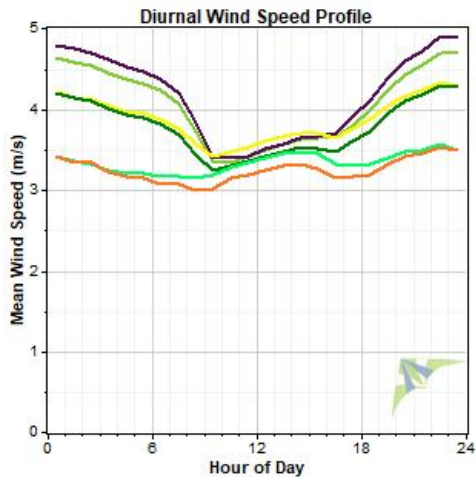
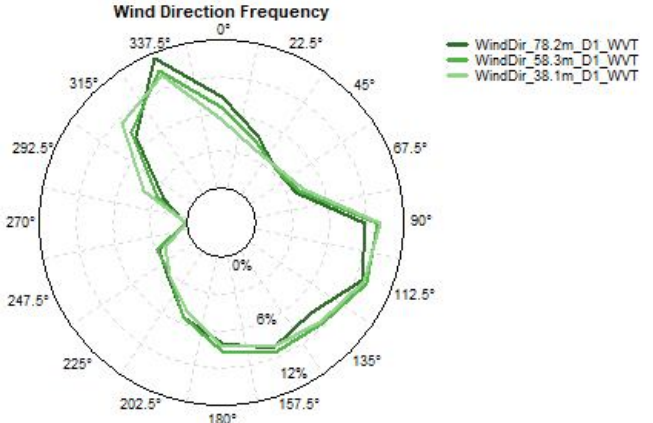
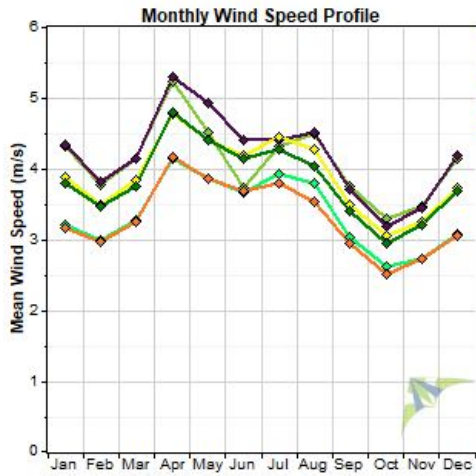
Data Set Properties

Report Created: 4/11/2018 10:34 using Windographer 3.3.10
 Filter Settings: <Unflagged data>

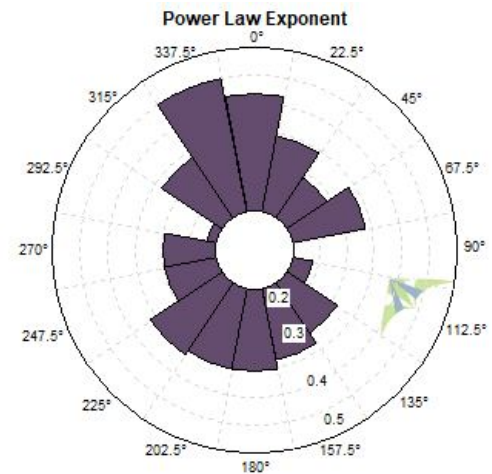
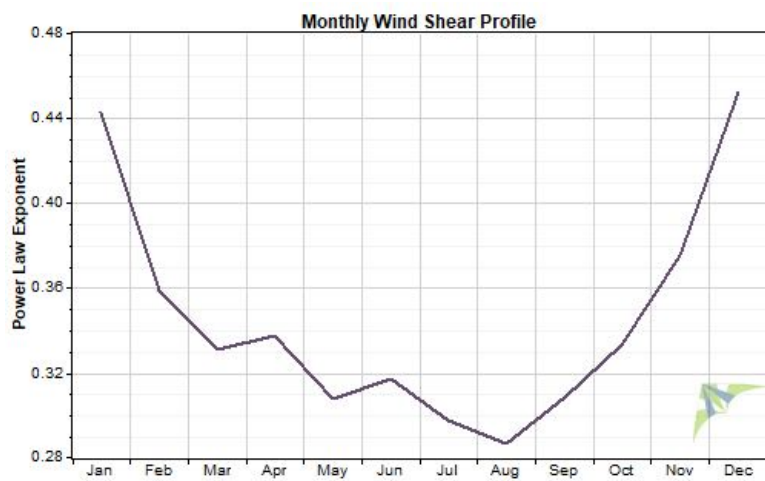
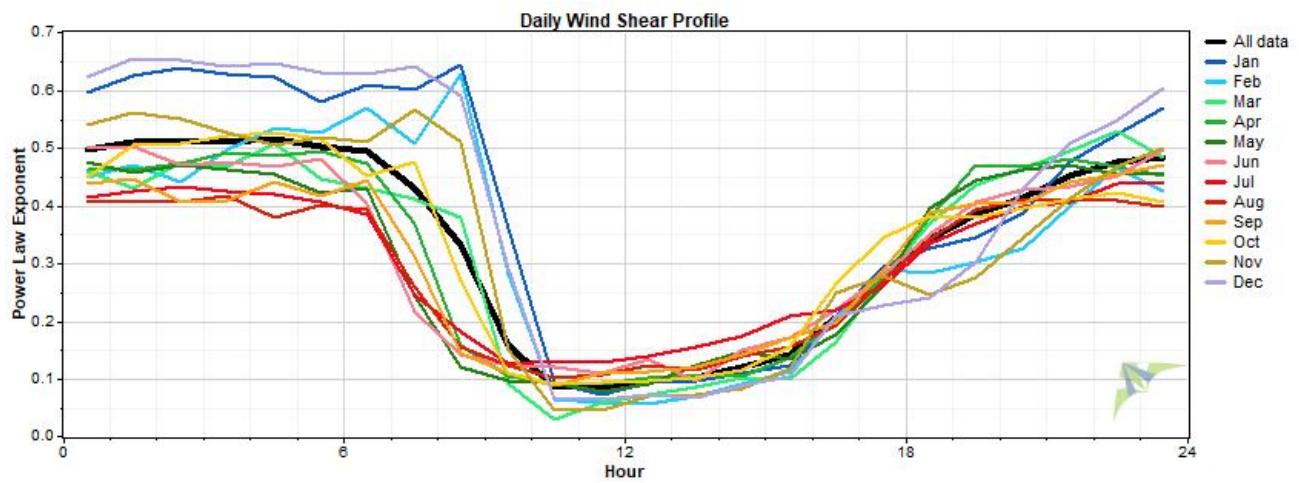
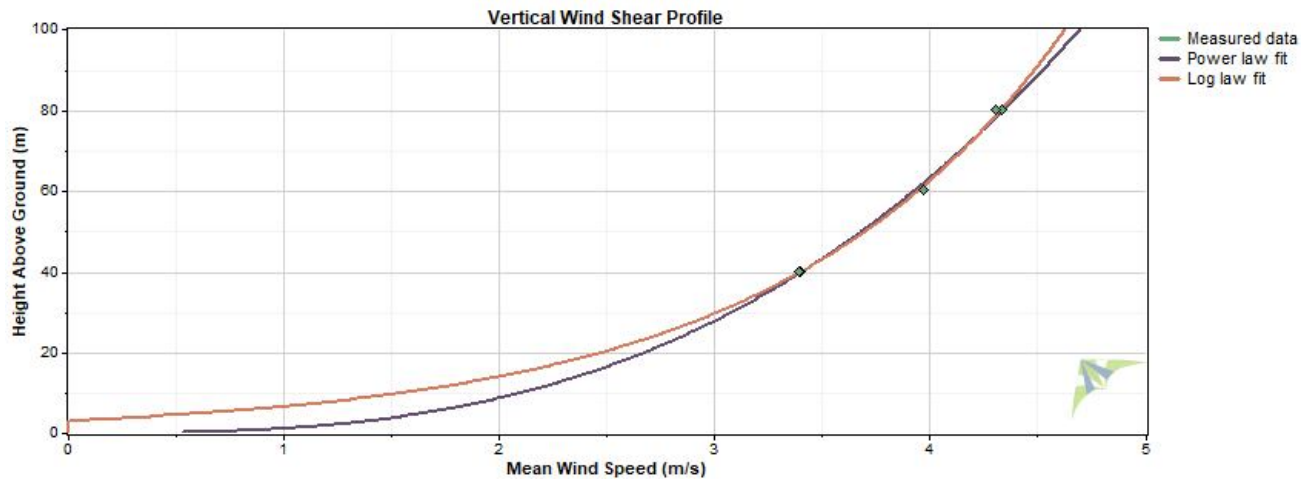
Variable	Value
Latitude	N 24.170350
Longitude	E 88.907340
Elevation	12 m
Start date	6/11/2014 15:10
End date	12/20/2017 14:30
Duration	3.5 years
Length of time step	10 minutes
Calm threshold	1 m/s
Mean temperature	27.2 °C
Mean pressure	998.5 mbar
Mean air density	1.179 kg/m ³
Power density at 50m	47 W/m ²
Wind power class	1
Power law exponent	0.35
Surface roughness	3.17 m
Roughness class	4.87



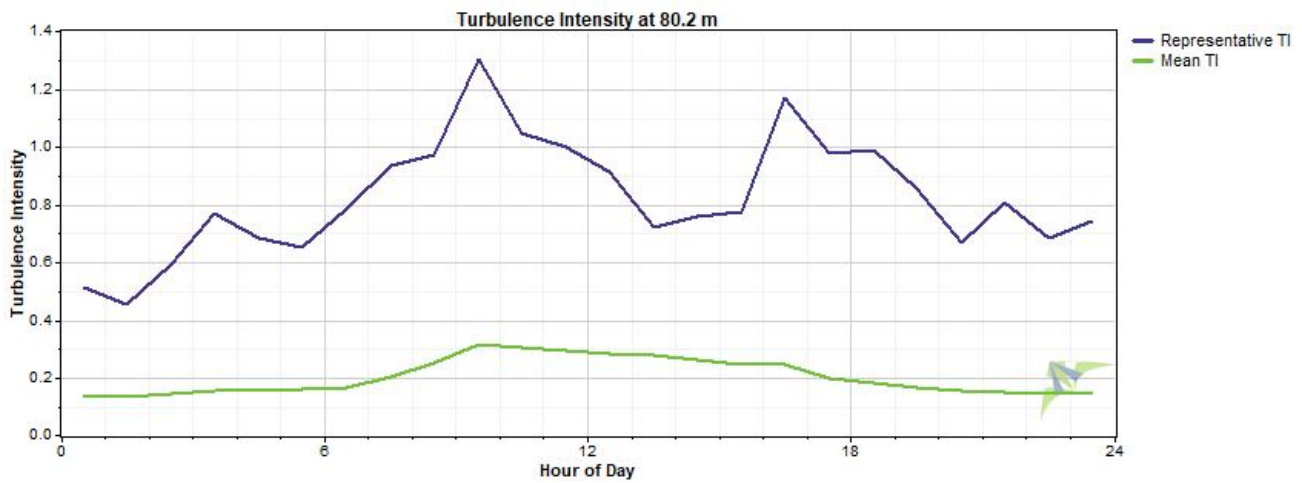
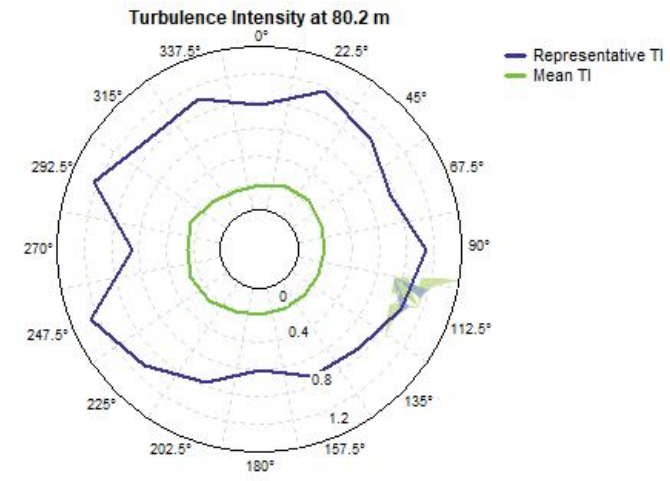
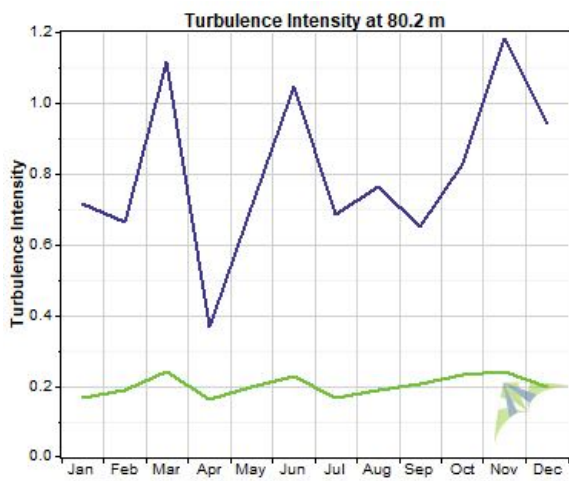
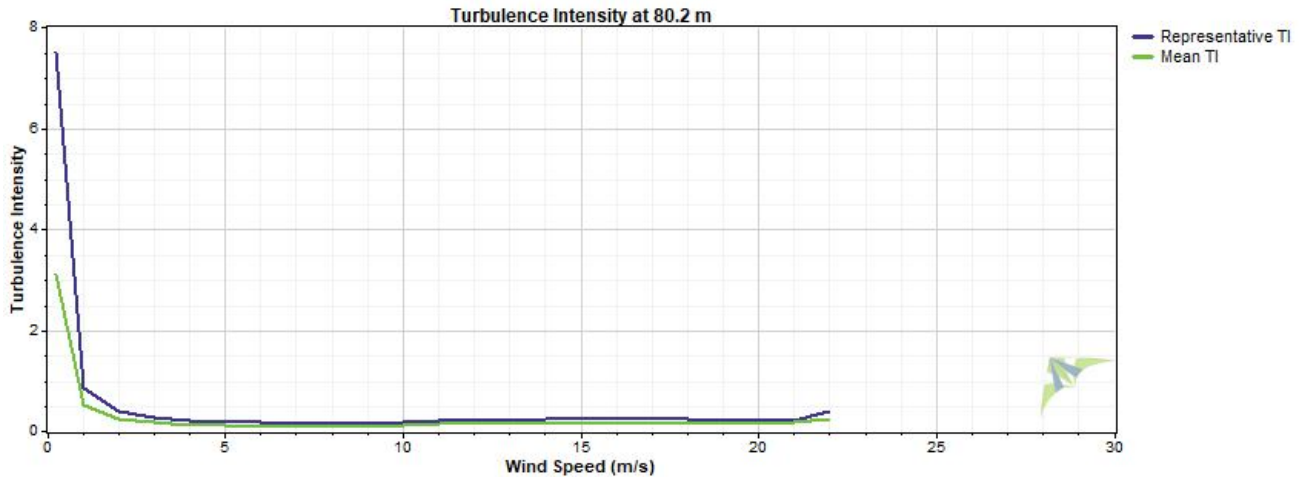
Wind Speed and Direction



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		185,468	175,418	94.58	38,479	0	102,881	28,330
2	WS_east_80.2m_Avg	m/s	80.2 m	185,468	156,625	84.45	4.060	0.000	25.670	2.106
3	WS_east_80.2m_Max	m/s	80.2 m	185,468	156,625	84.45	5.359	0.000	41.820	2.537
4	WS_east_80.2m_Min	m/s	80.2 m	185,468	156,625	84.45	2.735	0.000	15.610	1.871
5	WS_east_80.2m_Std	m/s	80.2 m	185,468	156,625	84.45	0.549	0.000	9.050	0.300
6	WS_west_80.2m_Avg	m/s	80.2 m	185,468	139,729	75.34	4.167	0.000	25.570	2.162
7	WS_west_80.2m_Max	m/s	80.2 m	185,468	139,729	75.34	5.531	0.000	40.320	2.578
8	WS_west_80.2m_Min	m/s	80.2 m	185,468	139,729	75.34	2.635	0.000	14.850	1.960
9	WS_west_80.2m_Std	m/s	80.2 m	185,468	139,729	75.34	0.597	0.000	8.540	0.350
10	WS_east_60.3m_Avg	m/s	60.3 m	185,468	167,785	90.47	3.880	0.000	24.690	1.782
11	WS_east_60.3m_Max	m/s	60.3 m	185,468	167,785	90.47	5.280	0.000	41.820	2.285
12	WS_east_60.3m_Min	m/s	60.3 m	185,468	167,785	90.47	2.469	0.000	14.070	1.512
13	WS_east_60.3m_Std	m/s	60.3 m	185,468	167,785	90.47	0.582	0.000	8.680	0.285
14	WS_west_60.3m_Avg	m/s	60.3 m	185,468	154,448	83.27	3.772	0.000	24.530	1.761
15	WS_west_60.3m_Max	m/s	60.3 m	185,468	154,448	83.27	5.135	0.000	41.010	2.229
16	WS_west_60.3m_Min	m/s	60.3 m	185,468	154,448	83.27	2.404	0.000	14.060	1.538
17	WS_west_60.3m_Std	m/s	60.3 m	185,468	154,448	83.27	0.569	0.000	8.730	0.282
18	WS_east_40.1m_Avg	m/s	40.1 m	185,468	165,813	89.40	3.342	0.000	23.450	1.557
19	WS_east_40.1m_Max	°C	40.1 m	185,468	165,813	89.40	4.809	0.000	40.240	2.180
20	WS_east_40.1m_Min	°C	40.1 m	185,468	165,813	89.40	1.905	0.000	10.980	1.221
21	WS_east_40.1m_Std	m/s	40.1 m	185,468	165,813	89.40	0.601	0.000	8.280	0.298
22	WS_west_40.1m_Avg	m/s	40.1 m	185,468	147,438	79.50	3.247	0.000	23.270	1.532
23	WS_west_40.1m_Max	m/s	40.1 m	185,468	147,438	79.50	4.676	0.000	40.160	2.128
24	WS_west_40.1m_Min	m/s	40.1 m	185,468	147,438	79.50	1.825	0.000	10.970	1.246
25	WS_west_40.1m_Std	m/s	40.1 m	185,468	147,438	79.50	0.593	0.000	8.110	0.302
26	WindDir_78.2m_D1_WVT	°	78.2 m	185,468	175,418	94.58	96.0	0.0	360.0	103.9
27	WindDir_78.2m_SD1_WVT	°	78.2 m	185,468	175,418	94.58	7.1	0.0	80.6	7.3
28	WindDir_58.3m_D1_WVT	°	58.3 m	185,468	175,418	94.58	106.5	0.0	360.0	103.9
29	WindDir_58.3m_SD1_WVT	°	58.3 m	185,468	175,418	94.58	8.1	0.0	79.7	7.7
30	WindDir_38.1m_D1_WVT	°	38.1 m	185,468	175,261	94.50	105.7	0.0	360.0	103.4
31	WindDir_38.1m_SD1_WVT	°	38.1 m	185,468	175,418	94.58	8.4	0.0	80.9	7.8
32	RTD_temp_C_78.4m_Avg	°C	78.4 m	185,468	175,418	94.58	26.0	7.9	39.4	4.3
33	RTD_temp_C_78.4m_Max	°C	78.4 m	185,468	175,418	94.58	26.1	8.0	39.7	4.3
34	RTD_temp_C_78.4m_Min	°C	78.4 m	185,468	175,418	94.58	25.8	7.8	39.0	4.3
35	RTD_temp_C_78.4m_Std	°C	78.4 m	185,468	175,418	94.58	0.1	0.0	6.0	0.1
36	RTD_temp_C_3.1m_Avg	°C	3.12 m	185,468	175,218	94.47	24.9	4.9	39.7	5.8
37	RTD_temp_C_3.1m_Max	°C	3.12 m	185,468	175,218	94.47	25.0	5.1	39.8	5.8
38	RTD_temp_C_3.1m_Min	°C	3.12 m	185,468	175,218	94.47	24.8	4.8	39.6	5.8
39	RTD_temp_C_3.1m_Std	°C	3.12 m	185,468	175,218	94.47	0.1	0.0	2.3	0.1
40	HMP155_temp_78.9m_Avg	°C	78.9 m	185,468	113,603	61.25	27.2	8.8	40.8	4.7
41	HMP155_temp_78.9m_Max	°C	78.9 m	185,468	113,603	61.25	29.0	10.3	60.4	4.7
42	HMP155_temp_78.9m_Min	°C	78.9 m	185,468	113,603	61.25	26.4	-21.8	39.9	4.7
43	HMP155_temp_78.9m_Std	°C	78.9 m	185,468	113,603	61.25	0.7	0.3	5.5	0.2
44	HMP155_RH_78.9m_Avg	%		185,468	175,406	94.57	75.9	-0.1	100.0	21.2
45	HMP155_RH_78.9m_Max	%		185,468	175,406	94.57	78.1	-0.1	100.0	20.8
46	HMP155_RH_78.9m_Min	%		185,468	175,406	94.57	74.2	-0.4	100.0	21.6
47	HMP155_RH_78.9m_Std	%		185,468	175,406	94.57	0.83	0.00	40.94	0.75
48	BP_78.7m_Avg	mbar	78.7 m	185,468	173,692	93.65	998.5	977.5	1,033.0	5.9
49	BP_78.7m_Max	mbar	78.7 m	185,468	173,692	93.65	998.7	978.5	1,034.0	5.9
50	BP_78.7m_Min	mbar	78.7 m	185,468	173,692	93.65	998.4	977.5	1,032.5	6.0
51	BP_78.7m_Std	mbar	78.7 m	185,468	173,692	93.65	0.1	0.0	15.7	0.2
52	BP_3.5m_Avg	mbar	3.49 m	185,468	154,700	83.41	1,006.9	990.0	1,021.5	6.0

#	Label	Units	Height	Possible Data Points	Valid Data Points	Recovery Rate (%)	Mean	Min	Max	Std. Dev
53	BP_3.5m_Max	mbar	3.49 m	185,468	154,700	83.41	1,007.0	990.0	1,022.0	6.0
54	BP_3.5m_Min	mbar	3.49 m	185,468	154,700	83.41	1,006.8	989.5	1,021.5	6.0
55	BP_3.5m_Std	mbar	3.49 m	185,468	154,700	83.41	0.1	0.0	3.4	0.1
56	SlrW_Avg	W/m2		185,468	3,765	2.03	165	0	1,156	249
57	SlrW_Max	W/m2		185,468	3,765	2.03	199	0	1,332	302
58	SlrW_Min	W/m2		185,468	3,765	2.03	129	0	1,064	197
59	SlrW_Std	W/m2		185,468	3,765	2.03	20.6	0.0	426.4	47.3
60	VWC_Avg	m^3/m^3		185,468	173,692	93.65	14	0	7,999	337
61	VWC_Max			185,468	173,692	93.65	14	0	7,999	337
62	VWC_Min			185,468	173,692	93.65	14	0	7,999	336
63	VWC_Std			185,468	173,692	93.65	0	0	7,999	27
64	SoilT_Avg	°C	0 m	185,468	175,418	94.58	26.2	0.0	44.8	4.6
65	SoilT_Max	°C	0 m	185,468	175,418	94.58	26.2	0.0	44.8	4.6
66	SoilT_Min	°C	0 m	185,468	175,418	94.58	26.2	0.0	44.7	4.6
67	SoilT_Std	°C	0 m	185,468	175,418	94.58	0.0	0.0	16.0	0.1
68	LWmV_Avg	%		185,468	175,418	94.58	900.1	877.0	919.0	6.4
69	LWmV	%		185,468	175,418	94.58	900.1	877.0	919.0	6.4
70	HMP155_temp_3.75m_Avg	°C	3.75 m	185,468	171,613	92.53	25.0	5.2	40.0	5.8
71	HMP155_temp_3.75m_Max	°C	3.75 m	185,468	171,613	92.53	25.3	5.6	40.2	5.8
72	HMP155_temp_3.75m_Min	°C	3.75 m	185,468	171,613	92.53	24.9	5.0	39.9	5.8
73	HMP155_temp_3.75m_Std	°C	3.75 m	185,468	171,613	92.53	0.1	0.0	3.6	0.1
74	HMP155_RH_3.75m_Avg	%		185,468	173,588	93.59	80.37	-0.11	98.50	16.91
75	HMP155_RH_3.75m_Max	%		185,468	173,588	93.59	80.9	-0.1	108.6	16.8
76	HMP155_RH_3.75m_Min	%		185,468	173,588	93.59	79.92	-2.23	98.40	17.04
77	HMP155_RH_3.75m_Std	%		185,468	173,588	93.59	0.235	0.001	8.130	0.334
78	VBatt_Min	Volts		185,468	171,652	92.55	12.68	0.00	13.80	0.66
79	IBatt_Min	Amps		185,468	171,653	92.55	-0.008	-0.257	1.085	0.188
80	ILoad_Min			185,468	171,653	92.55	0.134	0.000	0.200	0.013
81	V_in_chg_Min			185,468	171,653	92.55	8.63	0.00	20.70	7.75
82	I_in_chg_Min			185,468	171,653	92.55	0.111	-0.004	1.174	0.158
83	Chg_TmpC_Avg	°C	2 m	185,468	171,653	92.55	27.3	0.0	46.6	7.7
84	Chg_State	Smp		185,468	171,653	92.55	0.923	0.000	3.000	1.153
85	Ck_Batt	Smp		185,468	171,653	92.55	0.016	0.000	1.000	0.126
86	BattV_Min	Volts		185,468	171,653	92.55	12.30	9.20	13.42	0.65
87	PTemp_C_Avg	°C	2 m	185,468	171,653	92.55	26.7	5.2	43.0	6.7
88	latitude_a	Smp		185,468	171,523	92.48	24	24	24	0
89	latitude_b	Smp		185,468	171,523	92.48	10.22	10.21	10.25	0.00
90	longitude_a	Smp		185,468	171,523	92.48	88	88	88	0
91	longitude_b	Smp		185,468	171,523	92.48	54.45	54.44	54.46	0.00
92	magnetic_variation	Smp		185,468	171,523	92.48	-0.4	-0.4	-0.4	0.0
93	fix_quality	Smp		185,468	171,523	92.48	2	1	2	0
94	nubr_satellites	Smp		185,468	171,523	92.48	9.19	5.00	12.00	0.89
95	altitude	Smp		185,468	171,523	92.48	14.69	-53.20	43.30	5.85
96	max_clock_change			185,468	171,523	92.48	-87	-1,050	300	300
97	nubr_clock_change	Smp		185,468	171,523	92.48	0.221	0.000	2.000	0.504
98	Air Density	kg/m³		185,468	185,468	100.00	1.179	1.099	1.246	0.032
99	WS_east_80.2m_Avg TI			185,468	151,777	81.83	0.20	0.02	20.25	0.50
100	WS_west_80.2m_Avg TI			185,468	135,084	72.83	0.23	0.02	23.33	0.67
101	WS_east_60.3m_Avg TI			185,468	167,097	90.09	0.20	0.02	19.50	0.33
102	WS_west_60.3m_Avg TI			185,468	153,755	82.90	0.21	0.02	20.00	0.36
103	WS_east_40.1m_Avg TI			185,468	163,714	88.27	0.25	0.03	23.67	0.53
104	WS_west_40.1m_Avg TI			185,468	144,783	78.06	0.26	0.03	24.00	0.60
105	WS_east_80.2m_Avg WPD	W/m²		185,468	156,625	84.45	74	0	9,929	131
106	WS_west_80.2m_Avg WPD	W/m²		185,468	139,729	75.34	79	0	9,814	141

#	Label	Units	Height	Possible Data Points	Valid Data Points	Recovery Rate (%)	Mean	Min	Max	Std. Dev
107	WS_east_60.3m_Avg WPD	W/m ²		185,468	167,785	90.47	58	0	8,835	100
108	WS_west_60.3m_Avg WPD	W/m ²		185,468	154,448	83.27	54	0	8,664	101
109	WS_east_40.1m_Avg WPD	W/m ²		185,468	165,813	89.40	38	0	7,570	71
110	WS_west_40.1m_Avg WPD	W/m ²		185,468	147,438	79.50	35	0	7,397	71