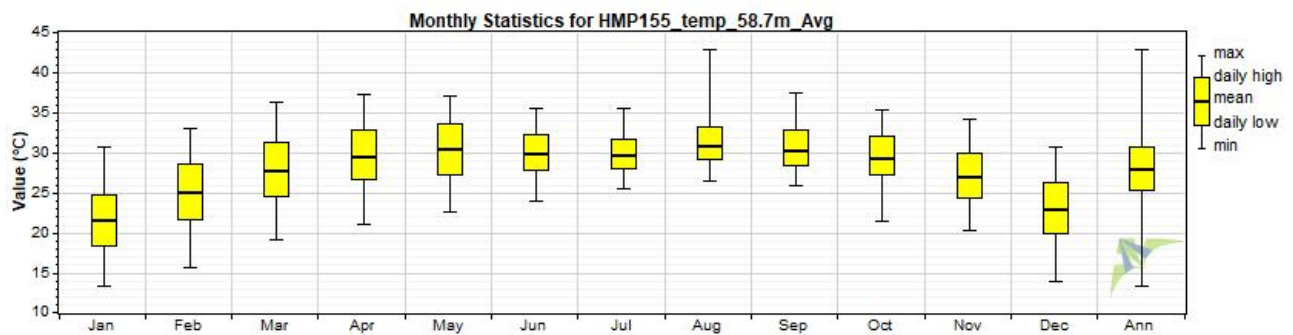


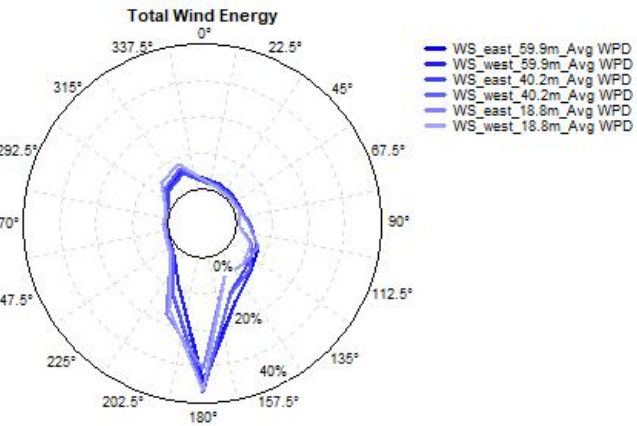
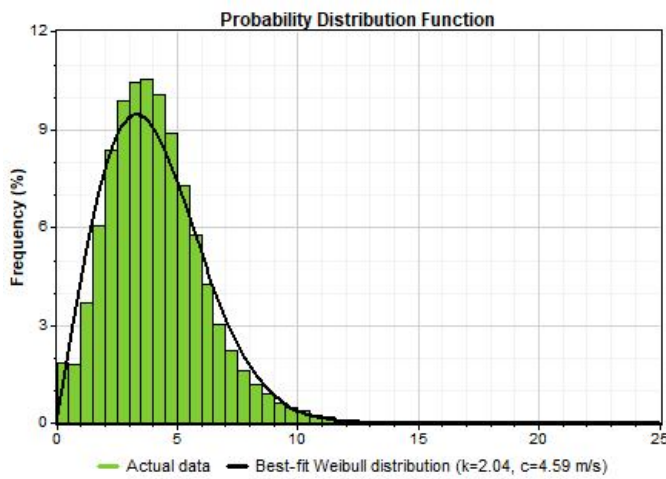
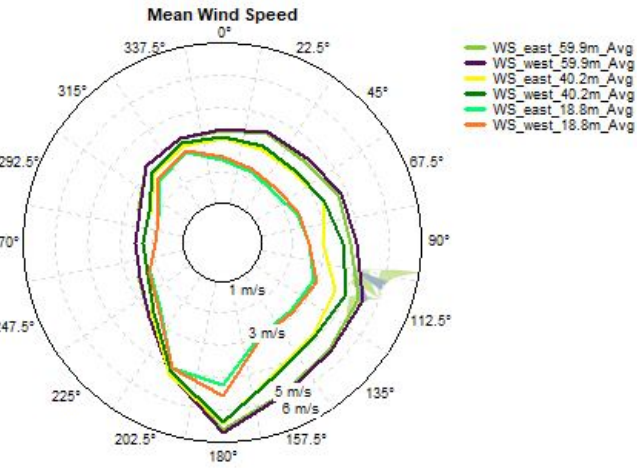
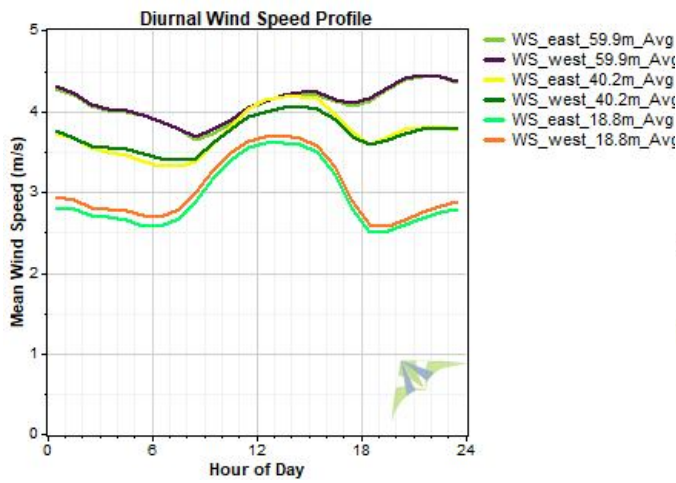
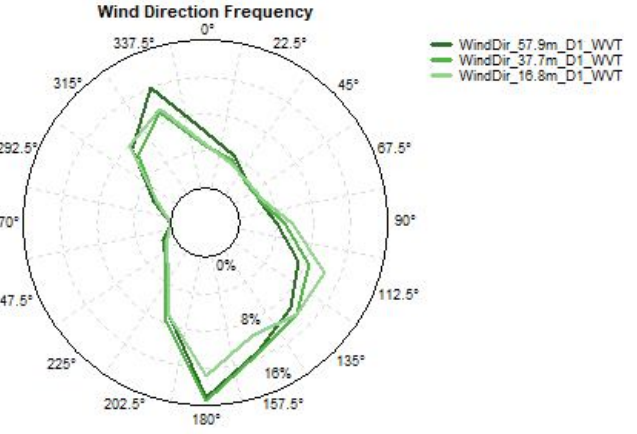
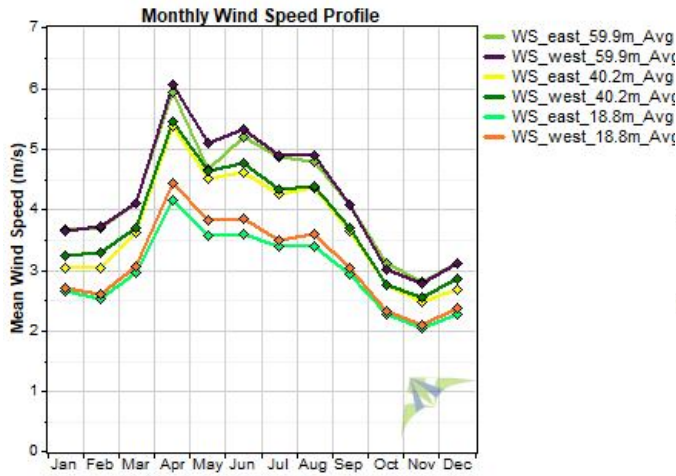
Data Set Properties

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

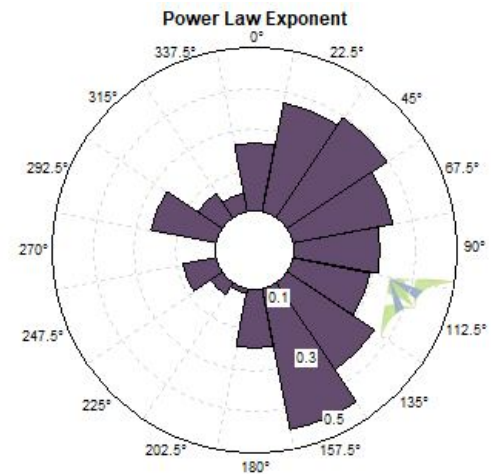
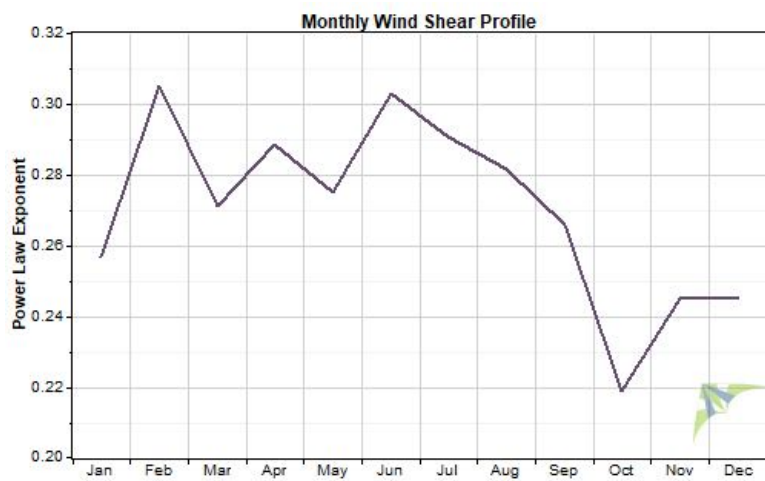
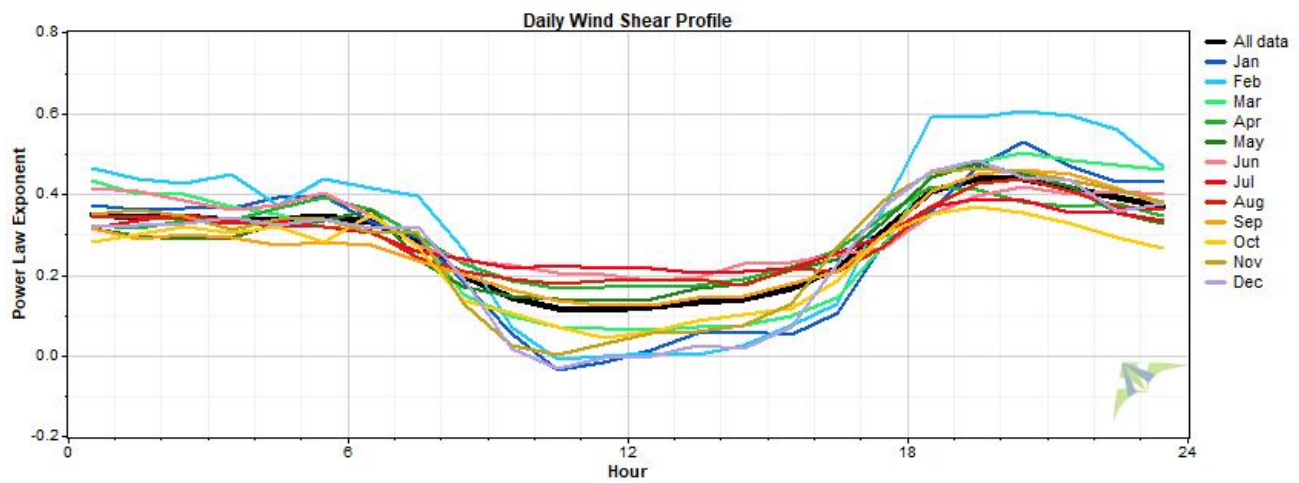
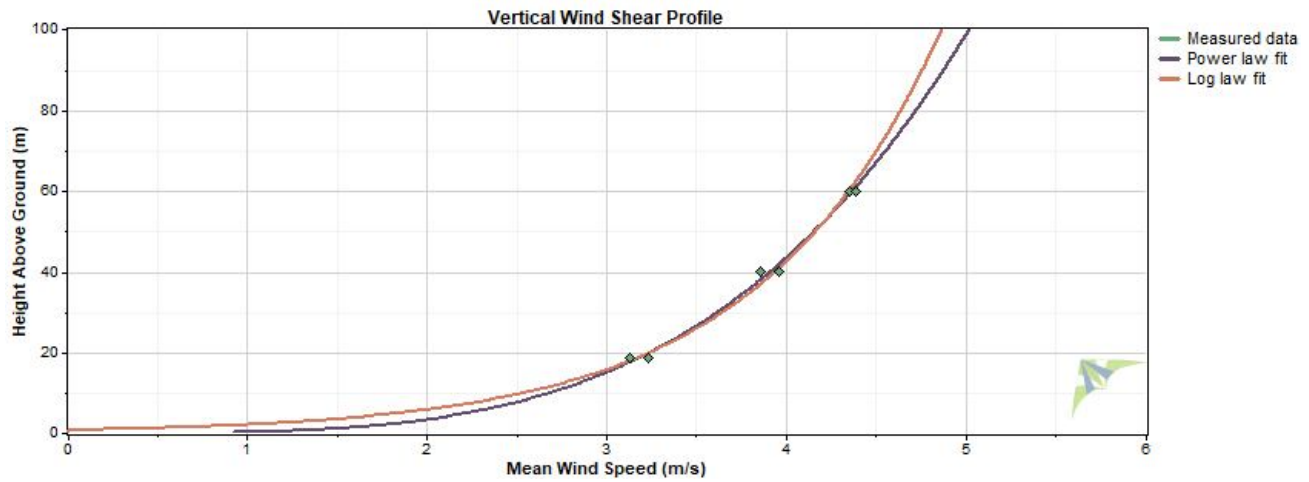
Variable	Value
Latitude	N 23.211160
Longitude	E 90.642370
Elevation	10 m
Start date	6/11/2014 00:10
End date	12/4/2017 12:00
Duration	3.5 years
Length of time step	10 minutes
Calm threshold	1 m/s
Mean temperature	27.9 °C
Mean pressure	1,002 mbar
Mean air density	1.171 kg/m ³
Power density at 50m	70 W/m ²
Wind power class	1
Power law exponent	0.273
Surface roughness	0.825 m
Roughness class	3.75



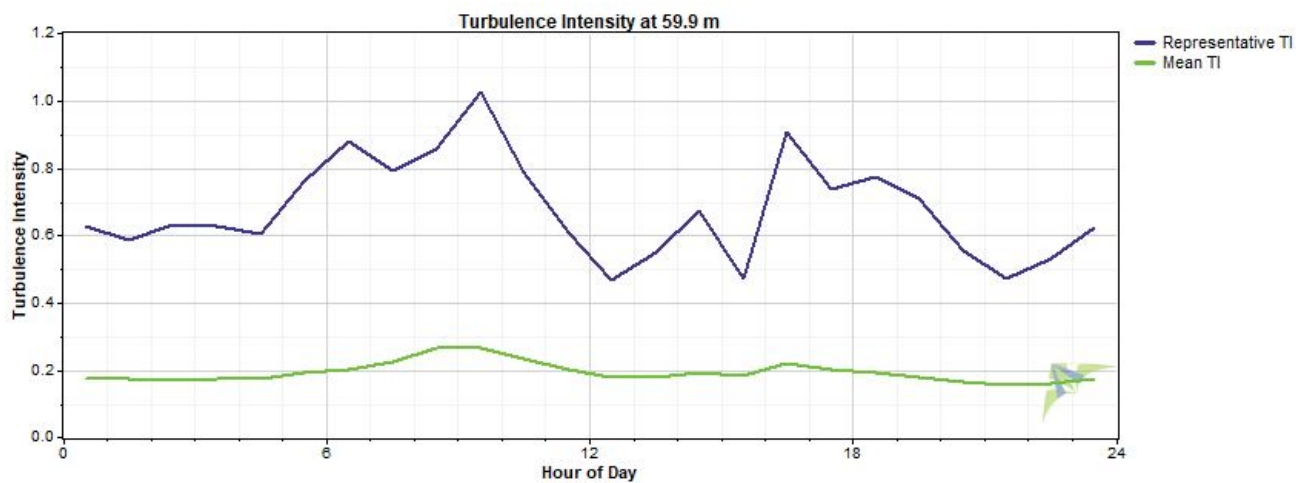
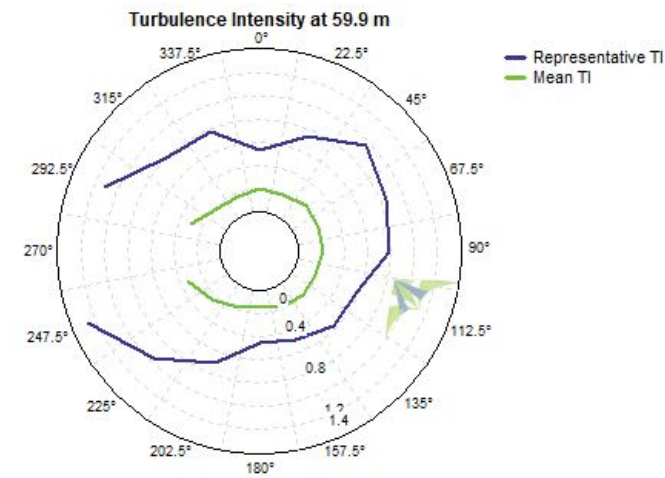
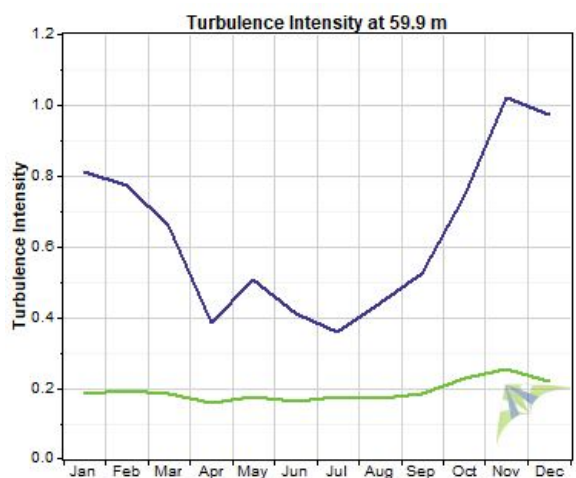
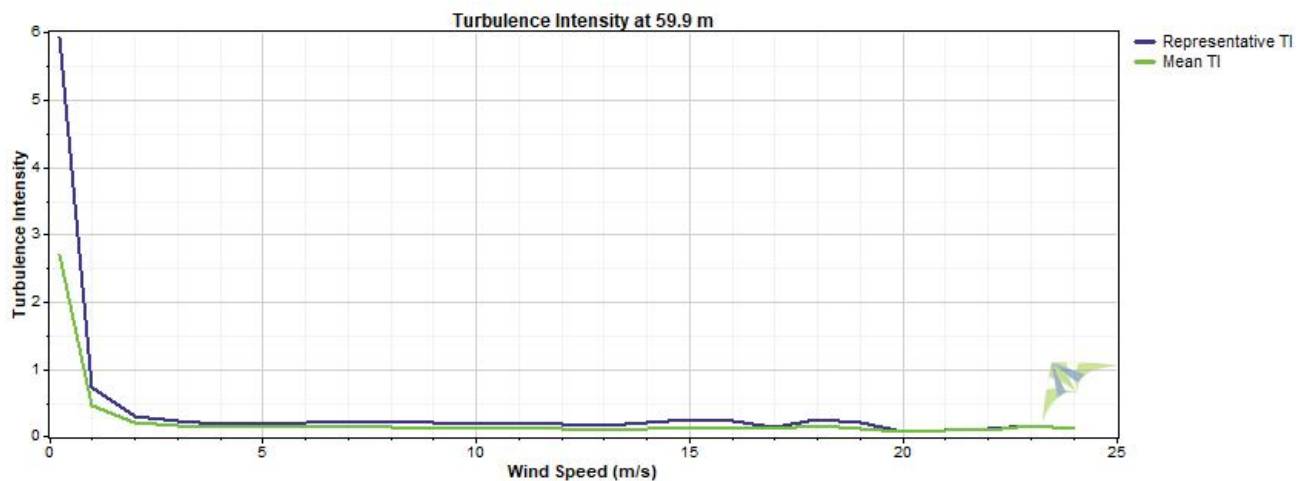
Wind Speed and Direction



Wind Shear



Turbulence Intensity



Data Column Properties

#	Label	Units	Height	Possible Data Points	Valid Data Points	Recovery Rate (%)	Mean	Min	Max	Std. Dev
1	RECORD	RN		183,239	146,725	80.07	24,627	0	58,583	16,934
2	WS_east_59.9m_Avg	m/s	59.9 m	183,239	141,776	77.37	4.093	0.000	23.920	2.042
3	WS_east_59.9m_Max	m/s	59.9 m	183,239	141,776	77.37	5.517	0.000	38.570	2.689
4	WS_east_59.9m_Min	m/s	59.9 m	183,239	141,776	77.37	2.631	0.000	17.860	1.577
5	WS_east_59.9m_Std	m/s	59.9 m	183,239	141,776	77.37	0.588	0.000	9.150	0.315
6	WS_west_59.9m_Avg	m/s	59.9 m	183,239	137,180	74.86	4.123	0.000	23.640	2.111
7	WS_west_59.9m_Max	m/s	59.9 m	183,239	137,180	74.86	5.539	0.000	37.000	2.753
8	WS_west_59.9m_Min	m/s	59.9 m	183,239	137,180	74.86	2.675	0.000	17.850	1.645
9	WS_west_59.9m_Std	m/s	59.9 m	183,239	137,180	74.86	0.584	0.000	9.030	0.316
10	WS_east_40.2m_Avg	m/s	40.2 m	183,239	117,312	64.02	3.728	0.000	23.220	2.028
11	WS_east_40.2m_Max	°C	40.2 m	183,239	117,312	64.02	5.310	0.000	34.760	2.787
12	WS_east_40.2m_Min	m/s	40.2 m	183,239	117,312	64.02	2.111	0.000	17.100	1.521
13	WS_east_40.2m_Std	°C	40.2 m	183,239	117,312	64.02	0.644	0.000	7.426	0.379
14	WS_west_40.2m_Avg	m/s	40.2 m	183,239	135,817	74.12	3.720	0.000	23.090	1.924
15	WS_west_40.2m_Max	m/s	40.2 m	183,239	135,817	74.12	5.200	0.000	36.350	2.623
16	WS_west_40.2m_Min	m/s	40.2 m	183,239	135,817	74.12	2.240	0.000	17.130	1.459
17	WS_west_40.2m_Std	°C	40.2 m	183,239	135,817	74.12	0.601	0.000	8.830	0.328
18	WS_east_18.8m_Avg	m/s	18.8 m	183,239	138,999	75.86	2.943	0.000	22.040	1.663
19	WS_east_18.8m_Max	m/s	18.8 m	183,239	138,999	75.86	4.596	0.000	32.370	2.446
20	WS_east_18.8m_Min	°C	18.8 m	183,239	138,999	75.86	1.350	0.000	16.290	1.164
21	WS_east_18.8m_Std	m/s	18.8 m	183,239	138,999	75.86	0.652	0.000	8.060	0.354
22	WS_west_18.8m_Avg	m/s	18.8 m	183,239	132,676	72.41	3.047	0.000	21.980	1.750
23	WS_west_18.8m_Max	m/s	18.8 m	183,239	132,676	72.41	4.641	0.000	32.590	2.496
24	WS_west_18.8m_Min	m/s	18.8 m	183,239	132,676	72.41	1.535	0.000	16.400	1.284
25	WS_west_18.8m_Std	m/s	18.8 m	183,239	132,676	72.41	0.627	0.000	7.951	0.342
26	WindDir_57.9m_D1_WVT	°	57.8 m	183,239	146,725	80.07	153.1	0.0	360.0	99.0
27	WindDir_57.9m_SD1_WVT	°	57.8 m	183,239	146,725	80.07	6.5	0.0	79.6	5.9
28	WindDir_37.7m_D1_WVT	°	37.7 m	183,239	146,725	80.07	155.9	-7,999.0	360.0	133.6
29	WindDir_37.7m_SD1_WVT	°	37.7 m	183,239	146,725	80.07	7.9	0.0	79.3	6.3
30	WindDir_16.8m_D1_WVT	°	16.8 m	183,239	146,725	80.07	153.2	0.0	360.0	98.2
31	WindDir_16.8m_SD1_WVT	°	16.8 m	183,239	146,725	80.07	9.4	0.0	79.8	7.4
32	RTD_temp_C_58m_Avg	°C	58 m	183,239	1,780	0.97	27.8	15.6	34.4	2.2
33	RTD_temp_C_58m_Max	°C	58 m	183,239	1,780	0.97	28.0	16.6	34.8	2.2
34	RTD_temp_C_58m_Min	°C	58 m	183,239	1,780	0.97	27.7	12.8	34.0	2.2
35	RTD_temp_C_58m_Std	°C	58 m	183,239	1,780	0.97	0.1	0.0	2.5	0.1
36	RTD_temp_C_3.7m_Avg	°C	3.65 m	183,239	103,119	56.28	23.8	9.5	33.8	4.4
37	RTD_temp_C_3.7m_Max	°C	3.65 m	183,239	103,119	56.28	23.9	9.9	34.1	4.4
38	RTD_temp_C_3.7m_Min	°C	3.65 m	183,239	103,119	56.28	23.6	9.3	33.5	4.4
39	RTD_temp_C_3.7m_Std	°C	3.65 m	183,239	103,119	56.28	0.1	0.0	2.8	0.1
40	HMP155_temp_58.7m_Avg	°C	58.7 m	183,239	146,723	80.07	27.9	13.2	42.9	3.9
41	HMP155_temp_58.7m_Max	°C	58.7 m	183,239	146,723	80.07	31.0	15.9	53.2	4.3
42	HMP155_temp_58.7m_Min	°C	58.7 m	183,239	146,723	80.07	26.7	-83.0	38.6	3.8
43	HMP155_temp_58.7m_Std	°C	58.7 m	183,239	146,723	80.07	1.1	0.8	12.7	0.3
44	HMP155_RH_58.7m_Avg	%		183,239	146,287	79.83	82.1	14.1	100.5	16.8
45	HMP155_RH_58.7m_Max	%		183,239	146,287	79.83	84.9	16.6	108.9	15.9
46	HMP155_RH_58.7m_Min	%		183,239	146,287	79.83	80.2	-0.0	100.0	17.5
47	HMP155_RH_58.7m_Std	%		183,239	146,287	79.83	1.00	0.00	33.70	0.81
48	Hmp155_temp_4.5m_Avg	°C	4.45 m	183,239	103,117	56.27	24.8	10.8	34.6	4.4
49	Hmp155_temp_4.5m_Max	°C	4.45 m	183,239	103,117	56.27	25.2	11.3	35.2	4.4
50	Hmp155_temp_4.5m_Min	°C	4.45 m	183,239	103,117	56.27	24.5	10.5	34.4	4.4
51	Hmp155_temp_4.5m_Std	°C	4.45 m	183,239	103,117	56.27	0.1	0.1	2.7	0.1
52	HMP155_RH_4.5m_Avg	%		183,239	146,725	80.07	85.9	15.3	100.0	12.4

#	Label	Units	Height	Possible Data Points	Valid Data Points	Recovery Rate (%)	Mean	Min	Max	Std. Dev
53	HMP155_RH_4.5m_Max	%		183,239	146,725	80.07	87.4	17.2	100.0	11.4
54	HMP155_RH_4.5m_Min	%		183,239	146,725	80.07	84.5	-0.0	100.0	13.4
55	HMP155_RH_4.5m_Std	%		183,239	146,725	80.07	0.68	0.00	37.49	0.72
56	BP_58.2m_Avg	mbar	58.3 m	183,239	146,724	80.07	1,002.4	972.5	1,021.0	5.5
57	BP_58.2m_Max	mbar	58.3 m	183,239	146,724	80.07	1,002.5	974.5	1,022.0	5.4
58	BP_58.2m_Min	mbar	58.3 m	183,239	146,724	80.07	1,002.3	970.5	1,020.5	5.5
59	BP_58.2m_Std	mbar	58.3 m	183,239	146,724	80.07	0.1	0.0	18.1	0.2
60	BP_3.4m_Avg	mbar	3.4 m	183,239	146,724	80.07	1,008.0	989.5	1,022.0	5.6
61	BP_3.4m_Max	mbar	3.4 m	183,239	146,724	80.07	1,008.1	990.0	1,022.0	5.6
62	BP_3.4m_Min	mbar	3.4 m	183,239	146,724	80.07	1,007.9	989.5	1,022.0	5.6
63	BP_3.4m_Std	mbar	3.4 m	183,239	146,724	80.07	0.1	0.0	3.8	0.1
64	SlrW_Avg	W/m^2		183,239	14,383	7.85	16	-7,999	1,006	256
65	SlrW_Max			183,239	14,383	7.85	21	-7,999	1,218	265
66	SlrW_Min			183,239	14,383	7.85	12	-7,999	916	249
67	SlrW_Std			183,239	14,383	7.85	-4	-7,999	342	232
68	VWC_Avg	m^3/m^3		183,239	146,725	80.07	2.58	0.01	32.33	7.72
69	VWC_Max			183,239	146,725	80.07	2.58	0.09	32.35	7.73
70	VWC_Min			183,239	146,725	80.07	2.57	0.00	32.31	7.71
71	VWC_Std			183,239	146,725	80.07	0.00	0.00	11.02	0.03
72	SoilT_Avg	°C	0 m	183,239	146,725	80.07	92.8	0.5	903.0	230.3
73	SoilT_Max	°C	0 m	183,239	146,725	80.07	92.8	18.3	903.0	230.2
74	SoilT_Min	°C	0 m	183,239	146,725	80.07	25.8	0.0	36.5	4.8
75	SoilT_Std	°C	0 m	183,239	146,725	80.07	0.0	-0.2	12.3	0.1
76	LWmV_Avg	mV		183,239	146,725	80.07	832.0	0.0	914.0	238.1
77	LWmV	mV		183,239	146,725	80.07	832.6	0.0	914.0	235.9
78	VBatt_Min	Volts		183,239	144,709	78.97	12.25	-0.00	17.81	3.56
79	IBatt_Min	Amps		183,239	144,709	78.97	2.24	-0.20	39.10	7.94
80	ILoad_Min			183,239	144,709	78.97	0.199	0.000	3.000	0.476
81	V_in_chg_Min			183,239	144,709	78.97	8.87	0.00	21.33	8.55
82	I_in_chg_Min			183,239	144,709	78.97	1.05	-0.00	13.72	3.40
83	Chg_TmpC_Avg	°C	2 m	183,239	144,709	78.97	27.0	0.0	43.7	5.7
84	Chg_State	Smp		183,239	144,709	78.97	2.96	0.00	23.00	5.93
85	Ck_Batt	Smp		183,239	144,709	78.97	0.97	0.00	12.68	3.38
86	BattV_Min	Volts		183,239	144,709	78.97	18.83	11.87	90.00	20.52
87	PTemp_C_Avg	°C	2 m	183,239	144,709	78.97	27.7	10.8	43.0	6.0
88	latitude_a	Smp		183,239	144,709	78.97	21.20	-0.50	23.00	6.27
89	latitude_b	Smp		183,239	144,709	78.97	11.85	2.00	12.68	2.83
90	longitude_a	Smp		183,239	144,709	78.97	83.78	5.00	90.00	21.62
91	longitude_b	Smp		183,239	144,709	78.97	36.25	-12.70	38.55	8.10
92	magnetic_variation	Smp		183,239	144,709	78.97	225	-1	7,999	1,324
93	fix_quality	Smp		183,239	144,709	78.97	1.903	0.000	2.000	0.430
94	nubr_satellites	Smp		183,239	144,709	78.97	9.07	5.00	12.00	0.92
95	altitude	Smp		183,239	144,709	78.97	8.37	-28.60	36.60	6.08
96	max_clock_change			183,239	144,709	78.97	467	-1,020	7,999	2,464
97	nubr_clock_change	Smp		183,239	144,709	78.97	0.819	0.000	5.000	1.260
98	Air Density	kg/m³		183,239	183,239	100.00	1.171	1.095	1.231	0.029
99	WS_east_59.9m_Avg TI			183,239	140,765	76.82	0.19	0.03	20.00	0.39
100	WS_west_59.9m_Avg TI			183,239	136,263	74.36	0.20	0.03	20.50	0.42
101	WS_east_40.2m_Avg TI			183,239	113,461	61.92	0.24	0.03	19.50	0.57
102	WS_west_40.2m_Avg TI			183,239	135,121	73.74	0.22	0.04	20.00	0.42
103	WS_east_18.8m_Avg TI			183,239	136,257	74.36	0.32	0.05	19.50	0.61
104	WS_west_18.8m_Avg TI			183,239	131,440	71.73	0.30	0.05	20.00	0.59
105	WS_east_59.9m_Avg WPD	W/m²		183,239	141,776	77.37	73	0	8,049	142
106	WS_west_59.9m_Avg WPD	W/m²		183,239	137,180	74.86	77	0	7,764	153

#	Label	Units	Height	Possible Data Points	Valid Data Points	Recovery Rate (%)	Mean	Min	Max	Std. Dev
107	WS_east_40.2m_Avg WPD	W/m ²		183,239	117,312	64.02	61	0	7,363	134
108	WS_west_40.2m_Avg WPD	W/m ²		183,239	135,817	74.12	58	0	7,240	127
109	WS_east_18.8m_Avg WPD	W/m ²		183,239	138,999	75.86	32	0	6,297	87
110	WS_west_18.8m_Avg WPD	W/m ²		183,239	132,676	72.41	37	0	6,245	97