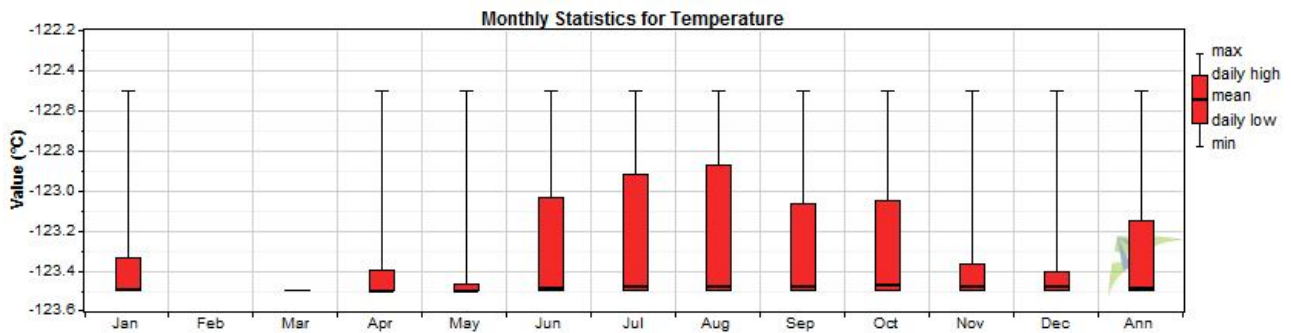


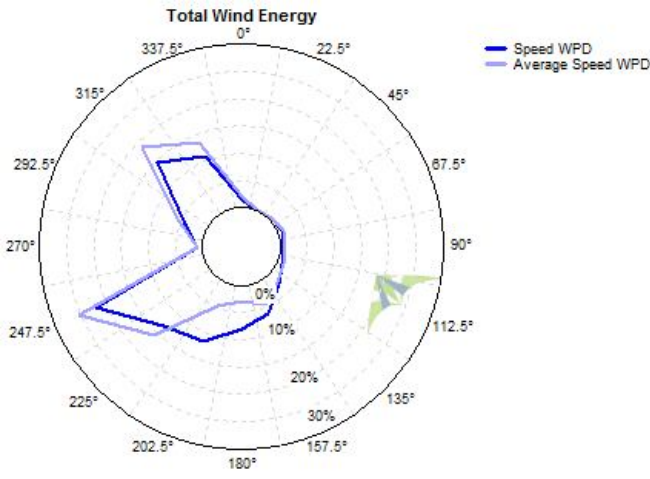
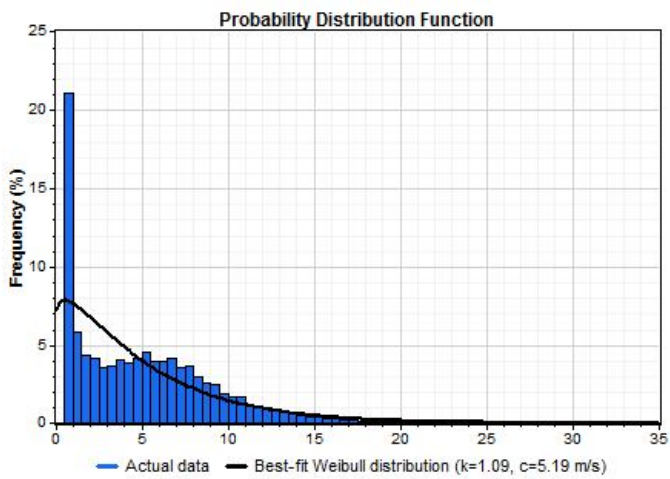
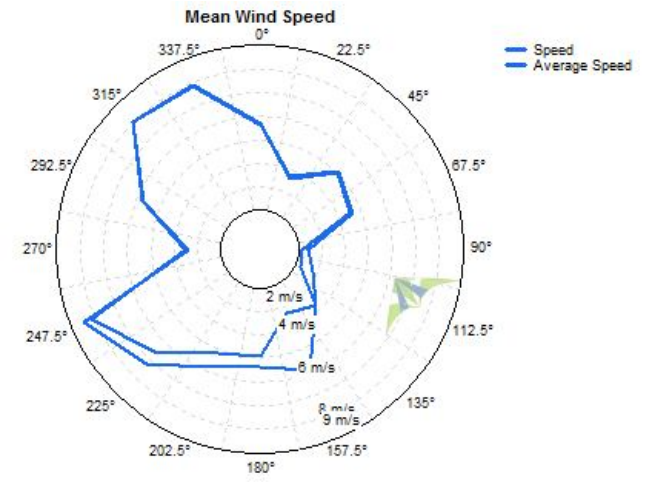
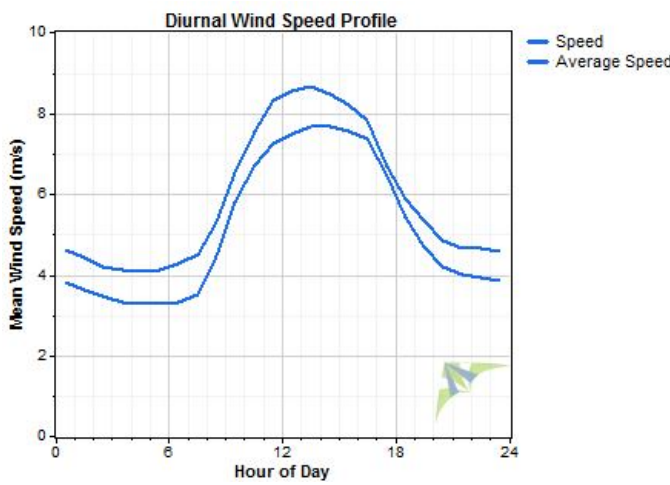
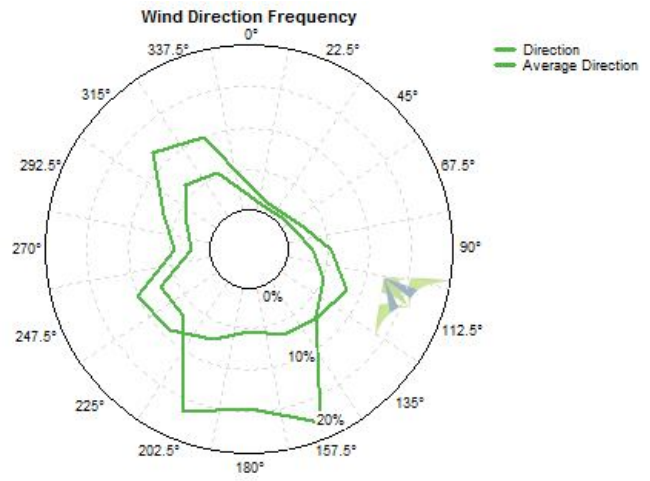
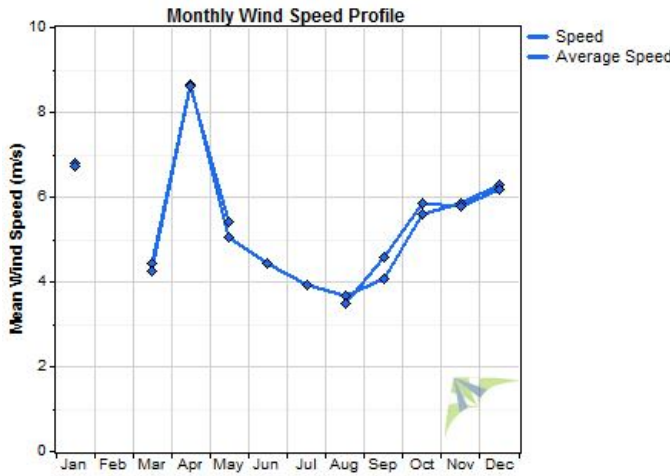
Data Set Properties

Report Created: 9/23/2016 09:51 using Windographer 3.3.11
 Filter Settings: <Unflagged data>

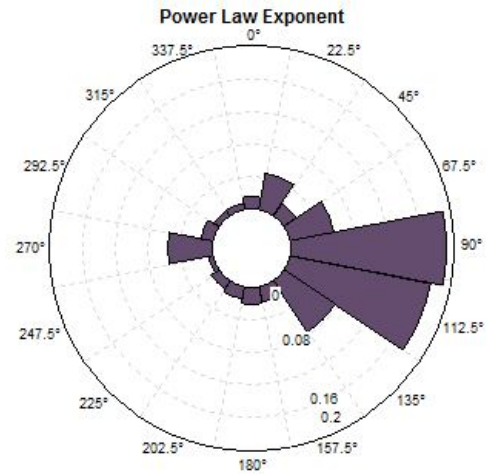
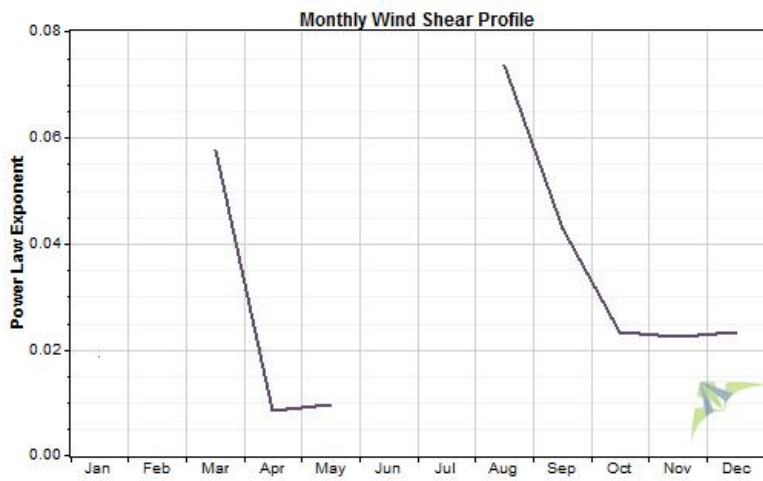
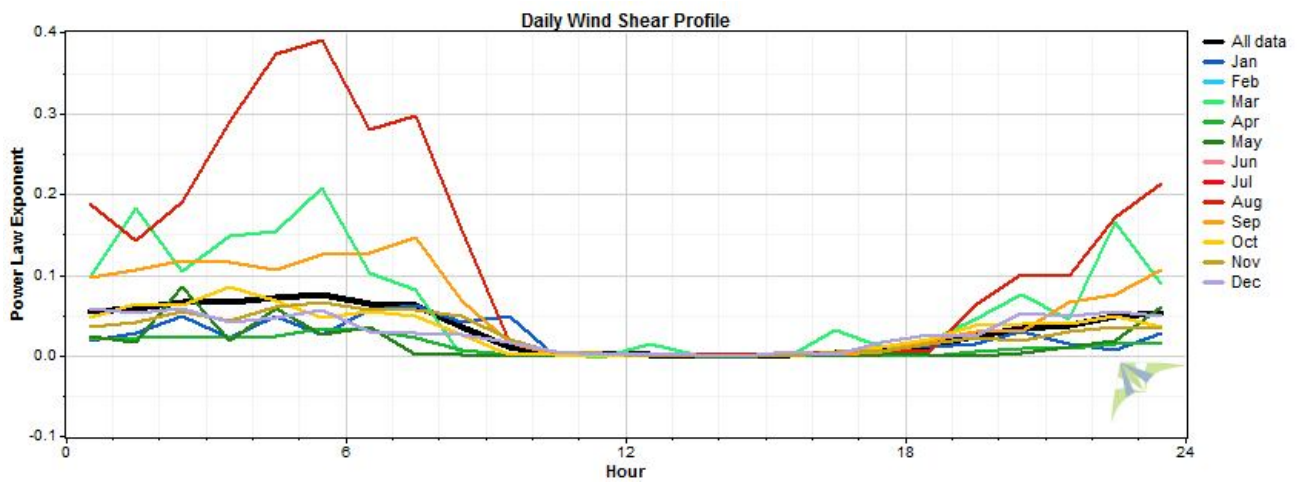
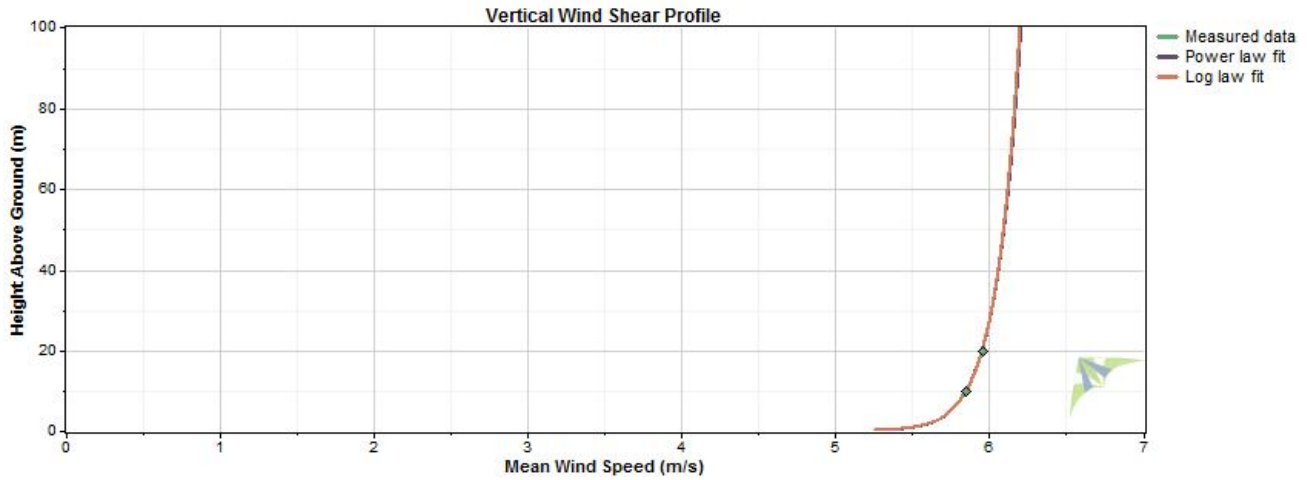
Variable	Value
Latitude	S 0.000000
Longitude	W 0.000000
Elevation	0 m
Start date	8/9/2006 19:50
End date	10/7/2007 16:00
Duration	14 months
Length of time step	10 minutes
Calm threshold	0 m/s
Mean temperature	-123 °C
Mean pressure	101.1 kPa
Mean air density	2.136 kg/m ³
Power density at 50m	409 W/m ²
Wind power class	4 (Good)
Power law exponent	0.0259
Surface roughness	0 m
Roughness class	0.00



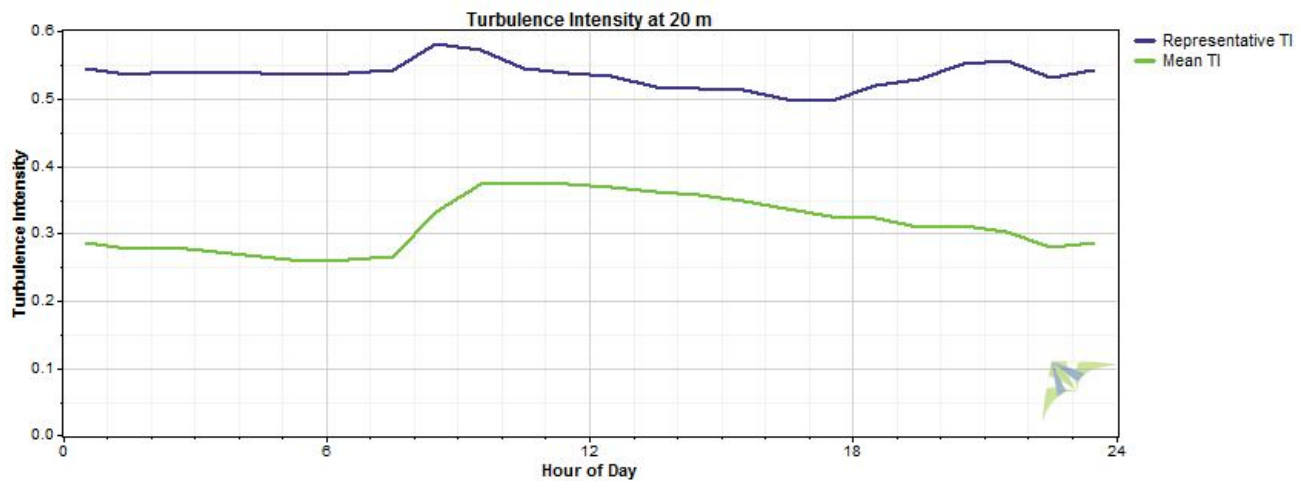
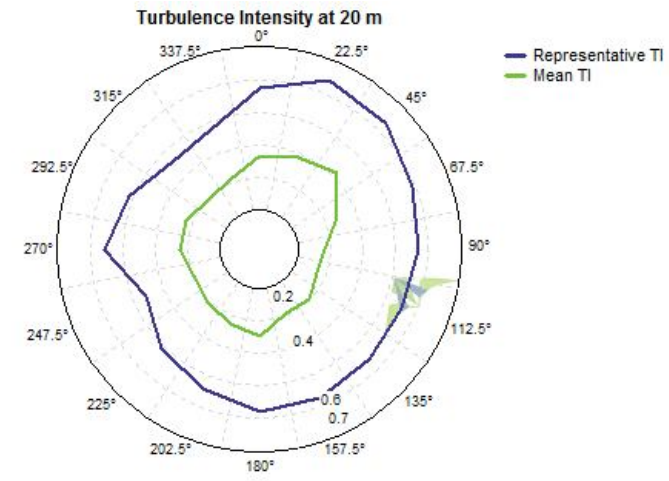
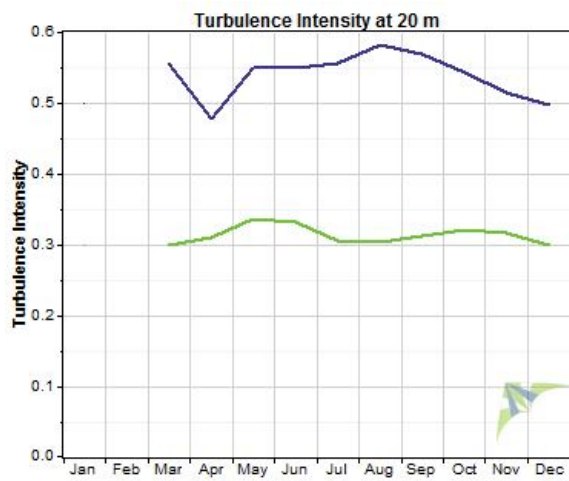
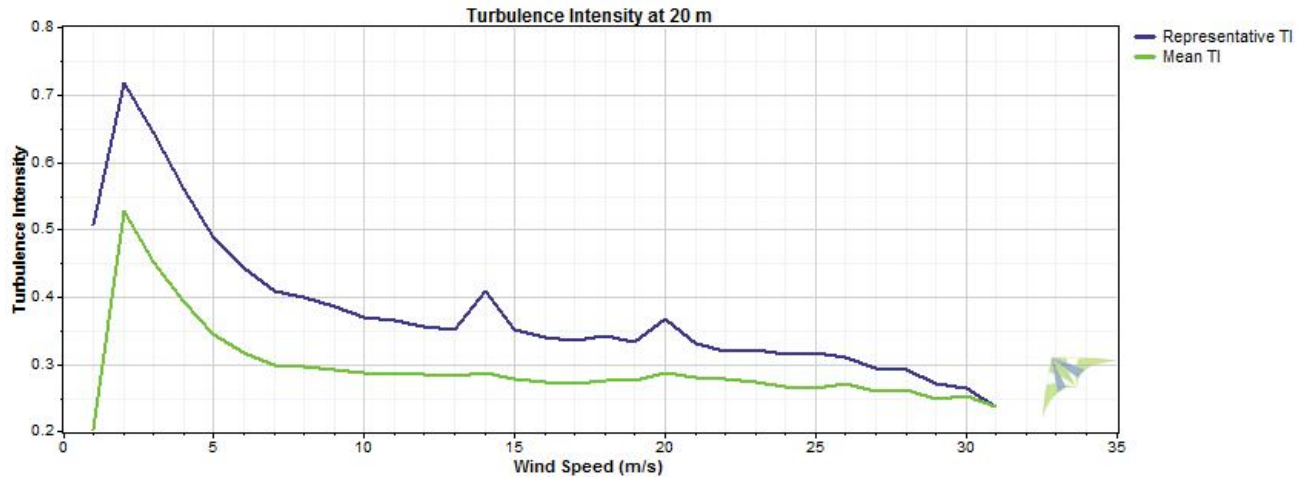
Wind Speed and Direction



Wind Shear



Turbulence Intensity



Environmental Summary

	Mean	Min	Max
Temperature (°C)	-123.5	-123.5	-122.5
Pressure (kPa)			
Air Density (kg/m ³)	2.14	1.22	2.35

Wind Speed Sensor Summary

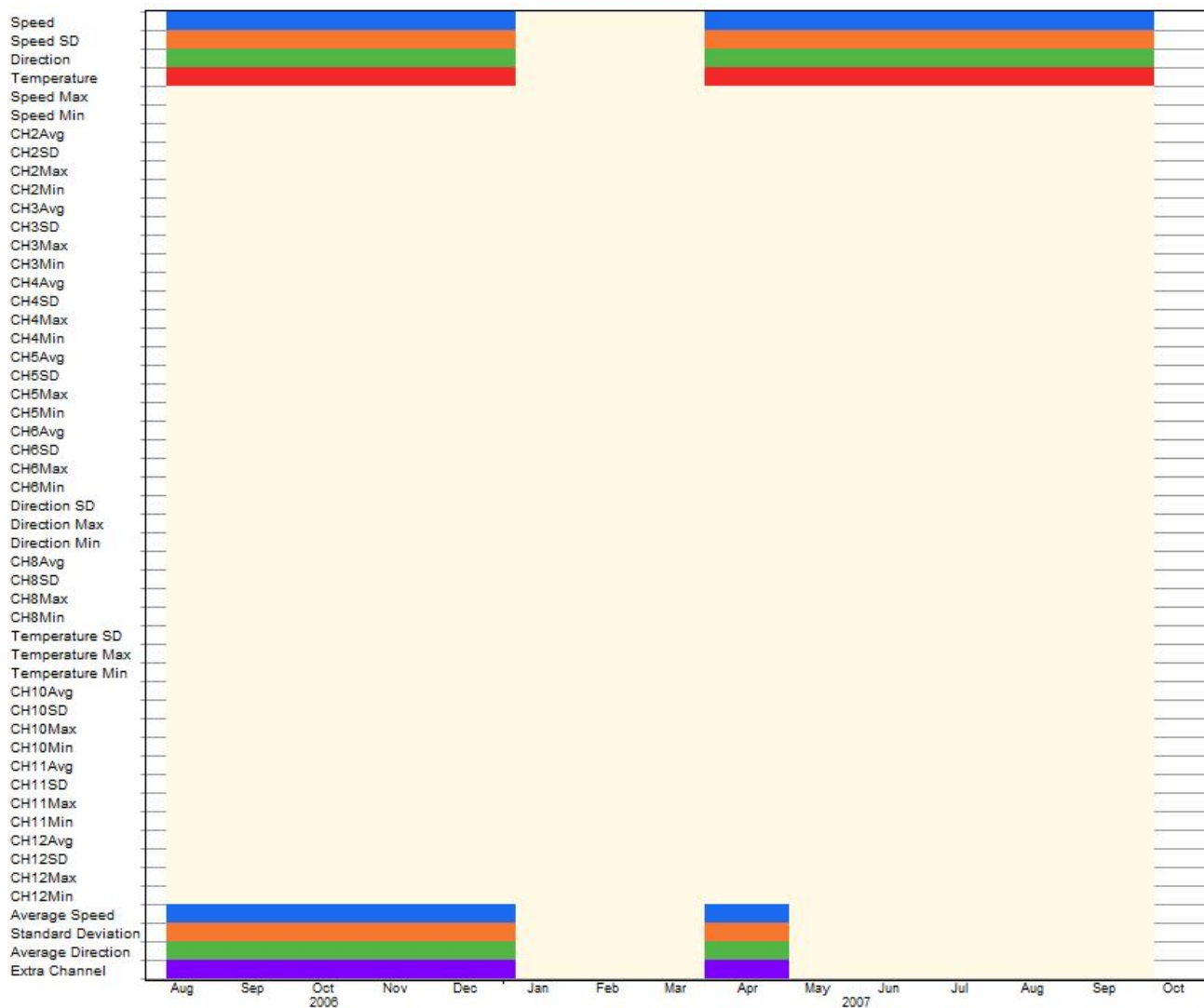
Variable	Speed	Average Speed
Measurement height (m)	20	10
Mean wind speed (m/s)	5.092	5.848
MoMM wind speed (m/s)	5.299	5.848
Median wind speed (m/s)	4.469	5.400
Min wind speed (m/s)	0.780	0.000
Max wind speed (m/s)	31.311	31.300
Weibull k	1.091	1.148
Weibull c (m/s)	5.185	6.175
Mean power density (W/m ²)	538	785
MoMM power density (W/m ²)	592	785
Mean energy content (kWh/m ² /yr)	4,712	6,873
MoMM energy content (kWh/m ² /yr)	5,189	6,873
Energy pattern factor	3.463	3.336
Frequency of calms (%)	0.00	13.44
Possible data points	61,033	61,033
Valid data points	49,359	26,851
Missing data points	11,674	34,182
Data recovery rate (%)	80.87	43.99

Flag Statistics

	Data Column	Time Steps Flagged As <Unflagged data>
1	Speed	49,359
2	Speed SD	49,359
3	Direction	49,359
4	Temperature	49,359
5	Speed Max	0
6	Speed Min	0
7	CH2Avg	0
8	CH2SD	0
9	CH2Max	0
10	CH2Min	0
11	CH3Avg	0
12	CH3SD	0
13	CH3Max	0
14	CH3Min	0
15	CH4Avg	0
16	CH4SD	0
17	CH4Max	0
18	CH4Min	0
19	CH5Avg	0
20	CH5SD	0
21	CH5Max	0
22	CH5Min	0
23	CH6Avg	0
24	CH6SD	0
25	CH6Max	0
26	CH6Min	0
27	Direction SD	0
28	Direction Max	0
29	Direction Min	0
30	CH8Avg	0
31	CH8SD	0
32	CH8Max	0
33	CH8Min	0
34	Temperature SD	0
35	Temperature Max	0
36	Temperature Min	0
37	CH10Avg	0
38	CH10SD	0
39	CH10Max	0
40	CH10Min	0
41	CH11Avg	0
42	CH11SD	0
43	CH11Max	0
44	CH11Min	0
45	CH12Avg	0
46	CH12SD	0
47	CH12Max	0
48	CH12Min	0
49	Average Speed	26,851
50	Standard Deviation	26,851
51	Average Direction	26,851
52	Extra Channel	26,851

Data Column		Time Steps Flagged As <Unflagged data>
53	Air Density	61,033
54	Speed TI	49,359
55	Average Speed TI	23,243
56	Speed WPD	49,359
57	Average Speed WPD	26,851

Data Coverage



Data Column Properties

#	Label	Units	Height	Possible Data Points	Valid Data Points	Recovery Rate (%)	Mean	Min	Max	Std. Dev
1	Speed	m/s	20 m	61,033	49,359	80.87	5.092	0.780	31.311	4.066
2	Speed SD	m/s	20 m	61,033	49,359	80.87	1.604	0.000	13.634	1.244
3	Direction	°	20 m	61,033	49,359	80.87	216.5	0.0	338.0	72.7
4	Temperature	°C	20 m	61,033	49,359	80.87	-123.5	-123.5	-122.5	0.1
5	Speed Max	mph		61,033	0	0.00				
6	Speed Min	mph		61,033	0	0.00				
7	CH2Avg			61,033	0	0.00				
8	CH2SD			61,033	0	0.00				
9	CH2Max			61,033	0	0.00				
10	CH2Min			61,033	0	0.00				
11	CH3Avg			61,033	0	0.00				
12	CH3SD			61,033	0	0.00				
13	CH3Max			61,033	0	0.00				
14	CH3Min			61,033	0	0.00				
15	CH4Avg			61,033	0	0.00				
16	CH4SD			61,033	0	0.00				
17	CH4Max			61,033	0	0.00				
18	CH4Min			61,033	0	0.00				
19	CH5Avg			61,033	0	0.00				
20	CH5SD			61,033	0	0.00				
21	CH5Max			61,033	0	0.00				
22	CH5Min			61,033	0	0.00				
23	CH6Avg			61,033	0	0.00				
24	CH6SD			61,033	0	0.00				
25	CH6Max			61,033	0	0.00				
26	CH6Min			61,033	0	0.00				
27	Direction SD	°		61,033	0	0.00				
28	Direction Max	°		61,033	0	0.00				
29	Direction Min	°		61,033	0	0.00				
30	CH8Avg			61,033	0	0.00				
31	CH8SD			61,033	0	0.00				
32	CH8Max			61,033	0	0.00				
33	CH8Min			61,033	0	0.00				
34	Temperature SD	°C		61,033	0	0.00				
35	Temperature Max	°C		61,033	0	0.00				
36	Temperature Min	°C		61,033	0	0.00				
37	CH10Avg			61,033	0	0.00				
38	CH10SD			61,033	0	0.00				
39	CH10Max			61,033	0	0.00				
40	CH10Min			61,033	0	0.00				
41	CH11Avg			61,033	0	0.00				
42	CH11SD			61,033	0	0.00				
43	CH11Max			61,033	0	0.00				
44	CH11Min			61,033	0	0.00				
45	CH12Avg			61,033	0	0.00				
46	CH12SD			61,033	0	0.00				
47	CH12Max			61,033	0	0.00				
48	CH12Min			61,033	0	0.00				
49	Average Speed	m/s	10 m	61,033	26,851	43.99	5.848	0.000	31.300	4.678
50	Standard Deviation	m/s	10 m	61,033	26,851	43.99	1.837	0.000	13.630	1.369
51	Average Direction	°	10 m	61,033	26,851	43.99	266.2	0.0	338.0	93.4
52	Extra Channel			61,033	26,851	43.99	-123.5	-123.5	-122.5	0.2

#	Label	Units	Height	Possible Data Points	Valid Data Points	Recovery Rate (%)	Mean	Min	Max	Std. Dev
53	Air Density	kg/m ³		61,033	61,033	100.00	2.136	1.222	2.352	0.444
54	Speed TI			61,033	49,359	80.87	0.31	0.00	1.26	0.18
55	Average Speed TI			61,033	23,243	38.08	0.36	0.09	1.14	0.13
56	Speed WPD	W/m ²		61,033	49,359	80.87	538	1	36,104	1,371
57	Average Speed WPD	W/m ²		61,033	26,851	43.99	785	0	36,067	1,772