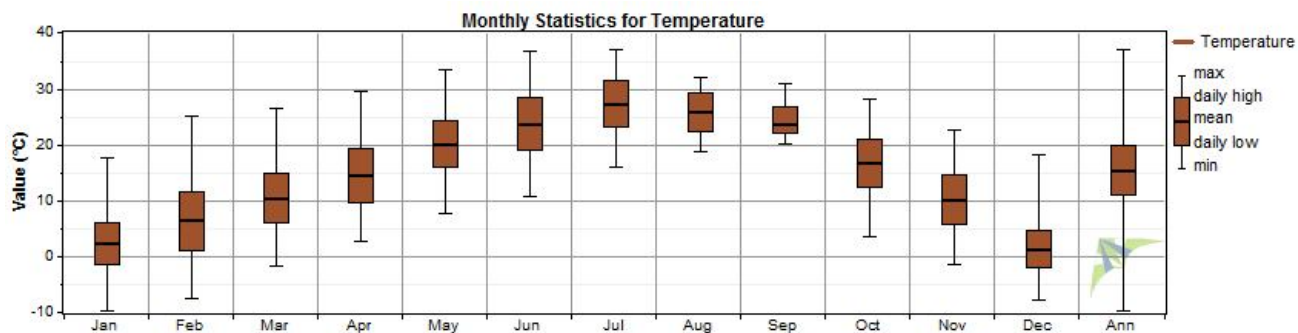


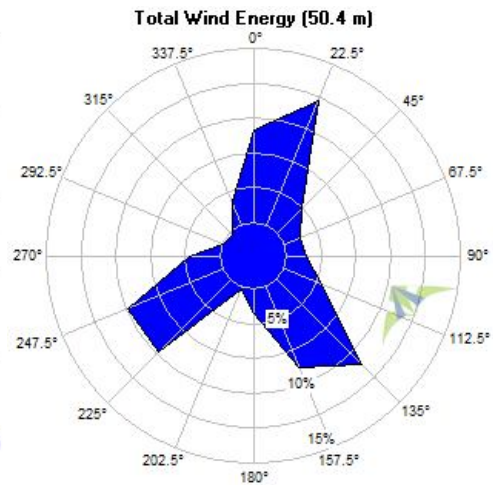
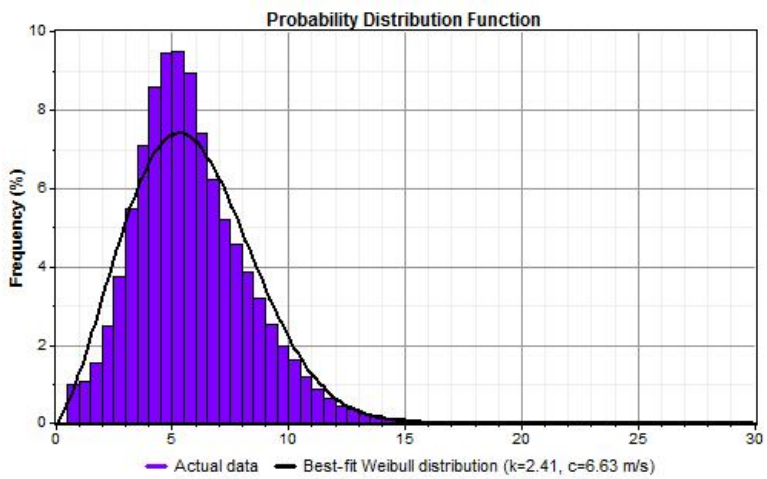
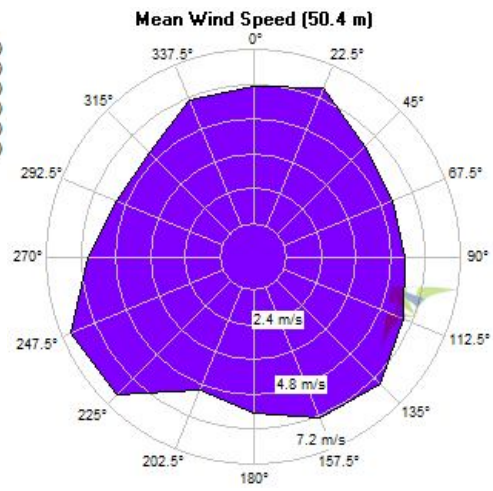
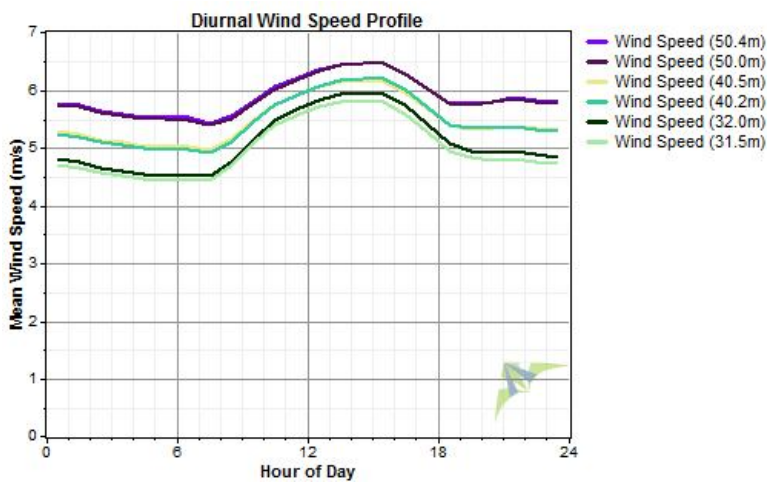
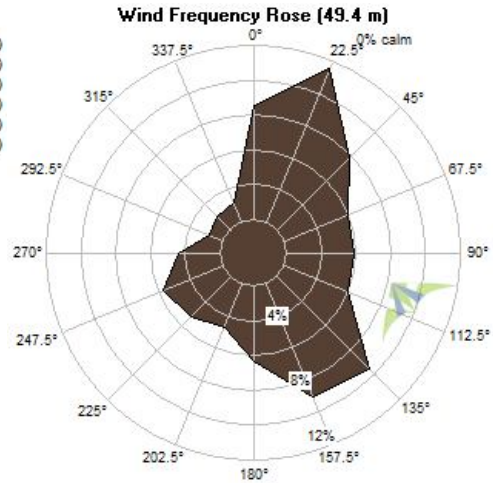
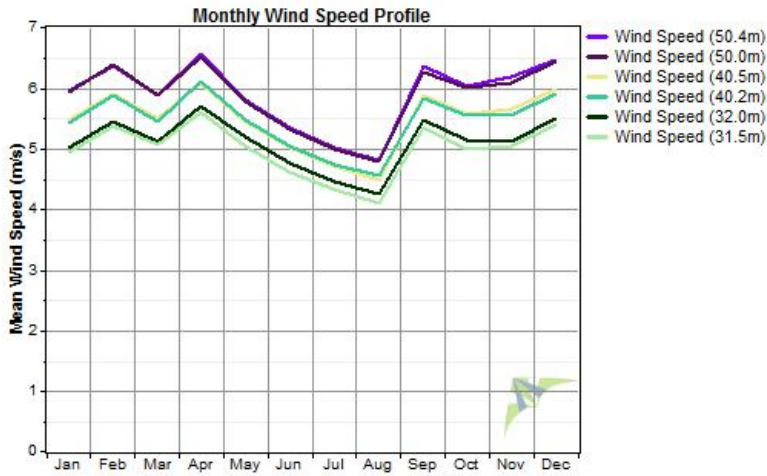
Data Set Properties

Report Created: 1/18/2013 09:58 using Windographer 2.4.8
 Filter Settings: <Unflagged data>

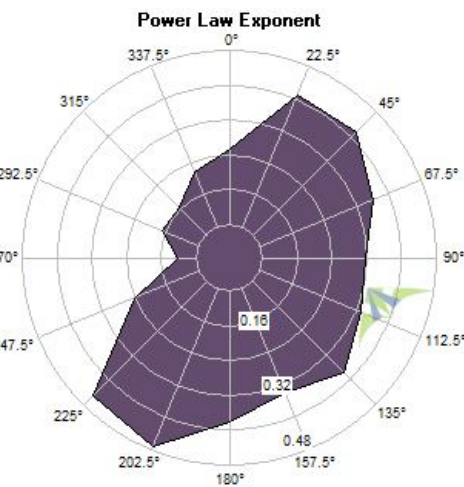
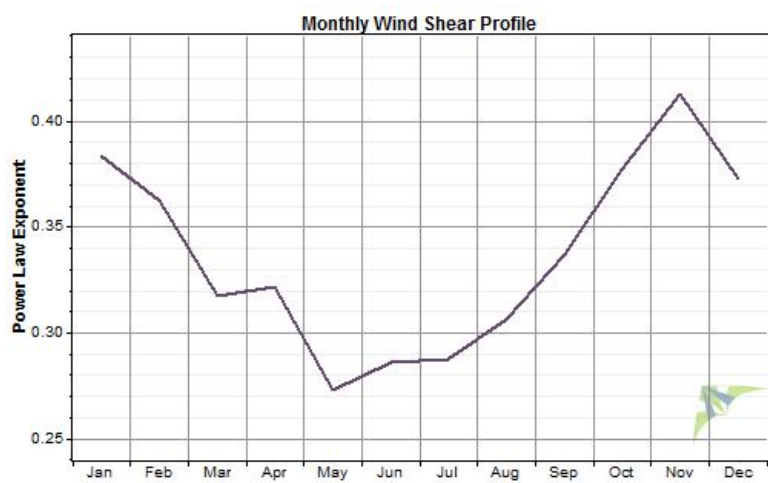
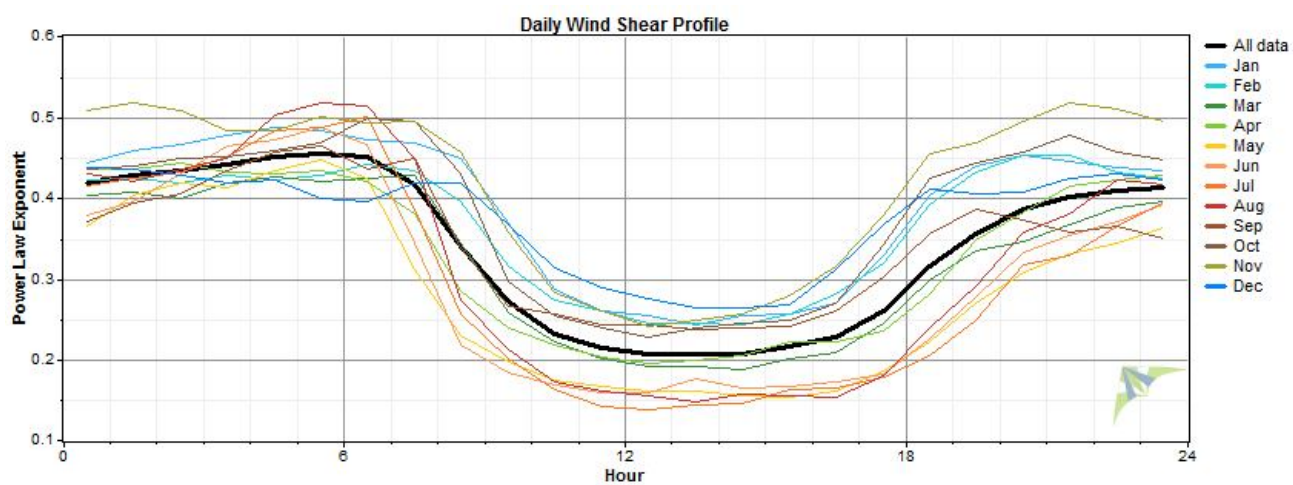
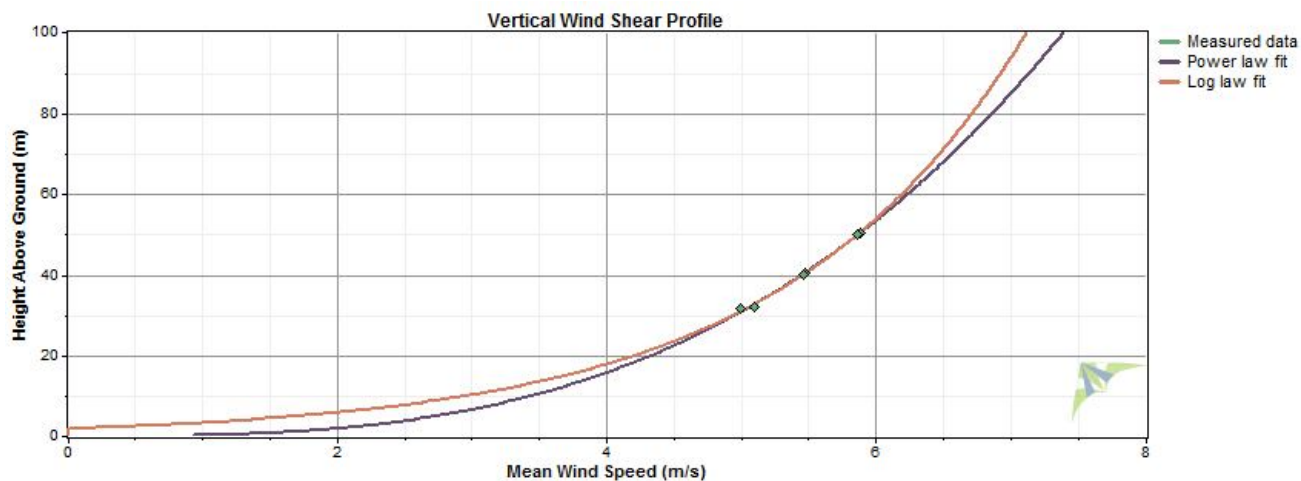
Variable	Value
Latitude	N 37° 34' 18.060"
Longitude	W 75° 42' 59.460"
Elevation	5 m
Start date	1/26/2009 00:00
End date	8/22/2012 08:00
Duration	3.6 years
Length of time step	10 minutes
Calm threshold	0.4 m/s
Mean temperature	15.4 °C
Mean pressure	101.2 kPa
Mean air density	1.223 kg/m ³
Power density at 50m	204 W/m ²
Wind power class	2 (Marginal)
Power law exponent	0.333
Surface roughness	1.98 m
Roughness class	4.48
Roughness description	Suburban



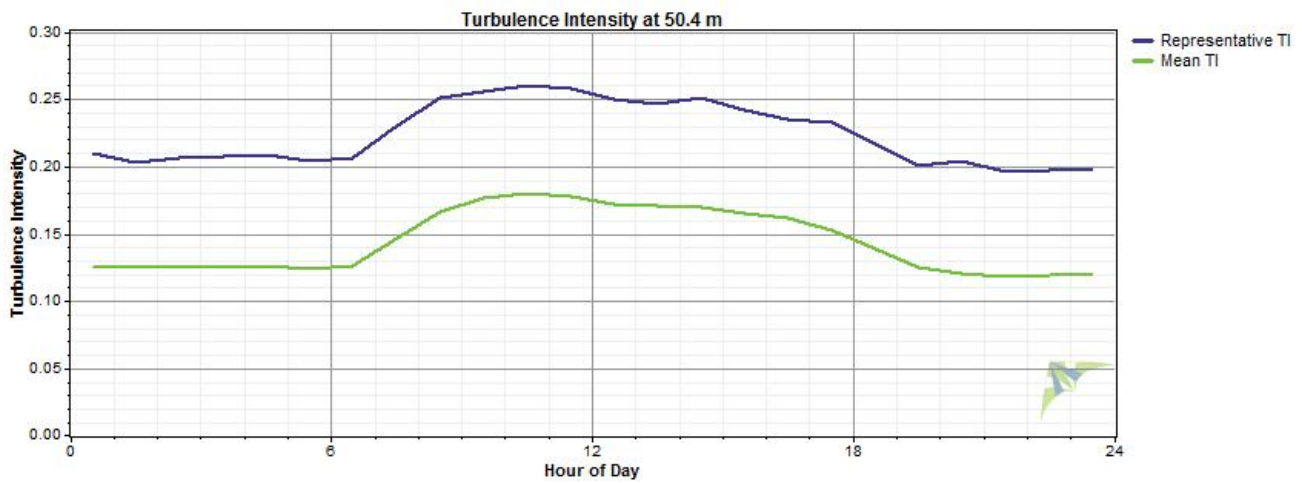
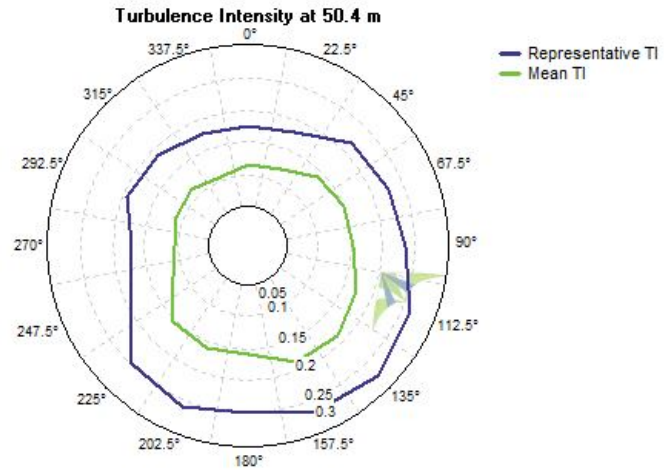
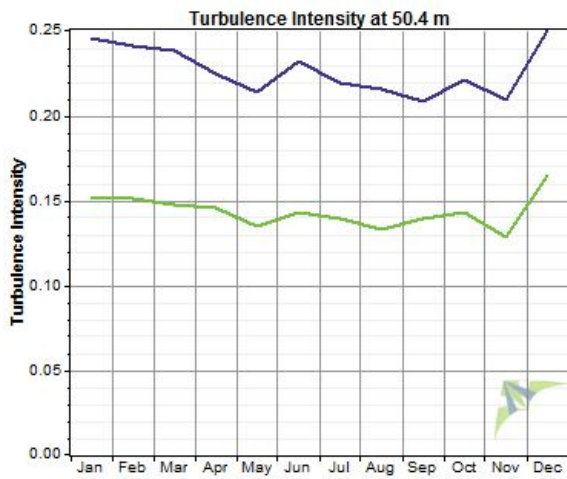
Wind Speed and Direction



Wind Shear



Turbulence Intensity



Data Column Properties

Number	Label	Units	Height	Possible Records	Valid Records	Recovery Rate (%)	Mean	Min	Max	Std. Dev
1	Wind Speed (50.4m)	m/s	50.4 m	187,824	135,534	72.16	5.89	0.78	27.78	2.55
2	CH1SD	m/s	50.4 m	187,824	74,507	39.67	0.826	0.000	6.600	0.495
3	CH1Max	m/s	50.4 m	187,824	74,507	39.67	7.49	0.40	27.60	3.40
4	CH1Min	m/s	50.4 m	187,824	74,507	39.67	3.31	0.40	17.00	1.67
5	Wind Speed (50.0m)	m/s	50 m	187,824	135,534	72.16	5.86	0.76	27.76	2.52
6	CH2SD	m/s	50 m	187,824	74,507	39.67	0.819	0.000	6.600	0.496
7	CH2Max	m/s	50 m	187,824	74,507	39.67	7.49	0.40	28.40	3.40
8	CH2Min	m/s	50 m	187,824	74,507	39.67	3.34	0.40	17.40	1.70
9	Wind Speed (40.5m)	m/s	40.5 m	187,824	135,534	72.16	5.47	0.78	26.68	2.37
10	CH3SD	m/s	40.5 m	187,824	74,507	39.67	0.841	0.000	5.800	0.489
11	CH3Max	m/s	40.5 m	187,824	74,507	39.67	7.18	0.40	26.10	3.29
12	CH3Min	m/s	40.5 m	187,824	74,507	39.67	2.92	0.40	16.20	1.51
13	Wind Speed (40.2m)	m/s	40.2 m	187,824	135,534	72.16	5.46	0.78	26.38	2.37
14	CH4SD	m/s	40.2 m	187,824	74,507	39.67	0.842	0.000	6.100	0.490
15	CH4Max	m/s	40.2 m	187,824	74,507	39.67	7.17	0.40	27.70	3.30
16	CH4Min	m/s	40.2 m	187,824	74,507	39.67	2.92	0.40	16.70	1.56
17	Wind Speed (31.5m)	m/s	31.5 m	187,824	135,534	72.16	4.99	0.77	25.37	2.23
18	CH5SD	m/s	31.5 m	187,824	74,507	39.67	0.860	0.000	5.300	0.478
19	CH5Max	m/s	31.5 m	187,824	74,507	39.67	6.81	0.40	25.30	3.22
20	CH5Min	m/s	31.5 m	187,824	74,507	39.67	2.47	0.40	15.50	1.40
21	Wind Speed (32.0m)	m/s	32 m	187,824	135,534	72.16	5.10	0.80	25.20	2.25
22	CH6SD	m/s	32 m	187,824	74,507	39.67	0.850	0.000	5.300	0.473
23	CH6Max	m/s	32 m	187,824	74,507	39.67	6.85	0.40	27.70	3.22
24	CH6Min	m/s	32 m	187,824	74,507	39.67	2.55	0.40	15.50	1.43
25	Wind Direction (49.4m)	°	49.4 m	187,824	135,534	72.16	89.7	1.0	360.0	101.4
26	CH7SD	°	49.4 m	187,824	74,507	39.67	9.7	0.0	133.0	6.5
27	CH7Max	°	49.4 m	187,824	74,507	39.67	201.3	0.0	359.0	99.5
28	CH7Min	°	49.4 m	187,824	74,507	39.67	180	180	180	0
29	Wind Direction (39.6m)	°	10 m	187,824	135,534	72.16	100.1	1.0	360.0	99.0
30	CH8SD	°	10 m	187,824	74,507	39.67	10.5	0.0	127.0	6.5
31	CH8Max	°	10 m	187,824	74,507	39.67	204	0	359	100
32	CH8Min	°	10 m	187,824	74,507	39.67	185	185	185	0
33	Temperature	°C		187,824	74,507	39.67	15.40	-9.70	36.90	9.56
34	CH9SD			187,824	74,507	39.67	0.022	0.000	3.400	0.067
35	CH9Max			187,824	74,507	39.67	15.65	-9.60	36.90	9.58
36	CH9Min			187,824	74,507	39.67	15.24	-9.80	36.60	9.57
37	Air Density	kg/m ³		187,824	187,824	100.00	1.223	1.137	1.339	0.026
38	Wind Speed (50.4m) TI			187,824	74,507	39.67	0.144	0.000	0.787	0.066
39	Wind Speed (50.0m) TI			187,824	74,507	39.67	0.144	0.000	1.119	0.070
40	Wind Speed (40.5m) TI			187,824	74,507	39.67	0.156	0.000	0.859	0.067
41	Wind Speed (40.2m) TI			187,824	74,507	39.67	0.158	0.000	0.878	0.071
42	Wind Speed (32.0m) TI			187,824	74,507	39.67	0.170	0.000	0.846	0.070
43	Wind Speed (31.5m) TI			187,824	74,507	39.67	0.176	0.000	0.866	0.072
44	Wind Speed (50.4m) WPD	W/m ²		187,824	135,534	72.16	206	0	13,120	361
45	Wind Speed (50.0m) WPD	W/m ²		187,824	135,534	72.16	201	0	13,092	341
46	Wind Speed (40.5m) WPD	W/m ²		187,824	135,534	72.16	166	0	11,622	294
47	Wind Speed (40.2m) WPD	W/m ²		187,824	135,534	72.16	164	0	11,235	278
48	Wind Speed (32.0m) WPD	W/m ²		187,824	135,534	72.16	135	0	9,794	234
49	Wind Speed (31.5m) WPD	W/m ²		187,824	135,534	72.16	129	0	9,993	231