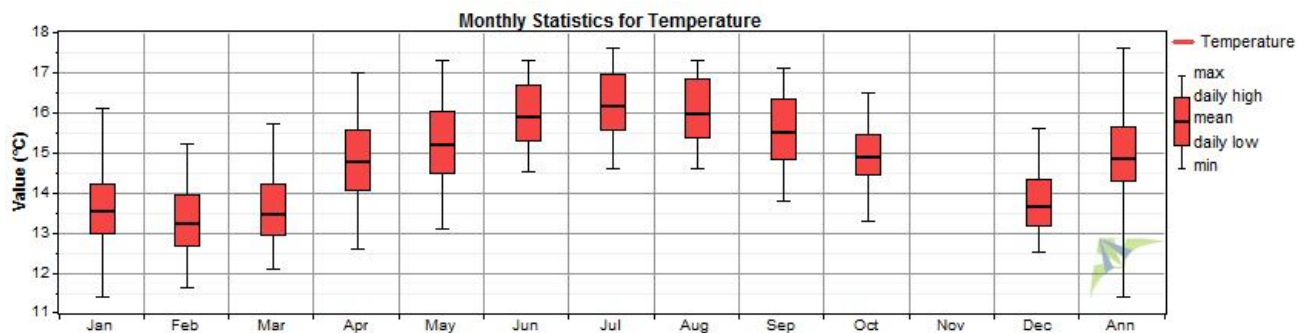


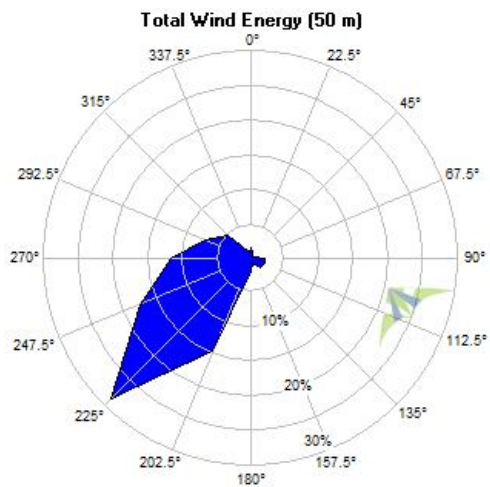
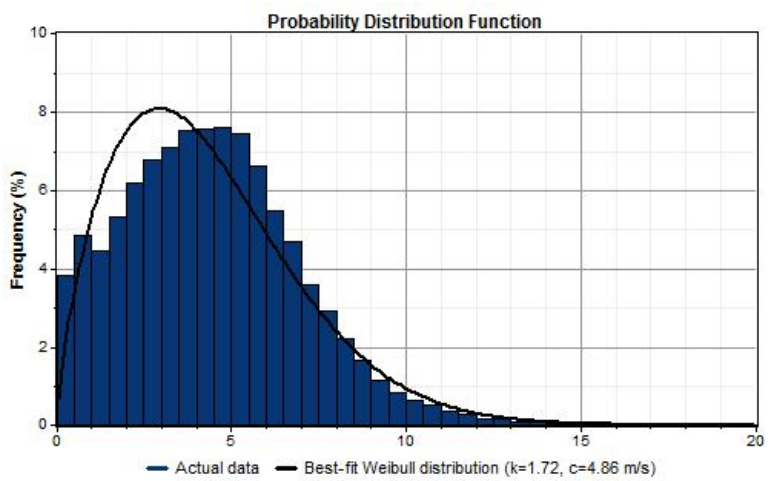
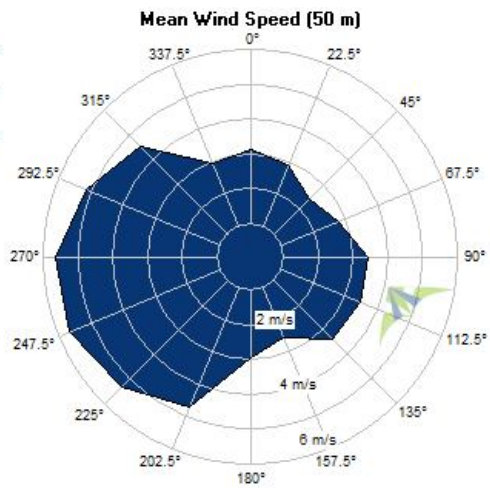
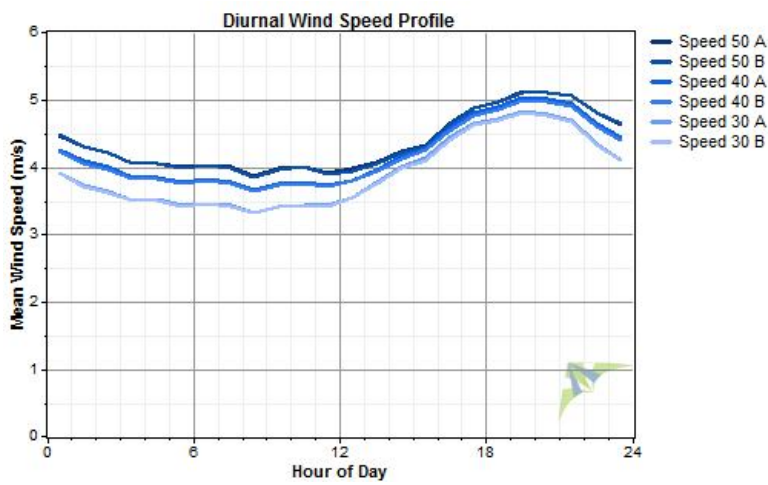
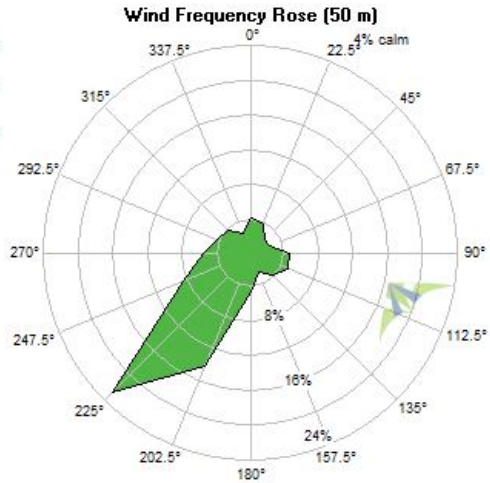
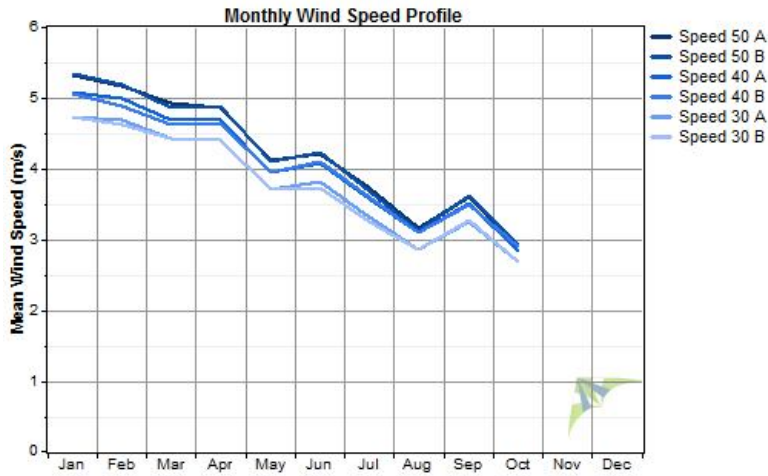
Data Set Properties

Report Created: 9/17/2013 16:20 using Windographer 2.4.11
 Filter Settings: <Unflagged data>

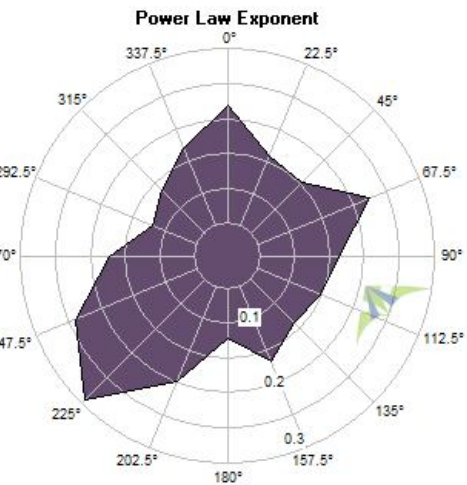
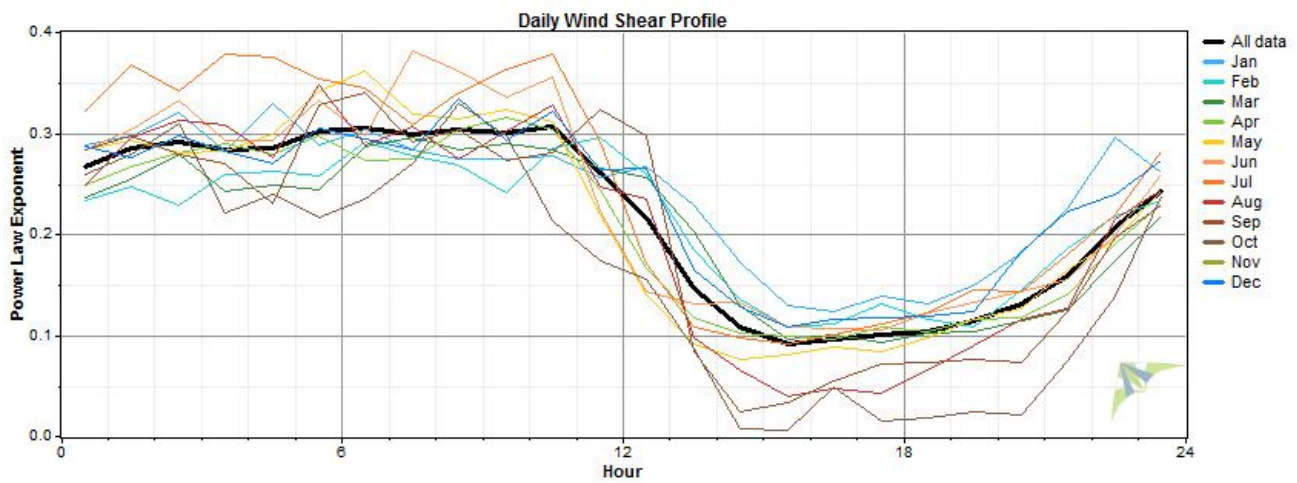
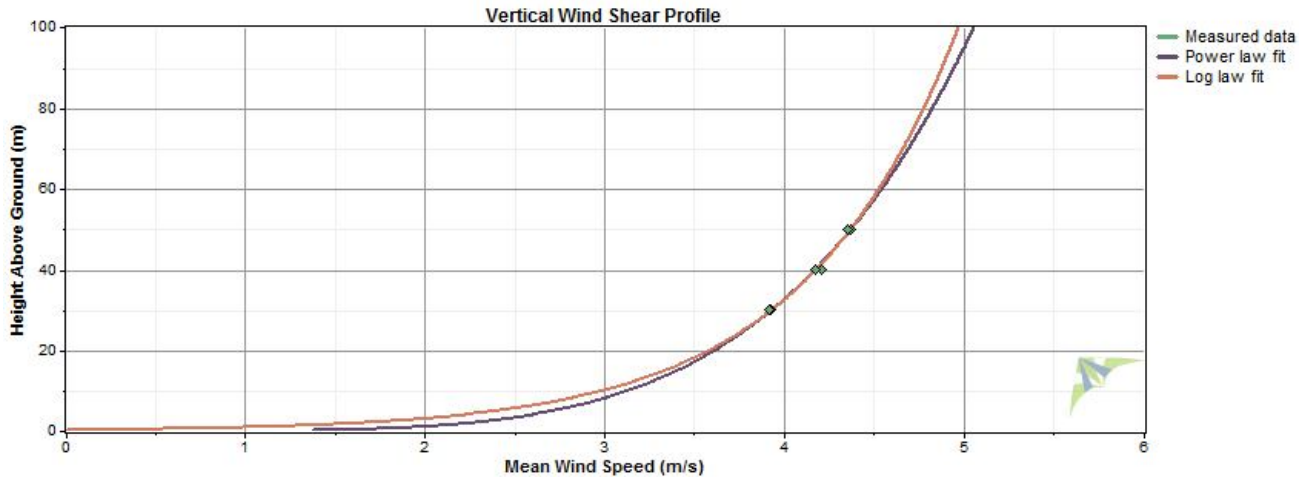
Variable	Value
Latitude	N 38.077400
Longitude	W 79.063560
Elevation	1509 ft
Start date	2/17/2012 00:00
End date	8/12/2013 12:00
Duration	18 months
Length of time step	10 minutes
Calm threshold	0.4 m/s
Mean temperature	14.9 °C
Mean pressure	95.95 kPa
Mean air density	1.165 kg/m ³
Power density at 50m	100 W/m ²
Wind power class	1 (Poor)
Power law exponent	0.21
Surface roughness	0.325 m
Roughness class	2.98
Roughness description	Many trees



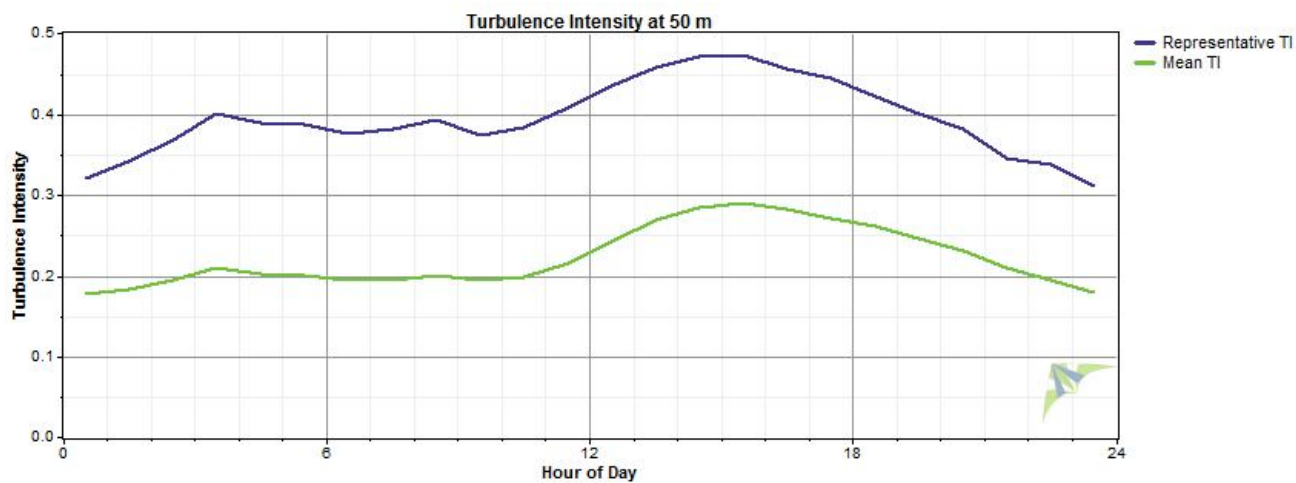
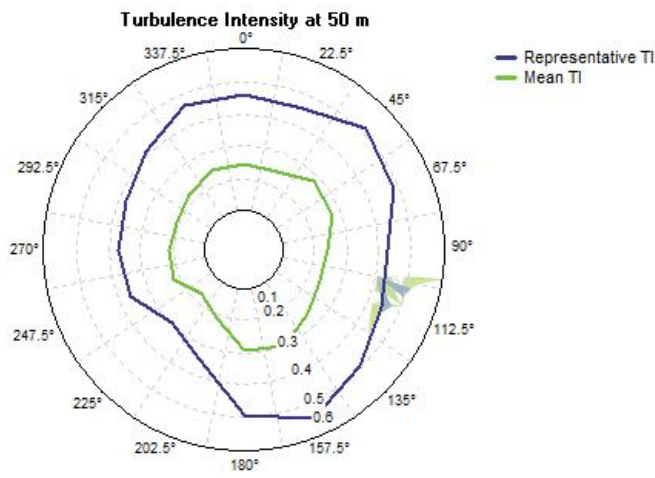
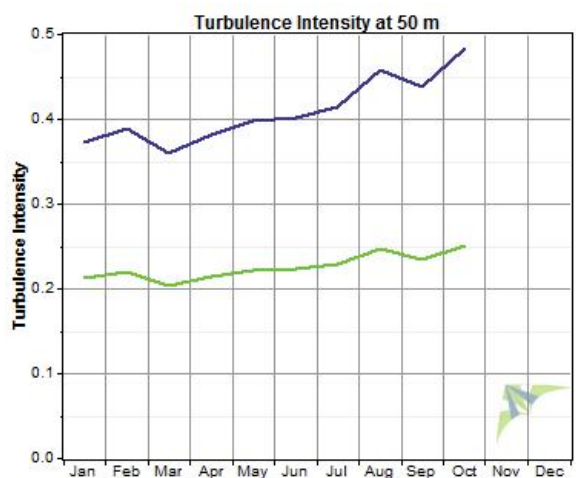
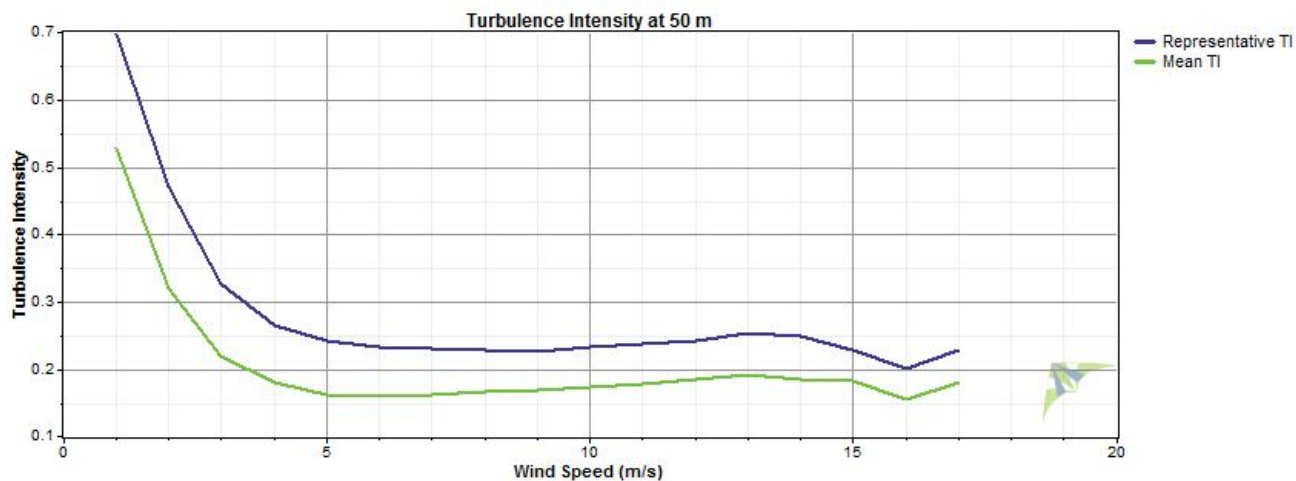
Wind Speed and Direction



Wind Shear



Turbulence Intensity



Data Column Properties

Number	Label	Units	Height	Possible Records	Valid Records	Recovery Rate (%)	Mean	Min	Max	Std. Dev
1	Speed 50 A	m/s	50 m	78,120	62,382	79.85	4.37	0.40	16.80	2.50
2	Speed 50 A SD	m/s	50 m	78,120	62,382	79.85	0.812	0.000	6.400	0.459
3	Speed 50 A Max	m/s	50 m	78,120	62,382	79.85	6.45	0.40	26.00	3.51
4	Speed 50 A Min	m/s	50 m	78,120	62,382	79.85	2.35	0.40	11.20	1.61
5	Speed 50 B	m/s	50 m	78,120	62,382	79.85	4.36	0.40	16.90	2.47
6	Speed 50 B SD	m/s	50 m	78,120	62,382	79.85	0.797	0.000	6.400	0.448
7	Speed 50 B Max	m/s	50 m	78,120	62,382	79.85	6.40	0.40	25.90	3.46
8	Speed 50 B Min	m/s	50 m	78,120	62,382	79.85	2.37	0.40	11.10	1.59
9	Speed 40 A	m/s	40 m	78,120	62,382	79.85	4.21	0.40	16.40	2.35
10	Speed 40 A SD	m/s	40 m	78,120	62,382	79.85	0.797	0.000	6.400	0.447
11	Speed 40 A Max	m/s	40 m	78,120	62,382	79.85	6.28	0.40	25.90	3.40
12	Speed 40 A Min	m/s	40 m	78,120	62,382	79.85	2.23	0.40	10.20	1.45
13	Direction 50	°	50 m	78,120	62,629	80.17	229.5	0.0	359.0	86.0
14	Direction 50 SD	°	50 m	78,120	62,629	80.17	11	0	127	10
15	Direction 50 Max	°	50 m	78,120	62,629	80.17	0	0	0	0
16	Direction 50 Min	°	50 m	78,120	62,629	80.17	0	0	0	0
17	Speed 40 B	m/s	40 m	78,120	62,382	79.85	4.18	0.40	16.20	2.37
18	Speed 40 B SD	m/s	40 m	78,120	62,382	79.85	0.812	0.000	6.400	0.461
19	Speed 40 B Max	m/s	40 m	78,120	62,382	79.85	6.28	0.40	27.00	3.44
20	Speed 40 B Min	m/s	40 m	78,120	62,382	79.85	2.17	0.40	10.20	1.46
21	Speed 30 A	m/s	30 m	78,120	62,382	79.85	3.93	0.40	15.70	2.25
22	Speed 30 A SD	m/s	30 m	78,120	62,382	79.85	0.816	0.000	6.400	0.463
23	Speed 30 A Max	m/s	30 m	78,120	62,382	79.85	6.07	0.40	27.10	3.39
24	Speed 30 A Min	m/s	30 m	78,120	62,382	79.85	1.951	0.400	9.400	1.303
25	Speed 30 B	m/s	30 m	78,120	62,382	79.85	3.91	0.40	15.70	2.24
26	Speed 30 B SD	m/s	30 m	78,120	62,382	79.85	0.809	0.000	6.400	0.455
27	Speed 30 B Max	m/s	30 m	78,120	62,382	79.85	6.03	0.40	27.00	3.35
28	Speed 30 B Min	m/s	30 m	78,120	62,382	79.85	1.939	0.400	8.700	1.302
29	Temperature	°C		78,120	48,282	61.80	14.88	11.40	17.60	1.31
30	Temperature SD	°C		78,120	48,282	61.80	0.003	0.000	0.300	0.016
31	Temperature Max	°C		78,120	48,282	61.80	14.92	11.40	17.70	1.31
32	Temperature Min	°C		78,120	48,282	61.80	14.86	11.40	17.60	1.31
33	Direction 40	°	40 m	78,120	48,282	61.80	235.4	0.0	359.0	85.6
34	Direction 40 SD	°		78,120	48,282	61.80	10.6	0.0	127.0	10.1
35	Direction 40 Max	°		78,120	48,282	61.80	0	0	0	0
36	Direction 40 Min	°		78,120	48,282	61.80	0	0	0	0
37	Air Density	kg/m ³		78,120	78,120	100.00	1.165	1.150	1.175	0.007
38	Speed 50 A TI			78,120	62,382	79.85	0.222	0.000	1.800	0.140
39	Speed 50 B TI			78,120	62,382	79.85	0.219	0.000	2.000	0.137
40	Speed 40 A TI			78,120	62,382	79.85	0.221	0.000	2.455	0.128
41	Speed 40 B TI			78,120	62,382	79.85	0.228	0.000	1.444	0.135
42	Speed 30 A TI			78,120	62,382	79.85	0.241	0.000	1.750	0.138
43	Speed 30 B TI			78,120	62,382	79.85	0.240	0.000	1.588	0.138
44	Speed 50 A WPD	W/m ²		78,120	62,382	79.85	101	0	2,745	170
45	Speed 50 B WPD	W/m ²		78,120	62,382	79.85	100	0	2,795	167
46	Speed 40 A WPD	W/m ²		78,120	62,382	79.85	88	0	2,554	149
47	Speed 40 B WPD	W/m ²		78,120	62,382	79.85	88	0	2,492	151
48	Speed 30 A WPD	W/m ²		78,120	62,382	79.85	75	0	2,268	130
49	Speed 30 B WPD	W/m ²		78,120	62,382	79.85	73	0	2,241	127