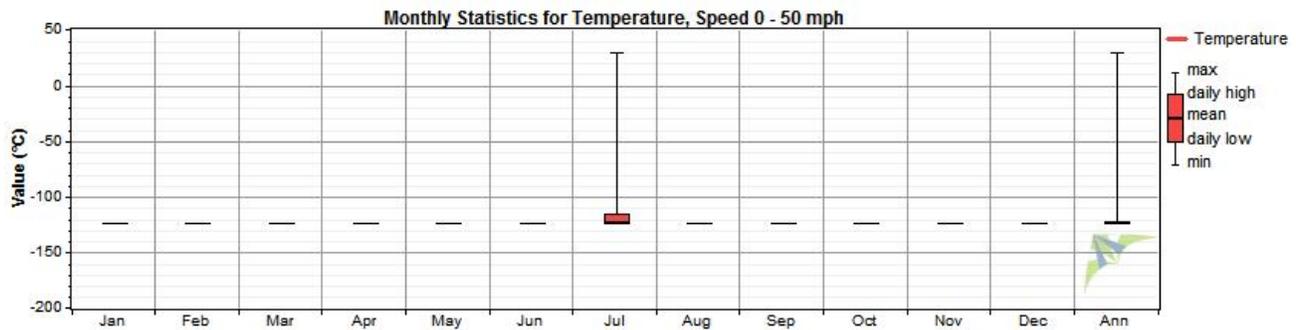


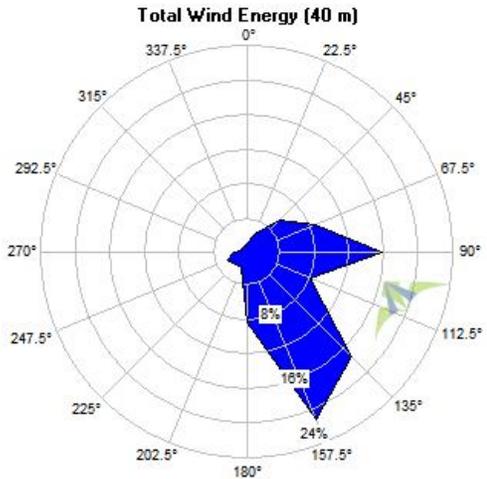
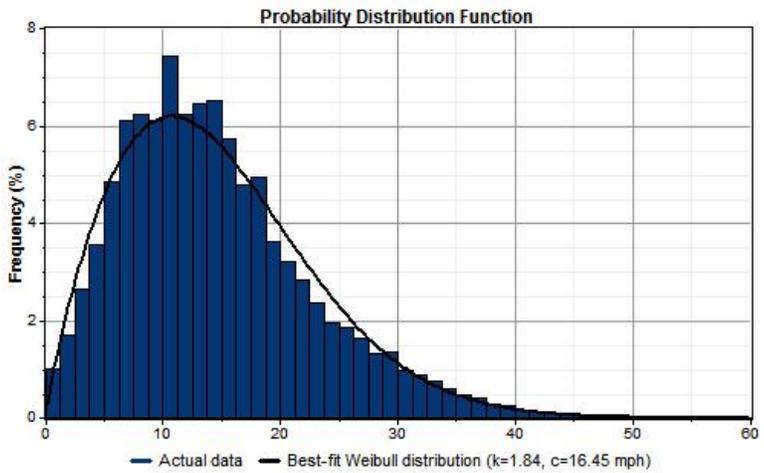
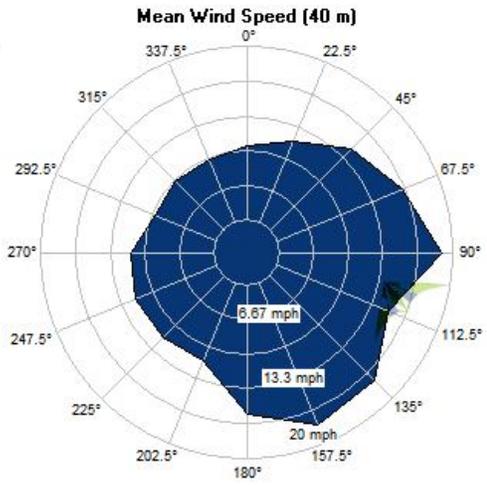
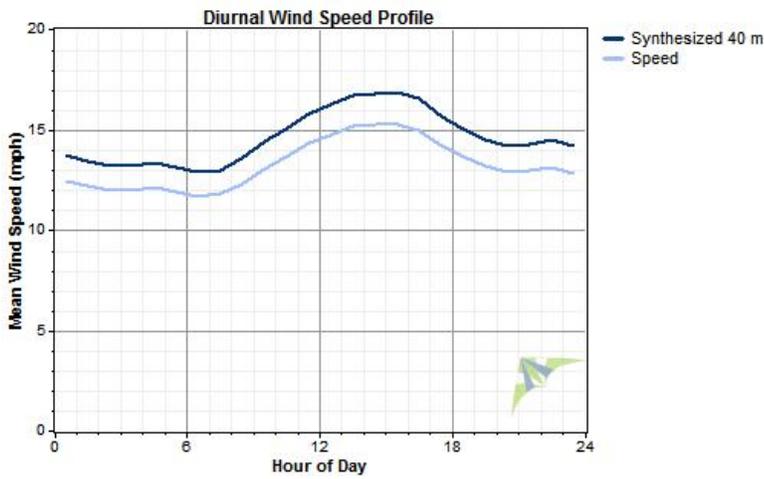
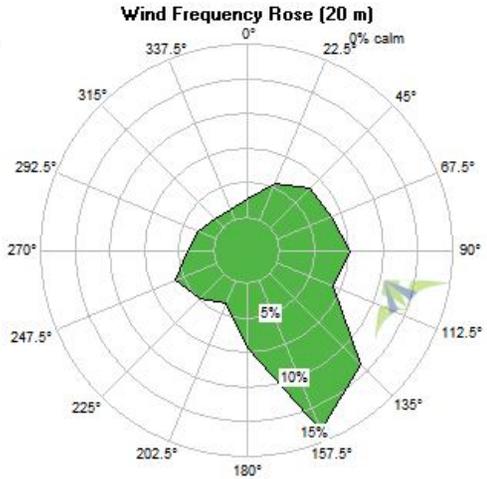
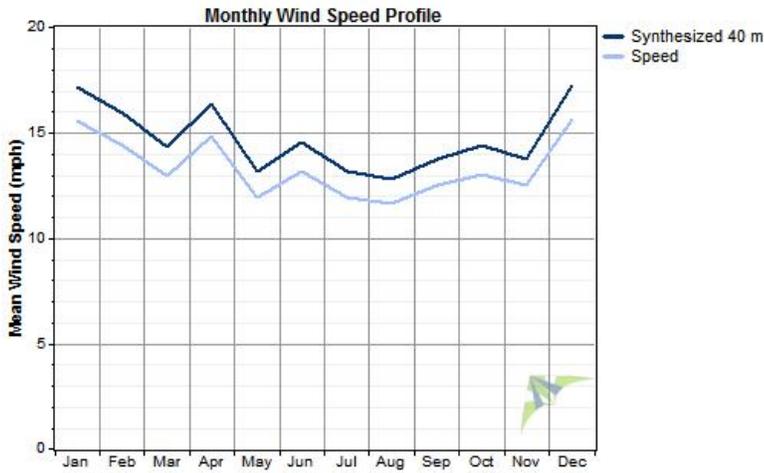
Data Set Properties

Report Created: 2/12/2015 16:12 using Windographer 2.4.13
 Filter Settings: <Unflagged data>, Speed 0 - 50 mph

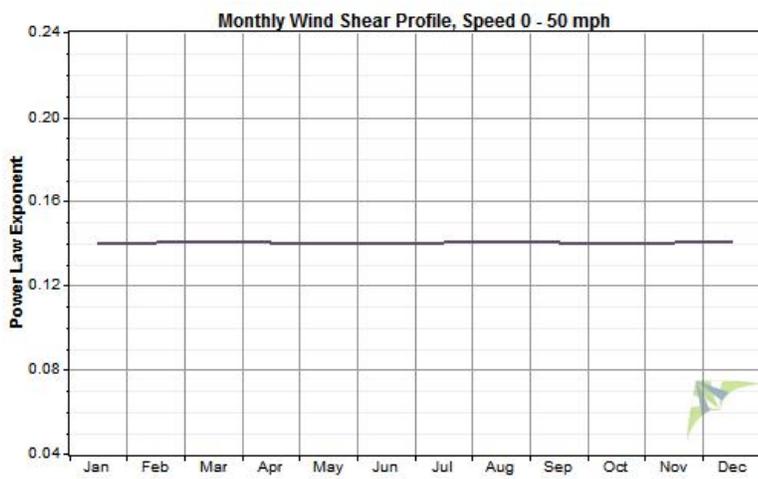
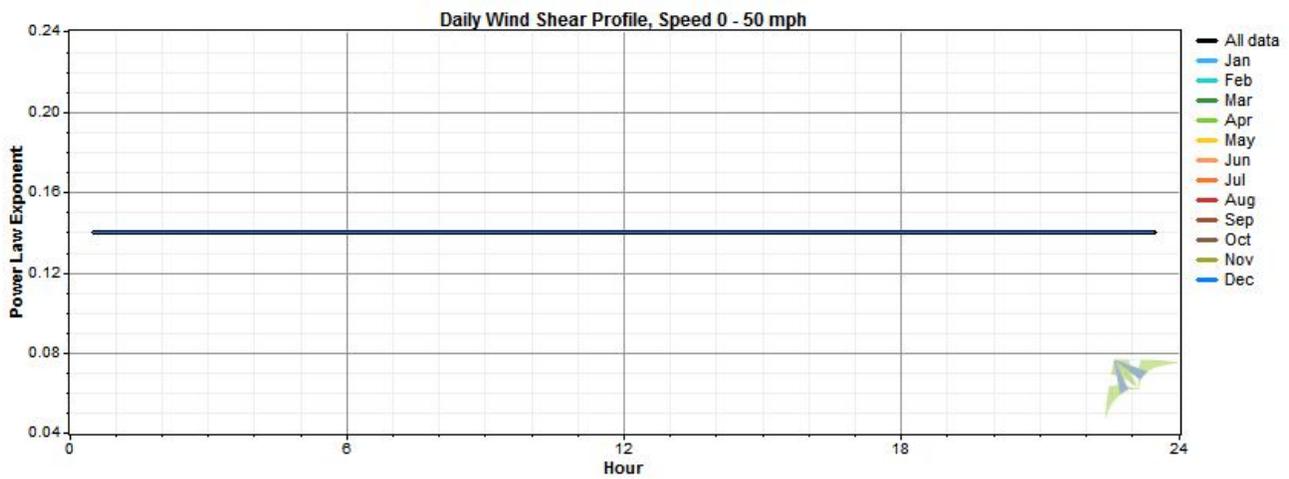
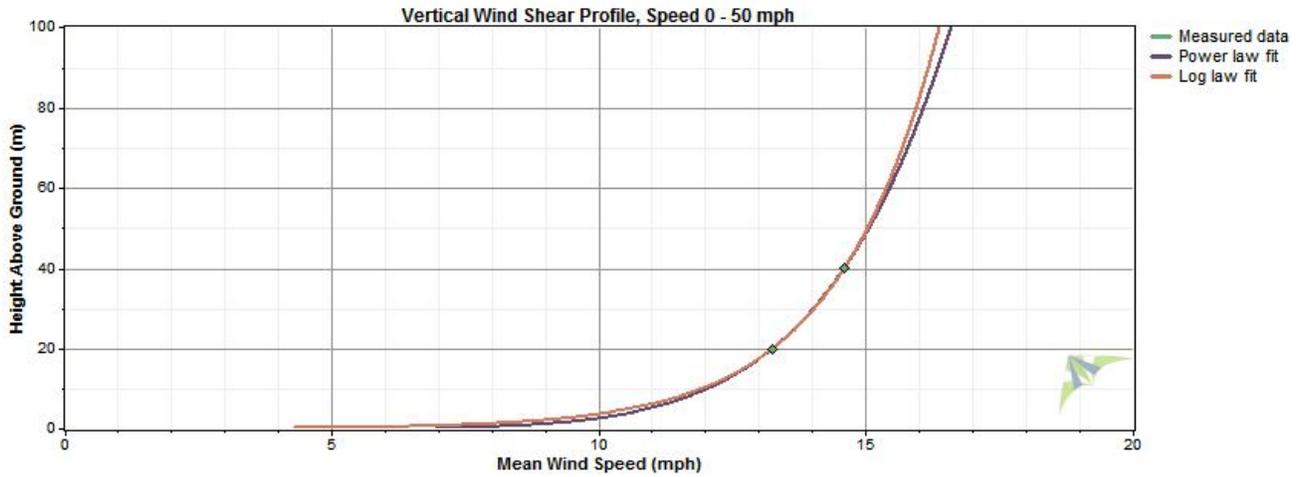
Variable	Value
Latitude	N 48.792670
Longitude	W 110.486230
Elevation	2870 ft
Start date	9/5/2013 00:00
End date	11/19/2014 16:00
Duration	14 months
Length of time step	10 minutes
Calm threshold	0 mph
Mean temperature	-123 °C
Mean pressure	91.30 kPa
Mean air density	2.125 kg/m ³
Power density at 50m	707 W/m ²
Wind power class	6 (Outstanding)
Power law exponent	0.14
Surface roughness	0.0222 m
Roughness class	0.94
Roughness description	Fallow field



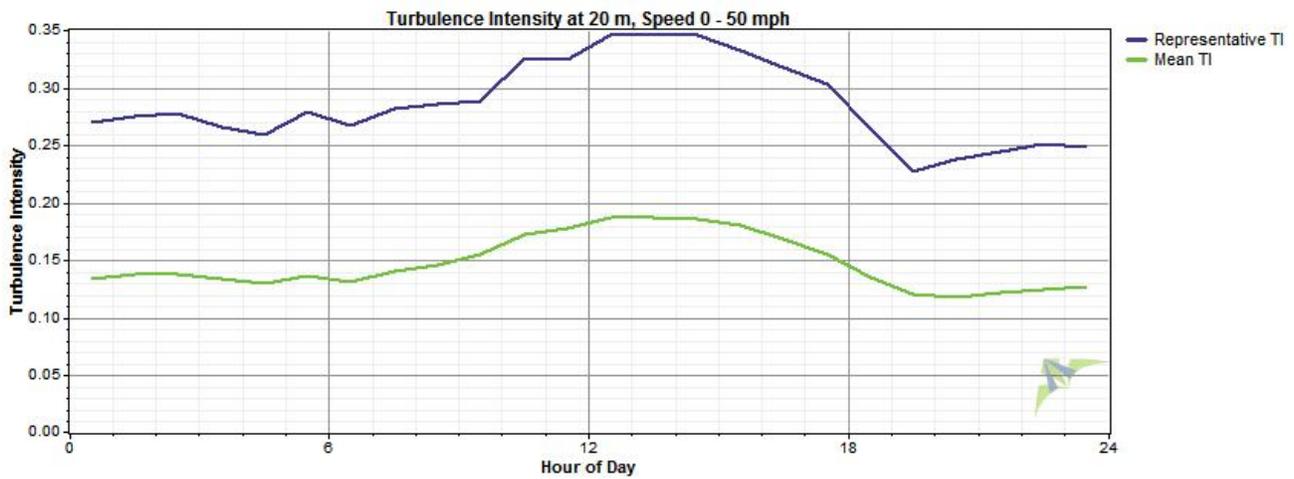
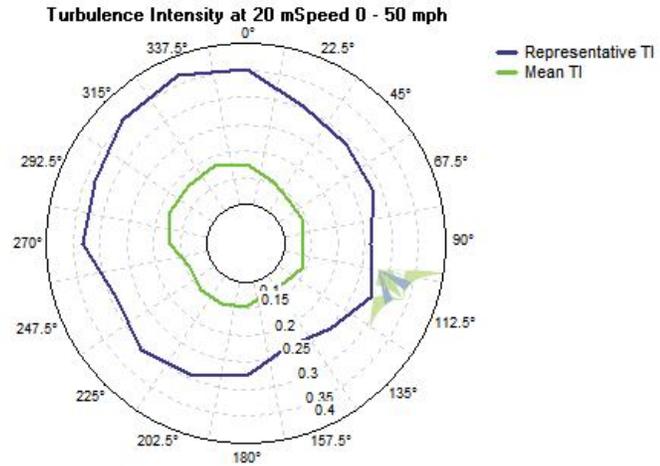
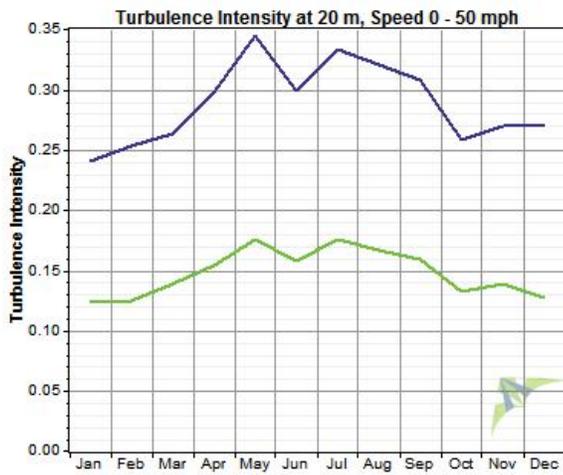
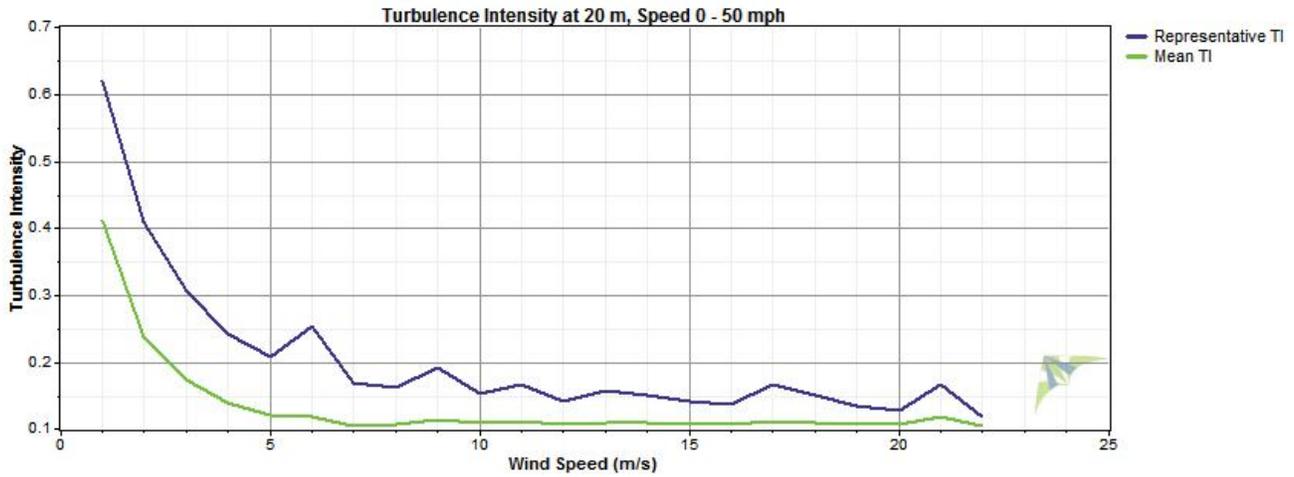
Wind Speed and Direction



Wind Shear



Turbulence Intensity



Data Column Properties

Number	Label	Units	Height	Possible Records	Valid Records	Recovery Rate (%)	Mean	Min	Max	Std. Dev
1	Speed	mph	20 m	63,456	62,033	97.76	13.25	0.80	49.80	7.50
2	Speed SD	mph	20 m	63,456	62,033	97.76	1.63	0.00	13.60	1.11
3	Direction	°	20 m	63,456	62,033	97.76	130.5	22.0	360.0	91.9
4	Temperature	°C		63,456	62,033	97.76	-123.5	-123.5	29.5	1.8
5	Synthesized 40 m	mph	40 m	63,456	62,033	97.76	14.60	0.88	54.87	8.26
6	Bergey Excel-S Power Output	kW		63,456	62,033	97.76	3.65	0.00	10.90	3.51
7	Bergey Excel-R Power Output	kW		63,456	62,033	97.76	3.051	0.000	8.000	2.721
8	Bergey XL.1 Power Output	kW		63,456	62,033	97.76	0.461	0.000	1.229	0.416
9	Bergey Excel-R Power Output	kW		63,456	62,033	97.76	3.117	0.000	8.000	2.733
10	Bergey Excel-S Power Output	kW		63,456	62,033	97.76	3.75	0.00	10.90	3.54
11	Bergey Excel-R Power Output	kW		63,456	62,033	97.76	3.051	0.000	8.000	2.721
12	Bergey Excel-S Power Output	kW		63,456	62,033	97.76	3.65	0.00	10.90	3.51
13	Air Density	kg/m ³		63,456	62,033	97.76	2.125	1.051	2.125	0.017
14	Speed TI			63,456	62,033	97.76	0.148	0.000	1.238	0.111
15	Synthesized 40 m WPD	W/m ²		63,456	62,033	97.76	630	0	15,688	1,166
16	Speed WPD	W/m ²		63,456	62,033	97.76	471	0	11,726	871