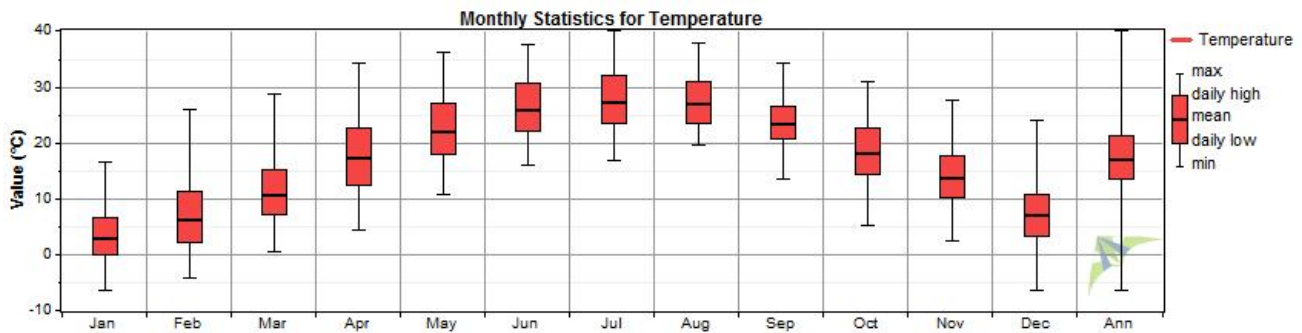


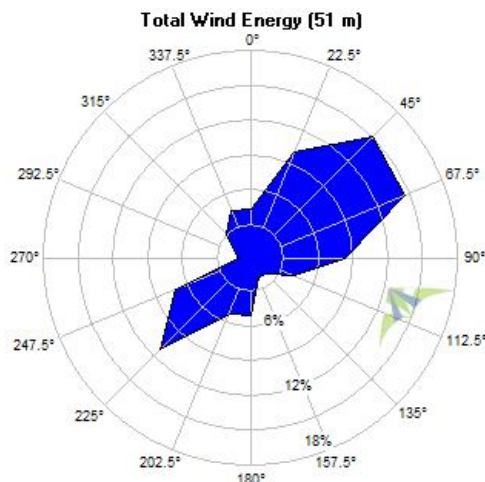
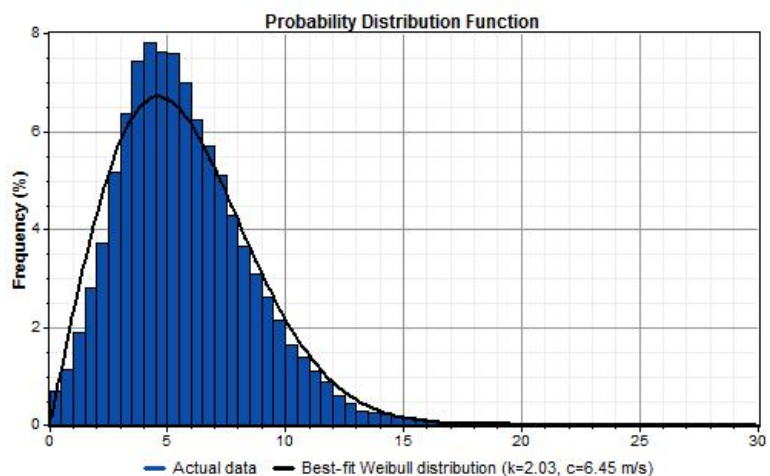
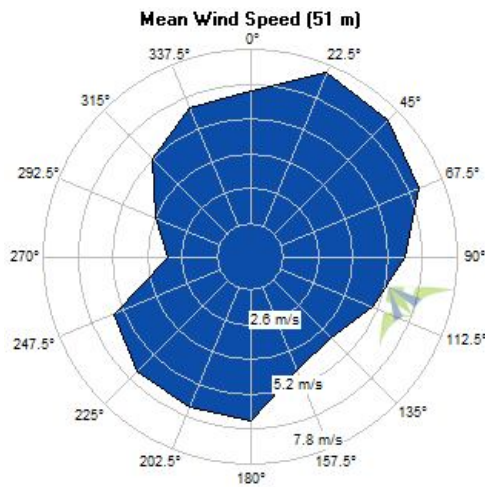
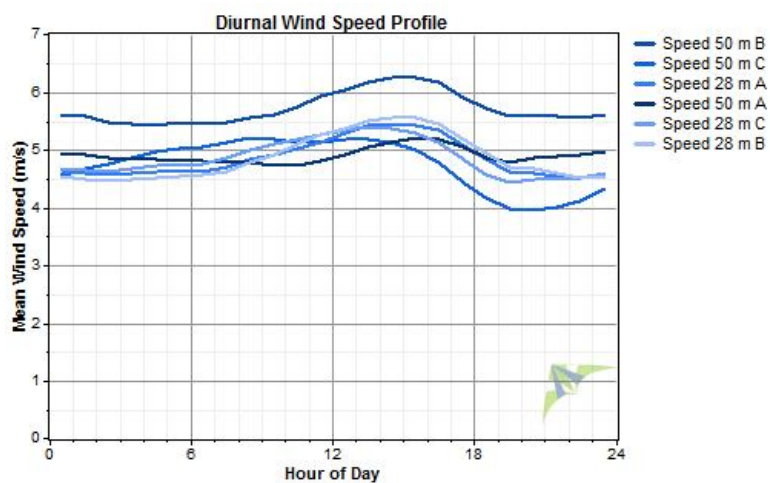
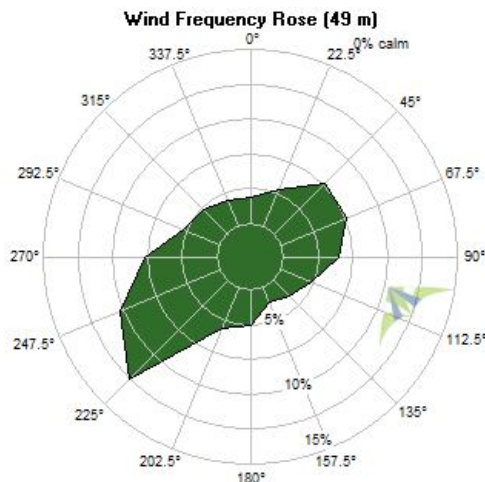
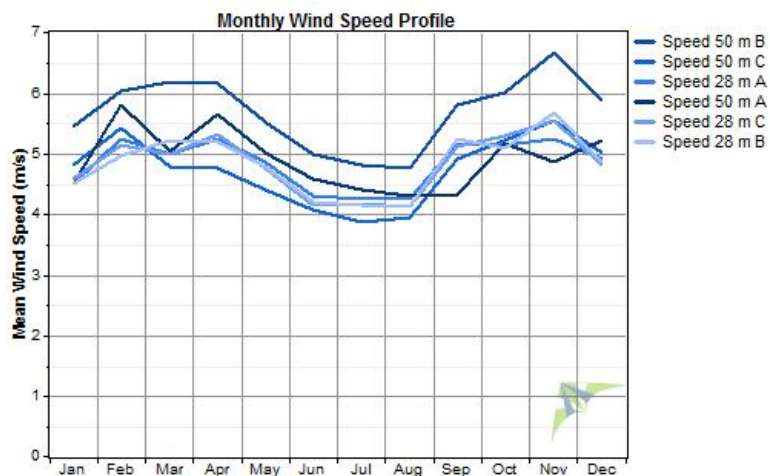
Data Set Properties

Report Created: 12/17/2013 17:07 using Windographer 2.4.13
 Filter Settings: <Unflagged data>

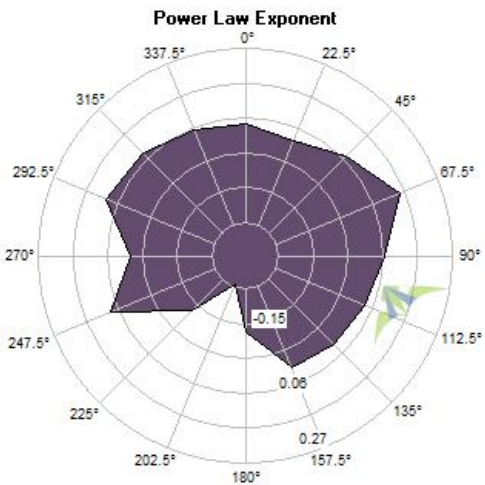
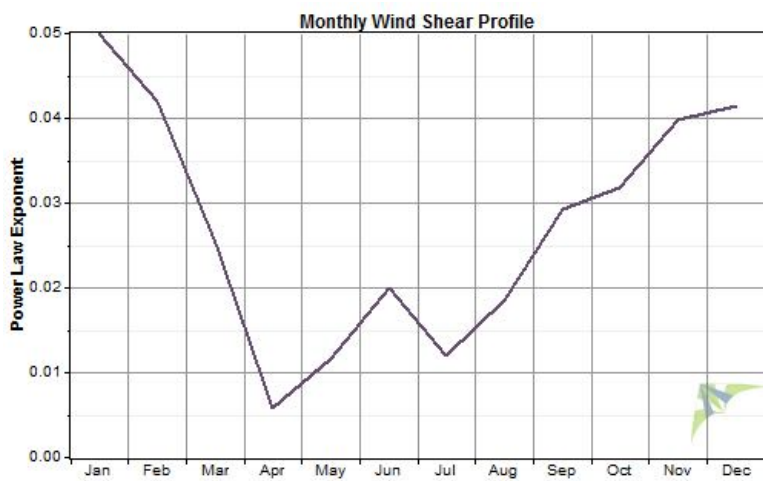
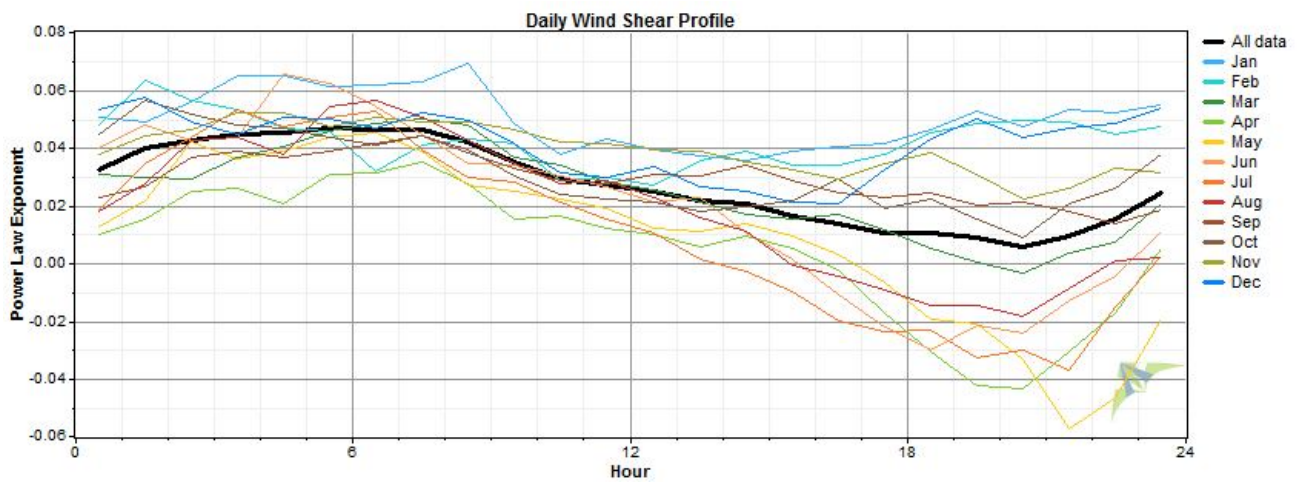
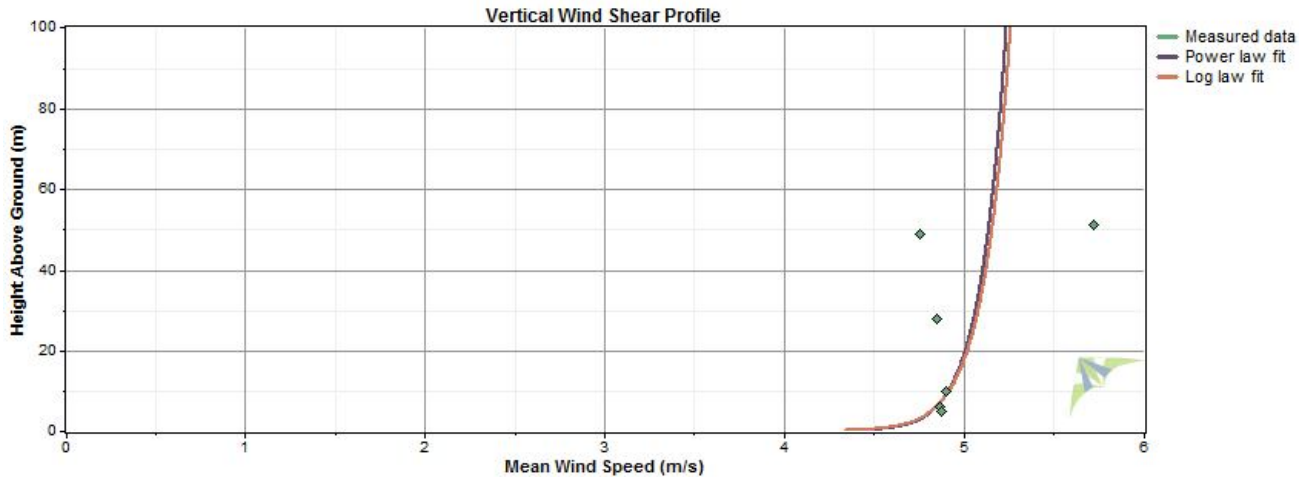
| Variable | Value |
|-----------------------|-------------------------|
| Latitude | N 36° 47' 0.000" |
| Longitude | W 75° 57' 0.000" |
| Elevation | 0 m |
| Start date | 6/9/2009 00:00 |
| End date | 3/21/2012 14:00 |
| Duration | 33 months |
| Length of time step | 10 minutes |
| Calm threshold | 0 m/s |
| Mean temperature | 17.1 °C |
| Mean pressure | 101.3 kPa |
| Mean air density | 1.218 kg/m ³ |
| Power density at 50m | 175 W/m ² |
| Wind power class | 1 (Poor) |
| Power law exponent | 0.0277 |
| Surface roughness | 0 m |
| Roughness class | 0.00 |
| Roughness description | Smooth |



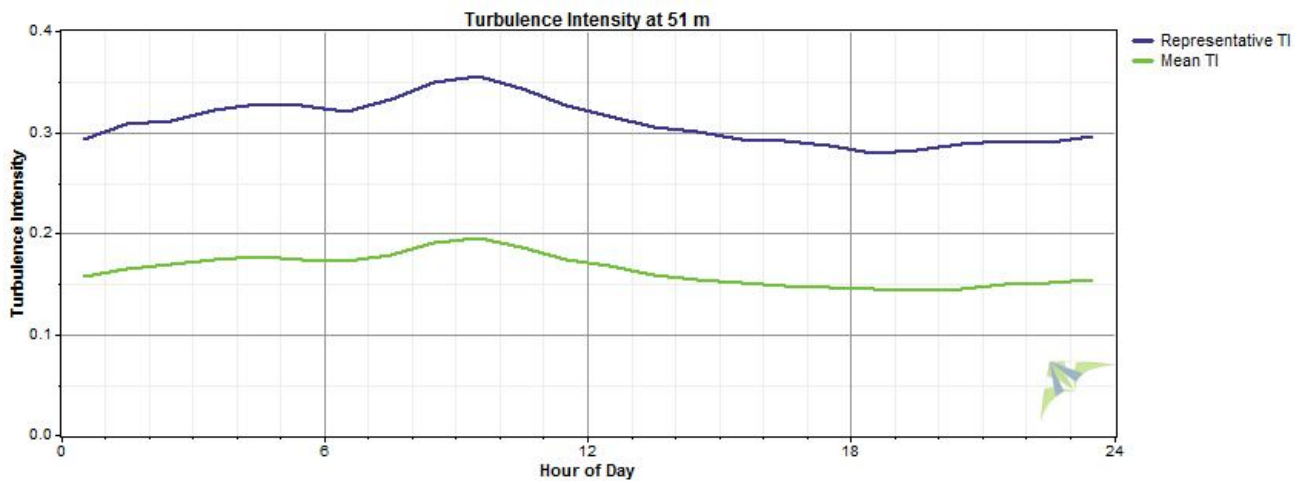
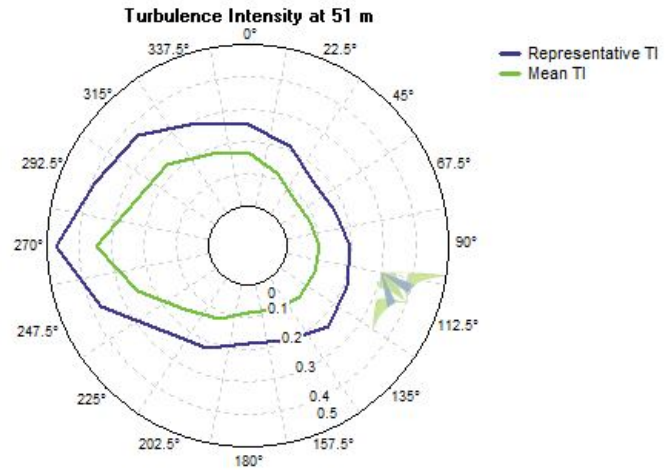
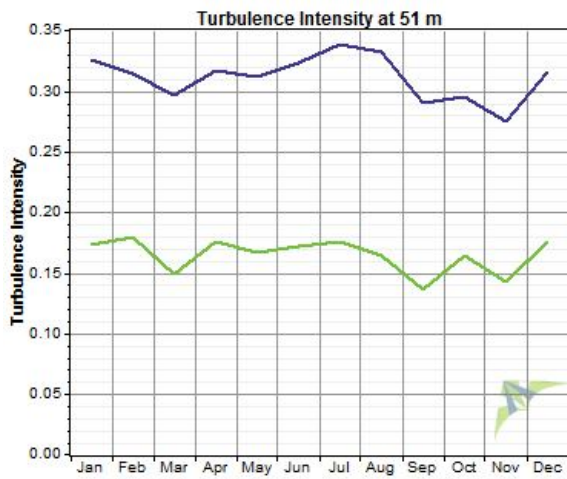
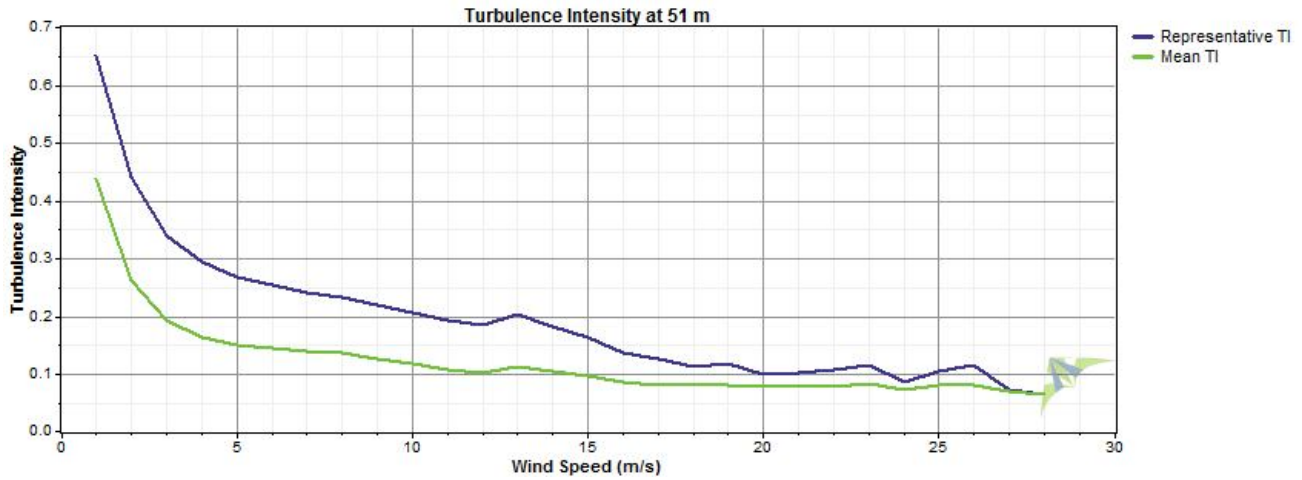
Wind Speed and Direction



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 m A | m/s | 10 m | 146,388 | 115,501 | 78.90 | 4.90 | 0.40 | 29.50 | 2.72 |
| 2 | Speed 51 m A SD | m/s | 10 m | 146,388 | 115,501 | 78.90 | 0.784 | 0.000 | 9.000 | 0.537 |
| 3 | Speed 51 m A Max | m/s | 10 m | 146,388 | 115,501 | 78.90 | 6.95 | 0.40 | 42.80 | 3.60 |
| 4 | Speed 51 m A Min | m/s | 10 m | 146,388 | 115,501 | 78.90 | 3.03 | 0.40 | 24.40 | 2.06 |
| 5 | Speed 50 m B | m/s | 51 m | 146,388 | 115,501 | 78.90 | 5.72 | 0.40 | 29.90 | 2.94 |
| 6 | Speed 51 m B SD | m/s | 51 m | 146,388 | 115,501 | 78.90 | 0.813 | 0.000 | 6.700 | 0.556 |
| 7 | Speed 51 m B Max | m/s | 51 m | 146,388 | 115,501 | 78.90 | 7.77 | 0.40 | 37.10 | 3.77 |
| 8 | Speed 51 m B Min | m/s | 51 m | 146,388 | 115,501 | 78.90 | 3.68 | 0.40 | 24.00 | 2.52 |
| 9 | Speed 50 m C | m/s | 49 m | 146,388 | 115,501 | 78.90 | 4.75 | 0.40 | 27.90 | 3.10 |
| 10 | Speed 49 m SD | m/s | 49 m | 146,388 | 115,501 | 78.90 | 0.809 | 0.000 | 9.000 | 0.643 |
| 11 | Speed 49 m Max | m/s | 49 m | 146,388 | 115,501 | 78.90 | 6.90 | 0.40 | 37.50 | 3.93 |
| 12 | Speed 49 m Min | m/s | 49 m | 146,388 | 115,501 | 78.90 | 2.89 | 0.40 | 23.30 | 2.51 |
| 13 | Speed 28 m A | m/s | 28 m | 146,388 | 115,501 | 78.90 | 4.85 | 0.40 | 26.10 | 2.50 |
| 14 | Speed 28 m SD | m/s | 28 m | 146,388 | 115,501 | 78.90 | 0.836 | 0.000 | 7.000 | 0.514 |
| 15 | Speed 28 m Max | m/s | 28 m | 146,388 | 115,501 | 78.90 | 7.01 | 0.40 | 35.50 | 3.50 |
| 16 | Speed 28 m Min | m/s | 28 m | 146,388 | 115,501 | 78.90 | 2.75 | 0.40 | 20.20 | 1.89 |
| 17 | Speed 28 m B | m/s | 5 m | 146,388 | 113,984 | 77.86 | 4.87 | 0.40 | 27.90 | 2.65 |
| 18 | CH5SD | m/s | 5 m | 146,388 | 113,984 | 77.86 | 0.880 | 0.000 | 6.100 | 0.558 |
| 19 | CH5Max | m/s | 5 m | 146,388 | 113,984 | 77.86 | 7.26 | 0.40 | 35.90 | 3.60 |
| 20 | CH5Min | m/s | 5 m | 146,388 | 113,984 | 77.86 | 2.81 | 0.40 | 21.00 | 2.19 |
| 21 | Speed 28 m C | m/s | 6 m | 146,388 | 113,984 | 77.86 | 4.86 | 0.40 | 28.40 | 2.69 |
| 22 | CH6SD | m/s | 6 m | 146,388 | 113,984 | 77.86 | 0.832 | 0.000 | 6.700 | 0.496 |
| 23 | CH6Max | m/s | 6 m | 146,388 | 113,984 | 77.86 | 7.01 | 0.40 | 35.90 | 3.58 |
| 24 | CH6Min | m/s | 6 m | 146,388 | 113,984 | 77.86 | 2.77 | 0.40 | 21.40 | 2.17 |
| 25 | Direction 50 m | ° | 49 m | 146,388 | 115,501 | 78.90 | 350.3 | 0.0 | 359.0 | 99.7 |
| 26 | Direction 49 m SD | ° | 49 m | 146,388 | 115,501 | 78.90 | 8.3 | 0.0 | 122.0 | 6.2 |
| 27 | Direction 49 m Max | ° | 49 m | 146,388 | 115,501 | 78.90 | 176.6 | 0.0 | 359.0 | 103.6 |
| 28 | Direction 49 m Min | ° | 49 m | 146,388 | 115,501 | 78.90 | 5 | 5 | 5 | 0 |
| 29 | Direction 28 m | ° | 28 m | 146,388 | 115,501 | 78.90 | 136.6 | 0.0 | 359.0 | 95.5 |
| 30 | Direction 28 m SD | ° | 28 m | 146,388 | 115,501 | 78.90 | 18.7 | 0.0 | 127.0 | 16.8 |
| 31 | Direction 28 m Max | ° | 28 m | 146,388 | 115,501 | 78.90 | 165.9 | 0.0 | 359.0 | 99.1 |
| 32 | Direction 28 m Min | ° | 28 m | 146,388 | 115,501 | 78.90 | 355.6 | 355.0 | 355.0 | 0.6 |
| 33 | Temperature | °C | | 146,388 | 115,501 | 78.90 | 17.10 | -6.50 | 39.90 | 9.09 |
| 34 | Temperature SD | m/s | | 146,388 | 115,501 | 78.90 | 0.040 | 0.000 | 4.500 | 0.104 |
| 35 | Temperature Max | °C | | 146,388 | 115,501 | 78.90 | 17.39 | -6.20 | 40.30 | 9.09 |
| 36 | Temperature Min | °C | | 146,388 | 115,501 | 78.90 | 16.90 | -33.40 | 39.60 | 9.12 |
| 37 | Air Density | kg/m ³ | | 146,388 | 146,388 | 100.00 | 1.218 | 1.127 | 1.323 | 0.034 |
| 38 | Speed 50 m B TI | | | 146,388 | 115,501 | 78.90 | 0.164 | 0.000 | 1.375 | 0.115 |
| 39 | Speed 50 m C TI | | | 146,388 | 115,501 | 78.90 | 0.230 | 0.000 | 1.600 | 0.193 |
| 40 | Speed 28 m A TI | | | 146,388 | 115,501 | 78.90 | 0.188 | 0.000 | 1.133 | 0.106 |
| 41 | Speed 50 m A TI | | | 146,388 | 115,501 | 78.90 | 0.198 | 0.000 | 1.429 | 0.155 |
| 42 | Speed 28 m C TI | | | 146,388 | 113,984 | 77.86 | 0.196 | 0.000 | 1.111 | 0.114 |
| 43 | Speed 28 m B TI | | | 146,388 | 113,984 | 77.86 | 0.209 | 0.000 | 1.250 | 0.131 |
| 44 | Speed 50 m B WPD | W/m ² | | 146,388 | 115,501 | 78.90 | 223 | 0 | 16,384 | 476 |
| 45 | Speed 50 m C WPD | W/m ² | | 146,388 | 115,501 | 78.90 | 169 | 0 | 12,908 | 467 |
| 46 | Speed 28 m A WPD | W/m ² | | 146,388 | 115,501 | 78.90 | 140 | 0 | 10,890 | 371 |
| 47 | Speed 50 m A WPD | W/m ² | | 146,388 | 115,501 | 78.90 | 149 | 0 | 15,258 | 366 |
| 48 | Speed 28 m C WPD | W/m ² | | 146,388 | 113,984 | 77.86 | 153 | 0 | 14,040 | 413 |
| 49 | Speed 28 m B WPD | W/m ² | | 146,388 | 113,984 | 77.86 | 148 | 0 | 13,311 | 362 |