Monthly Data Summary for August 2007
This update summarizes the monthly data results for the Tisbury monitoring site in
Martha Vineyard, MA, at 41° 26’ 1.66” N, 70° 37’ 18.06” W. More information on the
sensors and site can be found at http://www.ceere.org/rel/rel_resourcedata.html.

Towers and sensors
There are two anemometers and one vane sensor each at a height of 49m and 35m.

<table>
<thead>
<tr>
<th>Height</th>
<th>Wind Speed</th>
<th>Prevailing Wind Direction</th>
<th>Power Law Shear Exponent</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mean [m/s]</td>
<td>Max [m/s]</td>
<td>Turbulence Intensity</td>
</tr>
<tr>
<td>49m</td>
<td>4.22</td>
<td>12.8</td>
<td>0.26</td>
</tr>
<tr>
<td>35 m</td>
<td>3.95</td>
<td>11.6</td>
<td>0.22</td>
</tr>
</tbody>
</table>

The data reported here are based only on the percentages of good data indicated; missing
data may skew these values.

Data Recovery
All raw wind data are subjected to a series of tests and filters to identify data that are
faulty or corrupted. The gross percentage of data recovered (ratio of the number of raw
data points received to data points expected) and net data recovered (ratio of raw data
points which passed all QA control tests to data points expected) are shown below.

<table>
<thead>
<tr>
<th></th>
<th>Gross Data Recovered [%]</th>
<th>Net Data Recovered [%]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>100</td>
<td>88.366</td>
</tr>
</tbody>
</table>

The net data recovery percentage is less than 100% because one of the anemometers at a
height of 49m (Anemometer 49a) was not working properly and also due to few out of
range hours detected on the anemometer & vane sensors.
**Maintenance Issues and Changes to Site Configuration**
No maintenance was conducted during the month of August.

**Monthly Data Time Series**
Seen below is a graph of wind speed at Tisbury site for the month of August 2007, at the anemometer height of 49 m.

![Tisbury Wind Speed Time Series, 49m](image-url)