Data Update for Thompson Island, Boston Harbor, MA  
July 2008

Prepared for  
Massachusetts Technology Collaborative  
75 North Drive, Westborough, MA 01581

By Fred Letson

Monthly Data Summary for July 2008
This update summarizes the monthly data results for the Thompson Island monitoring site in Boston Harbor, MA, at 42° 18’ 56” N, 71° 0’ 40” W (NAD 83). More information on the sensors and site can be found at http://www.ceere.org/rerl/rerl_resourcedata.html.

<table>
<thead>
<tr>
<th>Height</th>
<th>Wind Speed</th>
<th>Turbulence Intensity</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></td>
<td></td>
</tr>
<tr>
<td>40 m</td>
<td>4.54</td>
<td>15.15</td>
<td>0.15</td>
<td>225.00</td>
</tr>
</tbody>
</table>
| 25 m   | 4.17       | 14.79                | 0.17                      | 202.50                  | 0.18

The data can be found at the Renewable Energy Research Laboratory web site: www.ceere.org/rerl/rerl_resourcedata.html. It is important to note that summary data are only reported when the monthly net data recovery (see below) is at least 90%. This requirement ensures that the values reported here are comparable with values from other months.

Additional information about interpreting the data presented in this report can be found in the Fact Sheet, "Interpreting Your Wind Resource Data," produced by RERL and the Massachusetts Technology Collaborative (MTC). This document is found through the RERL website: www.ceere.org/rerl/about_wind/RERL_Fact_Sheet_6_Wind_resource_interpretation.pdf.

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.
Maintenance Issues and Changes to Site Configuration
The following maintenance/equipment problems occurred during July 2008, and the following corrective action was taken:

- The secondary Anemometer at each height stopped reporting during the tower raising on November 2\textsuperscript{nd} probably due to damage to the sensor cables.

Monthly Data Time Series
Seen below is a graph of wind speed at Thompson Island for the month of July 2008, at the highest anemometer height of 40 m.