



# Renewable Energy Research Laboratory

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## Data Update for Bishop and Clerks, Nantucket Sound, MA July 2005

Prepared for  
Massachusetts Technology Collaborative  
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### Monthly Data Summary for July 2005

This update summarizes the monthly data results for the Bishop and Clerks monitoring site in Nantucket Sound, MA, at 41° 34' 27.6" N, 70° 14' 59.5" W (NAD 83). More information on the sensors and site can be found at [www.ceere.org/rerl/rerl\\_resourcedata.html](http://www.ceere.org/rerl/rerl_resourcedata.html).

Height	Wind Speed			Prevailing Wind Direction
	Mean [m/s]	Max [m/s]	Turbulence Intensity	
15 m	6.25	16.61	0.12	225, SW

The data can be found at the Renewable Energy Research Laboratory web site: [www.ceere.org/rerl/rerl\\_resourcedata.html](http://www.ceere.org/rerl/rerl_resourcedata.html).

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](http://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.

Gross Data Recovered [%]	100
Net Data Recovered [%]	98.78

### Maintenance Issues and Changes to Site Configuration

The following maintenance/equipment problems occurred during July 2005, and the following corrective action was taken:

- The battery did not charge during July 2005, due to a failed solar panel. The solar panel was replaced on April 12, 2006.

### Monthly Data Time Series

Seen below is a graph of wind speed at Bishop and Clerks for the month of July 2005, measured at the anemometer height of 15 m.

