



# Renewable Energy Research Laboratory

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## Data Update for Bishop and Clerks, Nantucket Sound, MA April 2006

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

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### Monthly Data Summary for April 2006

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	n/a	n/a	n/a	n/a

A data logger failure prevented the collection of data during the first 12 days of this month. Other data recorded at this site are available at the Renewable Energy Research Laboratory web site: [www.ceere.org/rerl/rerl\\_resourcedata.html](http://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](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 [%]	58.3
Net Data Recovered [%]	58.3

### Maintenance Issues and Changes to Site Configuration

The following maintenance/equipment problems occurred during April 2006, and the following corrective action was taken:

- A maintenance visit occurred on April 12. The data logger and failed solar panel were replaced.

### Monthly Data Time Series

Seen below is a graph of wind speed at Bishop and Clerks for the month of April 2006, measured at the anemometer height of 15 m.

