



# Renewable Energy Research Laboratory

Department of Mechanical and Industrial Engineering  
University of Massachusetts  
160 Governor's Drive  
Amherst, MA 01003-9265

Phone: 413-545-4359  
Fax: 413-577-1301  
[www.ceere.org/rerl](http://www.ceere.org/rerl)  
[rerl@ecs.umass.edu](mailto:rerl@ecs.umass.edu)



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

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

By Chris Elkinton

### Monthly Data Summary for May 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	7.37	19.64	0.11	202.5, SSW

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). 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 [%]	100.00
Net Data Recovered [%]	99.94

### Maintenance Issues and Changes to Site Configuration

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

- There were no maintenance issues or actions to report this month.

### Monthly Data Time Series

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

