



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
rerl@ecs.umass.edu



Data Update for Bishop and Clerks, Nantucket Sound, MA March 2007

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

By Fred Letson

Monthly Data Summary for March 2007

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.

Height	Wind Speed			Prevailing Wind Direction
	Mean [m/s]	Max [m/s]	Turbulence Intensity	
15 m	8.8	19.43	0.1	244.3, WSW

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.

Gross Data Recovered [%]	94.892
Net Data Recovered [%]	94.889

Maintenance Issues and Changes to Site Configuration

Due to an interruption in cellular modem service at B&C, the data from February 12th at 17:40 until March 5th at 13:40 were lost. Attempts to retrieve the data manually were thwarted by ice at the site. Data after this lapse were received normally. Monthly averages are reported normally for March, since more than 90% of data were recovered.

Monthly Data Time Series

Seen below is a graph of wind speed at Bishop and Clerks for the month of March 2007, measured at the anemometer height of 15 m.

