

Cape Saint Elias Weather Station Frequently Asked Questions

Does the Cape Saint Elias Weather Station produce a table of the highest wind speed?

No, however the highest wind speed captured each hour is returned to the server in the hourly summary report. One could query the database at the server or at AOOS to plot or list the hourly peak wind speeds, if that is what is meant by this question.

Does the Cape Saint Elias Weather Station/can it produce a warning message or alert based on a maximum reportable gust or high wind event?

Not at the sensor site, but this can be accomplished at the server end where more resources are available.

Is the Cape Saint Elias Weather Station set to shut off when the winds get too high?

No.

What is the maximum reportable wind speed and gust the Cape Saint Elias Weather Station can log?

150 MPH.

Will the raw data go onto AOOS or just the hourly average?

The time series is not returned by the data station. The hourly reports are delivered to AOOS and are displayed on the site's web page.

What exactly is the raw data?

The data station produces only hourly summary reports. The wind is sampled at a 3 second rate; the 3 second time series is vector averaged over the entire hour, producing a vector averaged wind speed and direction, as well as the peak 3 second sample speed for the hour. Wind speed is represented on the web in knots per hour and wind direction in degrees North. So, with the wind being sampled at a 3 second rate, and an hour consisting of 3600 seconds, then 3600 divided by the 3 second sample rate means that the sensor is sampled 1200 times each hour.

How are the gusts calculated over the one-hour reporting period? Are the gusts the highest for the hour in 2 or 3 sec. gust measurements?

See the previous answer.

Is the station programmable via remote access?

For all practical purposes, the answer is no. The communication path should be considered to be from the remote to the server only. The data collector cannot be reprogrammed remotely in this configuration.

The Cape Saint Elias Weather Station website includes a link to station metadata under "site information."

<http://denali.Micro-Specialties.com/CapeStELias/CSE%20Metadata.htm>