

# Data Viewer Software



**Detailed Information on System Status**

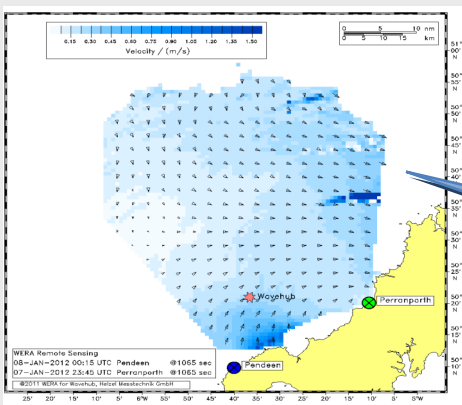
**Clearly represented data maps near real-time**

**Easy generation of animated maps**

**Access to individual grid point data via mouse click**

**Access to archived data / maps**

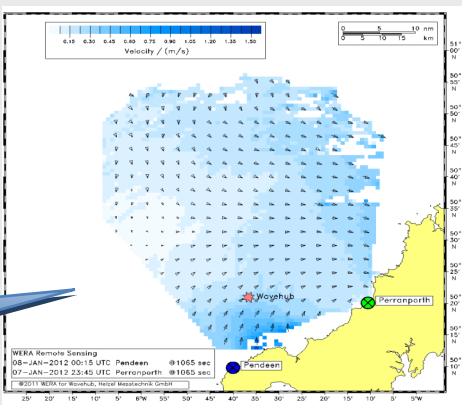
**Options to include other sensors**



**Quality controlled data for each individual grid cell carried out in near real-time**

**Original current map**

**Same map with Quality Control**



Always a wavelength ahead !



## Providing comfortable data handling and export options in various formats



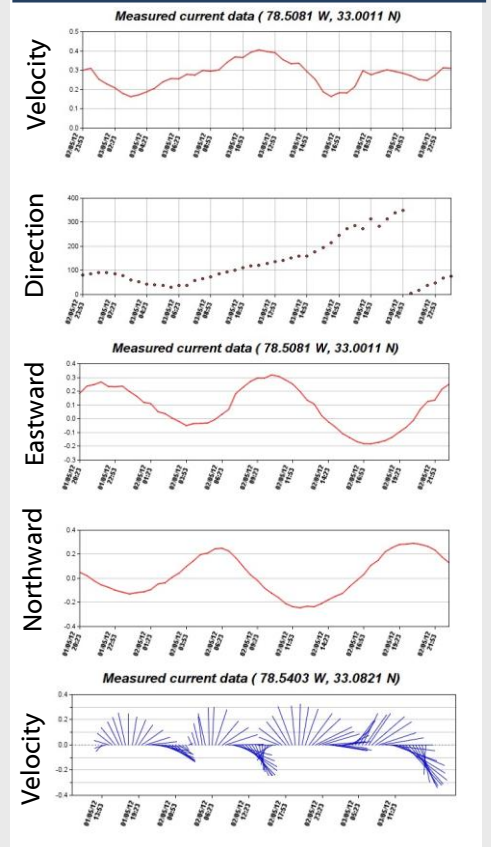
The screenshot shows the WERA DataViewer interface with the following sections:

- Point coordinates:** Latitude 33.1091 N, Longitude 78.1541 W, Grid in x 48, Grid in y 43.
- Select data to plot:**
  - 1st / Single plot: Absolute current velocity (Points plot),  Display vertical grid
  - Add 2nd plot: GTN radial current vel. accuracy (Points plot),  Remove artifacts
- Select time range:**
  - Select date: May 2012 (Calendar view)
  - Select time (UTC): 07:15:00 (Time picker)
  - Buttons: From (2012-05-01 07:15:00), To (2012-05-01 14:23:00)
  - Result: 15 meas. found in 48 meas.
- Export options:** Generate Plot, Export to NetCDF, Export to CSV.

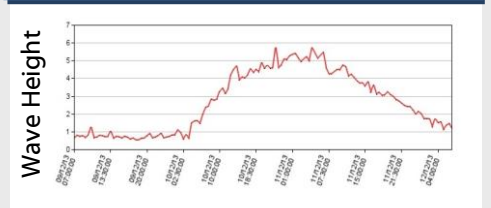
The DataViewer provides all required tools to display current, wind and wave data from single WERA stations or from combined data of a WERA network and to generate animations.

- Configurable quality control on each grid point and **artefact removing** features
- Generation of **automatic ocean alerts** with programmable thresholds for current, waves and wind
- Data export in various formats including NetCDF, comma separated values (.CSV) and GRIB (maps or time series)
- Data management and archiving
- **Current Drift Prediction** for various applications
- **Full-Directional Wave Spectra** available via Synthetic Wave Buoy
- System Status Information and automatic e-mail warnings

### Current Velocity and Direction in various formats



### Significant Wave Height



#### From single stations:

Radial Current Maps

Wave Height Estimates

#### From two or more stations:

Current Vector Maps

Wave Height and Direction

Wind Direction

#### From single grid cells:

Time series of current and wave data in various formats

Directional Wave Spectra