HFRADAR Activities @ ODU

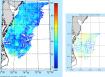


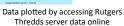




MATLAB Graphical User Interfaces

Display Data





Other Options

- Apply masks to total vector maps.
- Define zoom area for close inspections Define a set of plots to browse.
- · Plot a range ring.

Visualization Options

Allows for several grids/map views

Multiple radial files plotted with color coding (current towards/away from antenna) to check for

Option to plot fewer vectors consistency between Different colors and color schemes Ability to overlay plots sites.

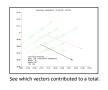
Compute Totals

Arrow style and scale

Uses the least squares method HFR Progs routine for computing totals.

Define a time period. Select a grid. Create a list of radial files. Choose your settings. Process the totals.

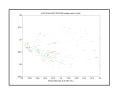




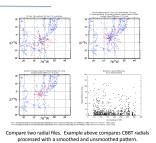
Edit and Compare Radials

Edit a single file by manually clicking on vectors to remove Edit several files using a selected function (i.e. a script to remove





Result of using a script to remove outliers. Radials that were removed shown in red.



Site Updates Since ROWG4

SUNS Site Installed

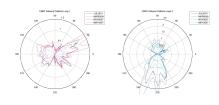
NOAA provided the RADAR equipment and trailer for this site located at the Sunset Beach Resort on the Eastern Shore of Virginia. It has been operational since August 11 2010.





Example of a total map with and without the SUNS

New Patterns at CBBT and CEDR



Four different pattern measurements at CBBT.

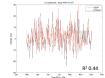


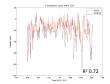
CEDR antenna pattern measured on March 17 2011. Plotted on Google Earth with use of CODAR's PATTtoKML tool.

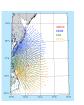
New Data Comparisons

NDBC Buoy 44014



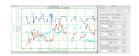






Future Work: CEDR Wave Data Comparison





Sample of wave data collected at CEDR RADAR site during one of the buoy deployments.

Project website: http://www.ccpo.odu.edu/currentmapping

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