Surface Current Mapping at Old Dominion University





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







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Lower Chesapeake Bay (25MHz)

Offshore (5 MHz)

CBB7

Three measured antenna patterns show distinct differences and distortions.



Radial map from a test site at Sunset Beach Resort, a possible spot to relocate CBBT.



Little Island Park, Virginia Beach. Stamped engineering drawings were



305.1 ±718.1 -305.1 Radial Current Velocity (cm/s)



Noise in channel 1. Bursts of HF can set up internal oscillations in older receiver units. In channel 3, vertical of noise are columns included with Bragg when using the default first order line settings (purple lines).







An uptime of 95% since installation in April 2007!



Diagnostic statistics from the HF RADAR National Network site.





Alongshore currents off of Ocean View beach. This information is posted hourly on the ODU website.

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Shoreline erosion at Cedar Island is threatening the CEDR site. Relocation to the southern end of the island or the Nature Conservancy property may be possible; however, power generation in the form of solar power and/or wind power will be necessary.











Measured antenna pattern extended with measured points on land.



radial vectors, associated spectra above.



An inductor (above left) inserted in the mast box will raise the low external noise level on the monopole higher above the internal noise floor.