

HF Radar in the Southern Mid-Atlantic

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**Stations have 4 letter code names.
The year of initial install is given in parenthesis.**

Station Type

- ◆ Long Range (5 MHz)
- Standard Range (25MHz)

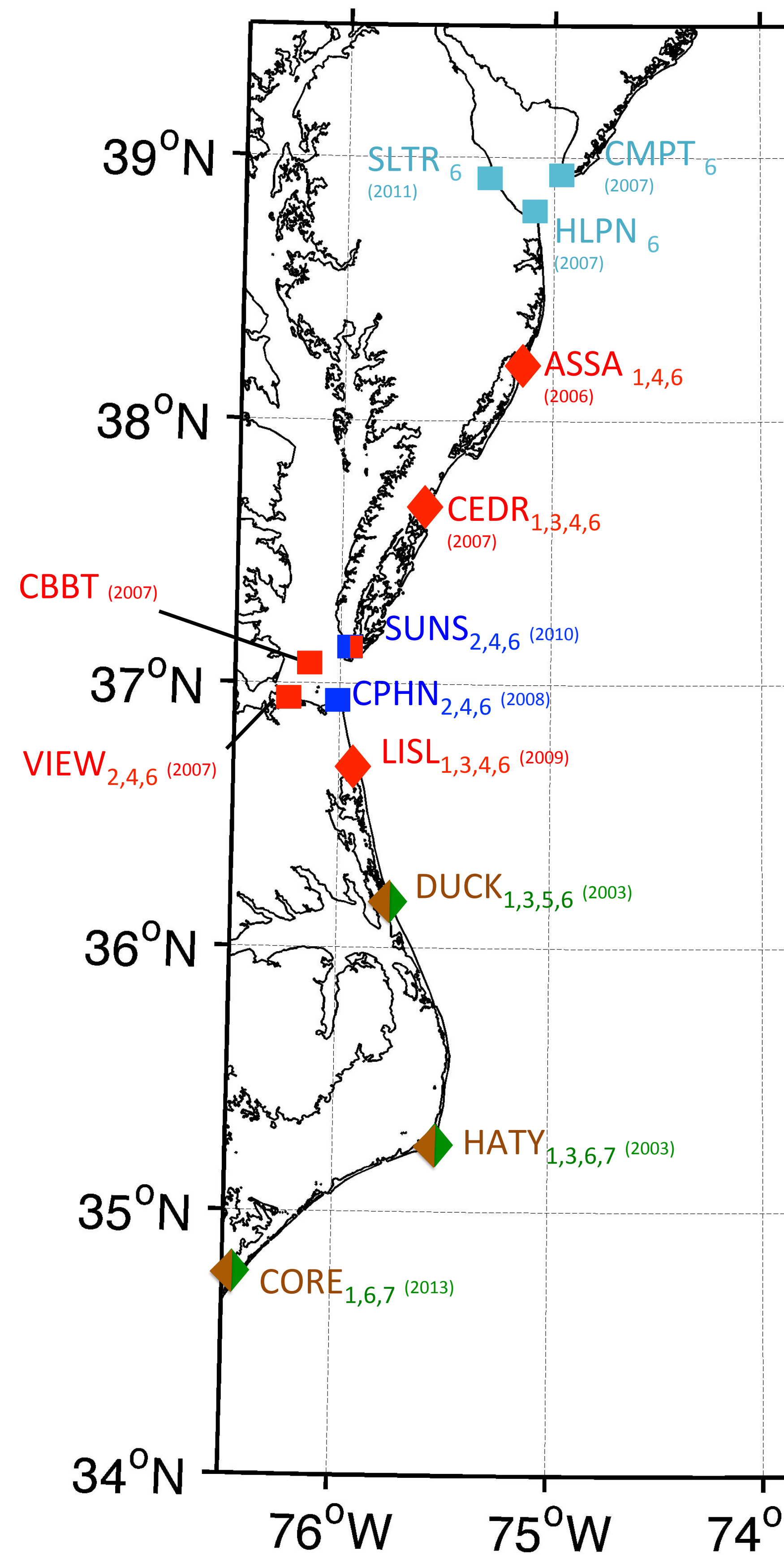
Active Projects & Applications

- 1 Coast Guard Search & Rescue
- 2 NOAA Tidal Current Predictions
- 3 Vessel Tracking
- 4 Data Assimilation Research
- 5 Gulf Stream Energy Research
- 6 National HFR Network and IOOS

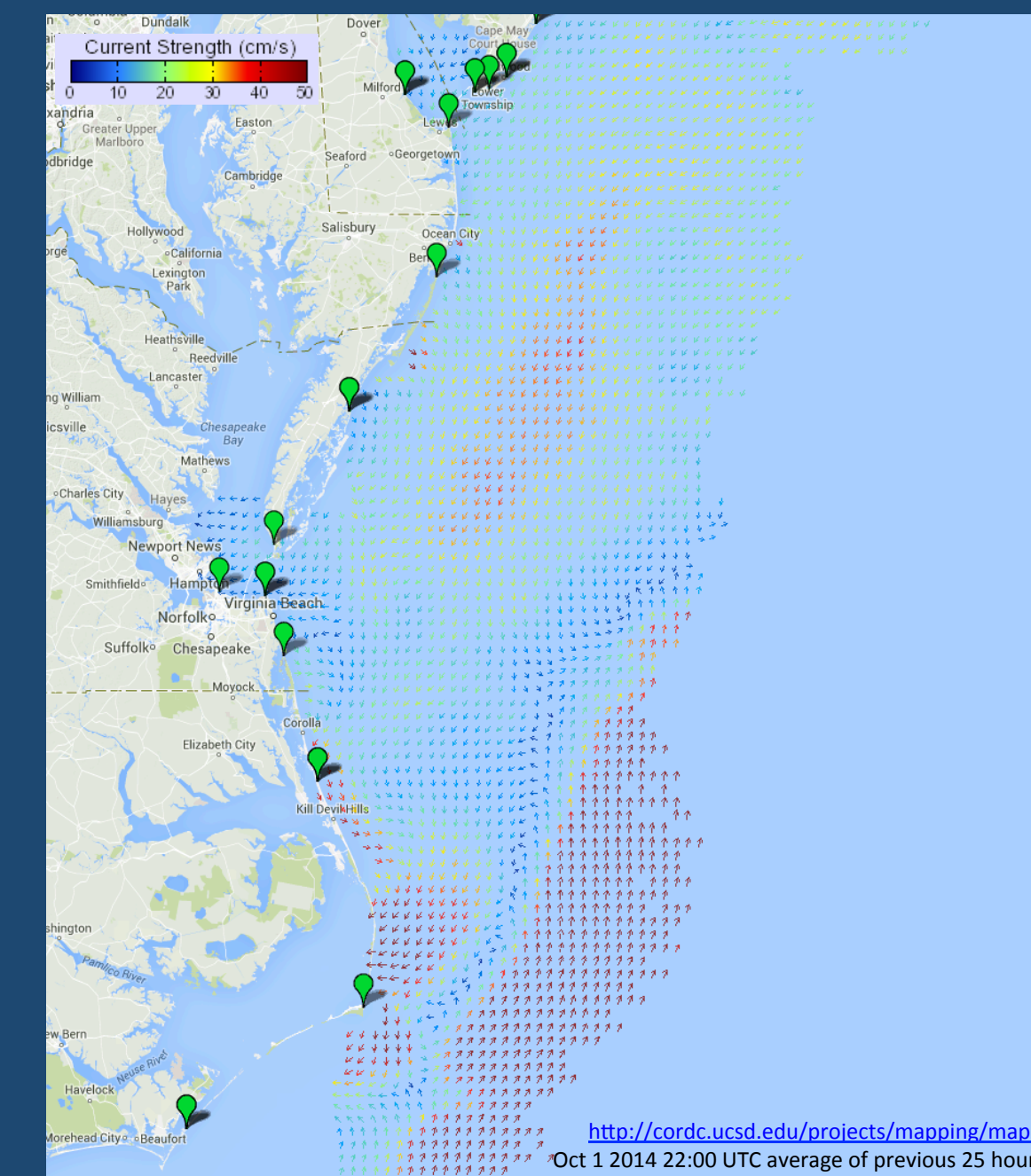
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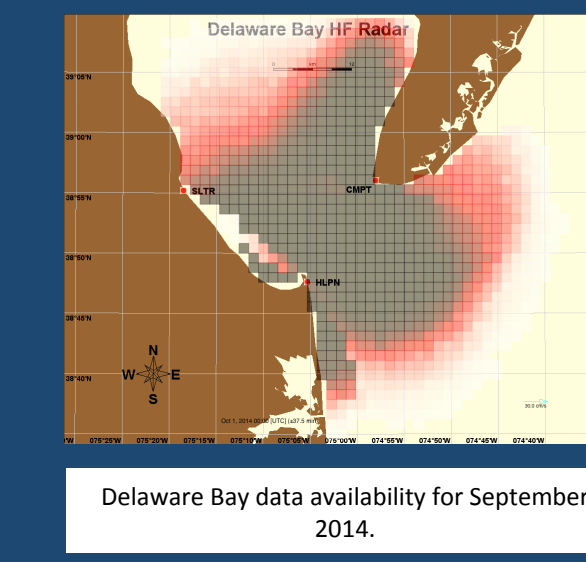
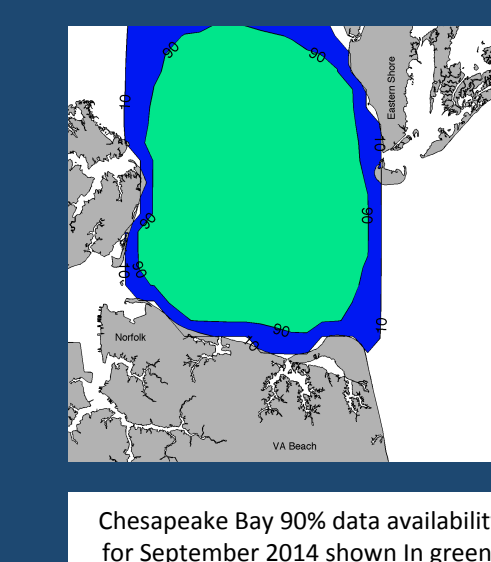
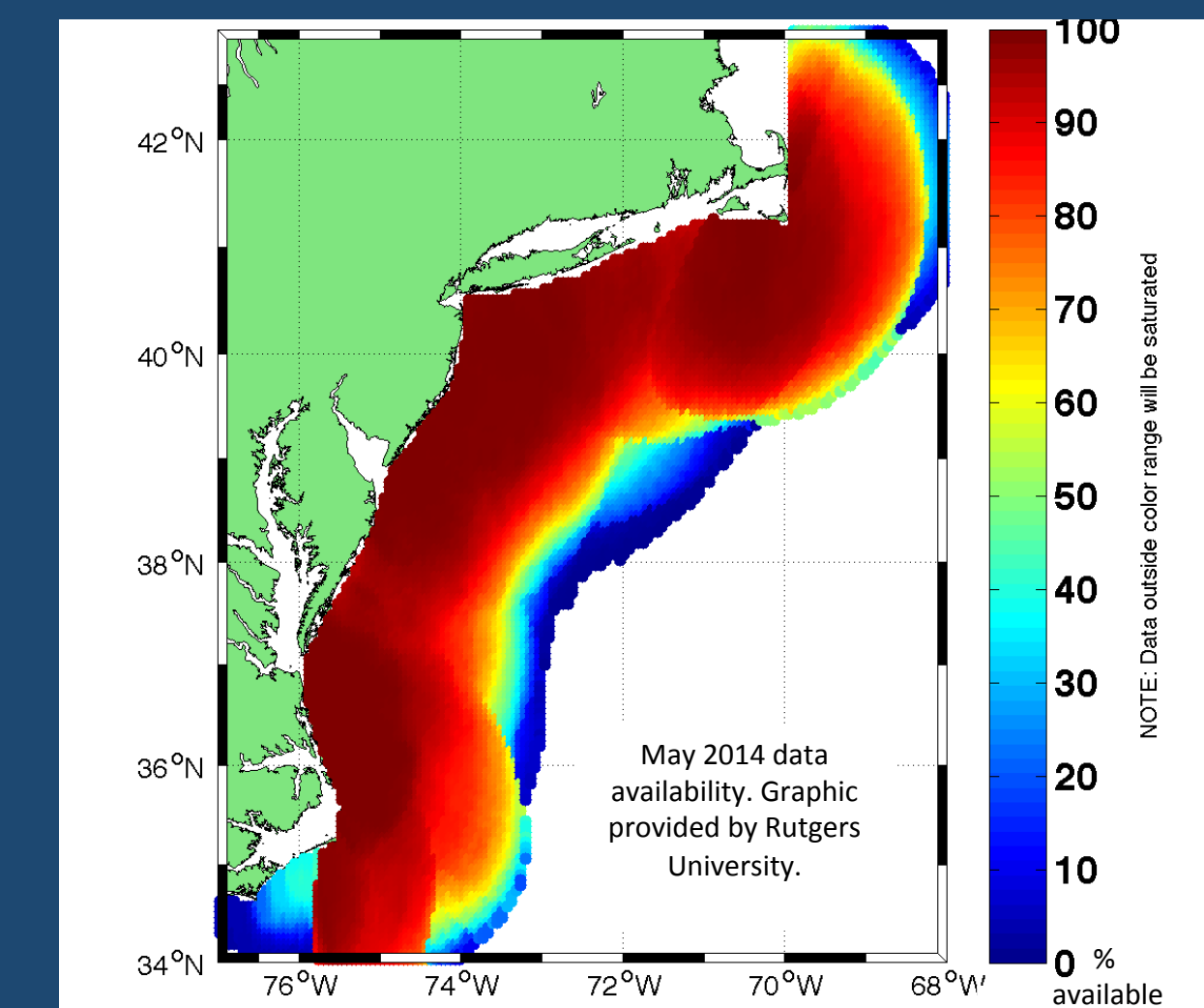
North Carolina stations are managed under the Southeast Atlantic Coastal Ocean Observing Regional Association (SECOORA). All others are a part of the Mid-Atlantic Regional Association Coastal Ocean Observing System (MARACOOS).



Twelve high frequency (HF) radar systems monitor coastal surface currents from the Outer Banks of North Carolina north to Delaware Bay.

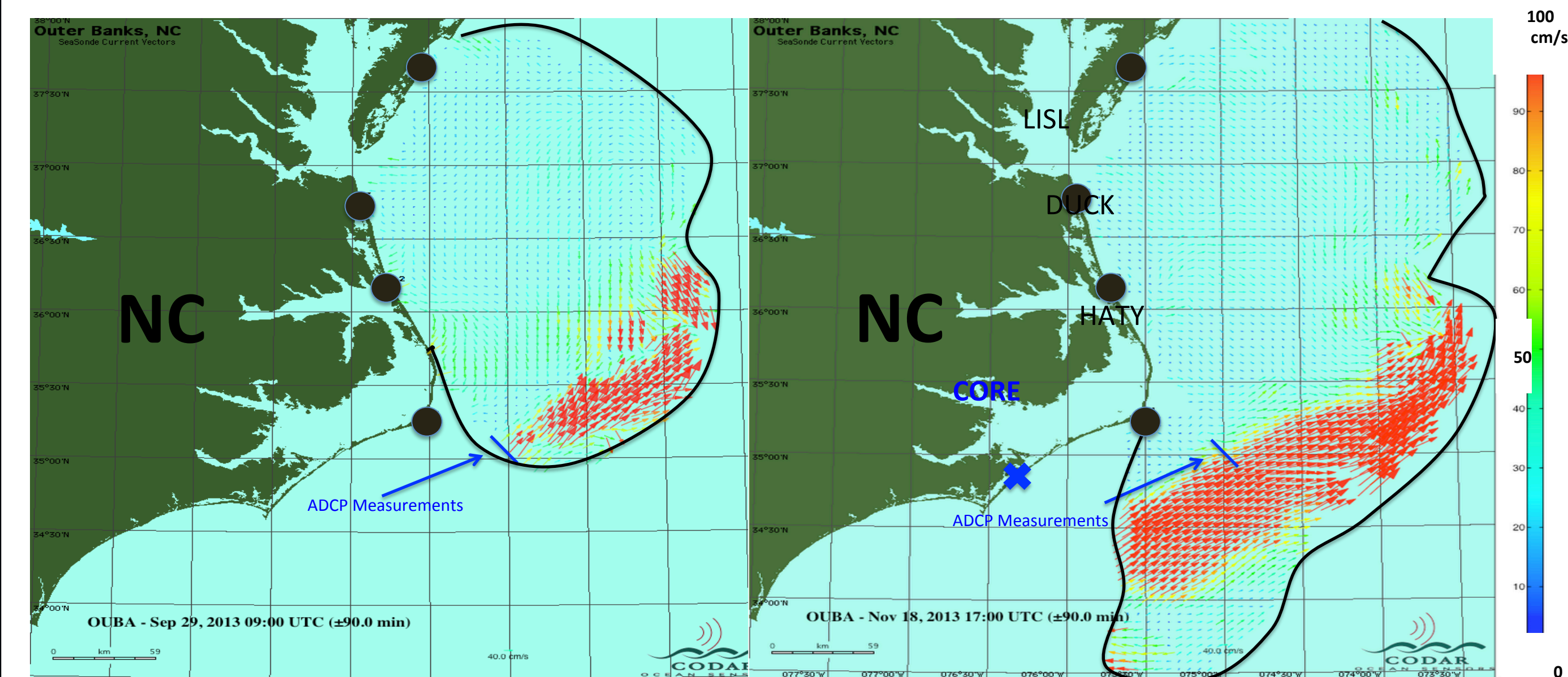


A 25 hour average velocity field displayed on the National HF Radar Network website.



Gulf Stream Hydrokinetic Energy Assessment

An additional radar installed on the Core Banks of NC provides surface current data over a focus area where an ADCP current measurement transect is located.



The state of NC has provided funding to the UNC Coastal Studies Institute for the past four years to identify the best renewable ocean energy options for NC. A main focus of the program is to use engineering, environmental, economic, and practical considerations to choose an area to quantify the available energy resource from the Gulf Stream.



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of NORTH CAROLINA
at CHAPEL HILL

