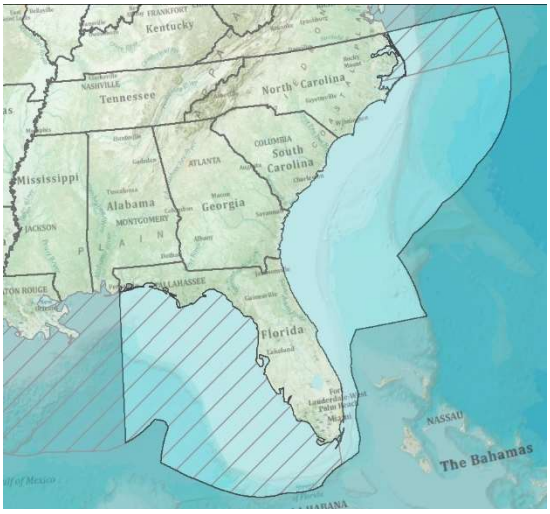
Southeast Coastal Ocean Observing Regional Association

SECOORA's mission is to observe, understand, and increase awareness of our coastal ocean; promoting knowledge, economic and environmental health through strong regional partnerships.

Ocean Data Types:

- Biological- chlorophyll
- Chemical- pH, CO_2, dissolved oxygen
- Physical- wind speed and direction, wave height and period, air temperature, water temperature, salinity, air pressure, and water level.



SECOORA's footprint spans both the eastern Gulf of Mexico and the South Atlantic Bight, covering the shorelines NC, SC, GA, and FL.

Relevant Tools:

- Real Time Portal, http://portal.secoora.org

  Description: Data portals integrate real-time observations with historical records, revealing climate variability and long-term trends. Ocean temperatures, sea level, and the saturation state (ocean acidification) are among the many climate variables that can be accessed through coastal ocean data portals. Using real-time observations, teachers can link their curricula and lesson plans to events in the news

- Data Download, http://portal.secoora.org

  Description: Visit the catalogue to view and data download for applications.

- Educational Resources, www.secoora.org/classroom

  Description: This page is for ocean users, teachers,

Children, teens, and families learned about the basic functions of buoys and a variety of sensors at the Charleston 2015 STEM Festival. Visitors explored UNCW real-time buoy data off the coast of South Carolina in our data portal.

Regional Example:

SECOORA hosts outreach events and provide presentations to citizens and students. Staff will work with you to adapt coastal ocean observations to the interests of citizens and students.

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U.S. Integrated Ocean Observing System (IOOS®)

Our Eyes on the Ocean, Coasts, and Great Lakes

Ocean Data Types:

- Biological- chlorophyll
- Chemical- pH, CO_2, dissolved oxygen
- Physical- wind speed and direction, ocean currents, wave height and period, air temperature, water temperature, salinity, air pressure, and water level.
- Biodiversity – Species presence/absence/abundance: phytoplankton, zooplankton, fish, coral, marine mammal, sea turtles, and more.

U.S. IOOS is the national integrated ocean observing system, working with Regional Associations across the U.S., Caribbean, and Pacific.

Relevant Tools:

- Data Catalog: http://data.ioos.us/

  Data portals integrate real-time observations with historical records, revealing climate variability and long-term trends. Ocean temperatures, sea level, and the saturation state (ocean acidification) are among the many climate variables that can be accessed through coastal ocean data portals. Using real-time observations, teachers can link their curricula and lesson plans to events in the news.

- Data Tools: http://www.ioos.us/

  Access the IOOS Data Catalog and data tools, such as the Data Assemble Centers (DACs), the Environmental Sensor Map, the Coastal and Ocean Modeling Testbed, and much more.

- Educational Resources: https://ioos.noaa.gov/community/education/

  Description: Access to ways to use real data in the classroom, lesson plans, and links to regional resources.

U.S. IOOS Director Zdenka Willis talks to ocean observing students about their presentations while visiting Rutgers University.

Description:

IOOS is our eyes on the ocean, coasts, and Great Lakes. We are an integrated network of people and technology gathering observing data and developing tracking and predictive tools to benefit the economy, the environment, and public safety at home, across the nation, and around the globe.

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