



Mid-Atlantic Regional Association Coastal Ocean Observing System (MARACOOS)

From Cape Cod to Cape Hatteras, we seek, integrate, share, and apply new knowledge and understanding of our coastal ocean.

Ocean Data Types:

- Biological- chlorophyll
- Chemical- pH, CO₂, dissolved oxygen
- Physical- wind speed and direction, wave height and period, air temperature, water temperature, salinity, air pressure, and water level.
- Forecasts for ocean conditions including tides, surface currents, water temperature, waves and salinities; and weather forecasts

Relevant Tools:

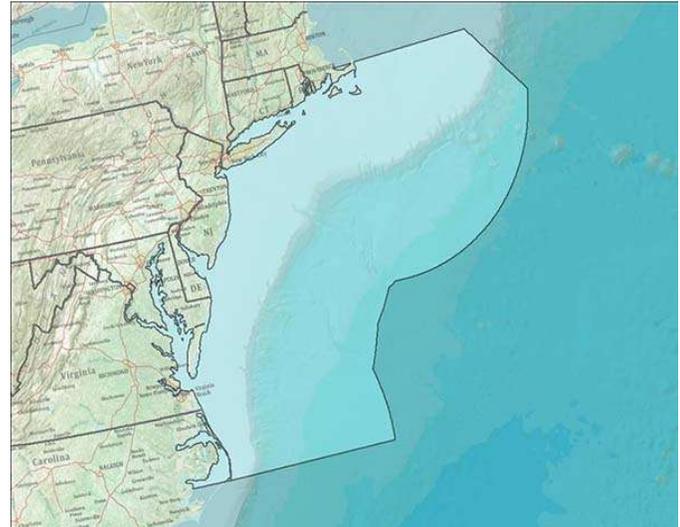
- Real Time Portal, [http:// assets.maracoos.org](http://assets.maracoos.org)
Description: Data portals integrate real-time observations with historical records, revealing climate variability and long-term trends. Ocean temperatures, sea level, and the saturation state (ocean acidification) are among 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. This page is also where you can view real time and download data.
- Educational Resources, <http://maracoos.org/outreach>
Description: This site provides links to grants, newsletters, and other educational publications.

Regional Example:

MARACOOS seeks to educate users on end product delivery and understanding. Through workshops, programs, studies, pilot projects and collaborations, we hope to educate the many users of ocean observation data.

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Our observation region spans inland through the watersheds from Cape Cod, Massachusetts, to Cape Hatteras, North Carolina.



Children are working on an ocean observing puzzle.



Waves



Temperature



Wind



Currents



Water Level



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

Our Eyes on the Ocean, Coasts, and Great Lakes

Ocean Data Types:

- Biological- chlorophyll
- Chemical- pH, CO₂, 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.

Relevant Tools:

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

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- 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.

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.



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



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

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