The Marine Weather Portal: Linking ocean observing programs with the marine community

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or University of South Carolina and the NERRS

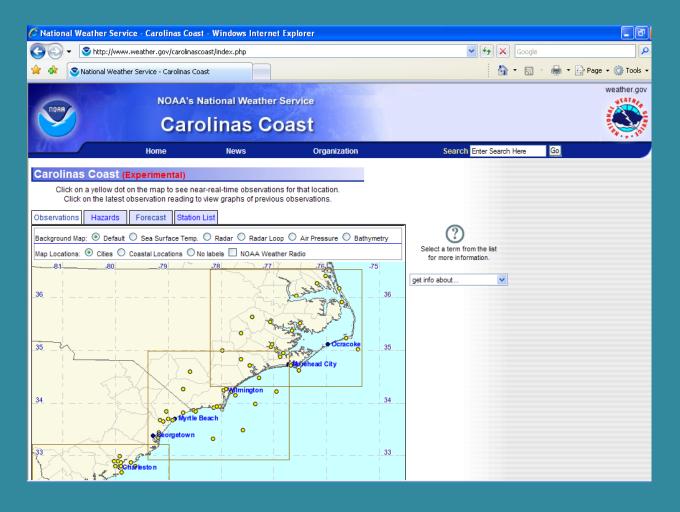
Dwayne Porter, University of South Carolina and the NERRS Centralized Data Management Office





History:

- 2005-2007: Project partners USC, UNCW, and NERRS developed the Carolinas Coast.
- Consolidated data from NDBC, University-based coastal ocean observing programs, NOAA NERRS, and CO-OPs sites into one location.
- Provided access NWS forecasts and hazards.
- NC & SC mariners provided iterative feedback during development.



History:

- 2007 2010: NOAA IOOS award to develop the Marine Weather Portal.
- Carolinas Coast but ramped up for two regions
- NWS Easter Region and Southern
 Region as well as NWS offices in
 Newport/Morehead City,
 Wilmington, Charleston, Key West,
 Corpus Christi, and Brownsville
 participated in development efforts.
- Site is served by SECOORA and NWS offices link to it.



2016-2018 MWP Goals:

- 1) provide 24/7 access to critical marine weather information for the commercial and recreational marine communities in the southeast US and Gulf coast regions
- 2) make NOAA and other provider data more widely accessible on one website
- 3) Each WFO may link to MWP and it is automatically focused on their marine area.

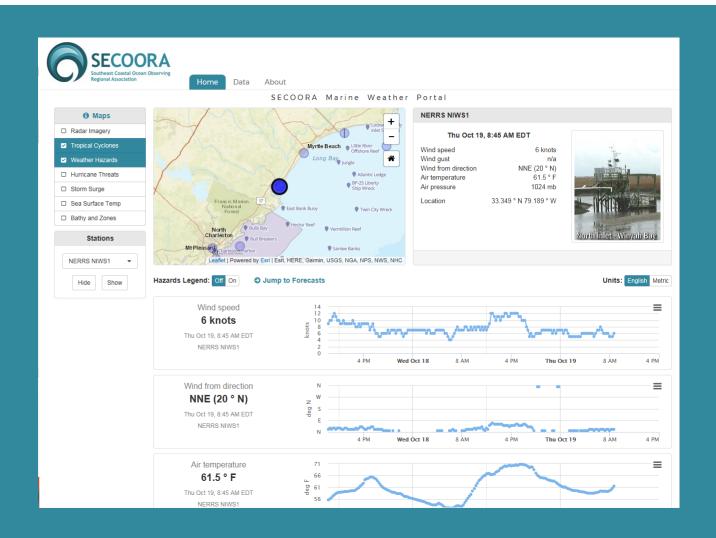


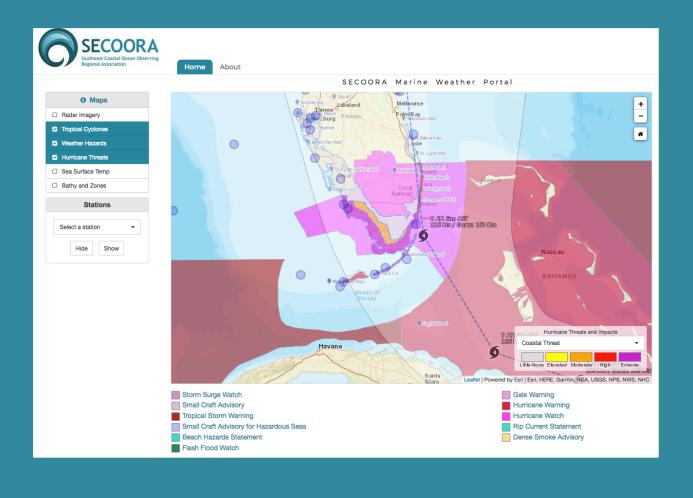
Aggregates data provided by:

- NOAA National Data Buoy Center
- NOAA National Weather Service
- National Estuarine Research Reserves
- IOOS Regional Associations

Applies web services provided by:

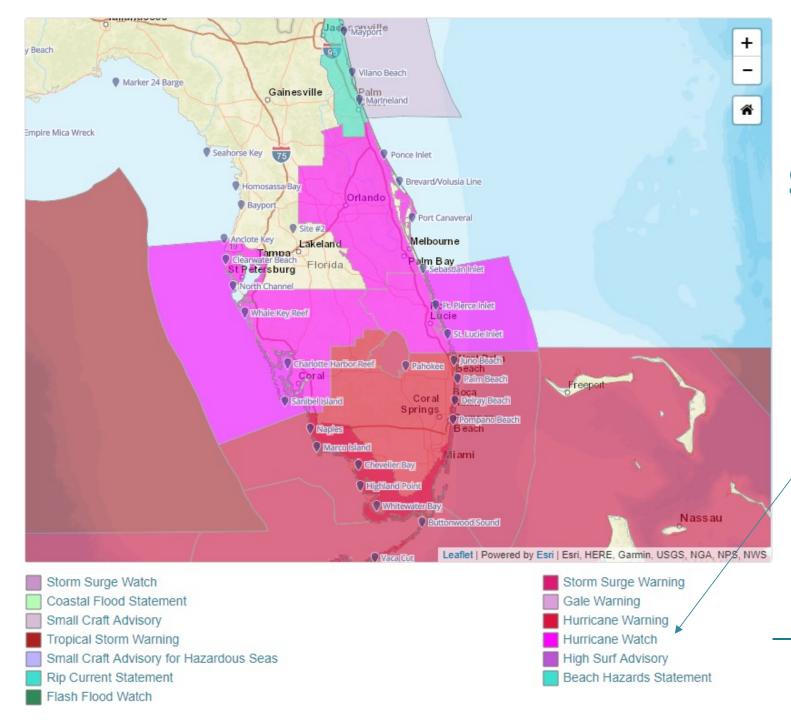
- NOAA nowCoast
- SECOORA





Use the SECOORA Marine Weather Portal to view real-time observations paired with up-todate weather hazards and tropical cyclone forecasts.

http://mwp.secoora.org/



NWS Long Duration Watches / Warnings, Short Duration Warnings, and Short Duration Watches:

Access hazard-specific text forecasts by clicking on the legend links below the map.





Radar Imagery



Jacksonville AR342 Big Ten Fathom Topsail Boxcars The Big Rock 5 Mile Boxcars Columbia WR4 Utttle River Offshore Reef South Carolina Augusta Frying Pan Shoals Light Tower Twin City Wreck North Charleston At Bull Breakers Santee Banks Charleston Edisto Forty Reef Savani Fort Stewart Betsy Ross Reef Buoy KC Tug Rio Apon O Titto Dell □ R H Buoy ● Triple Ledge South Hump Buoy G Jack Mayport Sea Surface Temperature (°F) Southeast Atlantic Temperature Range Vilano Beach Gainesville 79.5 75.75 83.25 Marineland Leaflet | Powered by Esri | Esri, HERE, Garmin, USGS, NGA, NPS

Sea Surface Temperature







ATES Kansas City Washington + StLouis Kansas Missouri Richmond Norfolk Greensboro North Currituck Beach Light Oklahoma City Memphis Monitor National Greenville Charlotte Oklahoma Arkansas Big Ten Fathom Bimingha O Atlanta Mississippi Dallas C I Davidson Wreck Edisto Forty Reef Louisiana DRH Buoy Texas Austin New Jacksonville Orleans GAM MODERT Chandeleur Sound San Antonio 8 AM Wed AST Orlando Buoy 42039 Tres Palacios Bay Jerwater Beach GAM TOB AST Port, Mansfield Jetty on terr ey 8 AM Mon AST Gulf of Mexico si Hunderne 10 AM Fri COT 8 AM SUN AST Humbane Inne Portaut Santo Domingo San Juan Kingston Leaflet | Powered by Esri | Esri, HERE, Garmin, USGS, NGA, NHC

Tracks for Tropical Cyclones

Irma and Jose seen here







Palm Bay PloFt Pierce Inlet Lucie St. Lucie Inlet **Harbor Reef** Beach Beach Nassau 8 PM SER EDT 130 Kts// Custs: 160 Kts Cay Sal Bank Hurricane Threats and Impacts Havana Coastal Threat SarLittle-None Elevated Moderate High م توس بادی مصحبی المحمد بادی Leaflet | Powered by Esri | USGS, NOAA, NHC

NWS Active Hurricane Threats and Impacts

Plan for the degree of threat and potential impacts depicted as you follow your emergency and evacuation plan. The threats and potential impacts shown represent a reasonable worse case scenario for planning purposes.







Immok alee Hickory, Island Springs Coral Big Cypress Springs Reservation Weinderbilt Beach Pompano Miccosukee Beach Reservation Fort Plantation Lauderdale Davie Pembroke Hollywood Hialean Miami Beach Barries Sound Potential Storm Surge Flooding (ft) Leaflet | Powered by Esri | Esri, HERE, Garmin, USGS, NGA, NPS, NHC

NWS Potential Storm Surge Flooding

The Potential Storm Surge Flooding Map was developed by NHC over the course of several years in consultation with social scientists, emergency managers, broadcast meteorologists, and others. The map is intended to depict the risk associated with coastal flooding from storm surge associated with tropical cyclones.



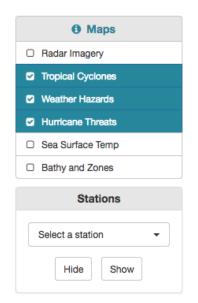


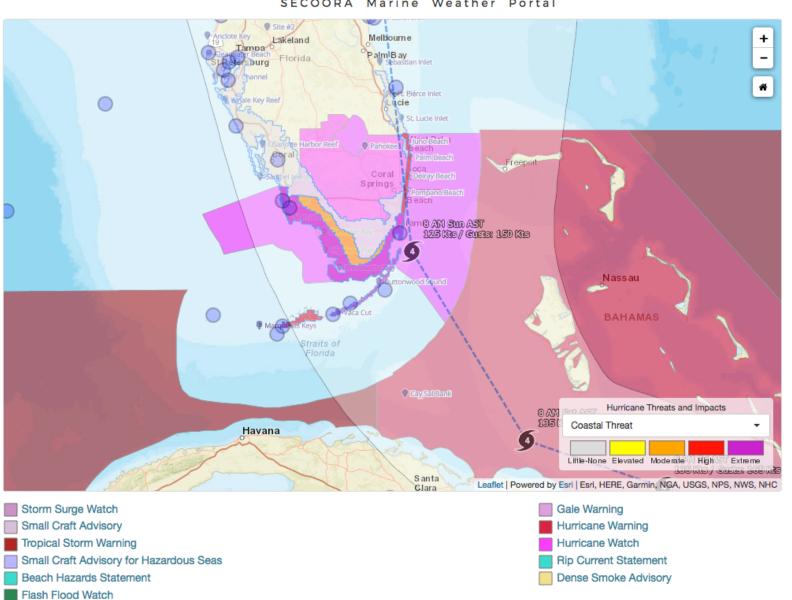


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SECOORA Marine Weather Portal





Hurricane Irma

Pictured is the predicted track of Hurricane Irma coupled with **National Weather** Service Hurricane Threats and Impacts layer



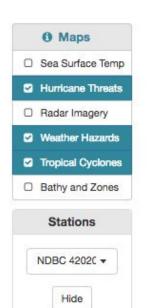


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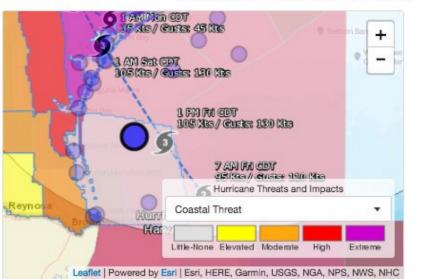
Hazards Legend: Off On

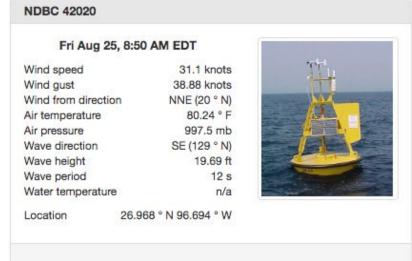
About

SECOORA Marine Weather Portal



Show all





Units: English Metric

Buoy Data

Oversee real-time observations layer with threats and hazards. Pictured is buoy data as Hurricane Harvey approaches Texas

