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Objective and Approach

Objective

- Engage local & regional user groups and provide observations of oceanographic conditions & marine weather in coastal waters offshore of NC & SC
- UNCW operates 10 near-real time observing platforms:
 - 6 meteorological buoys
 - 3 wave buoys
 - 1 pier-based weather station (new)
- Other observing efforts include:
 - 1 non-real time station (ADCP & CTD)
 - 4 short-term CTD sensors
 - USACE/CDIP partnership
- Near-real time observations reported hourly, web-accessible (www.cormp.org, www.secoora.org, www.ndbc.noaa.gov), & QARTOD compliant

SECOORA Focus Area

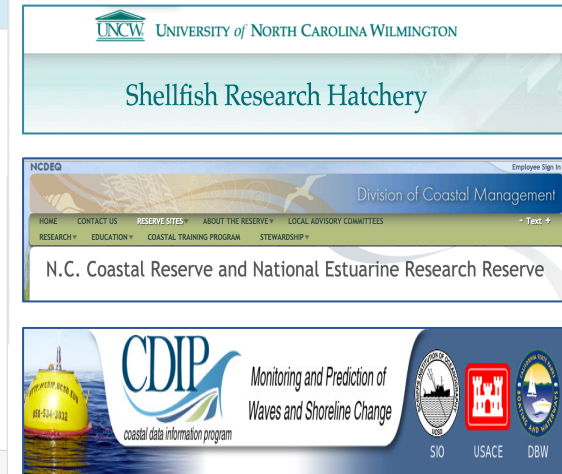
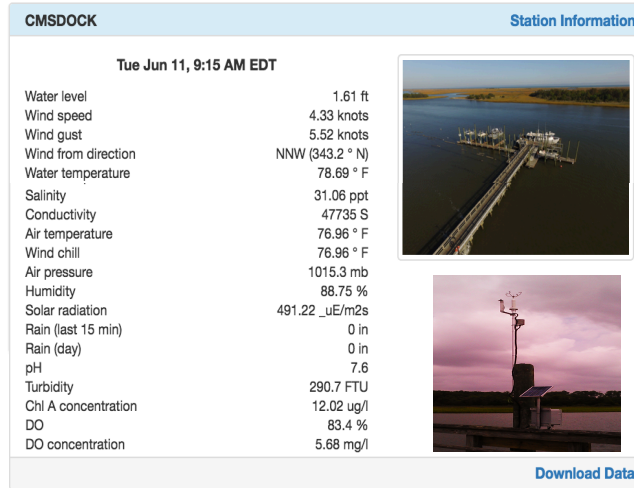
- The UNCW observing program supports SECOORA goals in the areas of Marine Operations; Coastal Hazards; and Living Marine Ecosystems.
- Stakeholders: NOAA's National Weather Service, US Army Corps of Engineers, US Marine Corps, US Coast Guard and USCG Auxiliary, SC/NC Emergency Management, NC Geodetic Survey, Commercial Fishermen, Private Sector, Recreational Users (e.g. fishermen, boaters, beach goers, surfers, divers, swimmers etc.), Academia (research and education), Informal Educators
- Well-trained technical staff regularly requested to provide assistance to IOOS partners (e.g. USACE, CDIP, FACT, & more).

Accomplishments

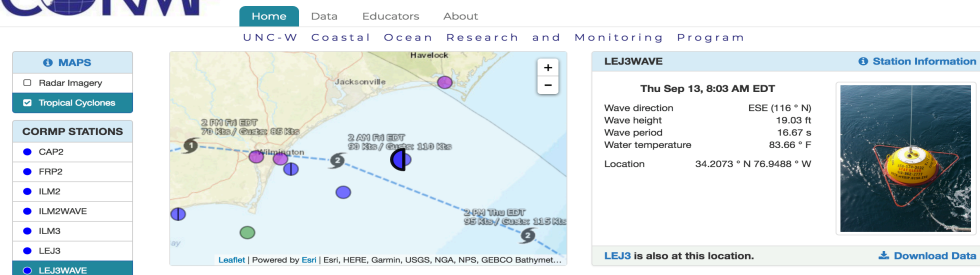
Mooring Maintenance & Data Management



New and Expanded Partnerships



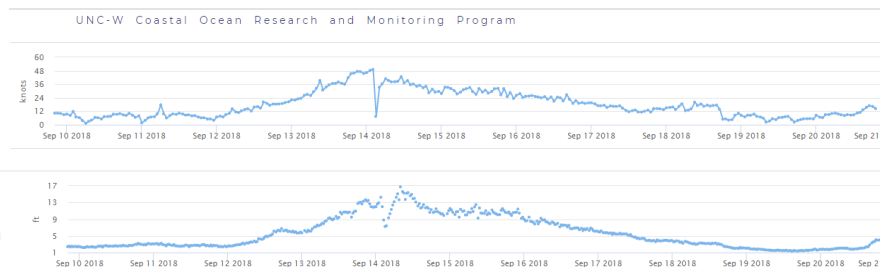
Student Training



Hurricane Florence

Wind speed
 values marked as "bad" not shown
ILM2

Wave height
 values marked as "bad" not shown
ILM2WAVE



Impact

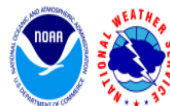
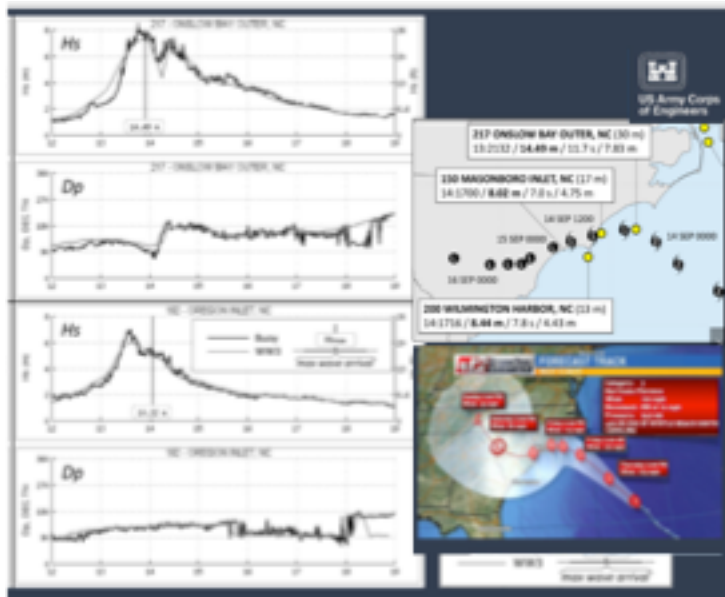
- ~ 7800 users on www.cormp.org
- > 7M data requests (ndbc.noaa.gov)
- Highest use: Wave buoys & 2 SC buoys, Hurricane Florence

CORMP
Oct - Dec, 2018
Report Run Date: 01-Jan-2019

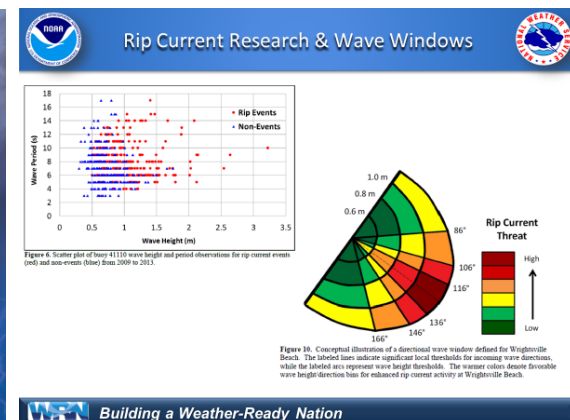
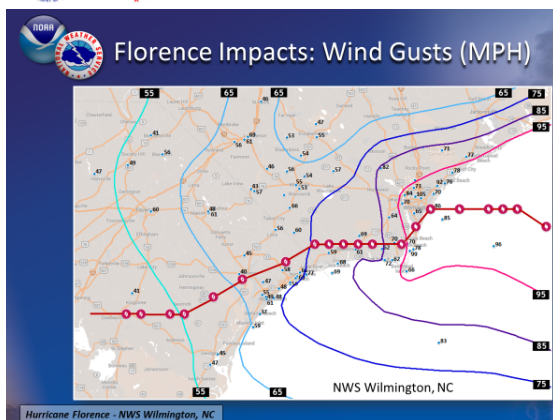
Station	Status	Pages	Data Requests	RSS Requests
41024	Active	2,859	90,093	176,155
41029	Active	8,079	176,116	187,644
41033	Active	4,636	162,005	173,016
41037	Active	9,442	89,985	180,739
41038	Active	4,674	87,824	188,252
41064	Active	2,708	58,202	10,768
41110	Active	21,318	122,057	204,181
41159	Active	10,869	67,309	5,320
OCPN7	Inactive	836	78	0
SSBN7	Active	7,594	40,508	282
10		73,015	894,177	1,126,357

Eastern Region Technical Attachment
No. 2016-01
March 2016

Wave Analysis for Rip Current Forecasting in Southeast North Carolina



NATIONAL HURRICANE CENTER TROPICAL CYCLONE REPORT



"The entire array in that area is very critical to the USACE, and your help making sure they remain on site and take care of the field operations is essential to the success of a lot of work the Corps does in the area."
- R Jensen USACE

"Losing all or key components of the CORMP network would impact public safety. The maritime observational network enables the National Weather Service in multiple ways - from monitoring severe storms, hurricanes, and nor'easters to validating rip current and marine forecasts. The loss of observations also would impact research applications. - S. Pfaff, NOAA NWS – Wilmington