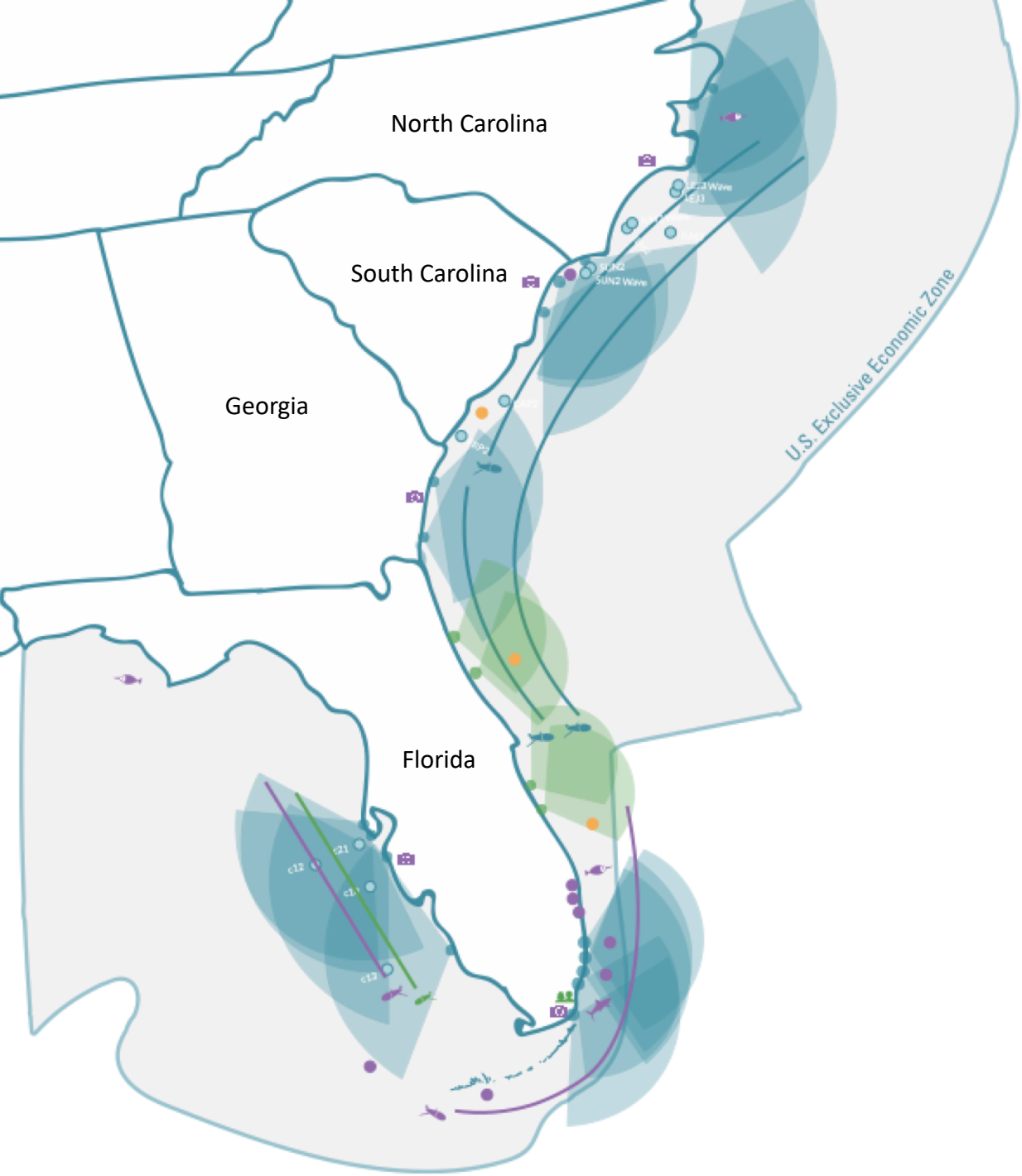


SECOORA
Southeast Coastal Ocean Observing Regional Association

UNCW's Coastal Ocean Research and Monitoring Program (CORMP)

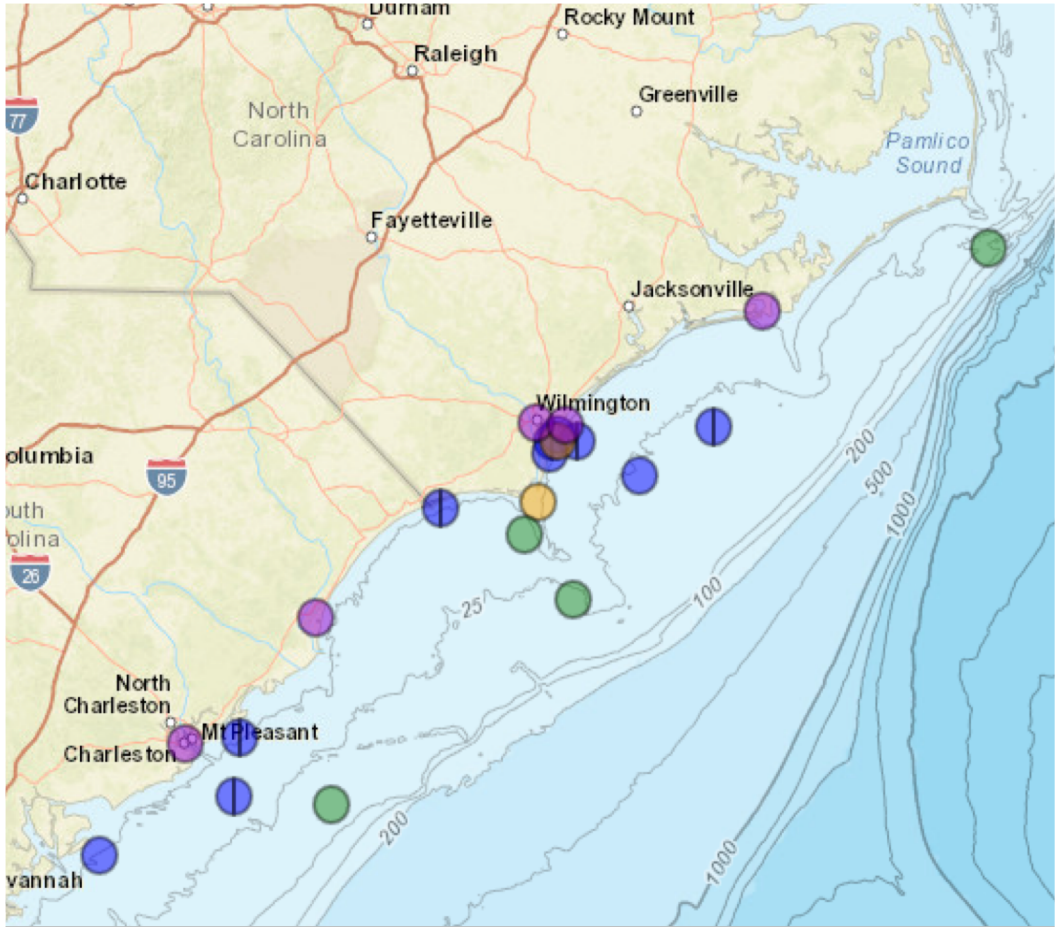
Lynn Leonard
University of North Carolina Wilmington

CODAR OCEAN SENSORS

In-Situ

IOOS Integrated Ocean Observing System

Overview of the Project



CORMP supports 18 real-time observing platforms along the coasts of North and South Carolina:

- 7 Oceanographic & Meteorological buoys*
- 6 Wave buoys*
- 3 Coastal weather towers
- 1 Coastal water quality station + 1 water level station

Plus, 1 non real-time instrumented frame (currents + CTD)

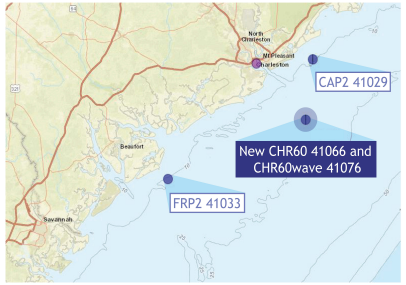
Provide quality controlled real-time data with a target collection efficiency of at least 85%.

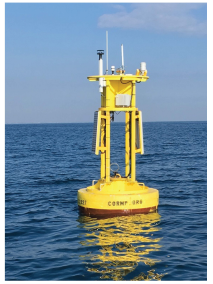
Support other SECOORA partner initiatives (e.g. FACT, USACE/CDIP, MWP and more).

Increase value of observations through product development and stakeholder outreach.

Accomplishments

- Deployment of new weather and wave buoys at entrance to Charleston Harbor Shipping Channel
- Undertaken in partnership with the SC Ports Authority and Charleston Pilot Association





CORMP

There's a new weather buoy in your region!

The **Coastal Ocean Research and Monitoring Program** at UNCW has established a new oceanographic buoy site 19 NM Southeast of the Charleston Harbor entrance. The site consists of two buoys, one that measures and reports weather and water quality conditions, and another that measures and reports wave conditions. The buoys are located just SE of the Charleston 60 SCDNR reef. Mariners are advised to use caution in the area of the buoys to avoid collision.

Please do not tie your vessel off to or anchor close to the buoys.

IOOS SECOORA

A publication sponsored by the Southeast Coastal Ocean Observing Regional Association (SECOORA) pursuant to National Oceanic and Atmospheric Administration Award No. NA16NOS0120028.

The buoys update their data hourly. Data is published on **cormp.org** as well as the National Data Buoy Center's website.

Knowing your local weather conditions can help ensure a safe voyage. Pairing real-time conditions with the National Weather Service Marine forecast gives mariners information needed to avoid hazardous weather conditions and get the most from their time on the water.

www.cormp.org

The new buoys CHR60 and CHR60WAVE are already providing valuable weather and sea state data for ships transiting into and out of Charleston Harbor. This is important meteorological and oceanographic information to help aid in safe and efficient marine transportation.

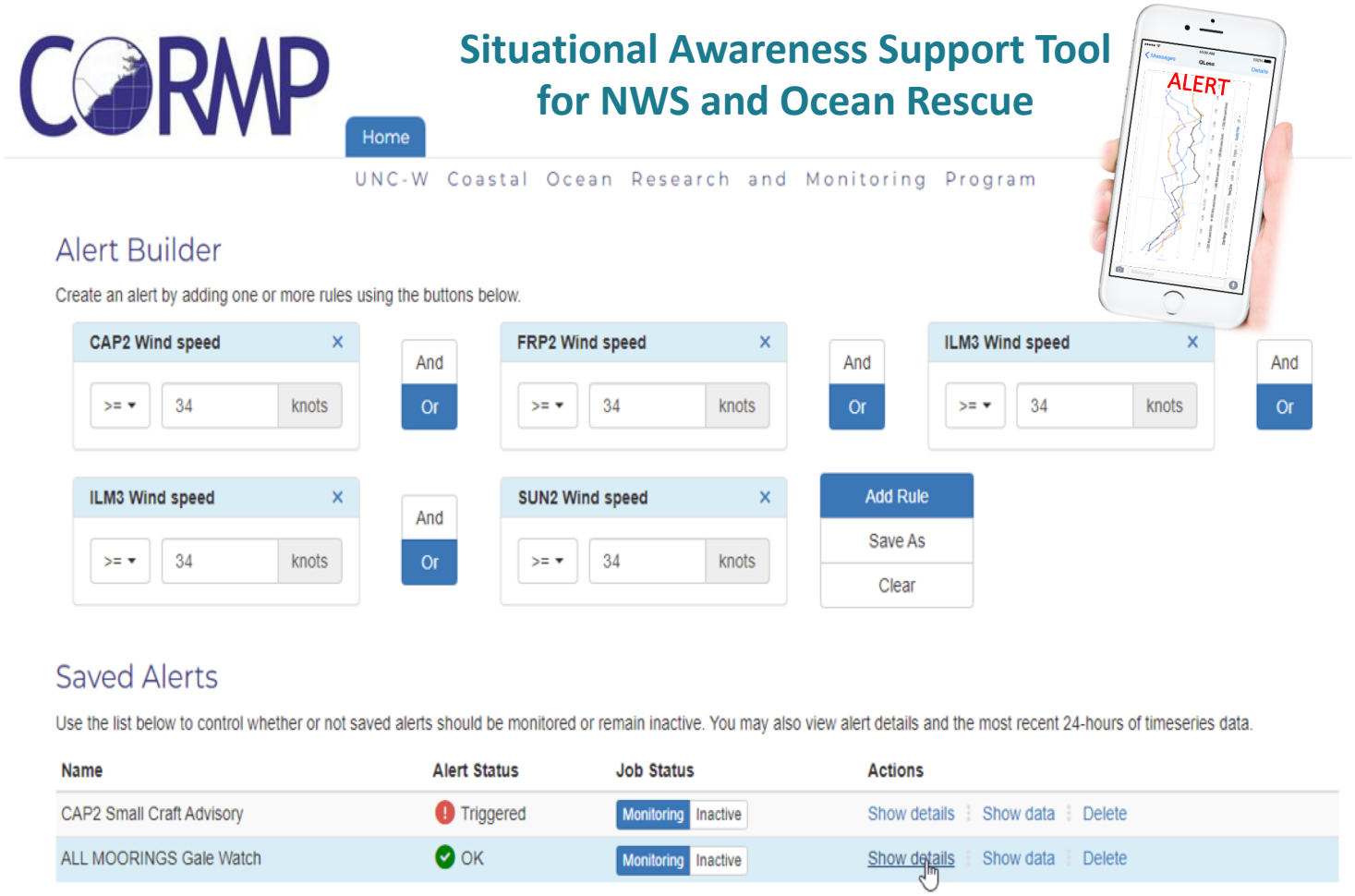
TOM BOYLE

Director, Vessel Operations, South Carolina Ports Authority

"CHR60 fills a void where data were lacking and we use the data on a regular basis, every day. It has been and will continue to be used for forecasts of marine weather and rip currents and for severe weather verification. It will also help with tropical weather forecasting."

Peter Mohlin, Senior Meteorologist NWS, Charleston SC

Challenges and Looking Ahead



Year 2 Goals:

- Maintain observational array and provide real-time data with target collection efficiency of at least 85%.
- Upgrade CHRWAVE to include water level
- Development of SAST with NWS Weather Forecast Offices and Local Ocean Rescue Groups

Challenges:

- Permitting
- Supply chain issues
- Rising costs