

NOAA

Center for Operational Oceanographic Products and Services

Water Level Program Overviews
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Water Levels in the Southeast
June 13-15, 2023

High Level Overview of Program

Our Mission: Meaningful oceanographic data for the Nation

CO-OPS is the authoritative source for accurate, reliable, and timely tides, water levels, currents, and other oceanographic information.

Vision

Supporting the Nation's economy and safeguarding coastal communities with oceanographic information accessible by anyone, at any time, from any place.

Supporting

Mapping and charting for the nation

Safe and efficient navigation

Coastal resilience and planning for coastal inundation

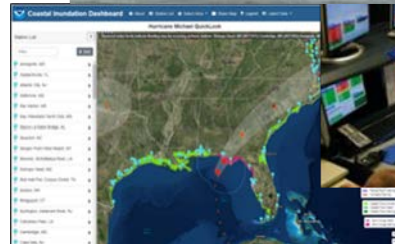
Important Legislative Mandates

Organic Act of Feb 10, 1807 founding of Survey of the Coasts

US Coast and Geodetic Survey Act of 1947

Hydrographic Services Improvement Act (1998)

Boundary Waters Treaty of 1909



SECOORA

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What is the objective of your stations?

National Water Level Observation Network (NWLON)

- Real-time Water Levels
- Meteorological/physical oceanographic data
- Tide predictions
- Tidal datums
- Sea Level trends
- Operational Forecast Systems

210 NWLON Stations

<https://tidesandcurrents.noaa.gov/>



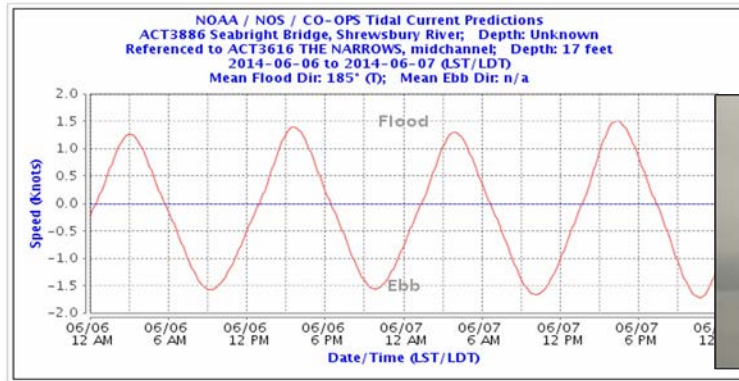
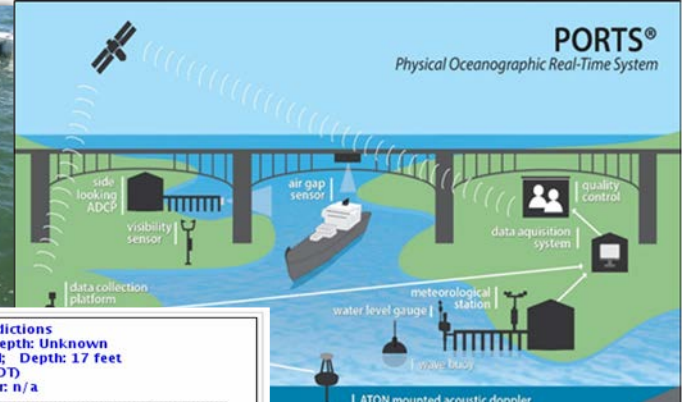
Who are your stakeholders / users?

- Mariners and vessel pilots
- Coastal planners
- Surveyors
- National Weather Service, Office of Coast Survey, National Geodetic Survey, and other NOAA offices
- US Army Corps of Engineers
- US Geological Survey
- US Coast Guard
- Recreational Community
- Commercial and Recreational Fishing
- Academia
- Emergency Managers
- Canadian government
- Power entities
- First Nations and Tribal Partners



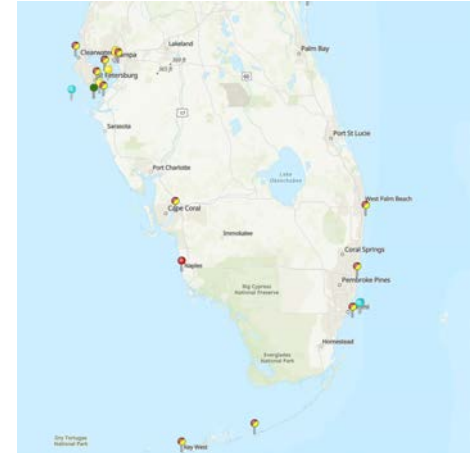
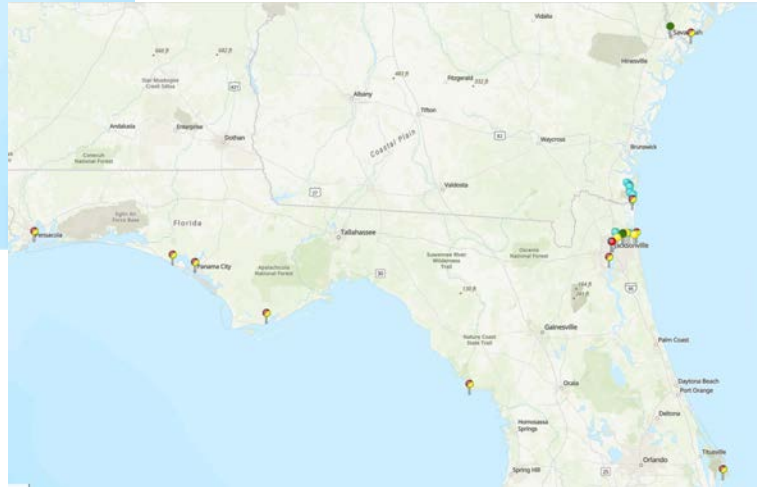
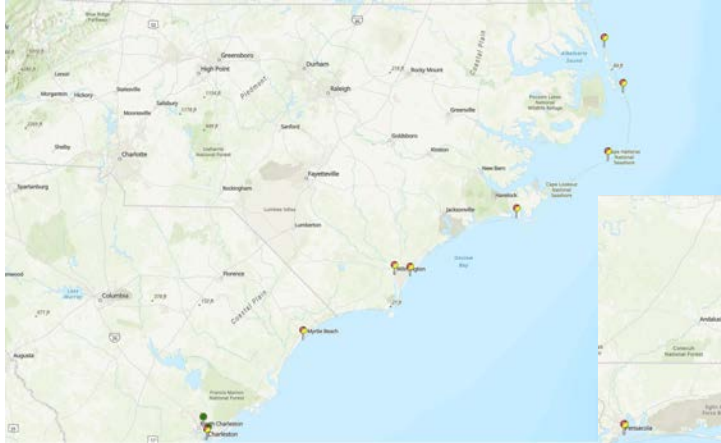
What types of data do you collect?

- Currents
- Water temp
- Air temp, Barometric Pressure
- Salinity
- Wind Spd/Dir
- Waves
- Air gap
- Visibility, Relative Humidity
- Bench Mark Heights



Where are your water level stations?

<https://tidesandcurrents.noaa.gov/map/index.html>



JCL, Delray Beach GIS, Village of Wellington GIS, County of Collier, County of Lee, FL, County of Orange, FL, County of Pinellas, Indian River County

Southeast NWLON
and PORTS
stations



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Expansion Opportunities

- [PORTS](#) program – a partnership where local port partners fund the installation and O&M of sensors
- [Coastal Inundation Dashboard](#) – partner data are not ingested into CO-OPS but instead displayed in real-time for decision making purposes
- [Datums partnerships](#) – Partners help fill CO-OPS datum gaps

