



S.E. COASTAL COMMUNITIES WATER LEVEL OBSERVATION SYSTEM



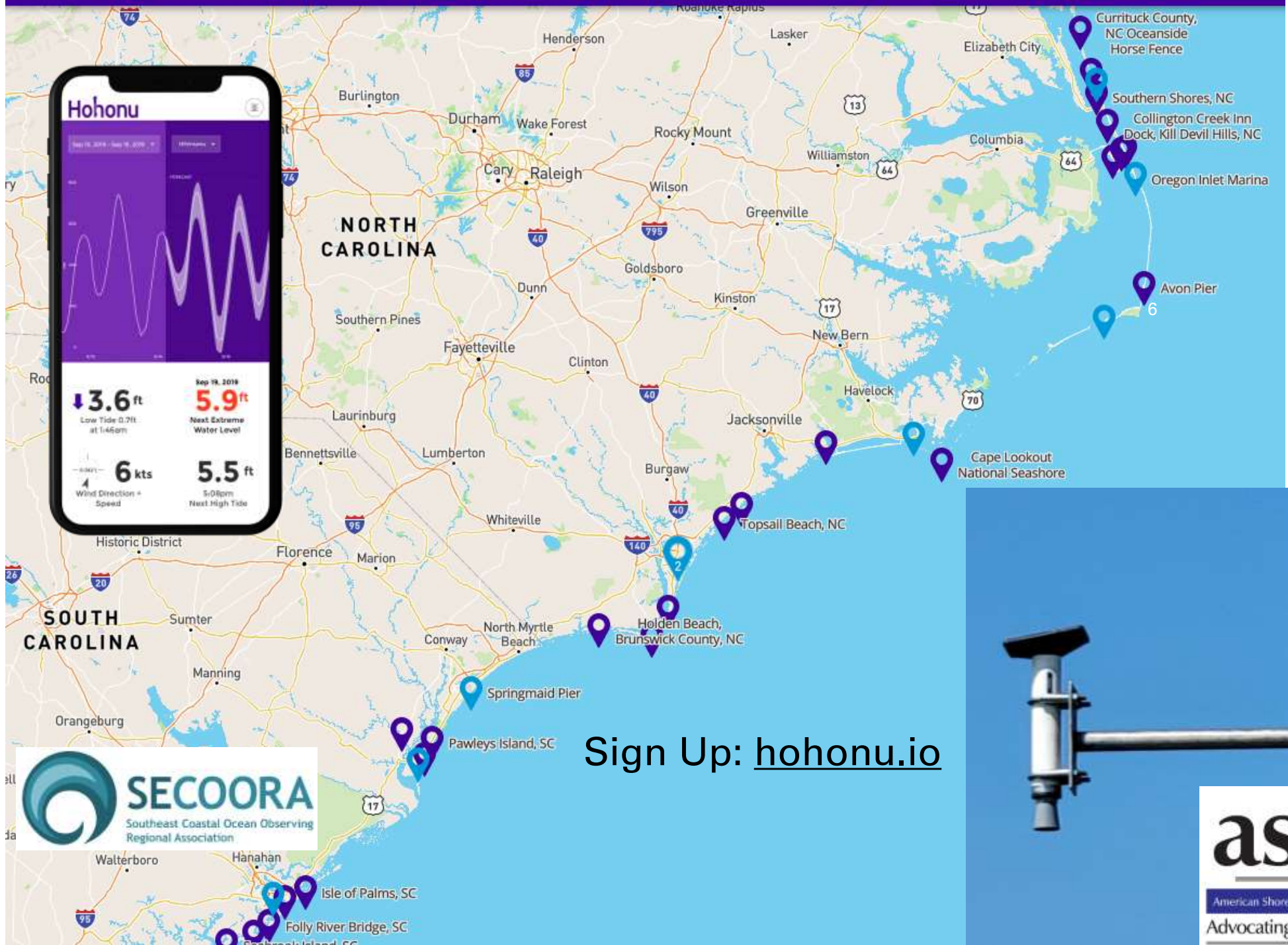
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Science Director, ASBPA
May 6, 2022



Hohonu



SE Coastal Communities Water Level Observation System



Sign Up: hohonu.io

NC Sensor Locations

- Currituck County
- Kill Devil Hills/Collington
- Southern Shores
- Duck
- Nags Head
- Hwy 64, Dare Co.
- Jennette's Pier
- Coastal Studies Institute
- Avon Pier
- Cape Lookout
- Surf City
- Topsail Beach
- Kure Beach
- Bald Head Island
- Holden Beach
- Ocean Isle Beach*
- Indian Beach*
- *Hyde County*
- *Beaufort*
- *Hammocks Beach State Park*

*Installed since Nov 2021; Not yet installed



Community Sensor Installation Steps

- Select location
- Pay \$500
- Receive sensor
- Produce mounting
- Install sensor
 - Added to Dashboard (d2w)
- Survey
 - Dashboard elevation updated (NAVD88)
- Calculate tidal datum
 - Dashboard elevation updated (MLLW)



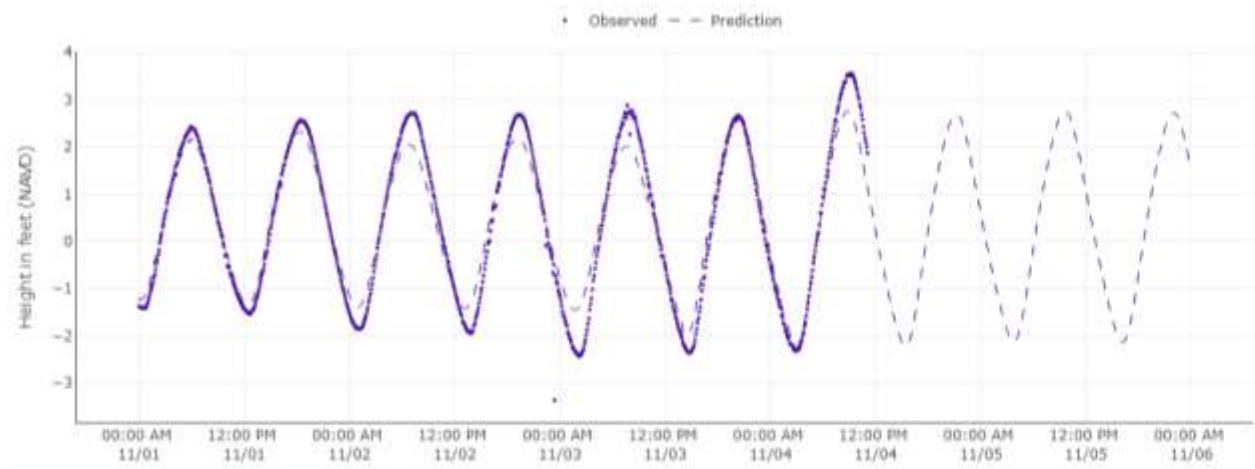
Kure Beach, NC

Date Source: Hohonu
Latitude: 33.9971
Longitude: -77.9217

Last Observed: 1.873 feet

Last Updated: Nov 04, 11:10 AM EDT

UTC Local (EDT)
Raw Data Cleaned Data



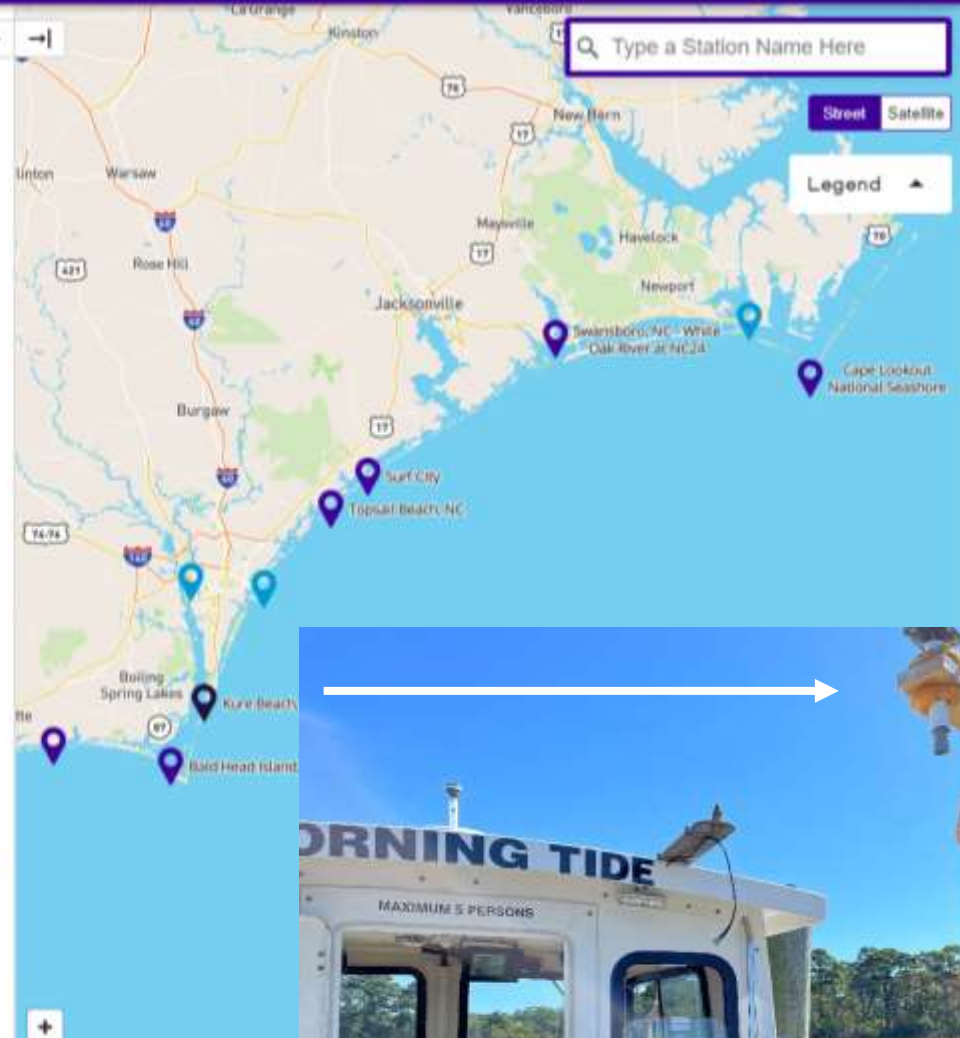
BACK 1 DAY FORWARD 1 DAY

Beginning
11/01/2021

Ending
11/05/2021

DATUM
NAVD83

PLOT



Survey

NOAA Predictions Added!

Where should we expand next?

Bald Head Island

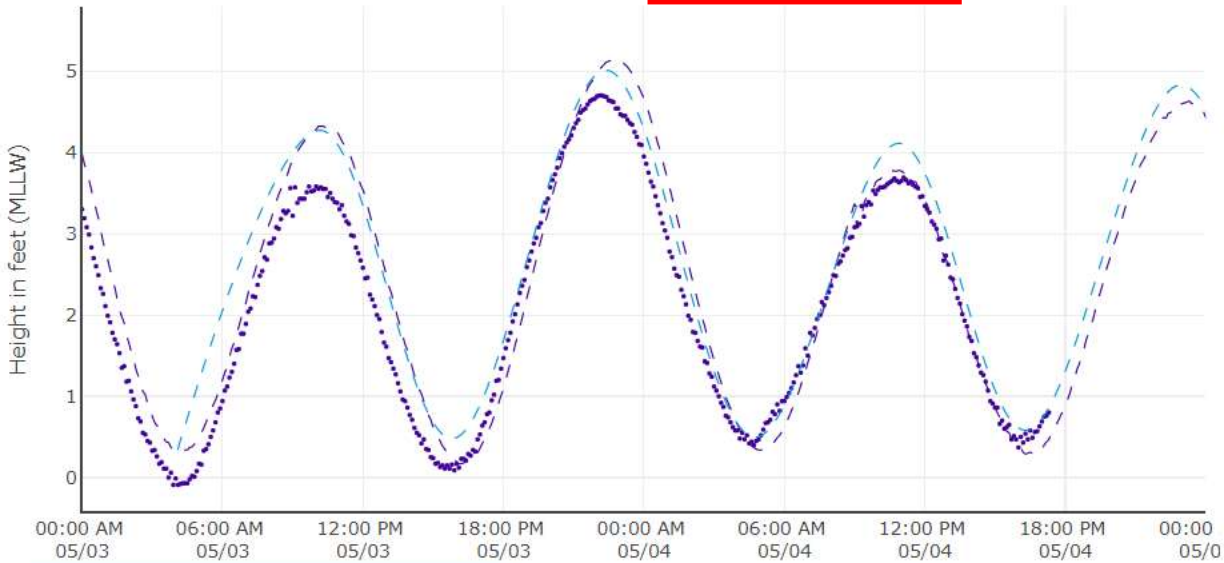
Data Source: Hohonu
Latitude: 33.877
Longitude: -77.9999

UTC Local (EDT)

Last Observed: 0.8 feet

Last Updated: May 04, 5:19 PM EDT

• Observed — Prediction — NOAA 8658901 Prediction



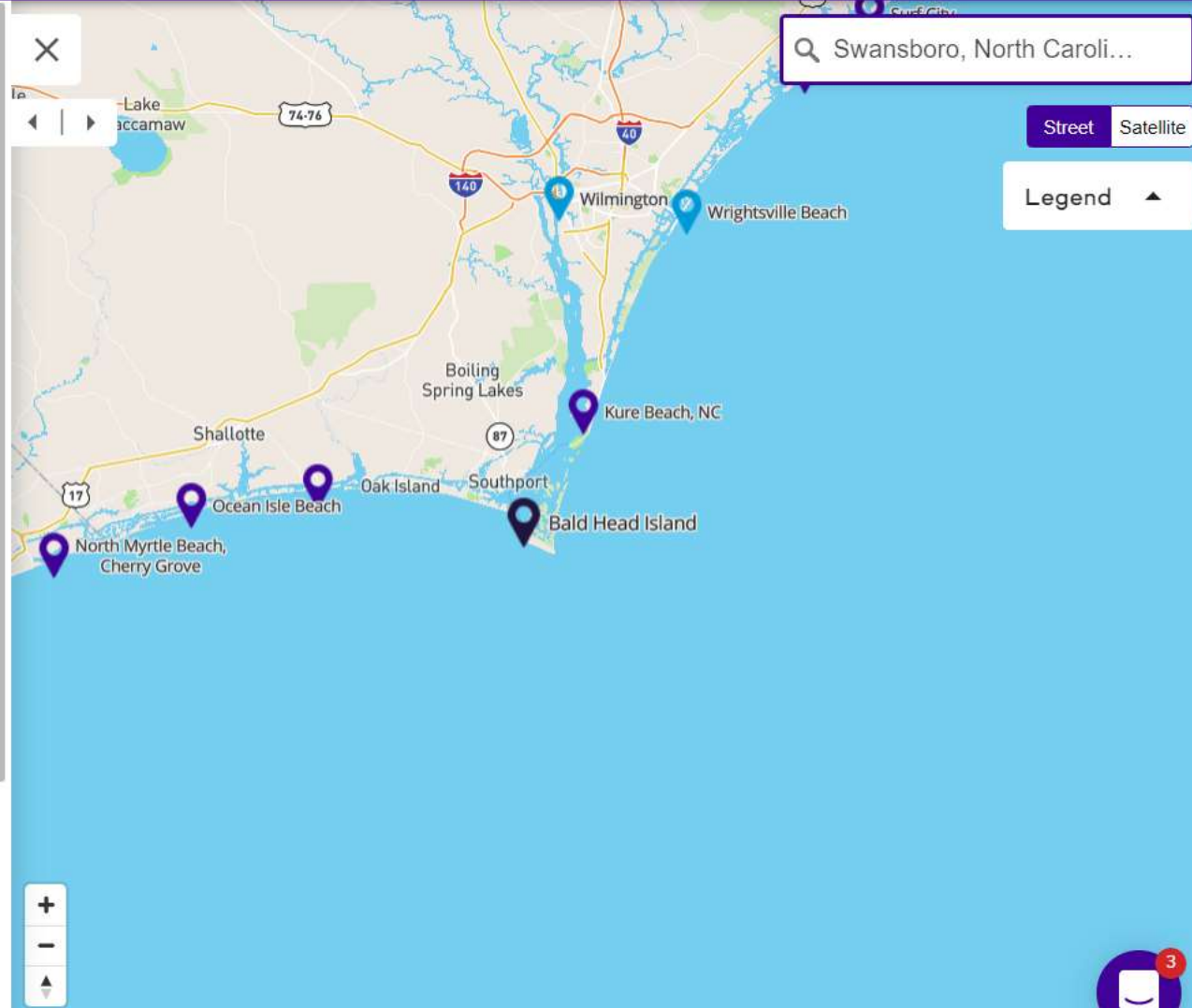
◀ BACK 1 DAY FORWARD 1 DAY ▶

Beginning

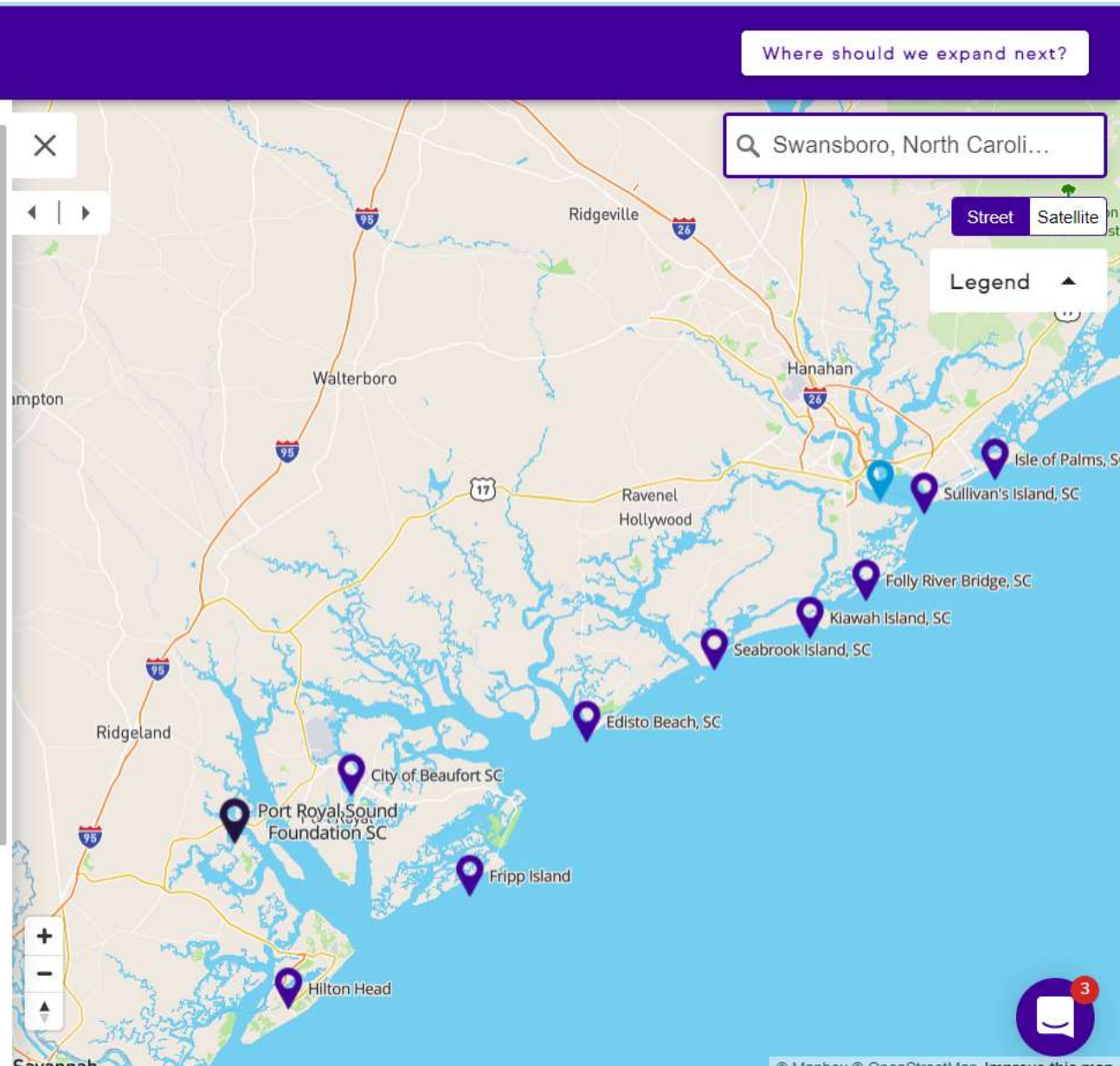
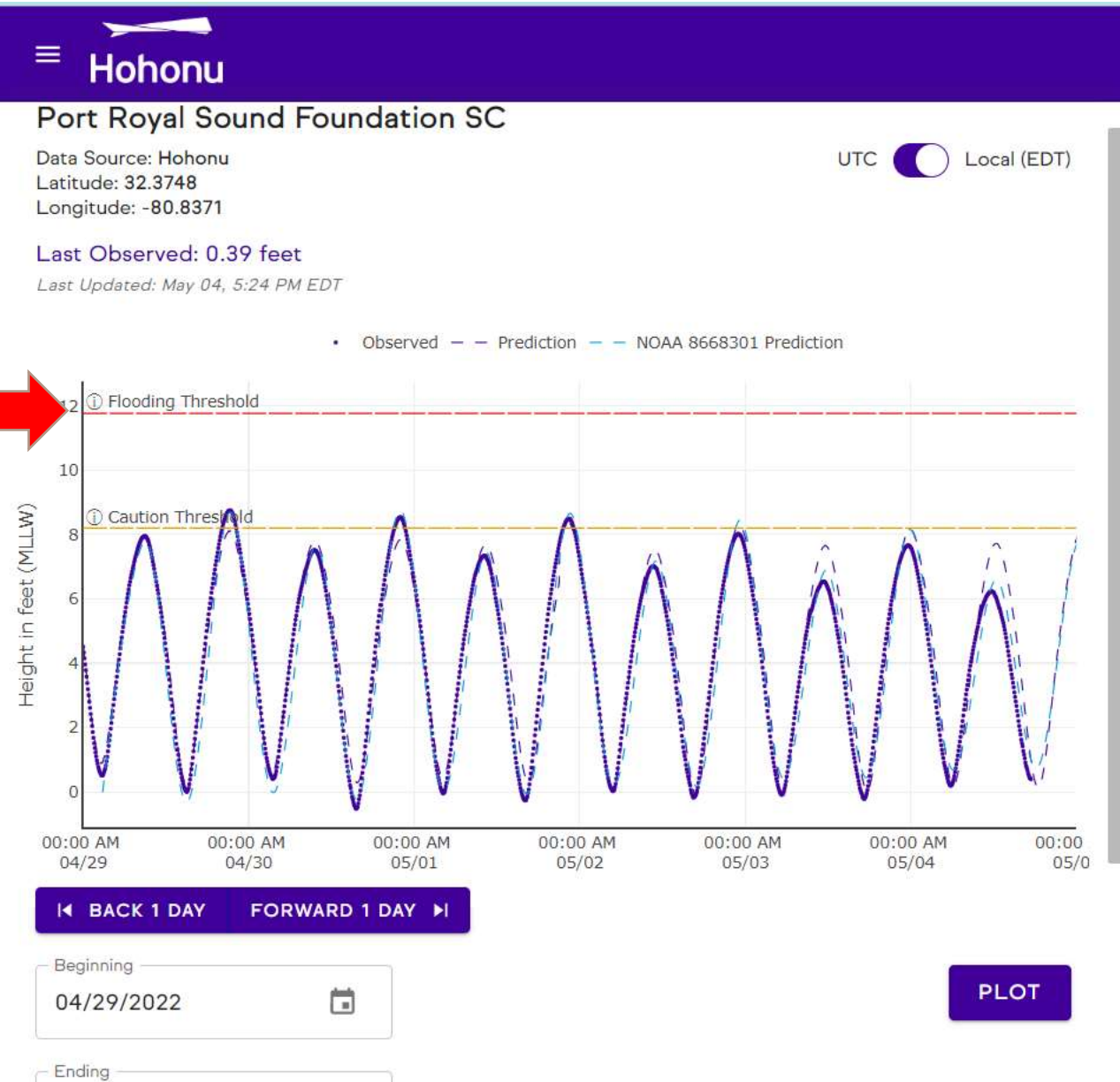
05/03/2022



PLOT



User-Defined Flood Thresholds



Roundtable: Water Level Team Members

- Please address any of the following that apply to your community:
 - How far along is your community in the project (interested, just got a sensor, about 1-yr or more in)?
 - Is real time water level affecting your decision making?
 - In addition to real-time water level data, do you want tide predictions or modeling?
 - Do you want water level alerts (type: caution, flooding; form: text, email)?
 - What other project feedback do you have?



asbpa

American Shore & Beach Preservation Association

Advocating for healthy coastlines