



Hohonu

Nationwide Water Monitoring:
Scientific Rigor, **Community Impact**

Hohonu: Academic DNA, Commercial Efficiency



2014

Born at University of Hawai'i Research Lab

Monitoring tools to aid in restoration of ancient Hawaiian fishponds



2018

\$2M in NSF Funding

"Democratize access to ocean observing technologies"



2019

Hohonu, Inc Commercialized

To meet demand that a research lab couldn't meet



2021

SECOORA Work Begins

In partnership with American Shore & Beach Preservation Association



2023

Nationwide Deployments

100+ deployed locations across 14 states and 1.3 million hours of monitoring

The Team is Growing



Software Engineering



Data Science



Customer Support



Manufacturing

Powered by Academic and Climate Tech Funding



Elemental Excelsior



TELUS Pollinator Fund for Good

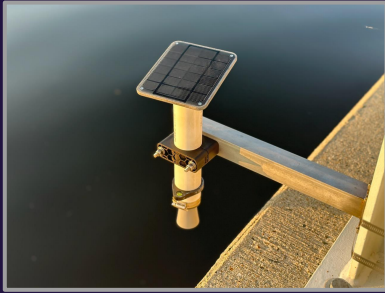
SCHMIDT MARINE
TECHNOLOGY PARTNERS

SOA
SUSTAINABLE OCEAN ALLIANCE

How It Works

Affordable Sensors

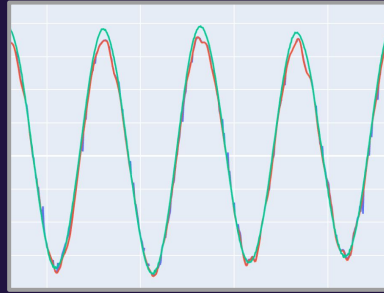
*Internet-Connectivity +
100% Solar Power*



- **IKEA-Level** User Installation on Bridges, Docks, Piers
- **Compact** - Hold w / 1 Hand
- **Ultra Low Power** → Weeks Without Charge

NOAA-Grade Backend

*Processing for Automated
Data QA/QC + More*



- **Trustworthy Data** via NOAA-Grade Methodologies
- **Data Conversions** depending on sensor environment
- **80% Better Predictions** compared to NOAA tidal

SaaS Products

*Frontend Products + API's
For Easy Access*



INTRODUCING
TideCast
by Hohonu



- **Anyone** can access data captured by Hohonu sensors
- **Alerts** for early flood warnings
- **Reports** for post-flood analysis

Water Level Monitoring Across the US

120+



Deployments

1.7 Million

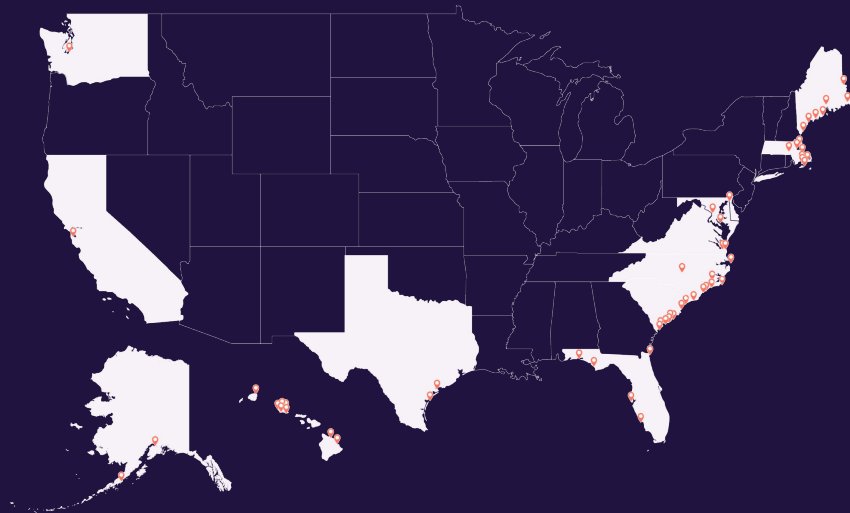


Hours
Monitored

14+



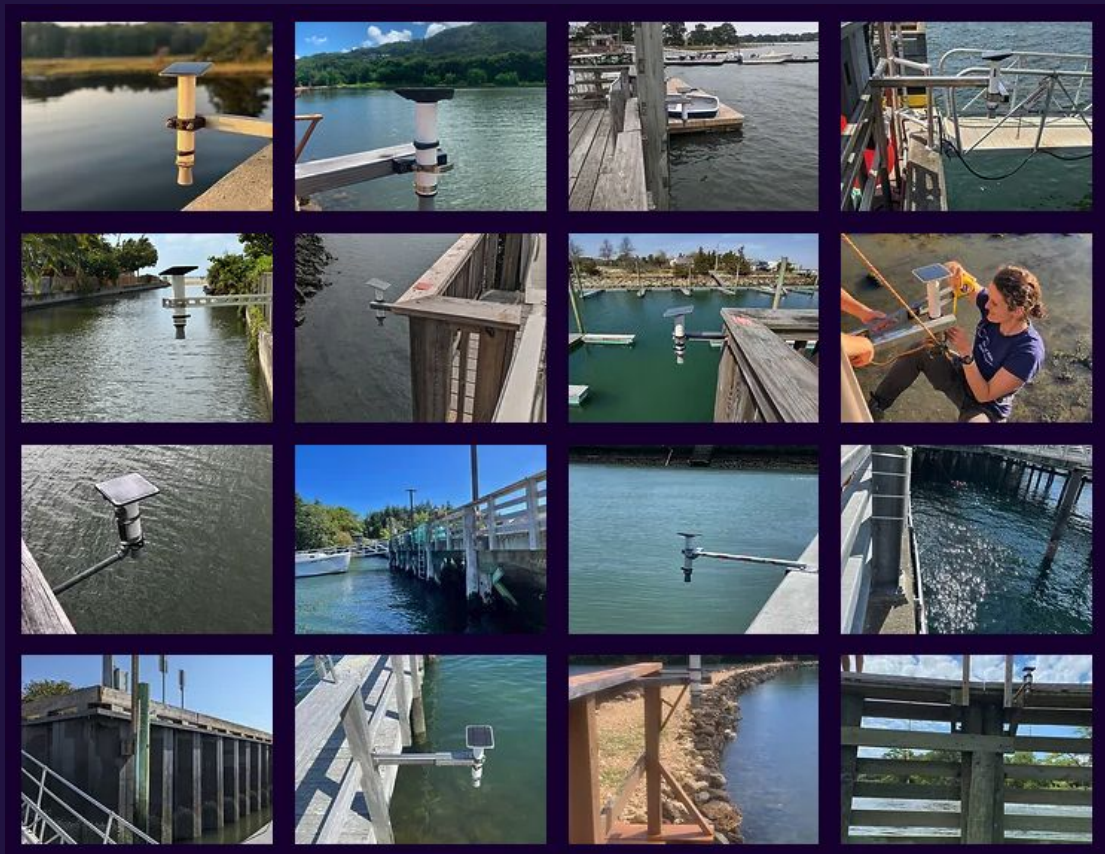
US States



Customers Include:



Community Engagement



Wide Variety of Applications

Emergency
Management

Marine
Navigation

Infrastructure
Projects

Flood Models

Student
Projects

Educational
Visibility

Protect High
Value
Properties



Local
Governments



Ports,
Marinas,
Harbors



Engineering
Consultants



Research &
Academics



Primary Education



Aquariums &
Museums



Homeowners
Associations

Scientific Excellence For Each Deployment



Hardware Standardization

Robust, Industry-Standard Sensors



Vertical Control Management

Processes and protocol for NAVD88 surveying
(With feedback from SECOORA)



QARTOD + Tidal Analysis Datum Calculations

NOAA-consistent methodologies with transparent documentation
(With feedback from NOAA personnel)



Mobile App and Robust API



TideCast™ for iOS (Android beta coming soon)

- ✓ Live tide data from 400 Hohonu sensors and NOAA stations that refreshes every 6 minutes
- ✓ TideCast proprietary prediction algorithm that uses machine learning and refreshes every 6 hours based on live sensor data
- ✓ Weather conditions - view wind, sun and moon phase, temperature, and rain at each station (data source: NOAA).

Case Study: SECOORA Water Level Network

Hohonu has deployed 57 water level stations with SECOORA



57 Hohonu water level stations fed directly through multiple systems



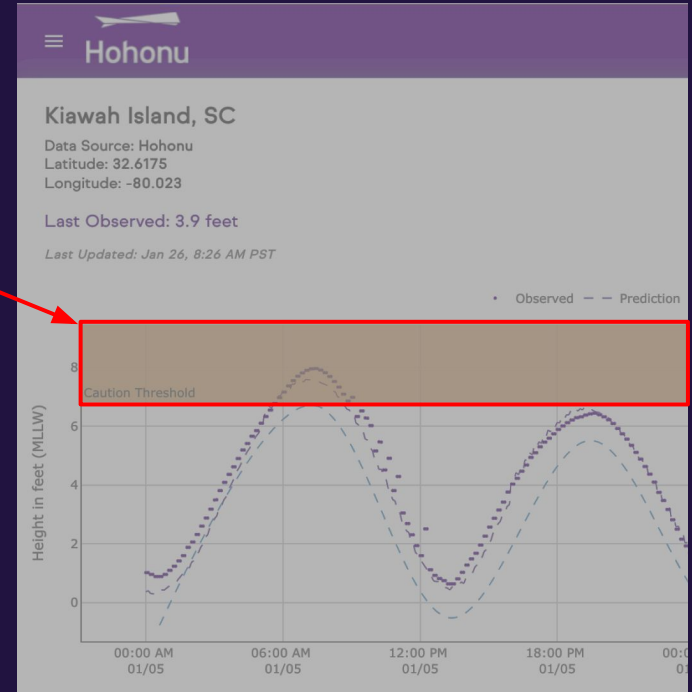
41 communities are collecting water level
4,000 unique visitors to Hohonu dashboard



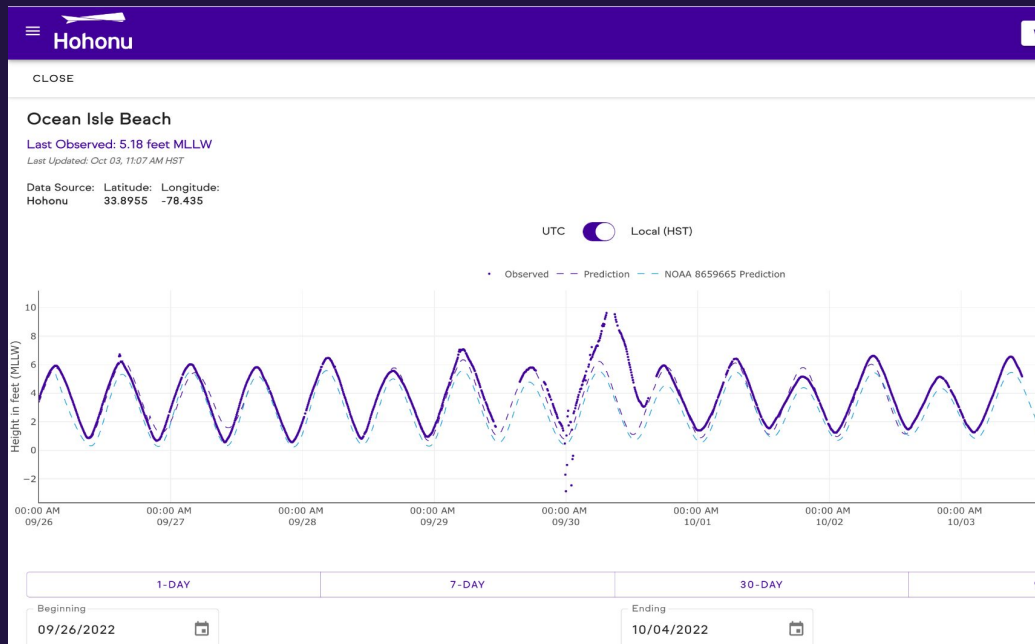
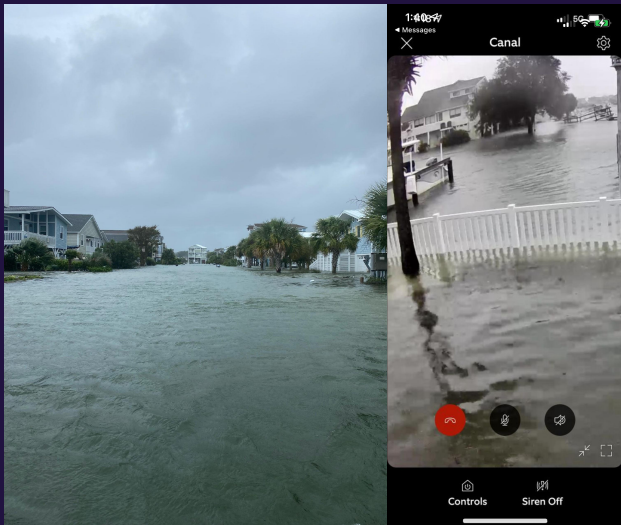
Deployed **13 active monitoring sites** between Fort Pulaski and Charleston NOAA tidal stations

Case Study - Kiawah Island, SC

Kiawah Island, SC is using Hohonu data to preemptively close roads

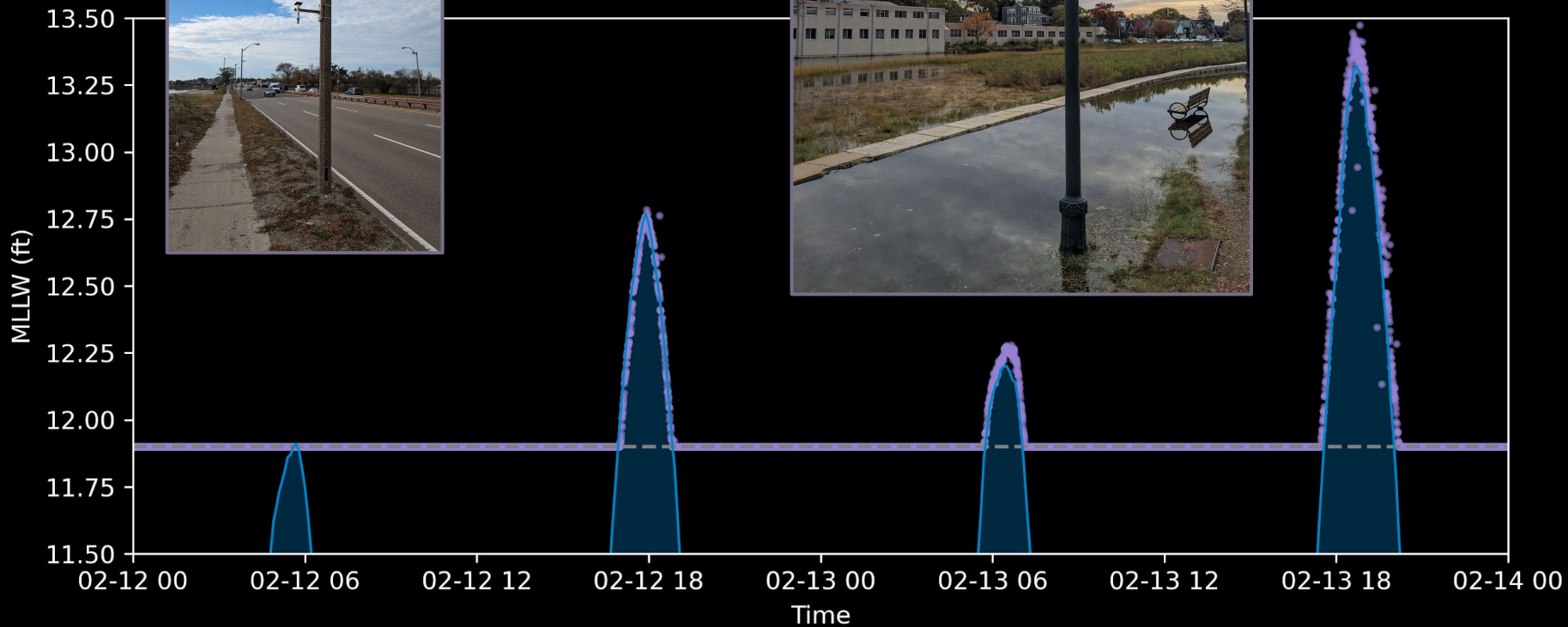


Hurricane Ian, Ocean Isle Beach



Recorded the highest water levels in Ocean Isle Beach, NC which can now be used to set thresholds for future events in conjunction with local camera feeds

Boston, MA

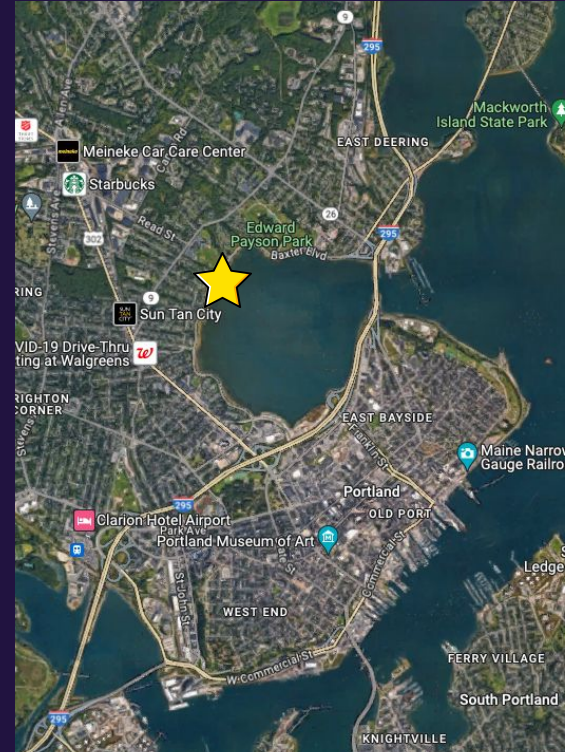


“Signature Waterfront Opportunity”



Portland, ME

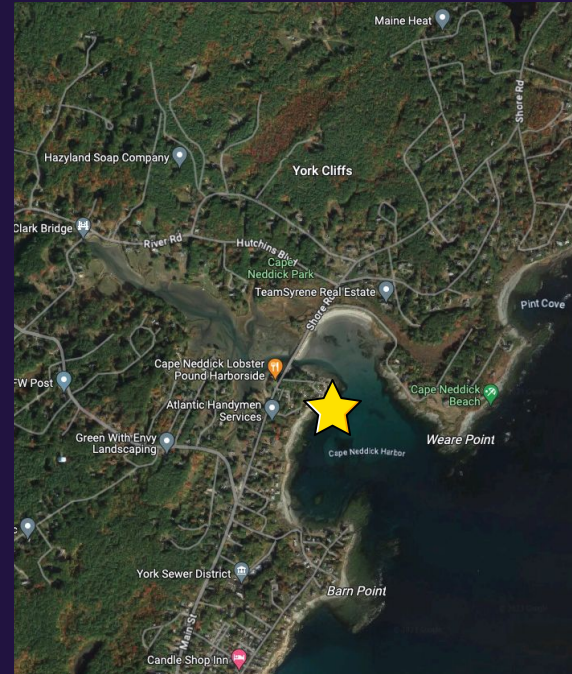
The city was able to prove that recently-installed outfall valves nearly eliminated flooding at a water level ~two feet higher than prior water levels that had caused widespread flooding.



York, ME

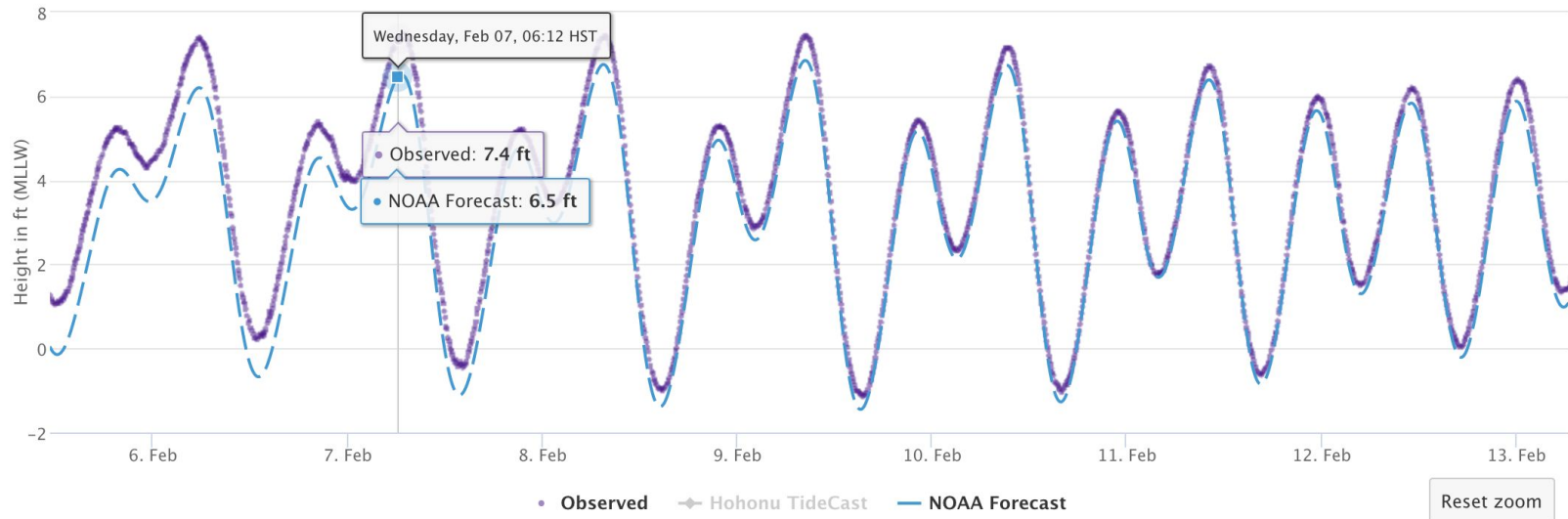
The Town of York has a state road and evacuation route that overtops with tides during the winter

They need to understand water levels in a specific area due to near-term development and with assistance with a mass alerting system



US HARBORS

One foot differences between NOAA predictions and Hohonu observations further validates need for hyperlocal sensor network



Steilacoom, Tacoma, WA

The City of Tacoma has installed a gauge to better understand King Tides in the Puget Sound in order to develop a mass alerting system



Partnering for a Resilient Future

Hyperlocal monitoring and actionable data are the future of climate resilience
Hohonu wants to help lead this transformation

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