

NROC Coastal Hazards Resilience Committee (CHRC)

NROC Meeting - May 15, 2025

Dani Boudreau, NOAA NOS Coastal Hazards Resilience Committee Co-Chair



NROC Coastal Hazards Resilience Committee

Goal

 Build hazards resilience to impacts of coastal erosion, flooding, storms, and climate change through region-wide dissemination of data, tools, and case studies, as well as fostering collaborative actions



NROC Coastal Hazards Resilience Committee

Co-Chairs

- Dani Boudreau, NOAA
- Gavin Jackson, CT DEEP
- Julia Knisel, MA CZM

Staff

 Joan LeBlanc, NROC Coastal Hazards Resilience Program Director

Coastal Hazards Resilience Committee Projects

- Establishing a Water Level Sensor Monitoring Network
- Advancing Living Shorelines in New England
- Hosting a Coastal Resilience Exchange







Developing a Regional Water Level Sensor Monitoring Network

- Provide real-time data to monitor storm surge and SLR
- Inform local planning, adaptation, and decision-making
- Create reporting tools to analyze and share data







Water Level Sensor Monitoring Network -> Real-Time Data







water level sensor sites



💌 Esri, USGS | Esri, TomTom, Garmin, FAO, NOAA, USGS, EPA, USFWS

Installing Water Level Sensors

- 25 completed so far
- 8 more to be installed within the next two months



Data Delivery

Mean Low Low Water for Station: HPMN3









https://mariners.neracoos.org/water-level



Next Steps for Water Level Sensor Network in 2025

Ongoing Activities

- Continue working with regional and local partners to identify potential sites and install sensors
- Refine water level data viewer
- Provide support for network operations

Workshop on August 7, 2025 - NH DES, Portsmouth NH

- Share lessons learned
- Review best practices for sensor deployment and surveys
- Assess data management and reporting tools to inform product development





Find out more: <u>https://www.northeastoceancouncil.org/project/water-level-sensor-network/</u>

Advancing Living Shorelines in New England

Purpose

 Advance implementation of living shorelines projects in New England by increasing shared understanding of regulatory issues, monitoring techniques, and living shorelines approaches



















2024 Living Shorelines Activities

- Interviews, workshops, webinar
- Educational site visit to Wagon Hill Farm living shoreline, NH
- Identified key need for training opportunities





Spring 2025 Living Shorelines Training Workshops

- 3 in-person full-day workshops and site visits during March and April
- 130+ workshop attendees
- In-depth learning and knowledge exchange through case studies
- Hosted webinar in April to share key takeaways, 140+ attendees







Key Takeaways for Successful Living Shorelines (1 of 2)

- Early on-site engagement with permitting agencies to ensure agreement around project goals, approaches, and permitting requirements
- Flexibility is important as best projects often advance multiple goals and combine several LS design approaches
- Careful **site selection** to ensure **suitability** for selected living shorelines approach
- **Community outreach** is key to building community support and engaging volunteers in monitoring



Key Takeaways for Successful Living Shorelines (2 of 2)

- Living shorelines provide co-benefits. Projects often advance coastal resilience and shoreline stabilization + protect and restore habitat
- **Collaboration** among landowners, municipal departments, and other partners is needed to identify and advance shared priorities
- Small investments in adaptation informed by effective monitoring are critical to successful living shorelines



Next Steps for Advancing Living Shorelines in 2025

Jumpstart New Living Shorelines Projects

- Up to 10 new projects
- Expert design and planning support
- Engagement throughout the region

Add LS to the Northeast Ocean Data Portal

 Living shorelines sites, case studies, site suitability, tools, resources, etc. <u>https://www.northeastoceandata.org/</u>



Resources from Workshops and Webinar

• Will be posted: <u>https://www.northeastoceancouncil.org/project/living-shorelines/</u>



Thank you! Questions, feedback, discussion

Living Shorelines Project Team Leads

- Joan LeBlanc, NROC, jleblanc@northeastoceancouncil.org
- Steve Kirk, TNC, stephen.kirk@TNC.ORG
- Dan Goulart, TNC, <u>daniel.goulart@TNC.ORG</u>

Water Level Sensor Network Project Team Leads

- Joan LeBlanc, NROC, <u>jleblanc@northeastoceancouncil.org</u>
- Anna Simpson, NERACOOS, <u>anna@neracoos.org</u>