An aerial photograph of a coastal area. A long, narrow stone pier extends from the shore into the water, forming a small harbor. The water is a deep blue-green color. To the right of the pier is a sandy beach. In the background, there is a small town with several buildings and a parking lot. The sky is blue with scattered white clouds.

# Upper North Shore Regional Shore Protection

## Task 2: Existing Data Review and Data Collection



# Existing data

## Compiled:

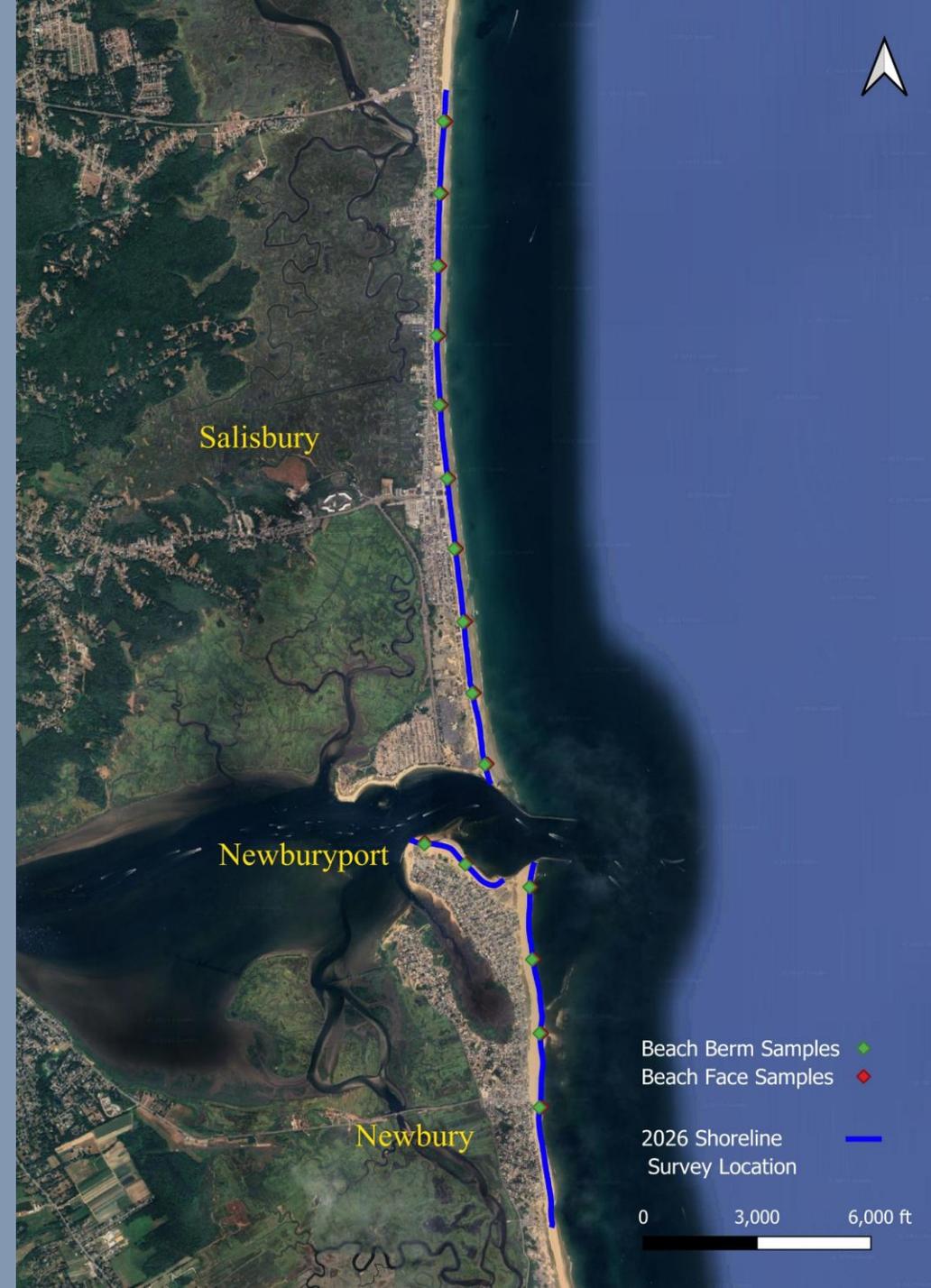
- Management log
- Historic LIDAR shorelines (pictured right)
- Bathymetry
- Wave Information Study (WIS)- determining wave conditions, magnitude and direction
- Existing coastal infrastructure inventory
- Priority Habitat and Estimated Habitat inventory
- Shellfish suitability inventory

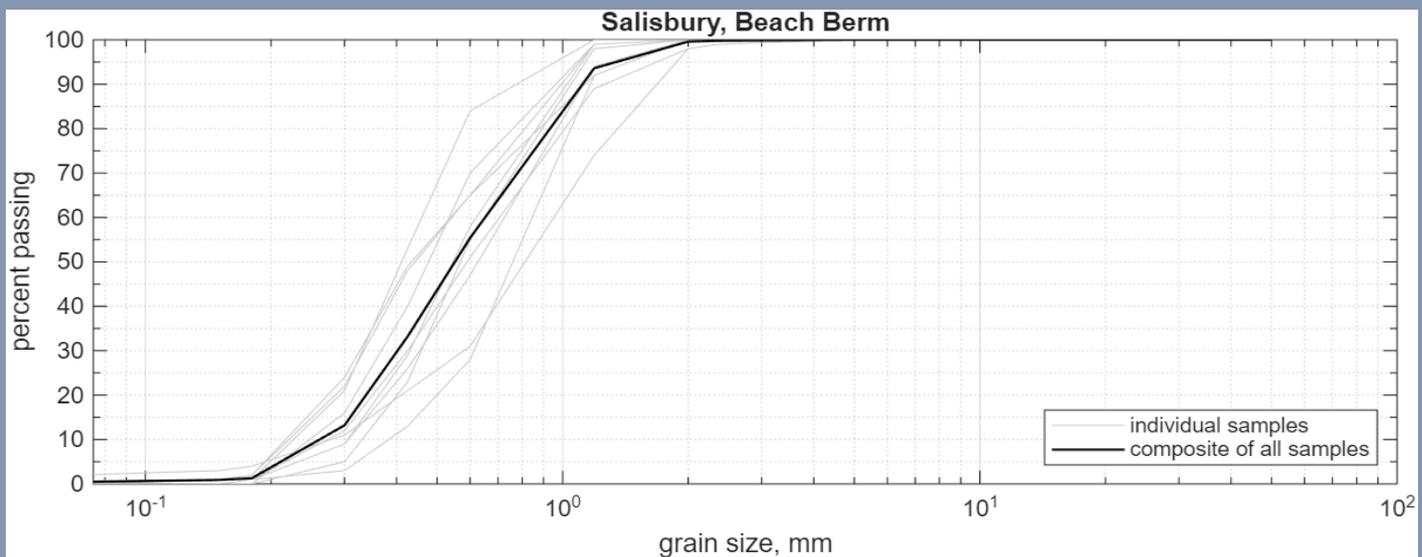
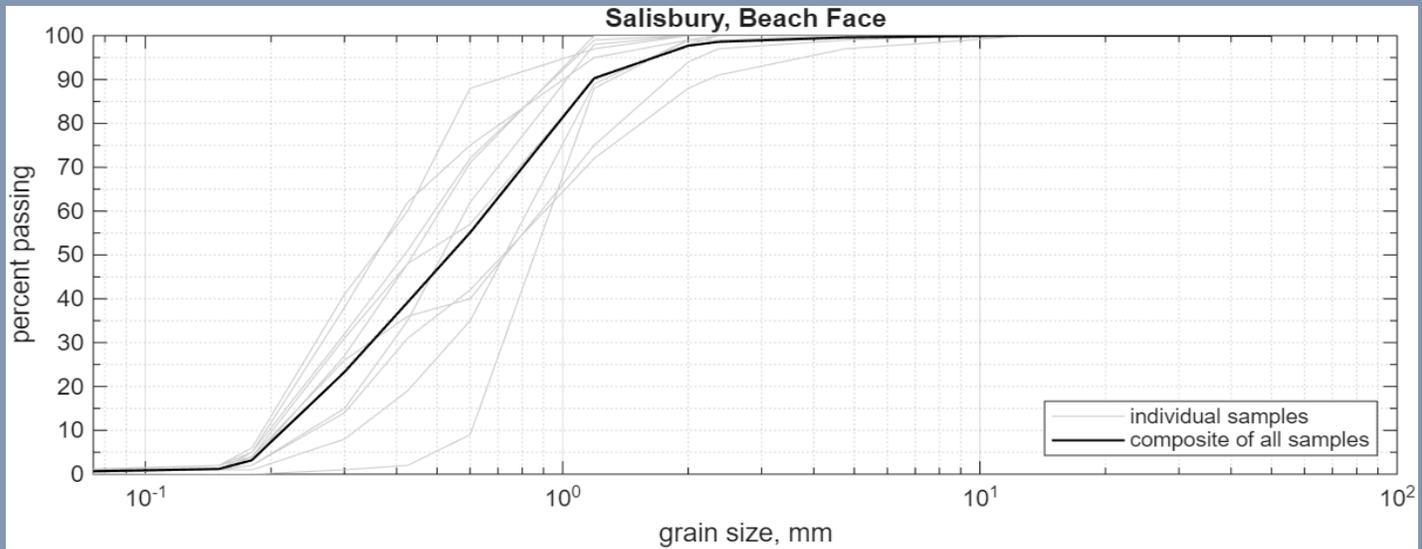


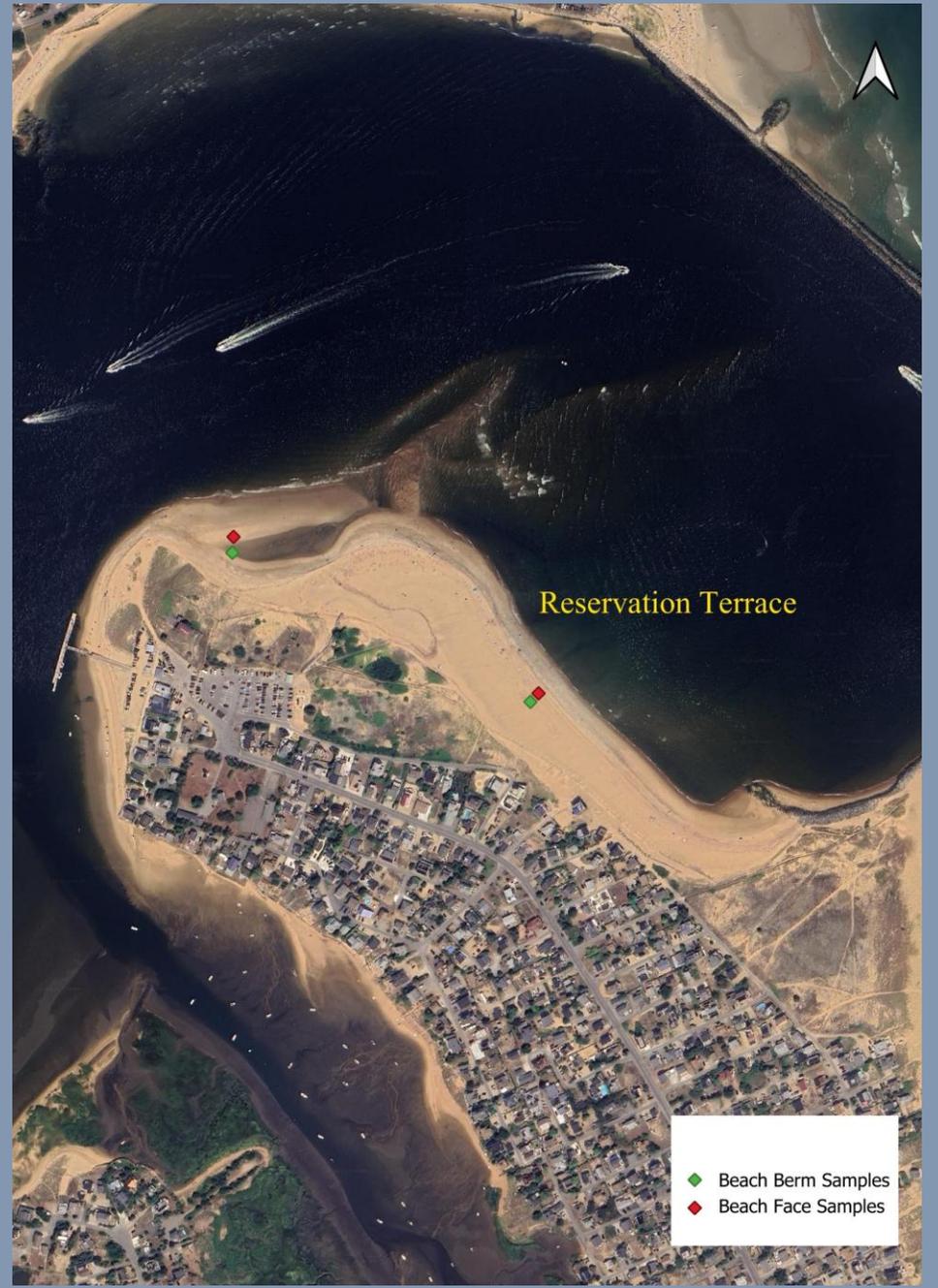
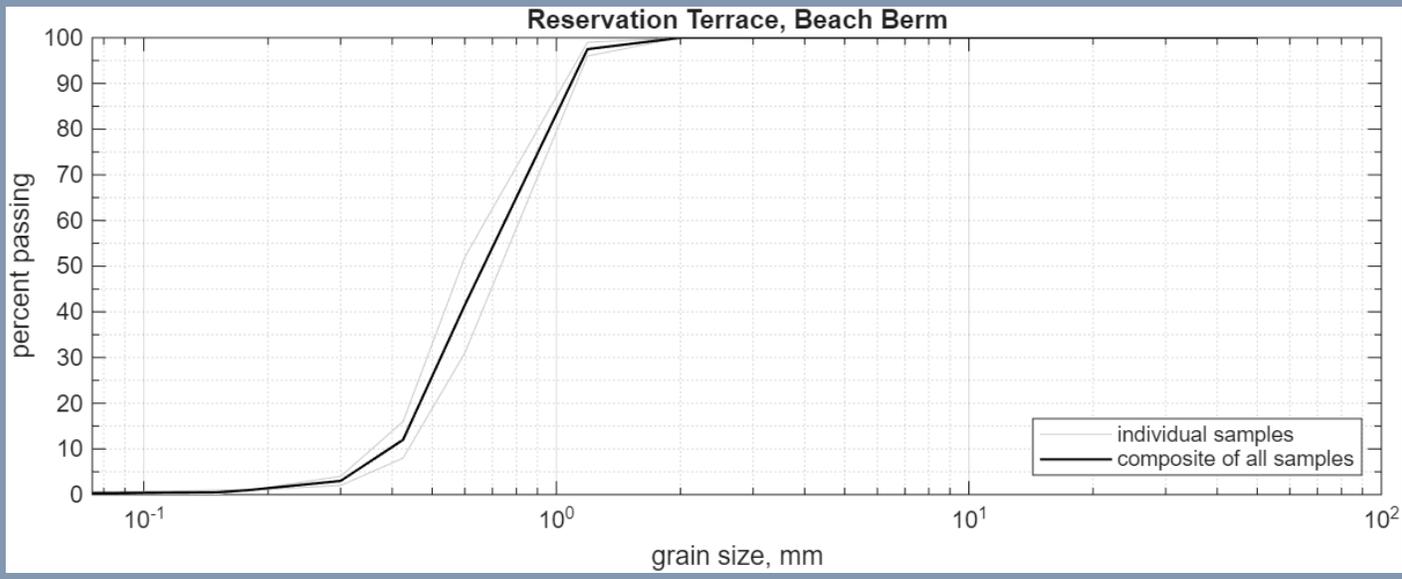
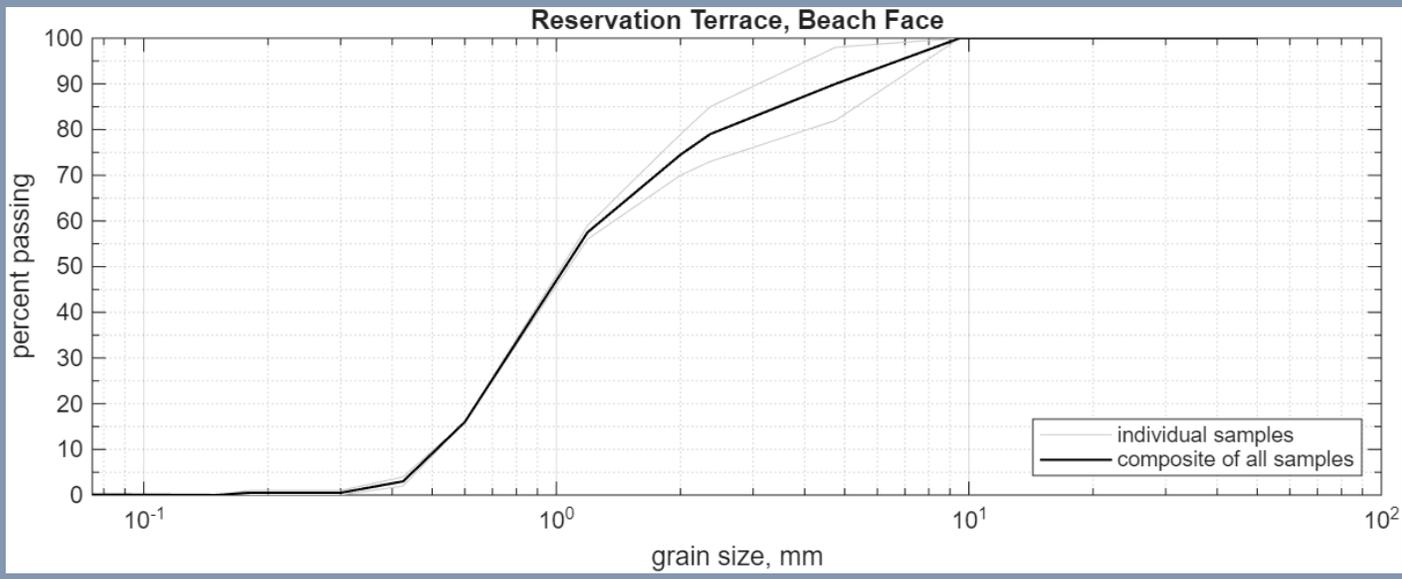


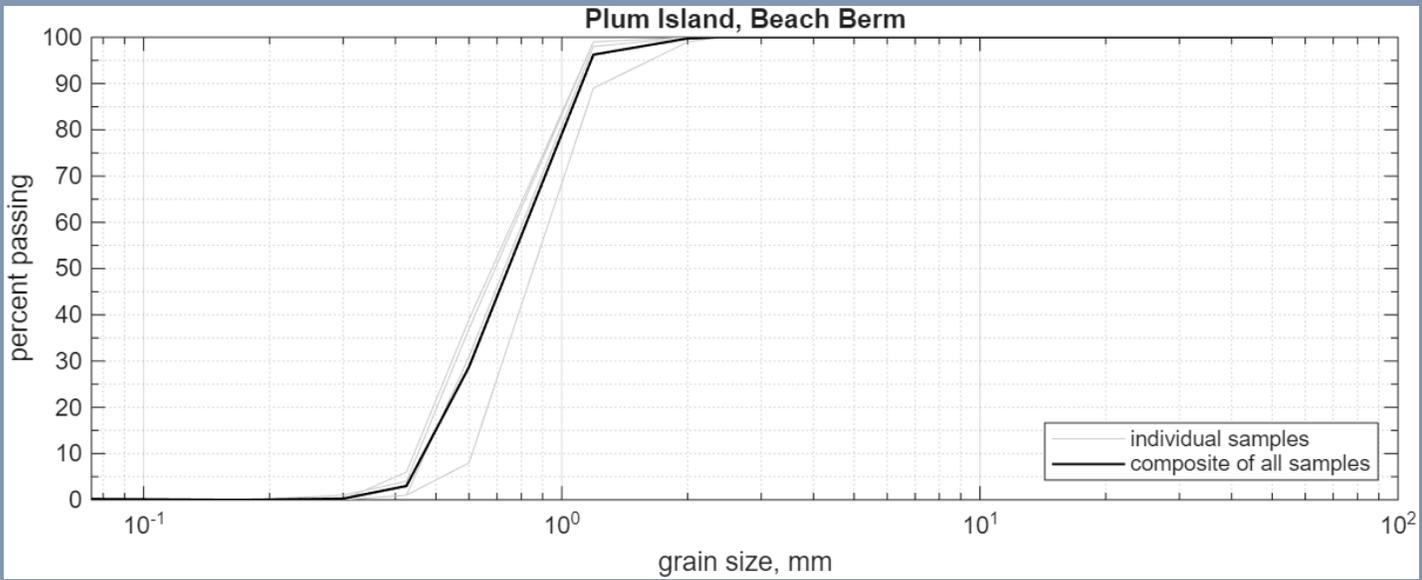
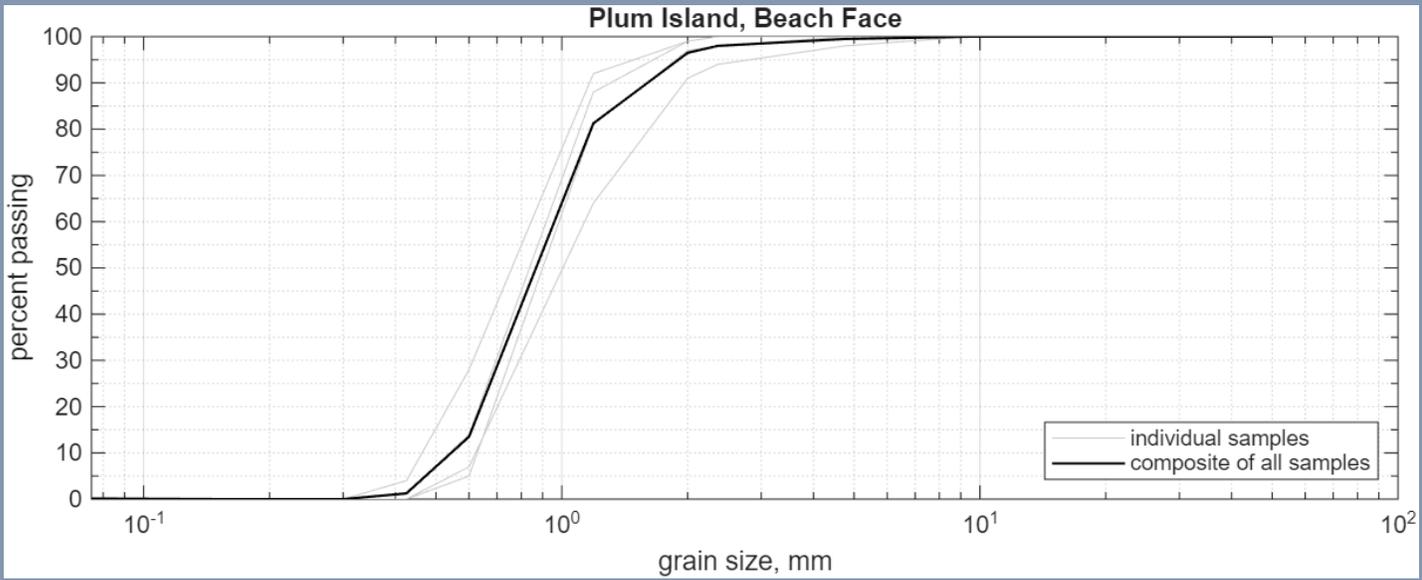
# Collected data

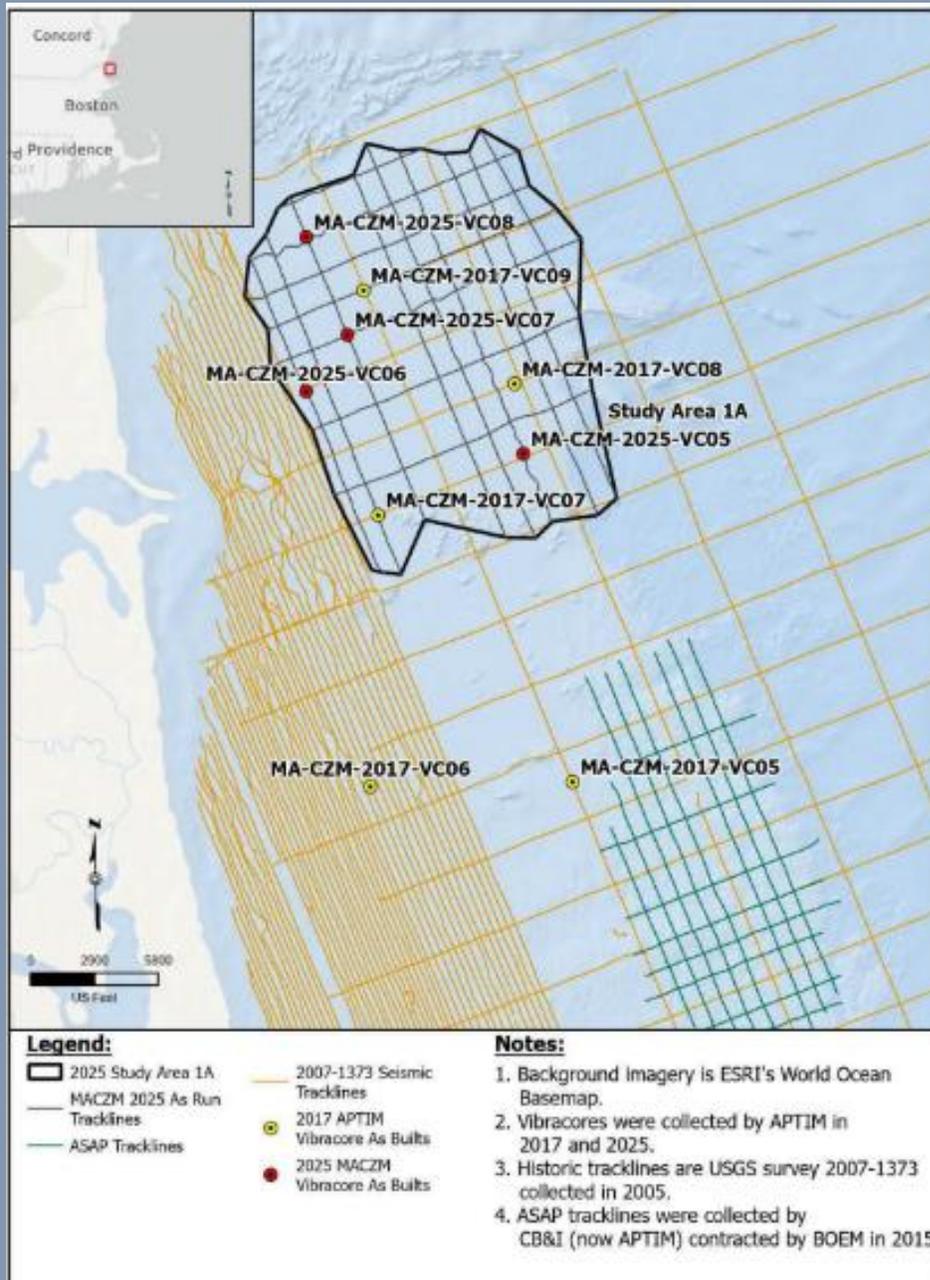
- Sediment sample and current shoreline survey – completed early January
- 32 sediment samples collected, both beach face and beach berm samples
- High water line recorded



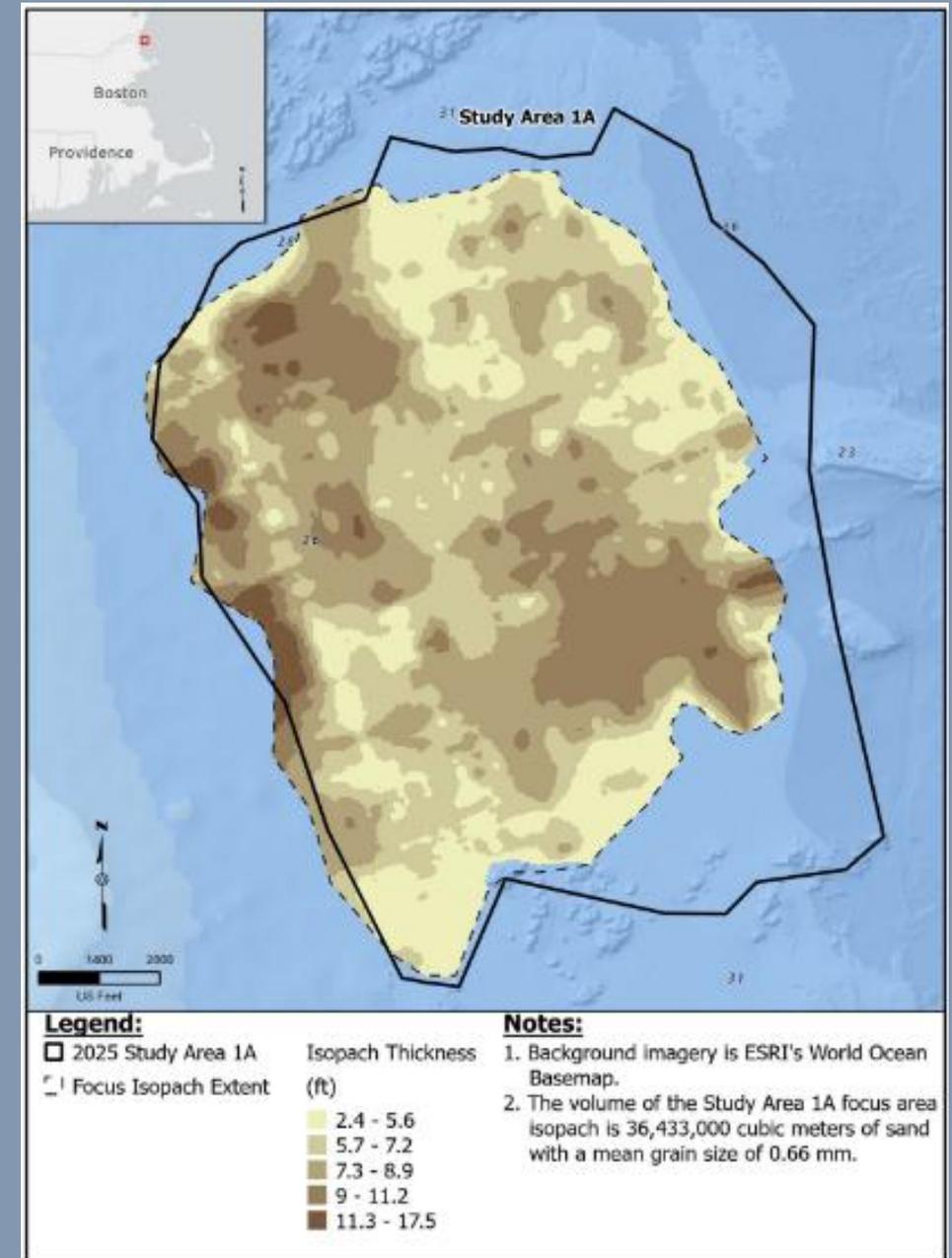








Merrimack, Vibracore As-Builts

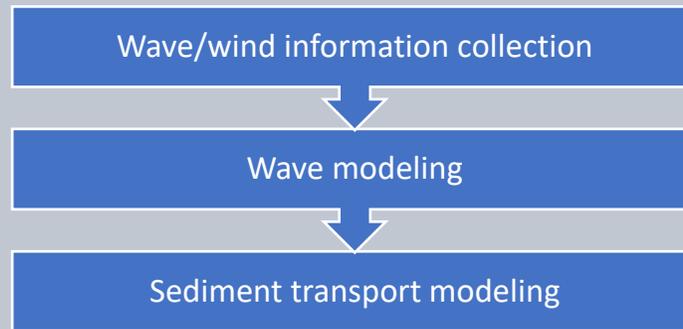


Merrimack, Focus Area Isopach

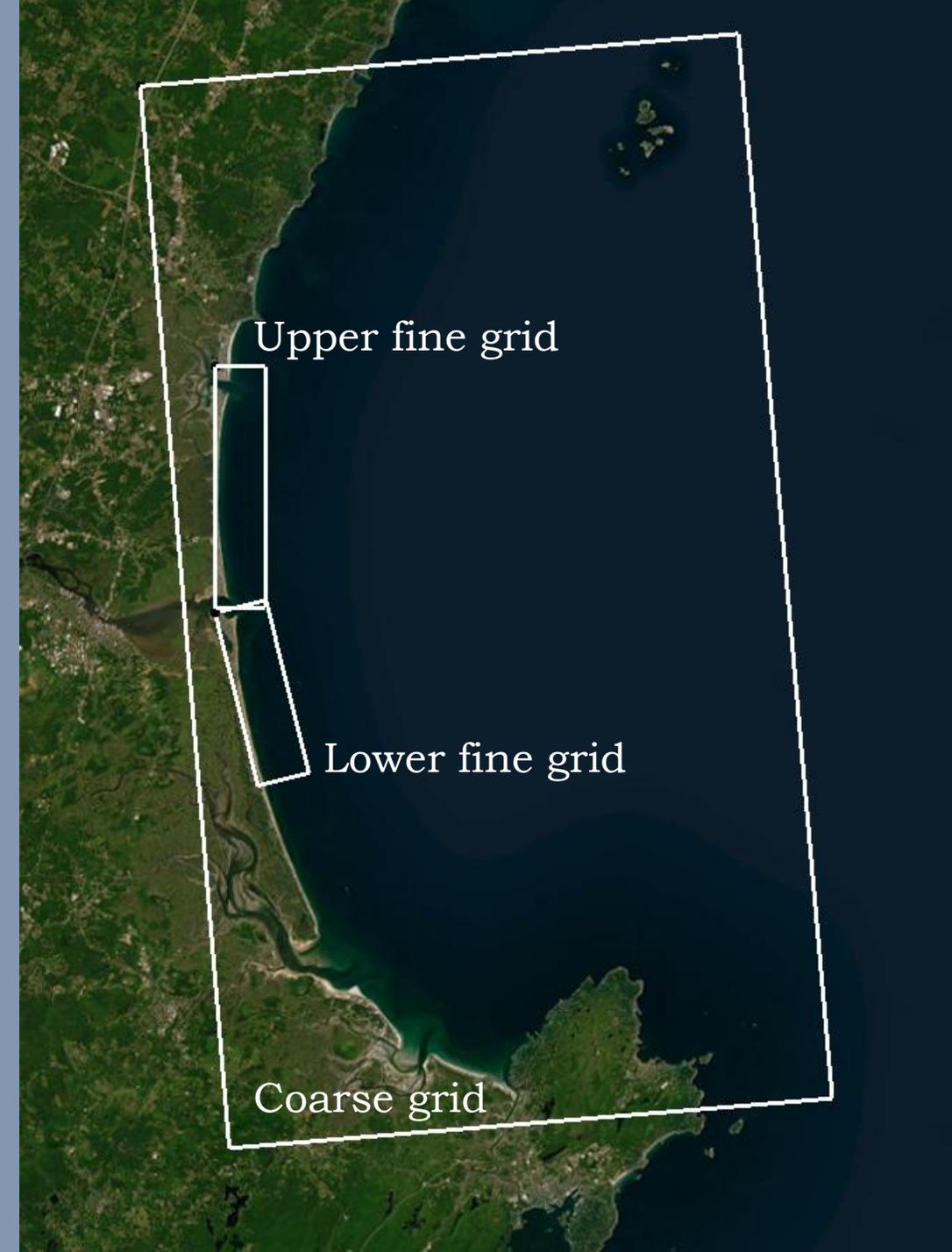


# Task 3

Task 3 is underway:

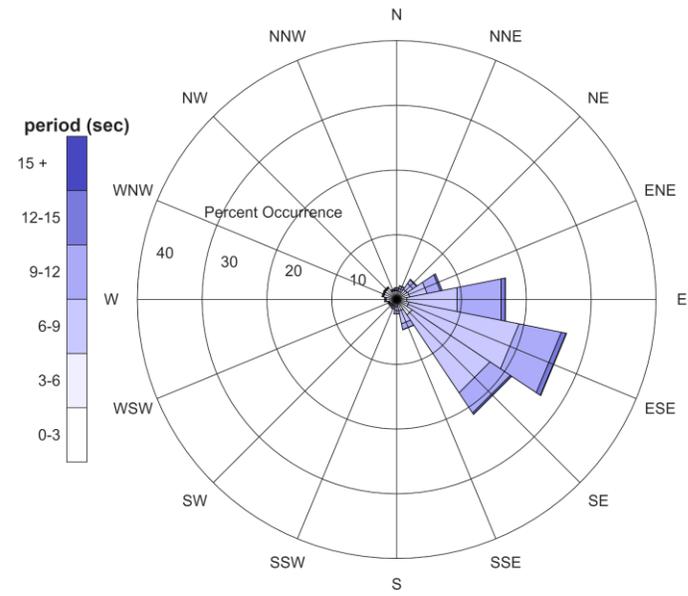
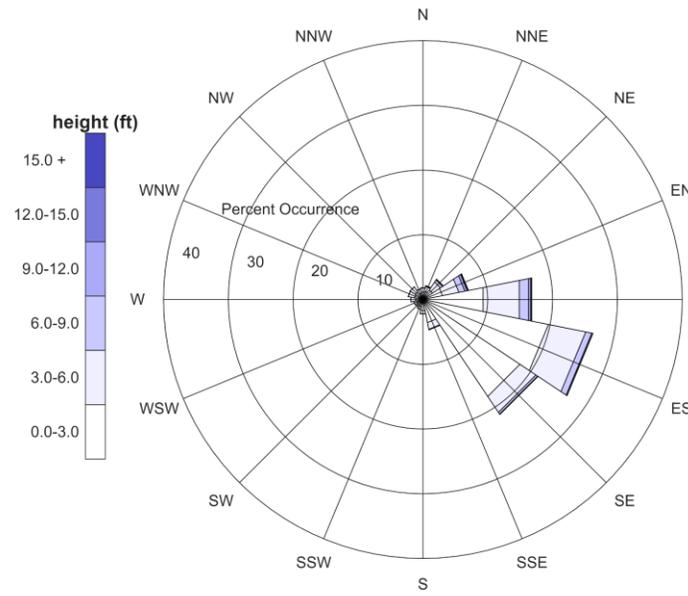


- Wave/wind information collected as a part of Task 2
- Model grids and wave conditions (inputs) for wave models are developed

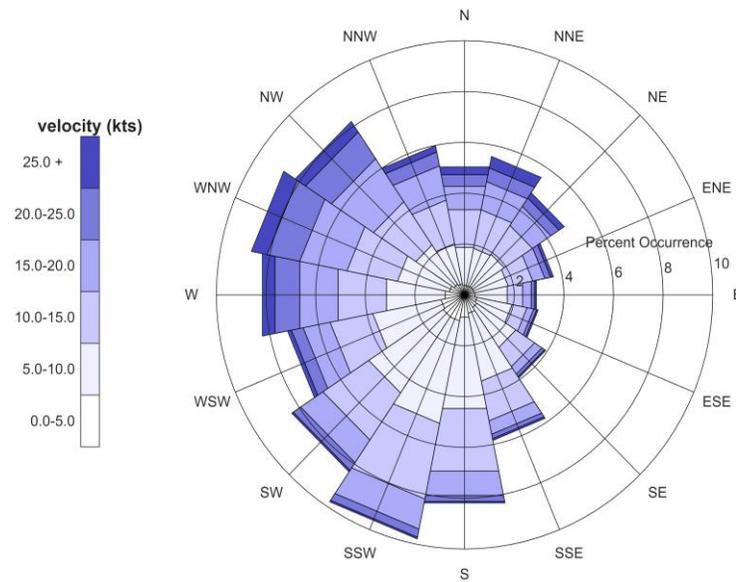




Wave roses



Wind rose





# Upcoming

**By Feb 15:** Update memo and related materials from task 2 will be uploaded to the SharePoint.

**Task 3:** Updated coastal processes and analysis (IN PROGRESS)

- Estimated completion date: April 15, 2026
- **Subtasks/Deliverables:**
  - Interim wave modeling update
  - Interim sediment transport modeling update
  - Update memo