

Visualizing Potential Future Impacts

The following maps are focused on public facilities and properties. They are intended to illustrate current high water levels and areas that are vulnerable to sea level rise, inundation on top of the highest tides, and/or short-term inundation caused by storm surge.

- Data can also be used to simulate future flooding during the highest tides

Data is from Maine Geological Survey

- Based averaged data from Portland, Bar Harbor, and Eastport tide gauges
- Uses sea level rise scenarios established by NOAA and ACOE

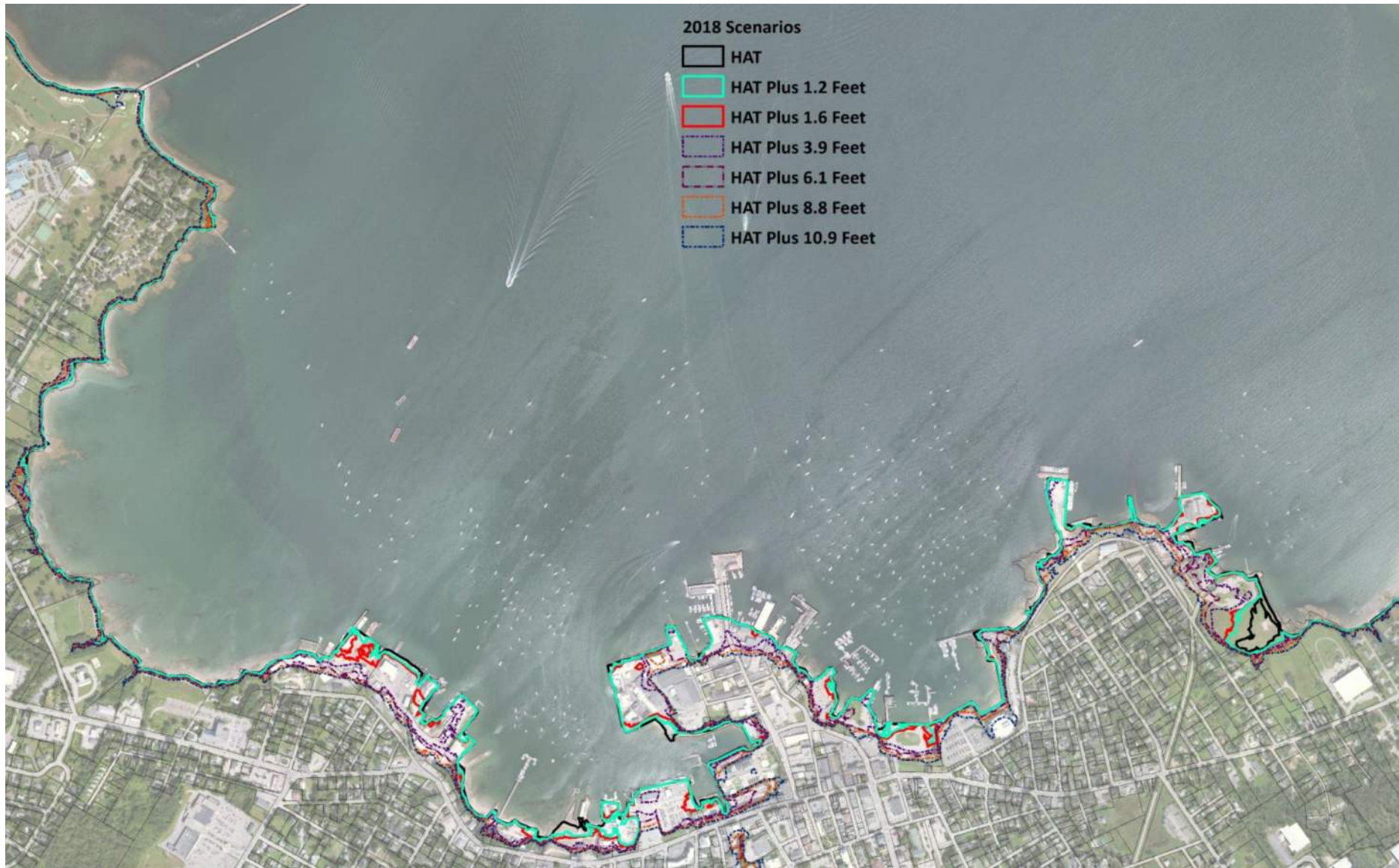
Maps use Highest Astronomical Tide (HAT) as the baseline

- Using HAT allows visualizing of worst-case flooding scenarios
- HAT approximated Shoreland Zone boundaries

G. Sea Level Rise

Sea Level Rise Overview Map

More focused maps for public facilities and properties are on the following pages.



Snow Marine Park Sea Level Rise/Storm Surge Scenarios

- Map approximates potential areas vulnerable to sea level rise/storm surge using NOAA sea level rise scenarios.
- For planning purposes the “intermediate” scenario (which is identified by the red box below) approximates the Highest Annual Tide (HAT) plus 1.2 and 1.6 feet. These are the scenarios that fall within the 2050 and 2070 planning horizon for municipal investment.

Map Legend

 **HAT (Highest Annual Tide)**

 **HAT Plus 1.2 Feet**

 **HAT Plus 1.6 Feet**

*Approximate
Planning Horizon*

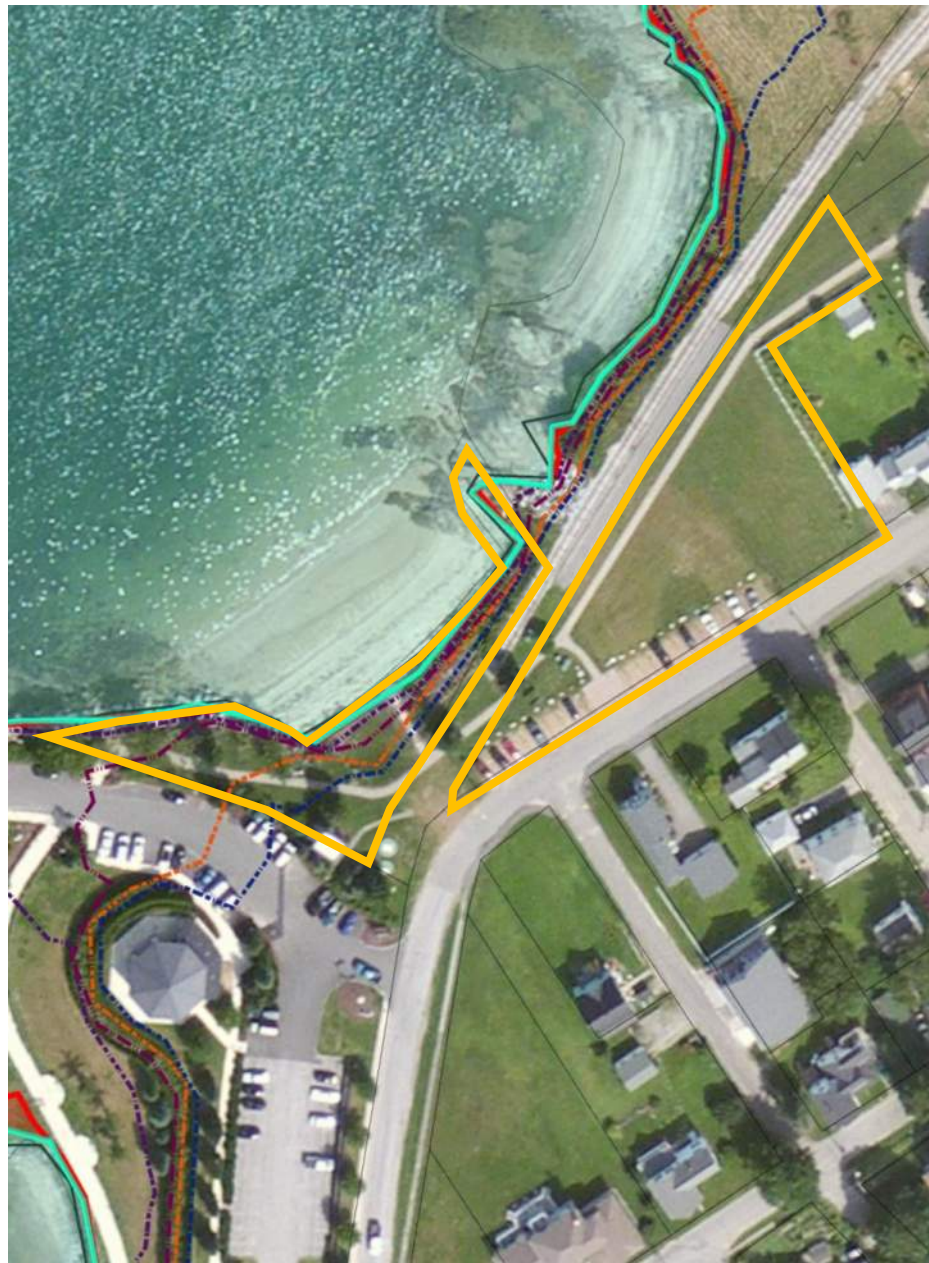
 **HAT Plus 3.9 Feet**

 **HAT Plus 6.1 Feet**

 **HAT Plus 8.8 Feet**

 **HAT Plus 10.9 Feet**

 **Tax Map Boundary**



Sandy Beach

Sea Level Rise/Storm Surge Scenarios

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Map Legend

 **HAT (Highest Annual Tide)**

 **HAT Plus 1.2 Feet**

 **HAT Plus 1.6 Feet**

*Approximate
Planning Horizon*

 **HAT Plus 3.9 Feet**

 **HAT Plus 6.1 Feet**

 **HAT Plus 8.8 Feet**

 **HAT Plus 10.9 Feet**

 **Tax Map Boundary**



Public Landing/Harbor Park

Sea Level Rise/Storm Surge Scenarios

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Map Legend

 HAT (Highest Annual Tide)

 HAT Plus 1.2 Feet

 HAT Plus 1.6 Feet

*Approximate
Planning Horizon*

 HAT Plus 3.9 Feet

 HAT Plus 6.1 Feet

 HAT Plus 8.8 Feet

 HAT Plus 10.9 Feet

 Tax Map Boundary



Middle Pier/Buoy Park

Sea Level Rise/Storm Surge Scenarios

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Map Legend

 **HAT (Highest Annual Tide)**

 **HAT Plus 1.2 Feet**

 **HAT Plus 1.6 Feet**

*Approximate
Planning Horizon*

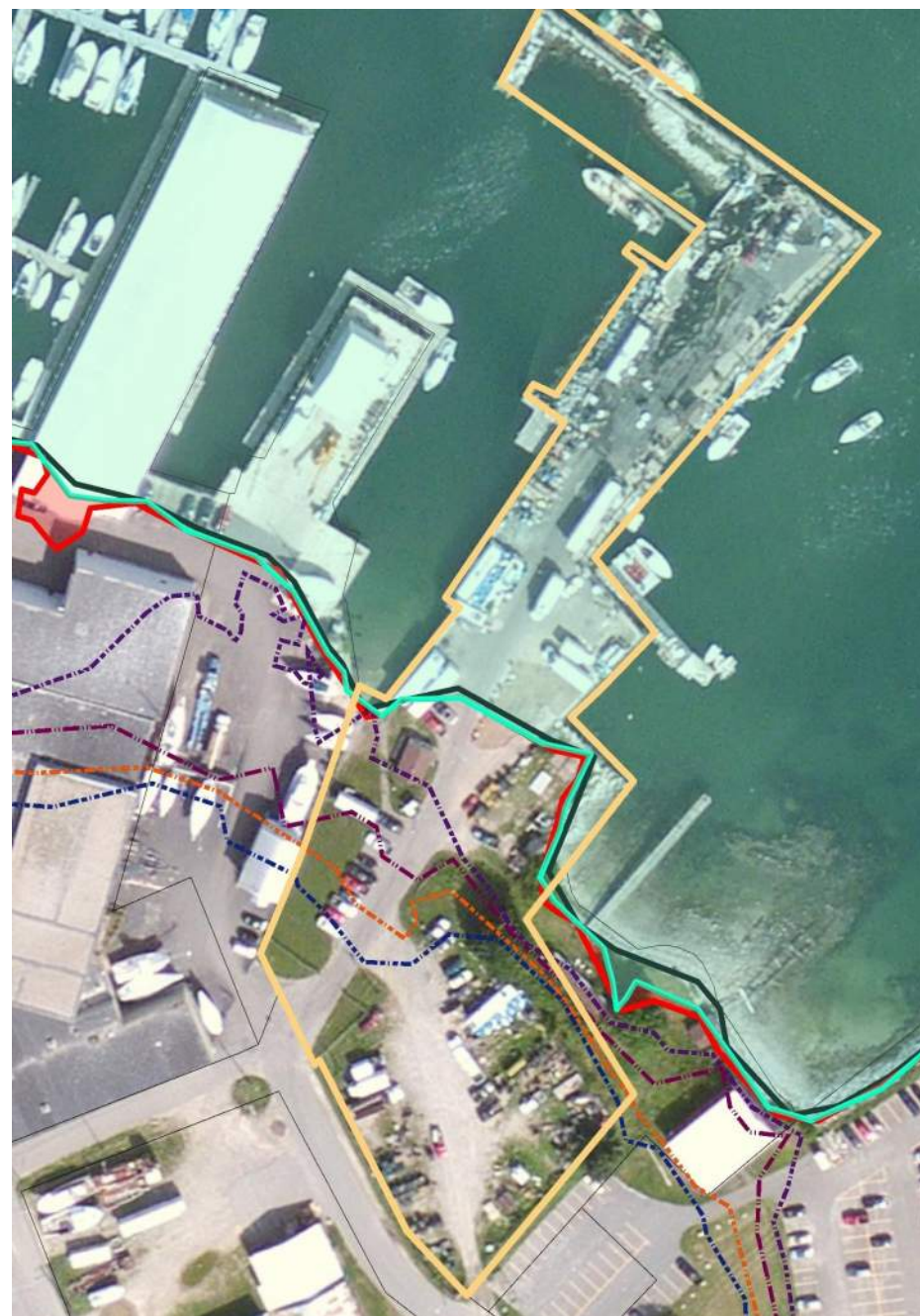
 **HAT Plus 3.9 Feet**

 **HAT Plus 6.1 Feet**

 **HAT Plus 8.8 Feet**

 **HAT Plus 10.9 Feet**

 **Tax Map Boundary**











Commercial Fish Pier

Sea Level Rise/Storm Surge Scenarios

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Map Legend

	HAT
	HAT Plus 1.2 Feet
	HAT Plus 1.6 Feet
	HAT Plus 3.9 Feet
	HAT Plus 6.1 Feet
	HAT Plus 8.8 Feet
	HAT Plus 10.9 Feet
	Tax Map Boundary

*Approximate
Planning Horizon*



23 Samoset Road

Sea Level Rise/Storm Surge Scenarios

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Map Legend

 **HAT (Highest Annual Tide)**

 **HAT Plus 1.2 Feet**

 **HAT Plus 1.6 Feet**

*Approximate
Planning Horizon*

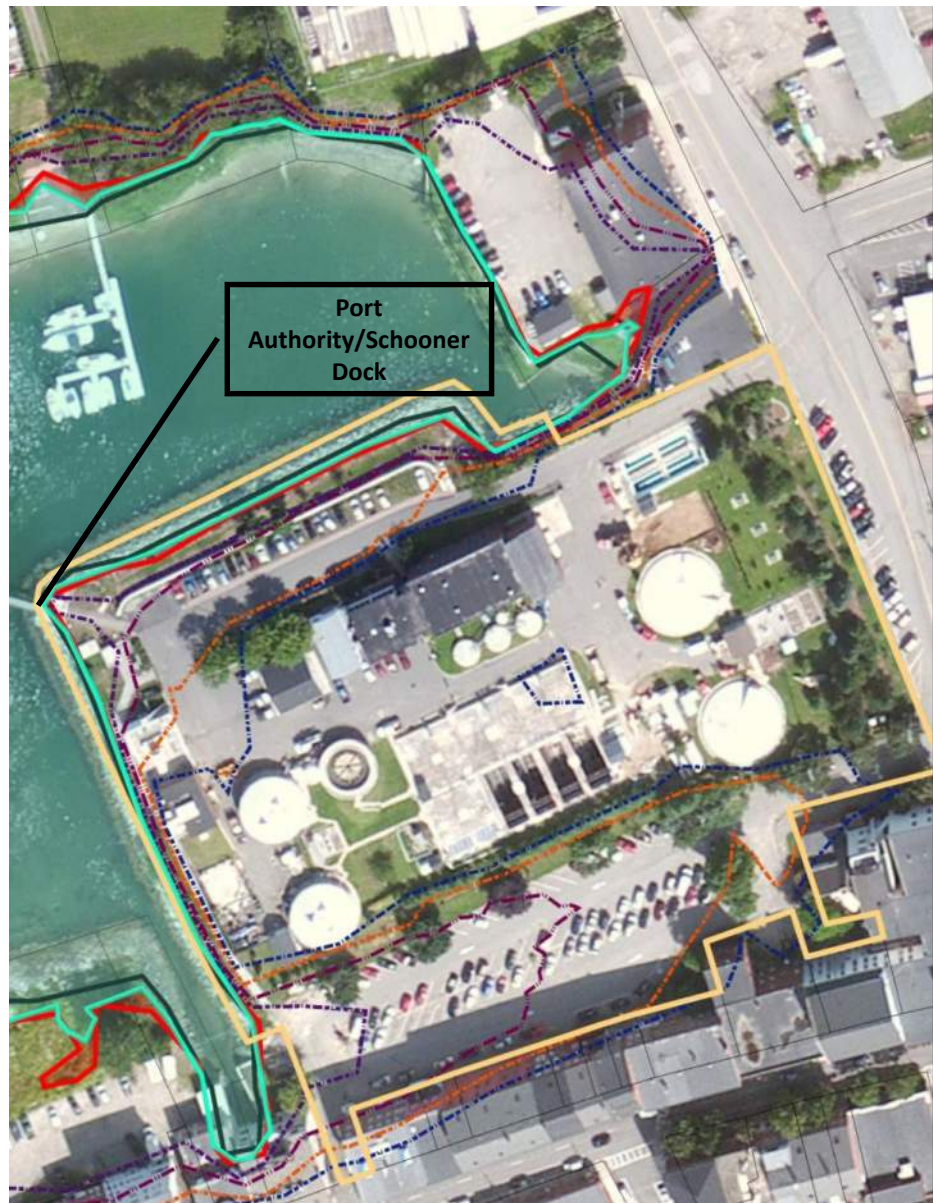
 **HAT Plus 3.9 Feet**

 **HAT Plus 6.1 Feet**

 **HAT Plus 8.8 Feet**

 **HAT Plus 10.9 Feet**









 **Tax Map Boundary**



Wastewater Treatment Facility
Sea Level Rise/Storm Surge Scenarios

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Map Legend

-  **HAT (Highest Annual Tide)**
-  **HAT Plus 1.2 Feet**
-  **HAT Plus 1.6 Feet**
-  **HAT Plus 3.9 Feet**
-  **HAT Plus 6.1 Feet**
-  **HAT Plus 8.8 Feet**
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-  **Tax Map Boundary**

*Approximate
Planning Horizon*

H. Harbor Economy

Overview of Rockland's Harbor Economy

- The Harbor Economy in Rockland is diverse and expansive with considerable overlap with other economic sectors, such as the retail, tourism, restaurants, and manufacturing. In addition, many of the sectors that comprise the Harbor Economy are not easily measurable at the local level.
- For organizational purposes, this report uses a methodology developed by NOAA for thinking about the elements of the Harbor Economy. This includes the following elements:
 - *Living Resources* – Living Resources include such areas as commercial fishing, aquaculture, seafood processing, seafood wholesale activities and other fishery services
 - *Marine Construction* – Marine Construction involves building and repairing piers, docks, marinas and other harbor and waterfront related infrastructure.
 - *Marine Transportation* – Marine Transportation includes passenger transportation, port and harbor operations, cargo, and storage.
 - *Ship and Boat Building* – Ship and Boat Building includes construction, repair and servicing of boats and ships.
 - *Tourism and Recreation* – Tourism and Recreation can include boat dealers, eating and drinking places, hotels and lodging, marinas, scenic tours and sight seeing.
 - *Off Shore Mineral Resources* – While most likely not part of Rocklands harbor economy, Off Shore Mineral Resources includes mining of resources such as limestone, sand and gravel.