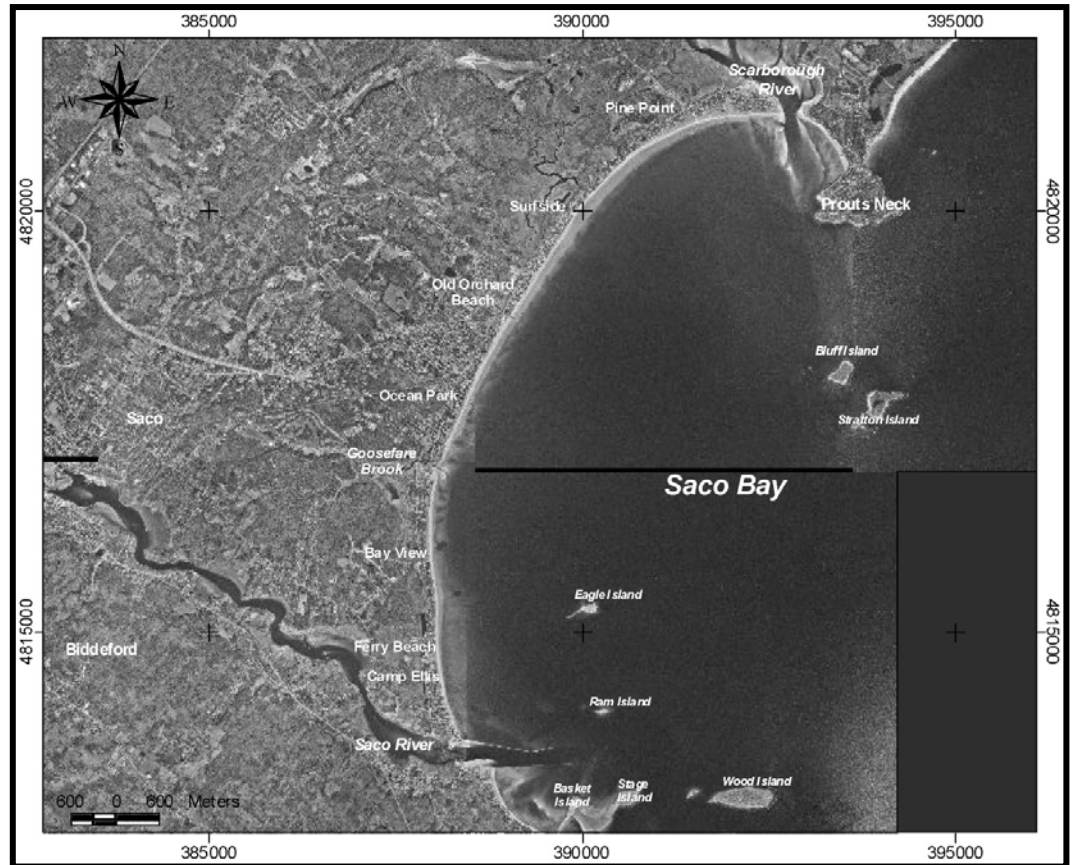




Description

Effort will examine the opportunities to develop and employ a Regional Sediment Management strategy for Saco Bay, Maine, including the three Federal Navigation Projects of Saco River, Wood Island Harbor/Biddeford Pool, and Scarborough River in conjunction with the needs of eroding beaches in the communities of Biddeford, Saco and Scarborough. The effort was initiated in the fall of 2012 and will be completed in the spring of 2015.



Saco Bay, Maine Location map

Issue/Challenges

Unpredictable and low-priority USACE O&M budget for small harbor maintenance. Competing needs of beaches in communities surrounding Saco Bay. Impact of Saco River dams and Saco and Scarborough jetties on sediment budget. Ongoing final design and implementation of Saco River and Camp Ellis Beach Section 111 project.

Successes Lessons Learned

Wave modeling complete - verifies northward sediment transport along Saco Bay, as used in preliminary sediment budget.



Expected Products

FY 12-FY13 Products

- Update and analyze shoreline change mapping with historic sources, and recent aerial photography, charts, hydrography, and LIDAR data.
- Compile dredging records for Federal and non-Federal project activity.
- Compile records of Federal structure design and construction
- Prepare geomorphology report for Saco Bay including beaches, headlands, estuaries, islands and the bay.

FY 14 Products

- Prepare a Regional Sediment Budget covering Saco Bay and tributary waterways.
- Prepare and technically review a Regional Sediment Management Strategy Report for Saco Bay focusing on the beneficial use of dredged sand sediments at eroding beaches in Saco, Biddeford and Scarborough.

Potential Users

New England District PPMD-Navigation O&M Program, State of Maine, municipalities of Saco, Biddeford and Scarborough

Projected Benefits

Targeting of placement of O&M dredged material to area beaches most needing periodic nourishment. Matching of dredged sand availability with nourishment needs for Section 111 project at Camp Ellis Beach in Saco and elsewhere.

Leveraging Opportunities

Three Federal Navigation Projects that require periodic maintenance dredging are located on Saco Bay (Saco River, Wood Island Harbor and Biddeford Pool, and Scarborough River (Pine Point Harbor).

Points of Contact

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Participating Partners

Maine Geological Survey, Maine Department of Environmental Protection, City of Saco, City of Biddeford, Town of Scarborough