

- Scope of Dredging Activity
- Some Typical Projects
- Performance Based Budget Decisions

Scope of Dredge Material Management In the North Atlantic Division



Historic Area Remediation Site (HARS) "Mud Dump"



Scarborough River Federal Navigation Project Scarborough, ME FY 2005 Maintenance Dredging



82,000 cubic yards of Sand



New 6 Acre Beach



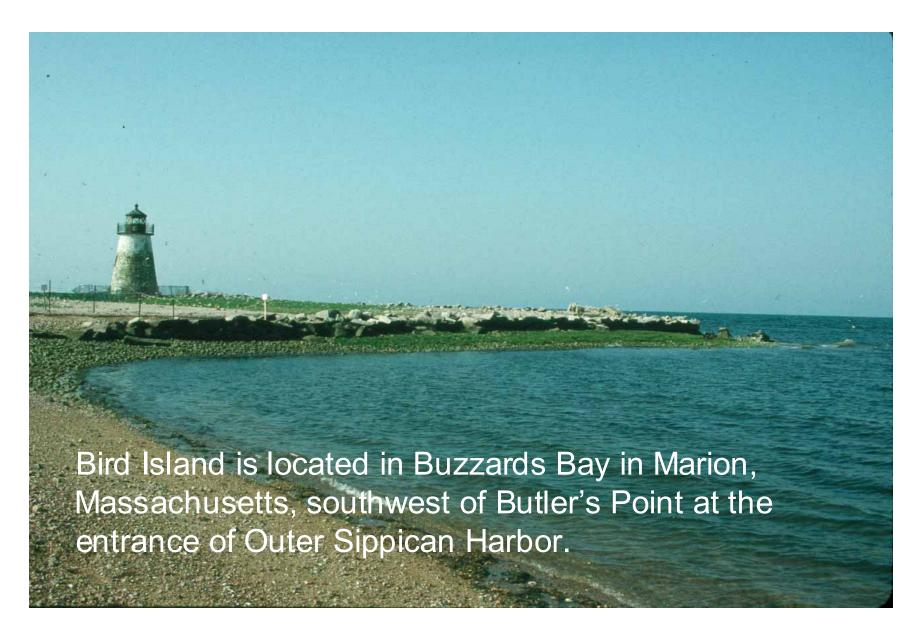
Habitat Gains

- First year after beach nourishment the beach attracted three pairs of Plovers and over 20 pairs of Least Terns
- First time nesting Least Terns have been recorded as on Western Beach.

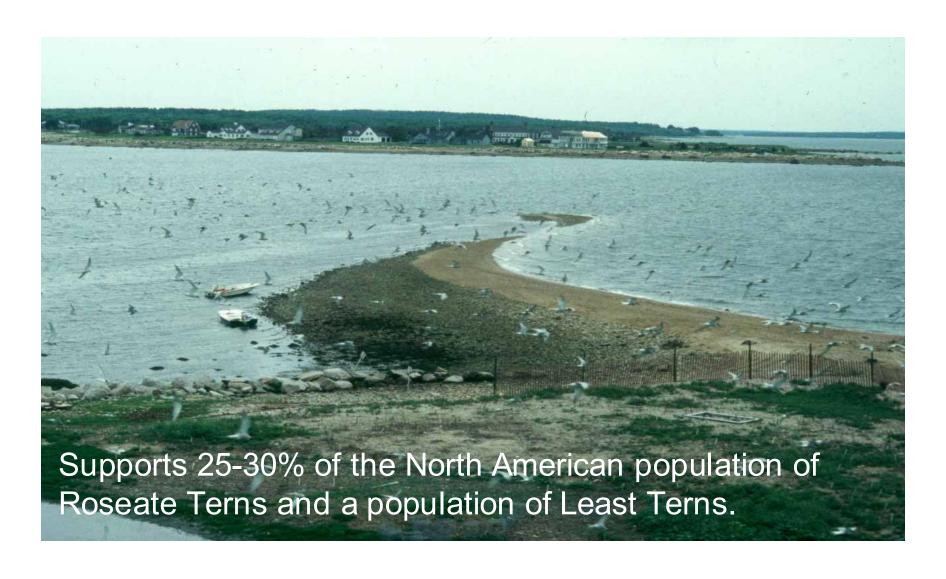




Bird Island Section 206

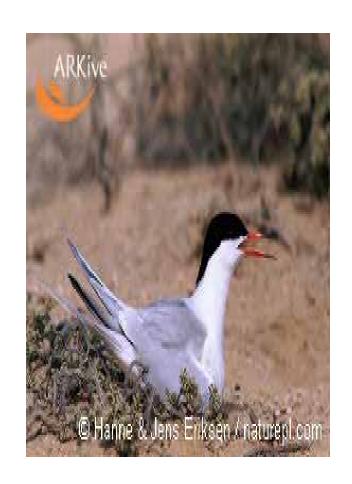


Bird Island Sand Spit

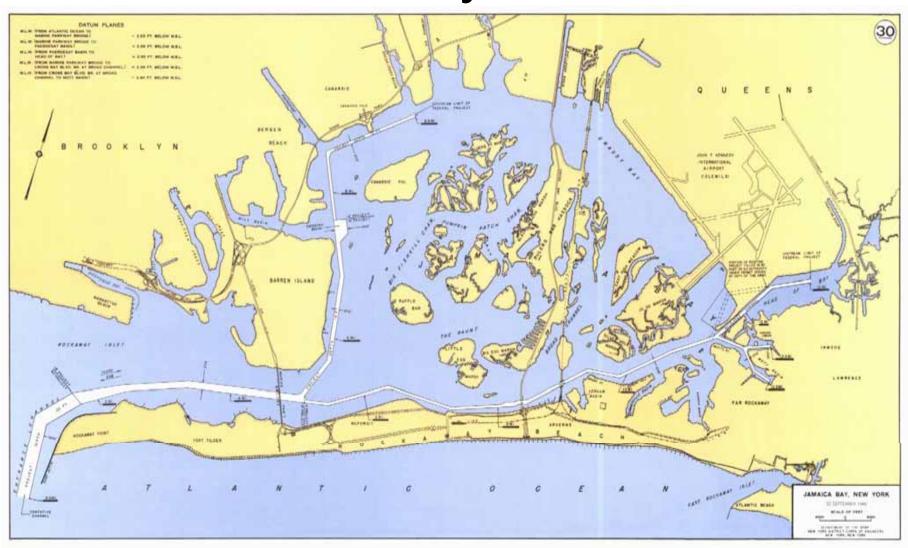


Bird Island Section 206 Out Puts

- Double the 1.5-acre nesting area;
- Relieve current crowding;
- Allow increase of ~2,000 pairs of Common Terns to ~4,000 pairs;
- Allow increase of ~1,200 pairs of Roseate Terns to ~2,300 pairs.



Jamaica Bay, New York



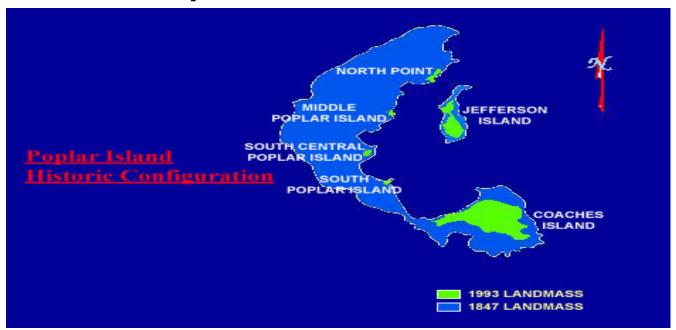
Jamaica Bay Marsh Islands



Dredged material stockpiled at Floyd Bennett Field



Poplar Island, MD



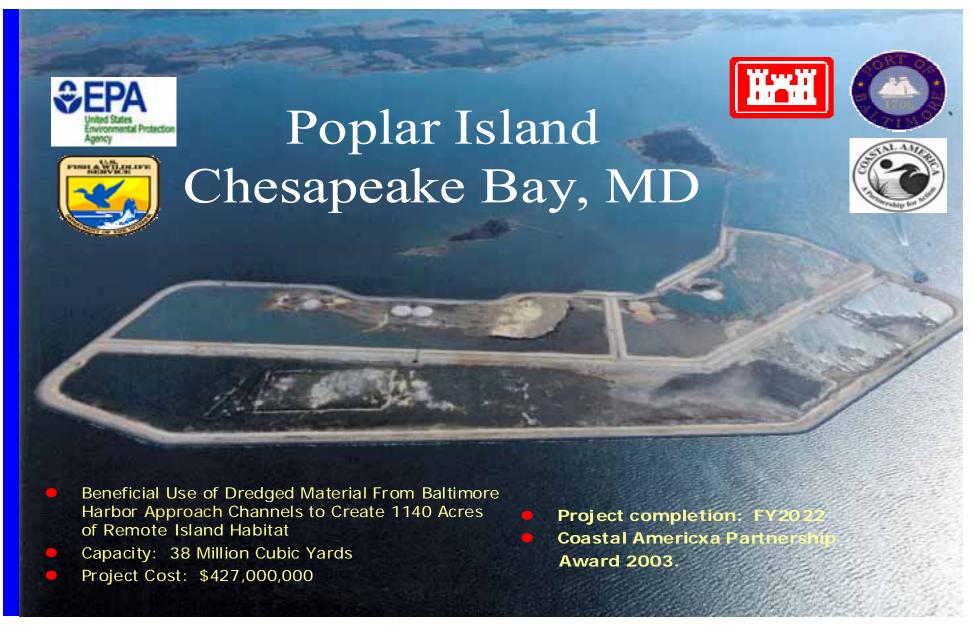
- Poplar Island once teemed with birds and was a hunting preserve for politicians in the 1930s.
- "There were thousands and thousands of ducks, great blue heron and a lot of different shore birds."

Poplar Island



Poplar Island Habitat Creation





Restore Poplar Island to about 1,140 acres, the same size it was in 1847.

Poplar Island





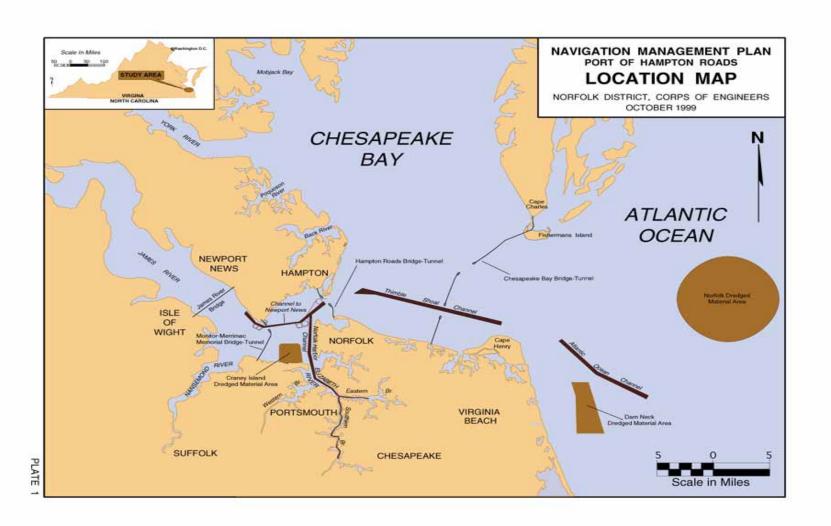
 http://www.nab.usace.army.mil/projects/M aryland/PoplarIsland/index.html



Poplar Island Resident



Craney Island, VA



Craney Island Disposal Site



Craney Island Dredged Material Management Area (CIDMMA), Portsmouth, VA.



A lined scrape containing two Least Tern eggs.



Justifying the Action for Budget Purposes

- Decision tool to get best buy for federal dollar
 - Science based
 - Value of cumulative contribution.
- Create a point based rating of national significance that can be used to support decisions to budget for the project.
- Partnering Role in the Process? (USFWS, NMFS, DNRs, USGS, TNC, DU, NRCS, CWRPs etc)

Systems/Watershed Context

Budget Performance Criteria



- Scarcity
- Connectivity
- Special Species Status
- Plan Recognition

Plan Recognition

10 Points

- National Recognition: Coastal American 2003 Partnership Award
- Innovative partnership of federal, state, and local governments combined with non-government efforts to restore and protect the coastal environment.
- The recommended plan will continue this partnership and will integrate lessons learned to improve future habitat restoration initiatives.



 Address federal priorities ie Cheaspeake Bay Agreement.

Special Species Status



10 points

- Foraging habitat for Federally-listed
 Bald Eagle (nesting on Coaches Island)
- Bird islands in wetland cells designed to encourage nesting by State-listed Least Terns



• Other observed State-listed species have been observed, such as: Royal Terns, American Oystercatchers, Northern Harriers, and Spotted Sandpiper.

Scarcity

20 points



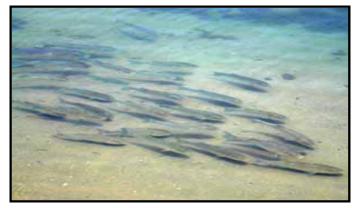
- Poplar Island-Approximately 10,500 acres of remote island habitat in the Chesapeake Bay has been lost in the last 150 years due to erosion and sea-level rise.
- Significant loss of islands, including marsh islands, in the Chesapeake Bay make this habitat rare and remaining islands are in jeopardy.
- Scare on a national scale and declining locally

Connectivity

20 points



• Beaches can serve as a significant feeding area connection during spring and fall migration for many shorebirds and some waterfowl.



• Island salt marsh habitat provides a connection between deep, open water predator finfish and marsh-dependent forage species, making it unique compared to mainland salt marshes



• Physical connections are important tend to rank higher.

Take Away Points

- Restoration activities in NAD are diverse and range from simple to complex engineering actions.
- Emphasis is on win –win synergies based on beneficial use and cumulative actions by others in a watershed context
- Project funding decisions will be supported by science based performance rankings