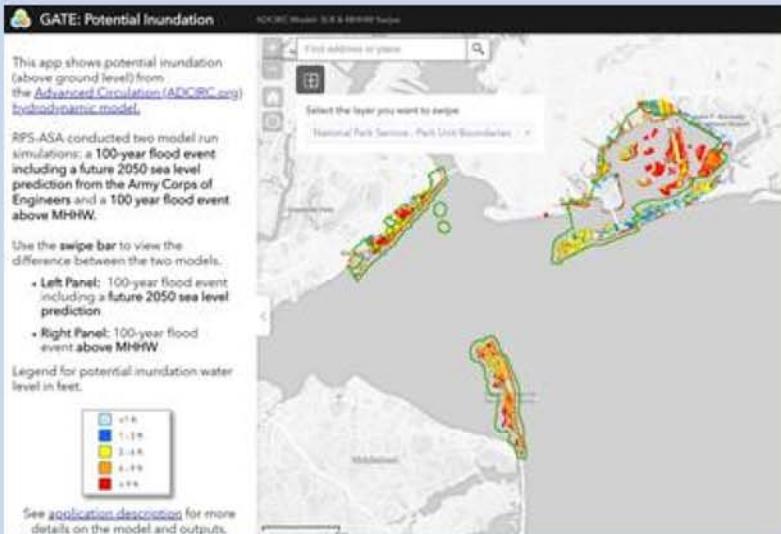


# Enhancing our Existing Scientific Information

Projects ranged from collecting data on salt marshes, elevations of buildings and key natural areas to developing data products, planning tools, and maps



Sea-level rise modeling and tools for web-based planning exercises



National Park Service  
Northeast Region



Training Park Staff and partners on the use of newly acquired survey equipment



Elevation data collection, Sunken Forest, Fire Island NS

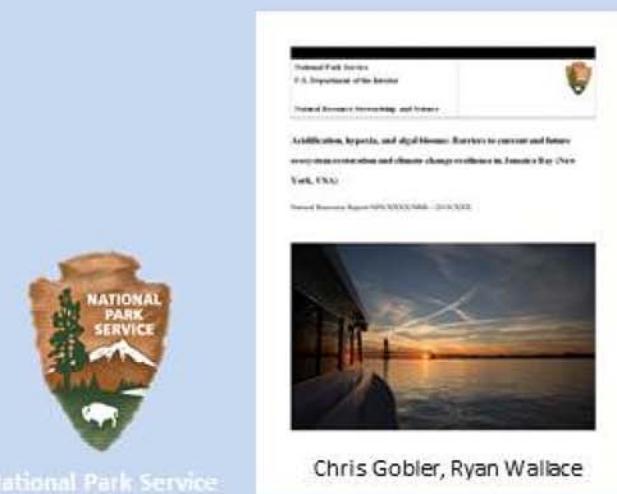
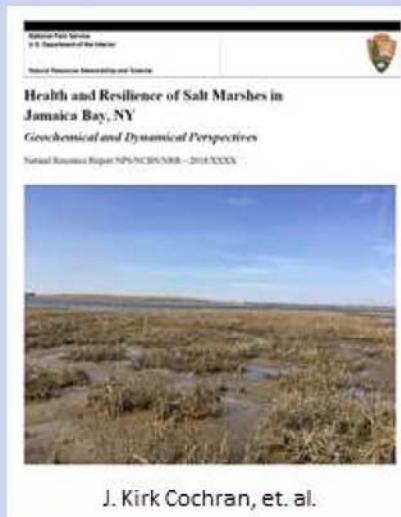


What is the vulnerability of  
marshes to sea level rise?

Elevation data collection, salt marsh habitats

# Enhancing Our Understanding of Ecosystem Function and Resiliency

How did Hurricane Sandy affect the ecosystem dynamics within **Jamaica Bay** and the **Sandy Hook** Unit of Gateway NRA?



# Enhancing Our Understanding of Ecosystem Function and Resiliency

How has the Fire Island Wilderness Breach changed Great South Bay ecosystem dynamics?



Amanda I. Tinoco, Bradley J. Peterson



National Park Service  
U.S. Department of the Interior  
National Resource Monitoring and Science

Assessing the Response of Juvenile and Adult Hard Clams  
to the New Breach in Great South Bay  
Post-Hurricane Sandy study

Natural Resource Report NPS/NCR/NR-2011/009

A photograph of a person wearing a dark wetsuit and a blue cap, standing on a white boat. They are leaning over the side, possibly collecting samples or equipment. The boat is on the water, and the background shows the coastline of the Great South Bay.

Christopher Gobier, Alexandra Stevens



National Park Service  
Northeast Region

National Park Service  
U.S. Department of the Interior  
National Resource Monitoring and Science

Effects of Hurricane Sandy on Fire Island National Seashore (NY)  
Assessing seagrass-associated faunal communities

Natural Resource Report NPS/NCR/NR-2011/008

An aerial photograph showing the Fire Island National Seashore. The image captures the long, narrow barrier island stretching into the distance, with various inlets and sandbars visible where rivers meet the ocean. The land is a mix of green vegetation and tan sand.

Amanda I. Tinoco, Bradley J. Peterson

National Park Service  
U.S. Department of the Interior  
National Resource Monitoring and Science

Effects of Hurricane Sandy on Fire Island National Seashore and the Great South Bay  
A Post-Hurricane Study Analysis

Natural Resource Report NPS/NCR/NR-2011/009

An aerial photograph of the Great South Bay coastline. The image shows a complex network of inlets, sandbars, and tidal flats. The water is a deep blue-green color, and the surrounding land is a mix of green and tan.

Charles Flagg et al., 2018

National Park Service  
U.S. Department of the Interior  
National Resource Monitoring and Science

Effects of a Storm-Induced Barrier Breach on  
Community Assemblages and Ecosystem  
Structure within a Temperate Lagoonal Estuary

A Post-Hurricane Sandy Analysis

Natural Resource Report NPS/NCR/NR-2017/003

An aerial photograph showing the Great South Bay coastline after a significant storm event. A large, new breach has been carved through a barrier island, creating a wide inlet. The surrounding land and water show signs of erosion and sediment movement.

Janet Nye et al., 2018

