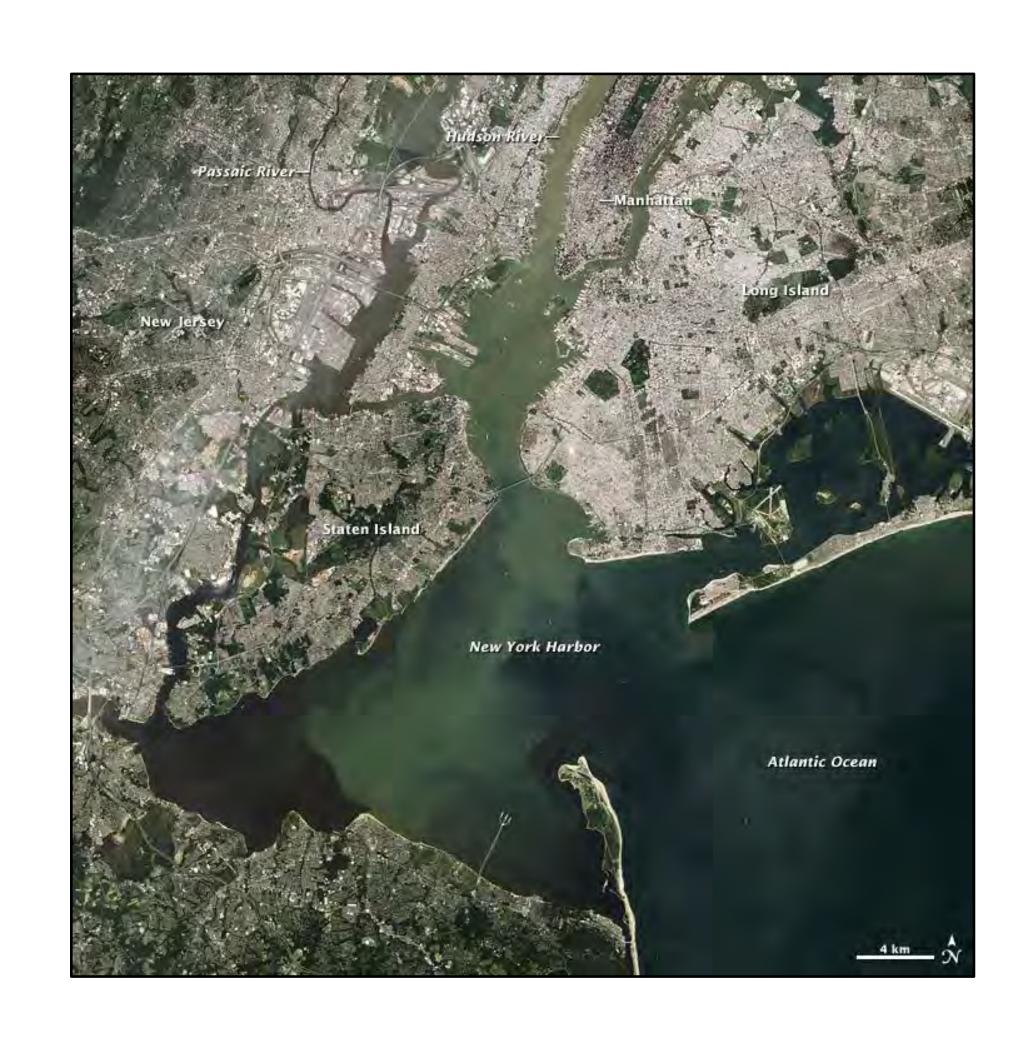
U.S. Army Corps of Engineers, New Jersey Department of Environmental Protection, and New York State Department of Environmental Conservation

PUBLIC INFORMATION MEETING

New York and New Jersey Harbor and Tributaries Focus Area Feasibility Study

Coastal Storm Risk Management



- •6:00-6:15 Welcome/sign-in
- •6:15-6:45 Presentation by the study team
- •6:45-8:00 Scoping poster session time for participants to ask questions and have follow-on discussion with the study team, as well as provide input/comments into the scoping process

6:00PM Thursday, 20 September 2018 New York Aquarium, Brooklyn, New York

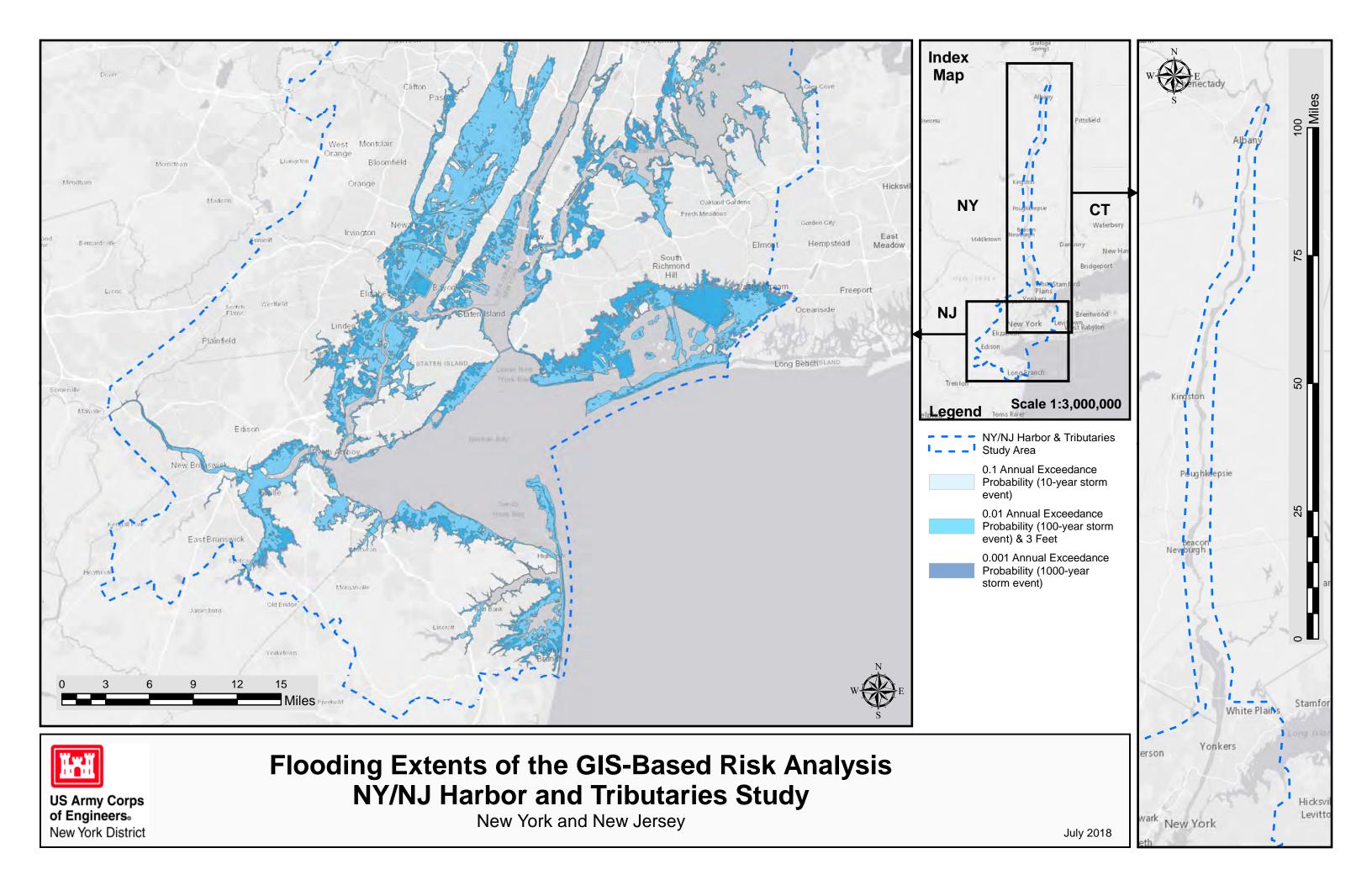


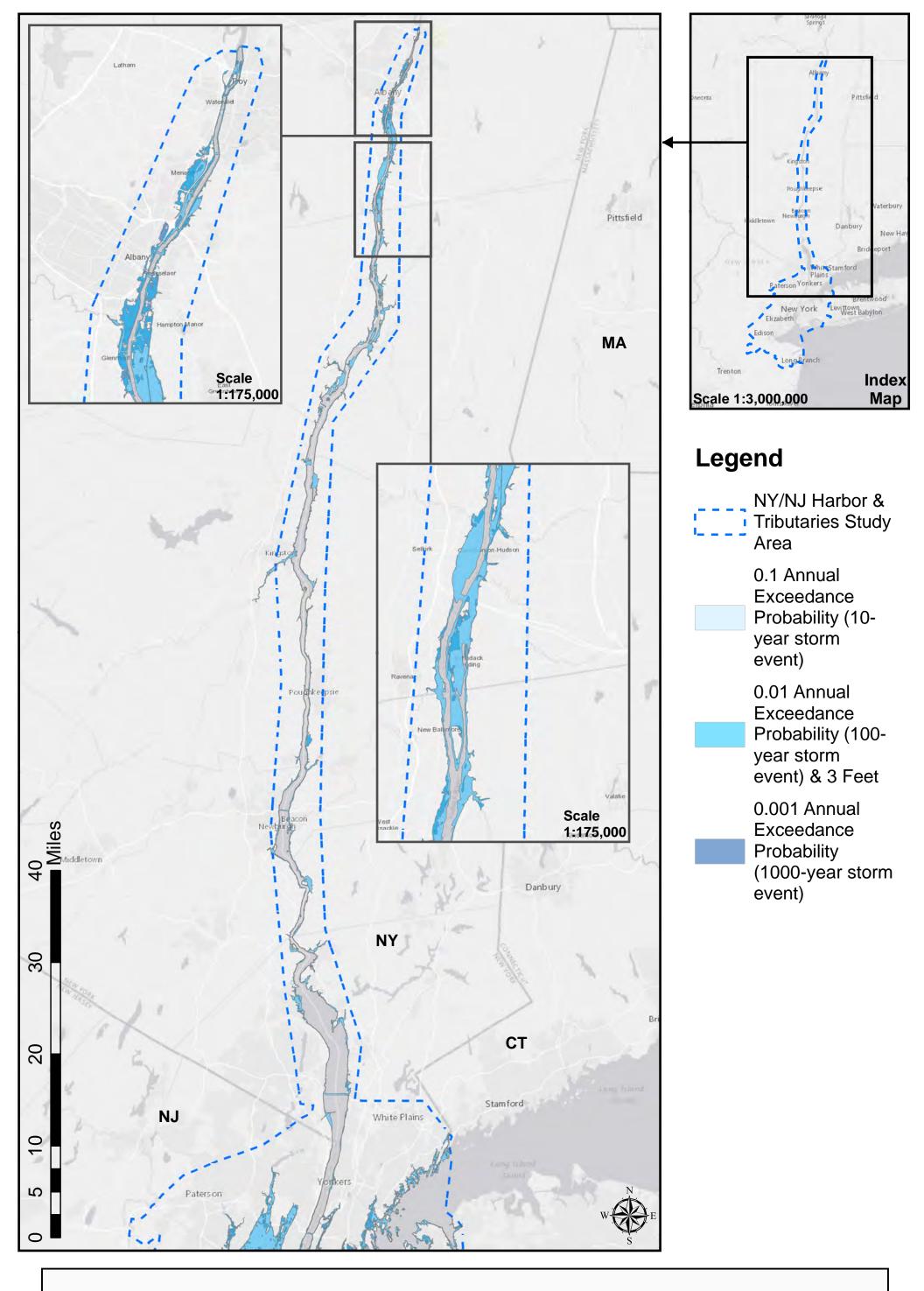
Department of Environmental Conservation

Mayor's Office of Recovery & Resiliency









Flooding Extents of the GIS-Based Risk Analysis NY/NJ Harbor and Tributaries Study - Hudson River

New York and New Jersey

July 2018

New York-New Jersey Harbor & Tributaries Feasibility Study

This **feasibility study** was **authorized** by Public Law 84-71, which calls for "...an examination and survey to be

made of the eastern and southern seaboard of the United States with respect to hurricanes, with particular



New York and New Jersey Harbor and Tributaries Focus Area Feasibility Study

Environmental Analysis Topics

The Corps of Engineers is currently assessing the existing conditions in the study area of the environmental resources below, as well as how they would be affected by the measures in the proposed project alternatives. This includes both the temporary impacts during construction and when potential structures are closed, as well as the permanent impacts when they remain open.

Topography and Bathymetry

Storms and Flood Levels

Land Use and Development

Critical Infrastructure

Geology and Soils

Water Resources
Groundwater

Surface Water Water Quality

Example:

We will need to assess the effects on parameters such as dissolved oxygen, temperature, salinity, nutrient concentrations, tidal ranges, etc.

Example:

We will address

existing wetlands

any impacts to

Vegetation

Socioeconomics

Population Housing

Environmental Justice

Economy/Income

Cultural Resources

Historic Properties

Recreation



Fish and Wildlife

Fish-

Mammals

Birds

Amphibians and Reptiles

Threatened and Endangered Species

Example:

Migration routes

Environmental Contamination

Aesthetics and Scenic Resources

Transportation

Air Quality

Noise

Example:
We will consider
the impacts that
any structural
measures will have
on viewsheds

Cumulative Impacts (nearby past/ongoing/proposed projects)









New York and New Jersey Harbor and Tributaries Focus Area Feasibility Study

Structural Measure Examples

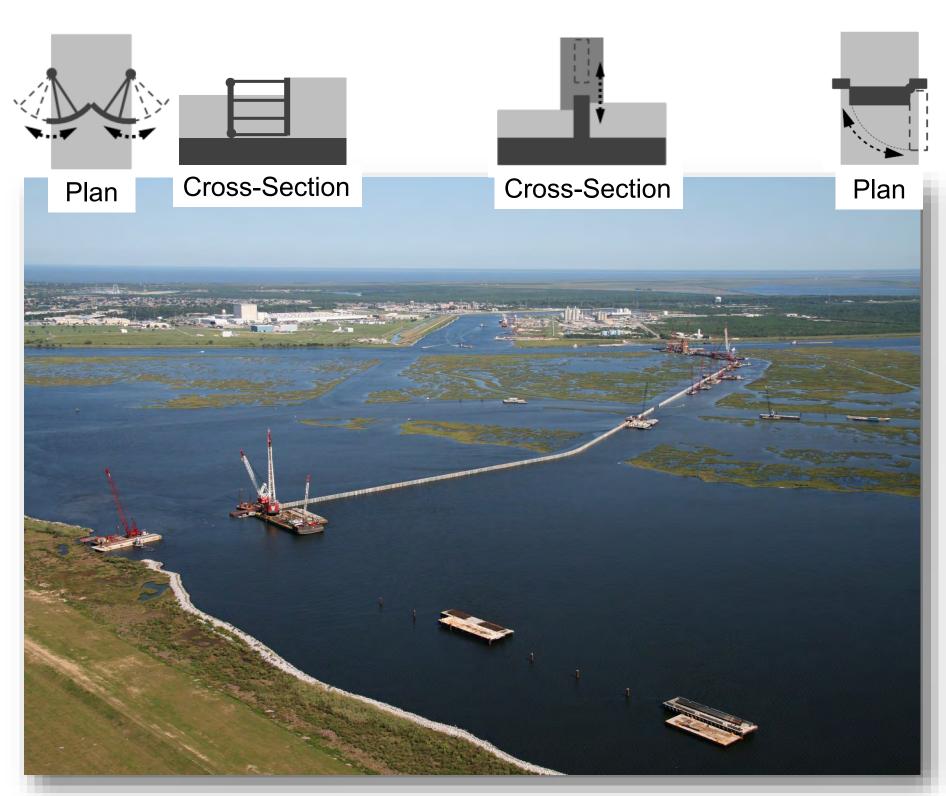
The primary function of these structures is to reduce the risk of flooding on the landward side. Most structural measures are either in-water barriers, of which there are 18 worldwide (such as those shown below in The Netherlands, London, and New Orleans) or shoreline features (like levees and seawalls, also below). Here is a small sample of the structural measures being considered for this study.



Maeslant Barrier – near Rotterdam, The Netherlands Floating Sector Gate



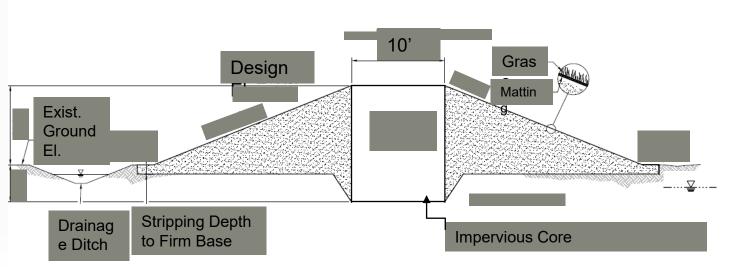
Thames Barrier – London, UK Rotating Sector Gate, Tainter Gate



Inner Harbor Navigation Canal Lake Borgne Surge Barrier - New Orleans, LA Sector Gate (Vertical Access), Vertical Lift Gate, Barge Gate

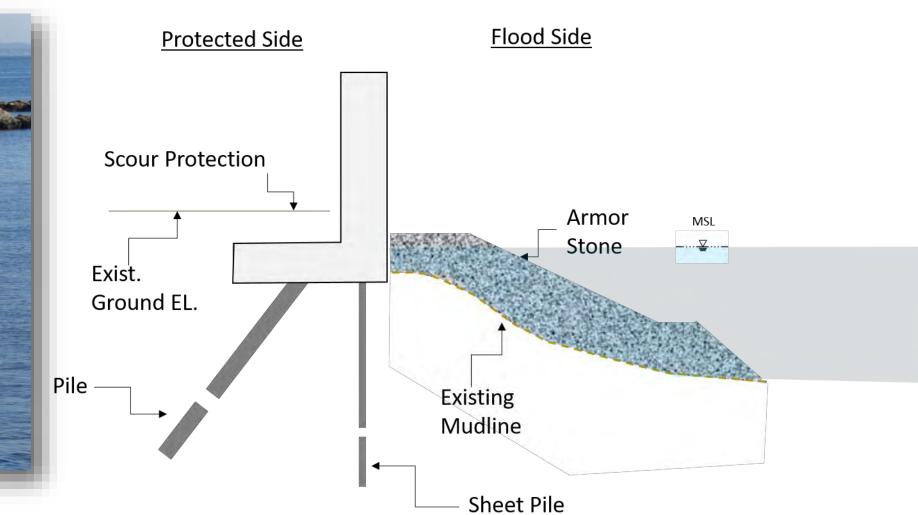






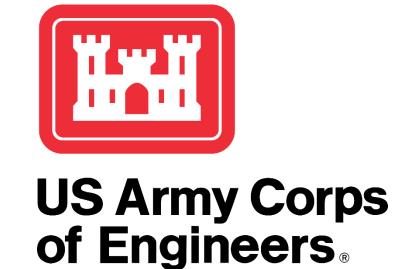


Seawall - Martha's Vineyard, MA











ALTERNATIVE 1: NO ACTION (FUTURE WITHOUT PROJECT CONDITIONS)

