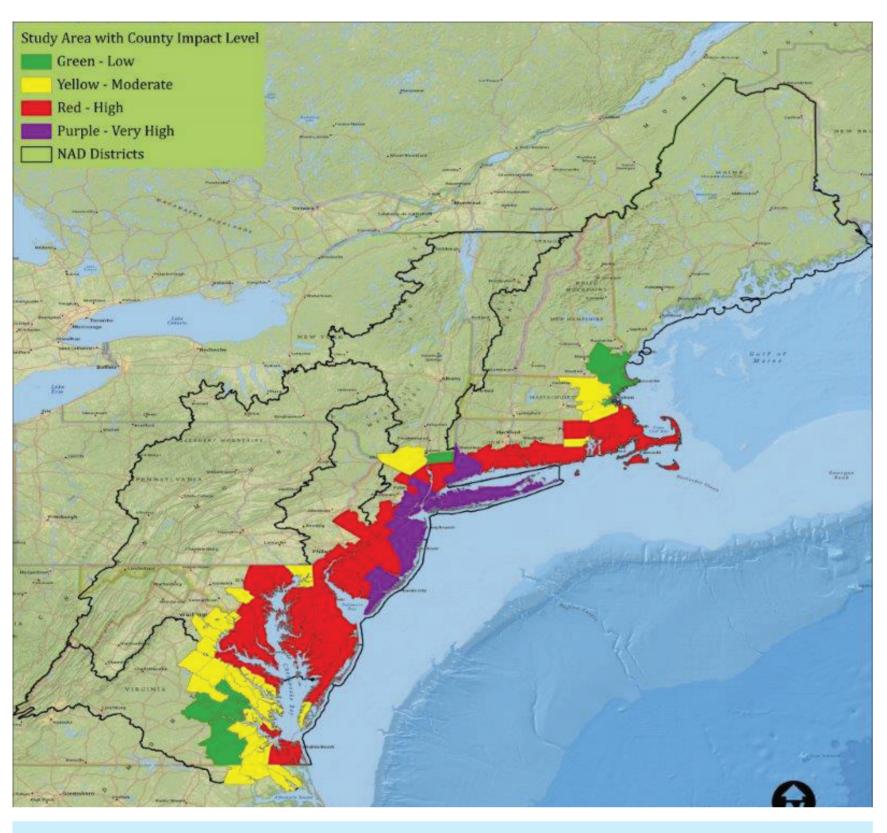
North Atlantic Coast Comprehensive Study





High-risk Areas Identified

- Rhode Island Coastline
- Connecticut Coastline
- New York New Jersey Harbor and Tributaries
- New York Nassau County Back Bays
- New Jersey Back Bays
- Delaware Inland Bays and Coastline
- Maryland City of Baltimore
- District of Columbia Metro Region
- Virginia City of Norfolk

These are coastal communities identified as needing further analysis. Several spin-off studies

stemmed from this study. **BUILDING RETROFIT**

Risk Management Strategies for Coastal Communities STRUCTURAL NON-STRUCTURAL ENHANCED FLOOD WARNING & EVACUATION PLANNING LAND USE MANAGEMENT/ZONING & FLOOD INSURANCE DEPLOYABLE FLOODWALLS **FLOODWALLS** SEAWALLS REVETMENTS BULKHEADS STORM SURGE BARRIERS BEACH RESTORATION BEACH RESTORATION BEACH RESTORATION & GROINS DRAINAGE IMPROVEMENTS LIVING SHORELINES **OVERWASH FANS** REEFS SUBMERGED AQUATIC VEGETATION

About the Study

- · Commissioned by Congress as part of Hurricane Sandy recovery.
- Finalized by Army Corps in January 2015.
- Designed to help local communities better understand changing flood risks associated with climate change and to provide tools to help communities prepare for future flood risks.
- Builds on lessons learned from Hurricane Sandy.
- Addresses coastal storm and flood risk to vulnerable populations, property, ecosystems and infrastructure affected by Hurricane Sandy in North Atlantic region.
- Established a risk reduction framework for conducting coastal storm risk studies.

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NACCS Coastal Storm Risk Management Framework (Repeat initial five steps for each Tier 1, 2, and 3 Evaluations)



INITIATE ANALYSIS Identify Stakeholders, Partners, and Authorities **Identify Constraints and Opportunities**

Formalize Goals Determine Spatial and Temporal Scale of Analysis

CHARACTERIZE CONDITIONS Define Physical and Geomorphic Setting Compile Flood Probability Data ANALYZE RISK AND VULNERABILITY

Establish Baseline Conditions and Forecast Future Conditions

Map Inundation and Exposure Assess Vulnerability and Resilience Determine Areas of High Risk



Consider Blended Solutions Develop Performance Metrics Establish Decision Criteria

Assess Benefits

SELECT PLAN

EVALUATE AND COMPARE SOLUTIONS Develop Cost Estimates



DEVELOP IMPLEMENTATION PLAN Complete Pre-construction Engineering and Design

Consider Operation and Maintenance Issues **Establish Adaptation Thresholds** Develop Strategic Monitoring Plan

EXECUTE PLAN

MONITOR AND ADAPT Measure Performance and Benefit Production Adaptively Manage

Web Link: nad.usace.army.mil/CompStudy/