Preparing for the next Sandy

Helping Coastal Communities
Prepare for and Recover from Flood Disasters

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Outline

• **Superstorm Sandy**: NOS capabilities
  – Pre and Post-Sandy response
  – Positive Sandy results: Supplemental funding

• **Long-term recovery planning**
  – Resilience
  – Coastal tools and services to support local decision makers
  – Interagency collaborations
Pre-Sandy: Observational & Planning Tools

Storm Quicklook

CO-OPS Storm QuickLook product integrates water level information with the National Hurricane Center projected storm path.

Pre-Positioned Assets

NOAA pre-positioned assets to support response, including Navigation Response Teams (NRT’s) to survey the port access routes and assist Port managers with preparing for the storm.
Post-Sandy Response: Ports, Hazards, Joint Staffing

- Port Surveys
- Marine Debris
- NOAA Shoreline Imagery
- Joint Field Office Staffing
Sandy Supplemental Funding - NOS

PL 113-2: $326M for NOAA

NOS funding includes:
• $50M for mapping, charting, geodesy, and marine debris services
• $3M for Coastal Impact Assistance
• $7M to repair damaged PORTS, NWLON, and IOOS equipment and $2.3M for repair of NOS facilities

NOS Focus Areas:
• Foundational observations/data collection
• Improved modeling, tools, and services
• Capacity building and regional support (grants)
Planning for Long-Term Resilience

Ensuring Safe, Efficient, and Environmentally Sound Marine Navigation

Supporting Community Livability

Promoting Resilience to Coastal Hazards
Coastal Planning Tools for the Future

Digital Coast Resilience Data and Tools

- Coastal County Snapshots
- C-CAP Land Cover Atlas
- Coastal Lidar
- SLR and Coastal Flooding Impacts Viewer
- ENOW

http://csc.noaa.gov/digitalcoast/
Inundation with 1 foot of sea level rise

Inundation with 6 feet of sea level rise

Shrewsbury River, NJ
Interagency Collaboration NOAA Data (FEMA Property Assessments)
Integrated SLR Planning Tools For Post-Sandy Redevelopment

- Current Risk Maps (FEMA ABFE/PFIRM/DFIRM Interactive Maps)
- Current Risk + SLR Scenarios Maps (ABFE/PFIRM/DFIRM + SLR Scenarios Interactive Maps)
- Integrated SLR Calculator and Flood Elevation Tools
- Flood Elevation Tables
To improve coastal resilience:

• Collaboration on long-term strategies
• Systems-approach
• Promote recognition and awareness
Challenges in Positioning America for the Future

- Budget/Sequestration
- Innovation
- Social Science
- Culture: on rebuilding
Discussion