USCG Sector New York

HURRICANE SANDY
Response and Recovery
in New York and New Jersey
Hurricane Sandy
SIGNIFICANT WIND IMPACT
58 mph +

THREAT POTENTIAL
HIGHEST
MEDIUM
LOWEST

Norfolk
Cape Hatteras
D.C.
Philadelphia
New York
Boston
RECORD SETTING WAVE HEIGHTS AT OFFSHORE BUOYS DURING COASTAL STORM SANDY

1. **BUOY 44065**; 15 NAUTICAL MILES SE OF BREEZY POINT, NY; RECORDS ONLY DATE BACK TO 2008.
2. **BUOY 44025**; 30 NAUTICAL MILES SOUTH OF ISLIP, NY; RECORDS DATE BACK TO 1975.

- **AT BUOY 44065**, A WAVE HEIGHT OF 32.5 FEET REPORTED AT 8:50 PM EDT OCTOBER 29, 2012 EXCEEDED THE PREVIOUS RECORD OF 26 FEET SET AROUND 9 AM EDT AUGUST 28, 2011, ASSOCIATED WITH IRENE.


- ONE CAN INFER FROM THE DATA THAT THESE WAVE HEIGHTS WERE THE LARGEST SINCE RECORD KEEPING BEGAN IN THIS PORTION OF THE WESTERN ATLANTIC IN 1975.

**RECORD INFORMATION COURTESY OF US NATIONAL WEATHER SERVICE MOUNT HOLLY NJ**
Water Levels at The Battery

Valid Time: 2018 (EDT) 10/29/12

Observed Height: 13.34 ft. X

Predicted Height: 4.64 ft.

Height (Feet) Above MLLW
The Path of Water...
Regional Impacts
Public Impact - New York
Public Impact New York City Boroughs
Wide Spread Power Outages
Mass Transportation Impacts - Air
Mass Transportation Impact - Water
Mass Transportation Impact - Water
Mass Transportation Impact - Rail
Mass Transportation Impact - Roads/Tunnels
(Brooklyn-Battery Tunnel, Dewatered by Atlantic Strike Team & Army Corps of Engineers)
Wide Spread Salt Water Impacts on Electronics, Security Systems, and Control Systems
Waterways and Marine Terminals Severely Impacted
Energy (fuel) Grid Damaged
Energy (fuel) Grid Flooded
ENTIRE NE Fuel Supply Disrupted
Container Terminals Disrupted
>3,000 Local Trucks & Trains Flooded/Destroyed (Container Movement Backlog)
September 2012 – Boat Dock along the Arthur Kill Waterway, the Co-Op’s quick response fleet for oil spills
Key Port Partners
Damaged Infrastructure
Loss of Iconic Maritime Structures
Old Orchard Light (Before)
Old Orchard Light (After)
Northeastern Storm – 8 Days Later
Concurrent Operational Priorities

Resume Coast Guard Operational Capability

Recover the Marine Transportation System

Respond to/remediate environmental hazards
Coast Guard Infrastructure Impacts
Mid-Storm SAR Coordination
ANT New York/Bayonne Fuel Pier
Station New York – (before)
Station New York (during)
Station New York (after)
Station New York (after)
Station New York (May 2013...6 months later...)
Environmental Impacts
Numerous Concurrent Oil Spills
(over 450,000 gallons oil released from several bulk liquid holding facilities along the Arthur Kill Waterway)
Marine Debris Fields
Oil Spill Command Post – NSF/AST
Oil Spill Command Post (LANT IMT)
Marine Transportation System Recovery
Purpose of MTSRU

• Track and Report of Status of Marine Transportation System
• Understand Critical Recovery Pathways
• Recommend Courses of Action
• Provide Stakeholders with Avenue of Input for Response
• Provide Unified Command with Recommended Priorities for MTS Recovery
NOAA Navigation Response Team (NRT)
NOAA and Army Corps
Channel Surveys
Total Channel Assessment & Surveys
<table>
<thead>
<tr>
<th>Aid Name</th>
<th>ATON DISCREPANCIES</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Primary Servicing Unit</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Navigation Hazard Remediation
Navigation Hazard Remediation

CURRENT DERELICT CONTAINERS/POTENTIAL HAZMAT 1200 (OCT NOV)

- **3 CONTAINERS (VERY HIGH PRIORITY)**
  - Location: Between the North and South Brothers Islands, next to Rogers Island.

- **1 CONTAINER (HIGH PRIORITY)**
  - Location: Chart 12339. Appears to be free of 3-4 containers.
  - Target: Measures approximately 30' x 10' x 9'.

- **2 CONTAINERS (LOW PRIORITY)**
  - Location: Partially submerged in the broad channel, wedged deep in the marshes at the Cross Bay Bridge, Division 2, Brooklyn, at Cross Bay and 169th Street. Not obstructing any navigable commercial waterway at this time, but may become a concern if discovered by the Nor'easter. MSTI Borkowski reports.

- **1 CONTAINER (LOW PRIORITY)**
  - Location: East side of channel at Drover's Point Beach in position L 40°42.8'N 70°14.06.3'W.

- **REPORTED CONTAINERS**
  - SMLU 505629
  - SMLU 544090
  - SMLU 545501
  - SMLU 545692
  - TRLU 165930
  - SMLU 5438996

Below is a list of the boxes that are unaccounted for at this time. At least 2 suspected in the water inside the #5 buoy.

AMFU 4236913 = Missing [40' Flat Rack]
ECMU 4886330 = Missing
SMLU 545601 = Missing
Navigation Hazard Remediation
Vessel Traffic Service New York
Managed Vessel Queue
First Tanker to Arrive Post Hurricane Sandy
USCG/CBP Collaborated 24x7, Never Compromised Maritime Security as Ships Came into Port
Salvage and Vessel Recovery
Common Access Reporting Tool
Common Access Reporting Tool
Barging Debris Fields via MTS
Command and Control
Incident Command Structure (changing in progress)
Incident Command Structure
Hurricane Sandy impacted the New York and New Jersey Region on October 29, 2012.

Approximately 150 people officially reported to have lost their lives, but many people still unaccounted for.

$70B estimated damage reported by the President to Congress.