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HURRICANE SANDY POLLUTION RESPONSE

National Response Framework (NRF) National Contingency Plan (NCP)

Eric Doucette, Commander U.S. Coast Guard

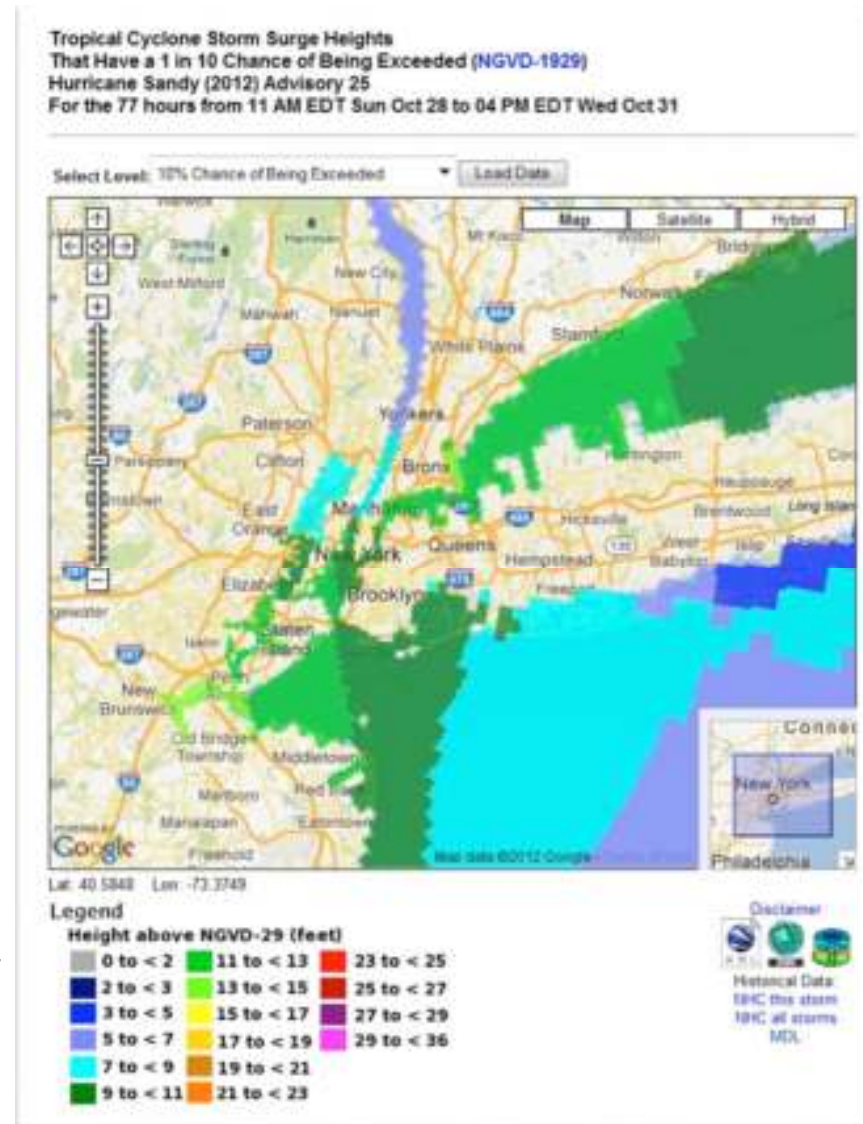
“This Briefing is Unclassified”

Hurricane Sandy - Coastal Impact



Natural Disaster

- 24 States affected
- President declared disaster declaration
- National Response Framework (NRF)
- Severe damage New York & New Jersey
 - 8 million people without electricity



Hurricane Sandy - Disruptions



Area infrastructure flooded

- Marine terminals
- Electrical grid
- Fuel supplies
- Lodging....
- Mass transportation
 - Marine Transportation System

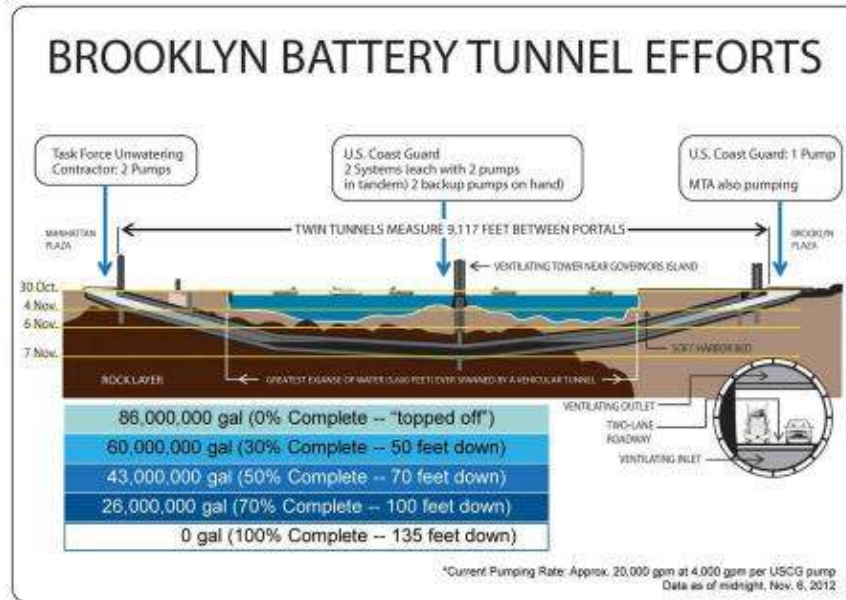
National Contingency Plan



National Contingency Plan (NCP)

- Regional Response Teams (RRT)
- Area Contingency Plans (ACP)
- Facility Response Plans (FRPs)
 - Motiva
 - Kinder Morgan
 - Phillips 66
- Area/Unified Command oversight
- NCP Success Story!

National Response Framework



National Response Framework (NRF)

- Emergency Support Functions (ESF)
 - ESF #1 through ESF #15
- Mission Assignment (MA)
- "Cost Share" with states
- Mission Assignments
 - New York and New Jersey
 - EPA and Coast Guard
- ESF-3 U.S. Army Corp
 - "Un-water" Mission Assignment

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Hurricane Sandy ESF-10 Operations



Abandoned Tank Ship CADDELL

- Determination of Ownership
- Threat from Winter Storm Athena
- New York Sheriff Maritime Law
 - Courts
 - Auction
- Normally Vessel Response Plan (VRP), vessel insurance and proactive owners or operators.

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Hurricane Sandy ESF-10 Operations



Text book response by industry!

- ~1,500 spill contractors
- Facility & Vessel Response Plans
- Spill management teams
- Wildlife Operations

“A National Contingency Plan Response at the “Big Three”

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Hurricane Sandy ESF-10 Operations



- Area/Unified Command
- State of New York, New Jersey, EPA and Coast Guard
 - City of New York, Boroughs & Counties
 - Defined & planned area of operation
 - Area Contingency Plan (ACPs)
 - Established coastal divisions
 - 200+ surge staff from Federal Government to support ESF#10



Hurricane Sandy ESF-10 Operations



U.S. COAST GUARD
 Notice: New York
 Pollution Management Officer

This office is hereby providing notice to the general public that the U.S. Coast Guard is conducting an investigation of the incident involving the vessel, NY 4438, which was damaged by Hurricane Sandy on 29 October 2012. The vessel is currently beached on the shore of the Port of New York and New Jersey. The vessel is currently being used as a temporary storage facility for debris and other materials. The vessel is currently being used as a temporary storage facility for debris and other materials.

You are encouraged to contact the U.S. Coast Guard Incident Command Post team located at this office at: (201) 315-4113.

DECAL: _____ DATE: _____



Best Practices

- Wide Area Assessment
 - “Boots on the ground”
- “Operational Protocols”
 - Pollution versus debris
- Limit use of Federal and State funding to mitigate pollution threat
 - Industry and owner actions
 - Insurance

Hurricane Sandy ESF-10 Operations



ESF#10 Field Operations & Government Contractor Oversight

- Oil Spill Removal Organizations (OSROs)
- Basic Ordering Agreement (BOA)
- Authorization to Proceed (ATP)...”on the spot scope of work”
 - Proficiency of Dailies and waste stream paperwork
 - Sub Contractors approved within BOA
 - Only bill for allowed equipment

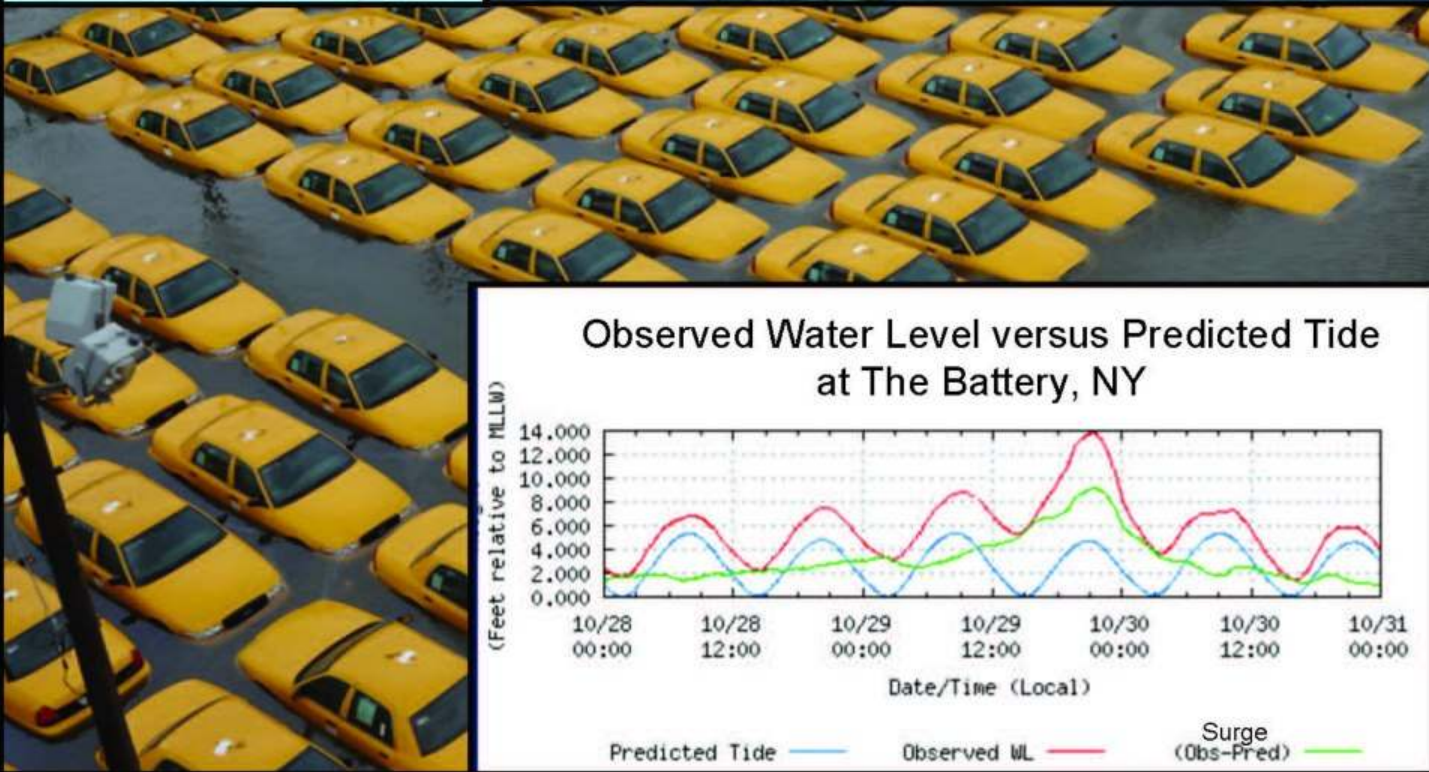
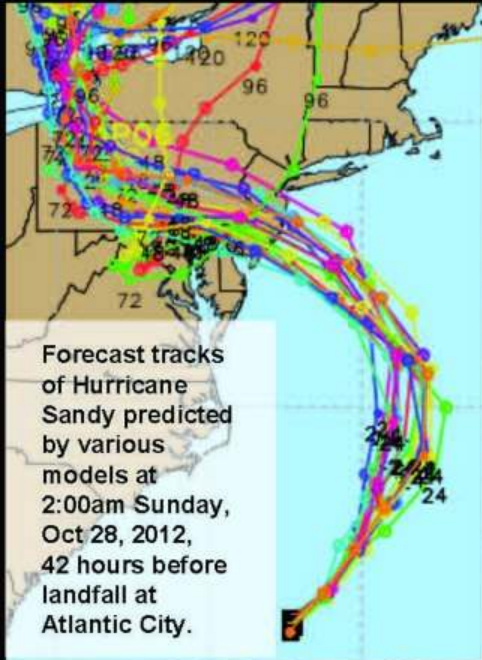
Hurricane Sandy ESF-10 Operations



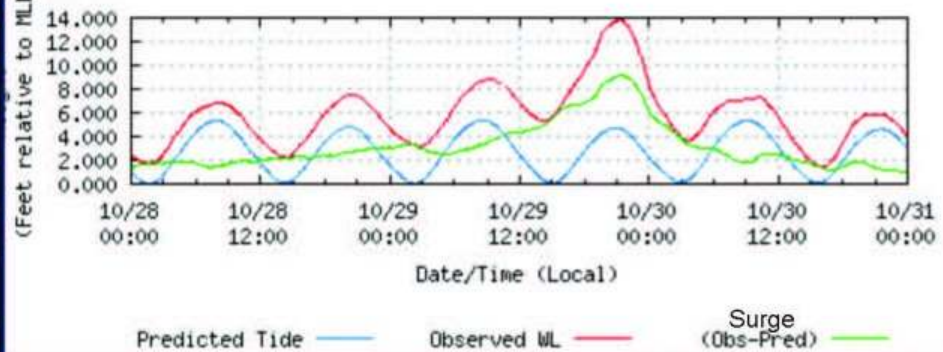
National Oceanic and Atmospheric Administration (NOAA)

- NOAA Scientific Support Coordinator
- Environmental End Points
- Determination of Priority Areas
- Environmental Sensitive Index (ESI)
- Net environmental benefit analysis (NEBA)
- Environmental Response Management Application (ERMA)

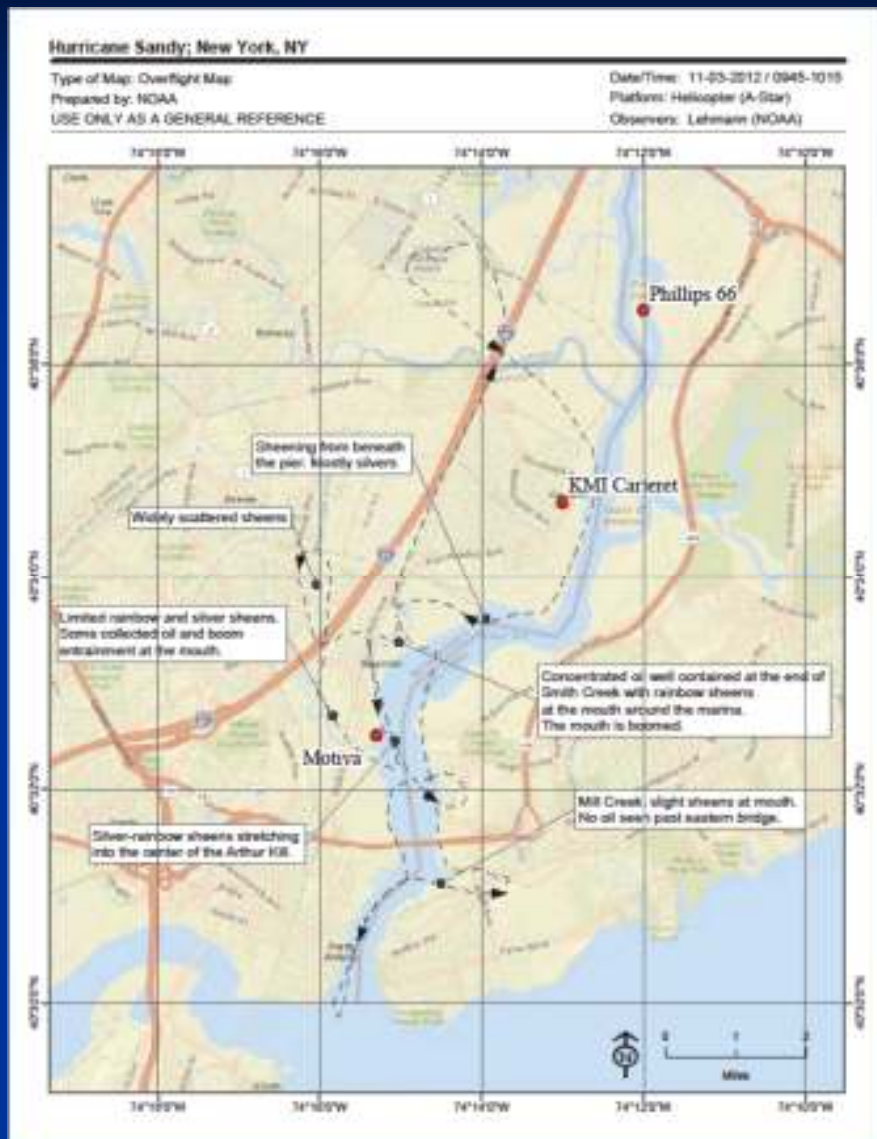
Hurricane Sandy's Storm Surge



Observed Water Level versus Predicted Tide at The Battery, NY



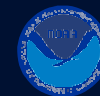
Pollution Response

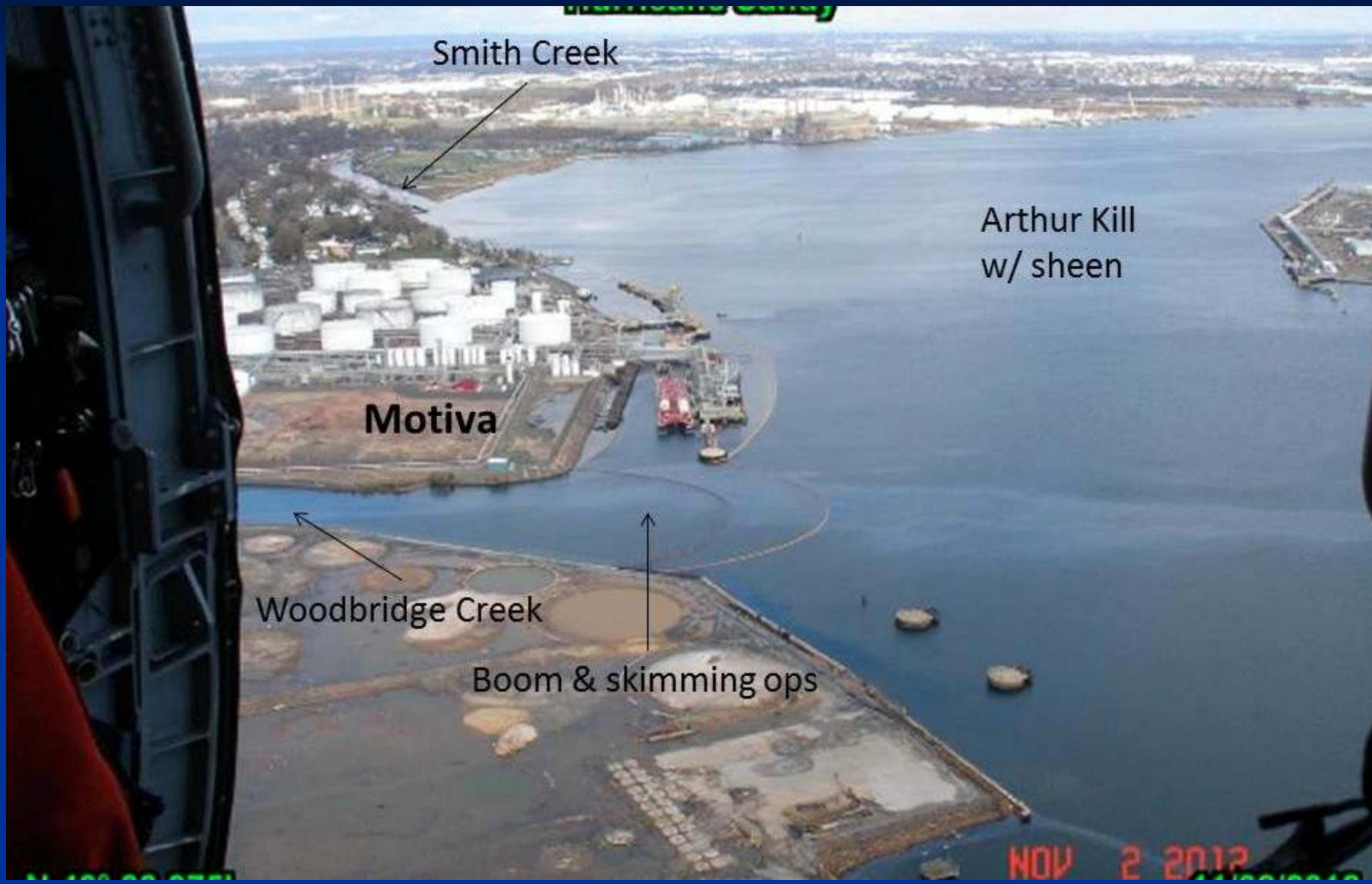


Smith Creek Collection and Removal



Overflight 03 Nov – Motiva Spill

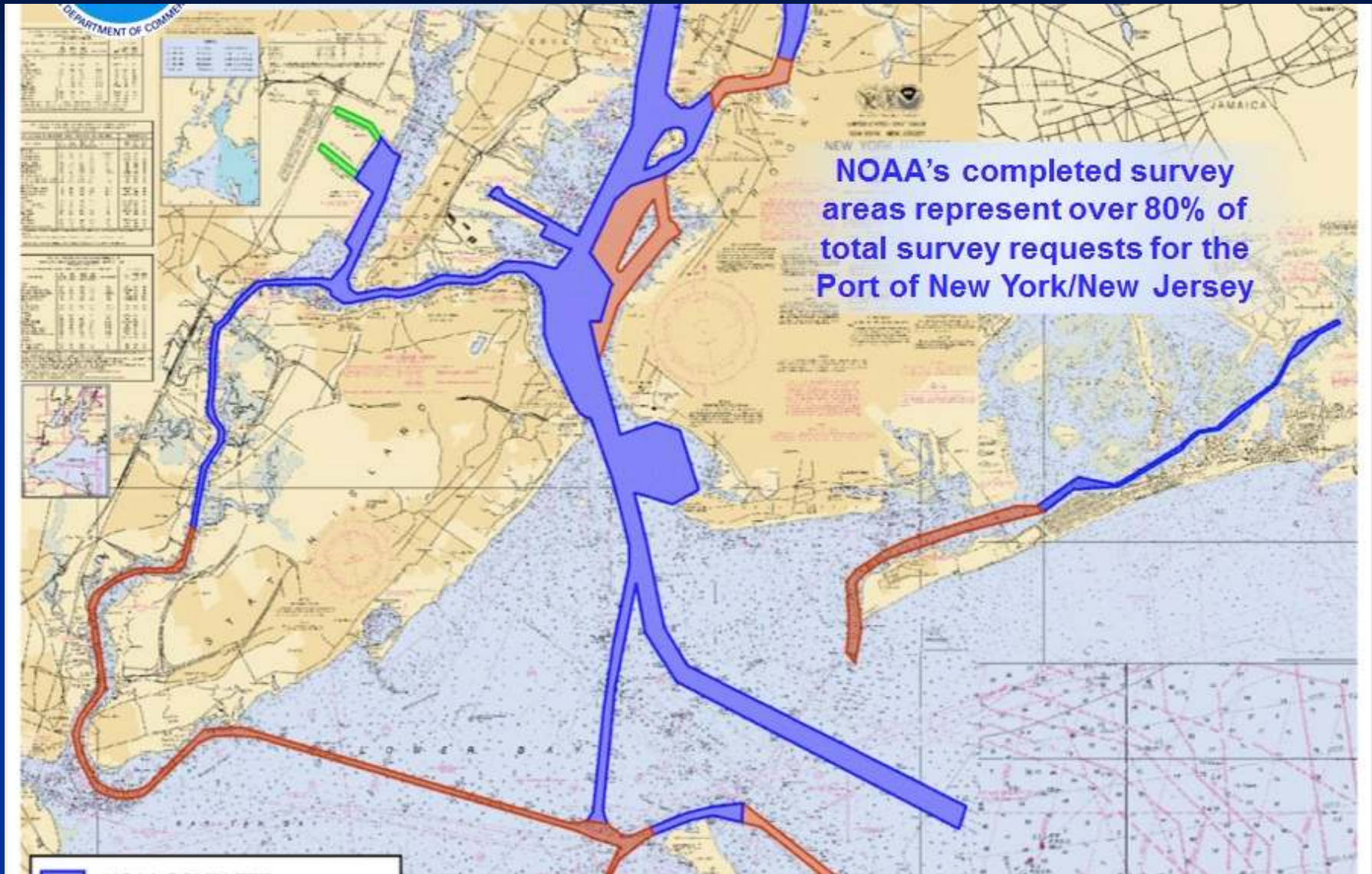




NOAA Operations Center Briefing



Navigation Response Team



NOAA Operations Center Briefing





Blue boxes are priority areas for 4-6 November

█ NGS/RSD Acquired Imagery
— Planned Flight Lines



Data collected on today's 1st flight

Hurricane Sandy Emergency Response
Mission Summary
 MissionDate: 11/04/2012 | Updated @14:00 EST
 Platform: NOAA King Air (N68RF)
█ N68RF - 11/04/2012 Flight #1




■ **Rockaway Beach, NY**
■ **Ocean Overwash/Boardwalk Destruction**



Before



Post-Storm





Overflight Photos 11-04-2012 (USCG)
Response Operations
Major Response Operations
Response Operation
Phillips 66 Response Site
Observed Oiling 11/7/12 at 1100hrs
Heavy or Dark Oiling
Medium or Dull Oiling
Sheen
Divisions 11/7/12 at 1100hrs
Divisions 11/7/12 at 1100hrs
Cemetery Oiling 11/7/12 at 1100hrs
Cemetery Oiling 11/7/12 at 1100hrs
Response Sites 11/7/12 at 1100hrs
D DIECON
W Waste Disposal
C Conoco
Ⓢ Staging
Boom Strategies 11/7/12 at 1100hrs
Hard Boom
Sorbent
Ground Survey 11-06-2012
Ground Survey 3 Photos 11-06-2012 (USCG)
Ground Survey 11-07-2012
Ground Survey 2 Photos 11-07-2012 (USCG)
Ground Survey 3 Photos 11-07-2012 (NOAA)
Ground Survey 11-08-2012

Map data ©2013 Google - Terms of Use
 ↑N Scale: 1: 14K Zoom Level: 15 Location: 40.63379°, -74.20550°

NOAA | National Ocean Service | Office of Response and Restoration

ERMA | Environmental Response Management Application
Atlantic

Information | Help | Recent Data | Admin | Upload |

Layers | Legend | Query Tools | AOI | Labels | Zoom | Download | Print | Logout

NOAA NGS Aerial Imagery

- NOAA Aerial Imagery 11/01/2012
- NOAA Aerial Imagery 11/02/2012
- NOAA Aerial Imagery 11/03/2012
- NOAA Aerial Imagery 11/04/2012
- NOAA Aerial Imagery 11/05/2012
- NOAA Aerial Imagery 11/06/2012

Response Operations

- Major Response Operations
- Response Operation

NRC Pollution Locations (as of 11-10-12 pm)

- High Priority
- Medium Priority
- Low Priority

Overflight 11-01-2012

- Overflight Path
- Overflight Photos 11-01-2012

Oil Spill Locations 2012-1101

- Oil Spill Locations 2012-1101

Harbor Assessments

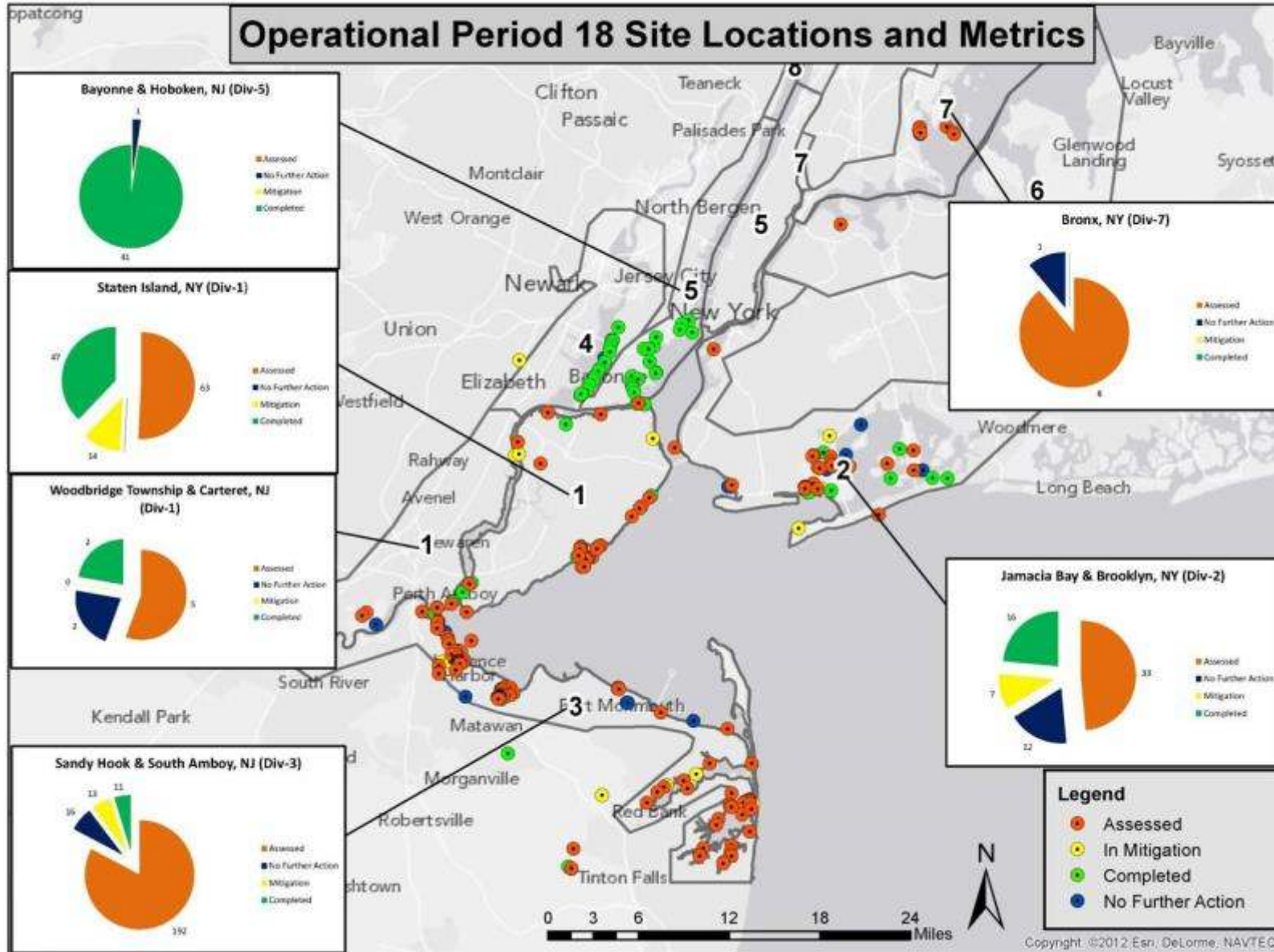
- Thomas Jefferson & Launches 3101 and 3102 Survey Locations

Scale: 1:453K | Zoom Level: 10 | Location: 41.06073° - 73.07612°

US DOC | NOAA | NOS | NOAA Office of Response & Restoration
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Coastal Response Research Center
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Hurricane Sandy Coast Guard ESF-10 Operations



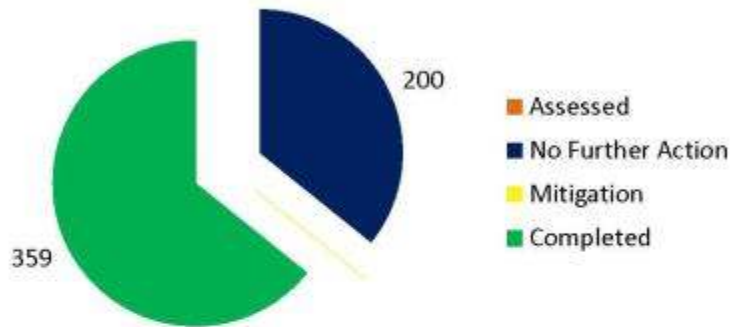
Hurricane Sandy Coast Guard ESF-10 Operations

Metrics updated 12/14/12

Total # of Identified Sites: 559

Total # of Completed Sites: 359

All Identified Sites by Status



Description of Status:

Assessed: field teams locate and identify potential pollution and debris hazards.

Mitigation: active remediation of identified hazards.

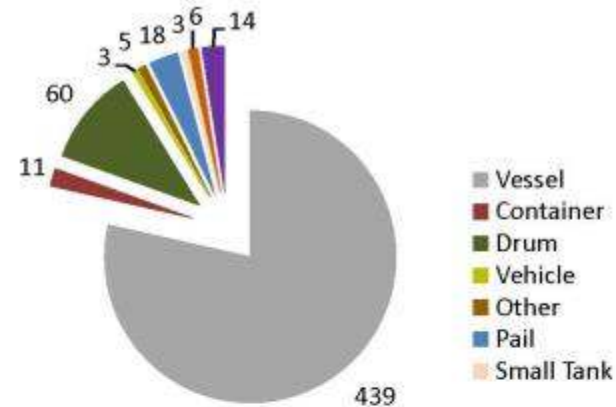
Completed: mitigation efforts are finished and site is fully remediated.

No Further Action: site was determined not to need any remediation.

Vessels Identified by Status



All Identified Sites by Type



Description of Types:

Vessels: any water craft with motor and fuel tank. Length varies from 10' to 185'.

Container: 20' or 40' intermodal freight container.

Drum: 35 to 85 gallon metal or polypropylene flat or convex-ended drums containing liquid.

Vehicle: transport vehicles with motor and fuel tank.

Other: solids including various tanks, oily debris, gas cans, etc.

Pail: 1 to 34 gallon container containing liquid.

Small Tank: 86 to 249 gallon container containing liquid.

Large Tank: 250 to 3,000 gallon container containing liquid.

Cylinder: Pressurized tank containing propane (low pressure) or gas (high pressure).