



Fire Department City of New York

GIS Support
to Superstorm Sandy



A satellite view of Hurricane Sandy, showing the distinct eye and swirling cloud patterns against the dark ocean and lighter sky.

Incident Management Team

Hurricane Sandy Objectives

Activated on 10/27/2012 - 0700 Hours



Hurricane Sandy

Storm Track 0800 hrs. 10/29/2012

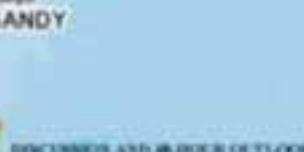


HURRICANE SANDY INTERMEDIATE ADVISORY NUMBER 28A
NATIONAL HURRICANE CENTER MIAMI FL AL100002
000 AM EDT MON OCT 29 2012

SANDY IS NOW MOVING NORTH-NORTHWESTWARD AND ACCELERATING.
EXPECTED TO BRING LIFE-THREATENING STORM SURF AND COASTAL
HURRICANE WINDS PLUS HEAVY APPALACHIAN SNOW.

SUMMARY OF 0800 EDT...0800 UTC...INFORMATION

LOCATION...24.8°N 71.4°W
ABOUT 247 MI...400 KM NE OF ATLANTIC CITY NEW JERSEY
ABOUT 141 MI...225 KM NE OF NEW YORK CITY
MAXIMUM SUSTAINED WINDS...85 MPH...140 KMH
PRESENT MOVEMENT...NNW OR 330 DEGREES AT 20 MPH...32 KMH
MINIMUM CENTRAL PRESSURE...946 MB...27.64 INCHES



DISCUSSION AND 48-HOUR OUTLOOK

AT 000 AM EDT...0800 UTC...THE CENTER OF HURRICANE SANDY WAS LOCATED
NEAR LATITUDE 24.8 NORTH, LONGITUDE 71.4 WEST. SANDY IS NOW MOVING
TOWARD THE NORTH-NORTHWEST NEAR 20 MPH...32 KMH. A TURN TOWARD THE
NORTHWEST IS EXPECTED LATER THIS MORNING, FOLLOWED BY A TURN TOWARD
THE WEST-NORTHWEST TONIGHT. ON THE FORECAST TRACK, THE CENTER OF
SANDY WILL MOVE OVER THE COAST OF THE MID-ATLANTIC STATES THIS
EVENING OR TONIGHT.

REPORTS FROM AIR FORCE HURRICANE HUNTER AIRCRAFT INDICATE THAT
THE MAXIMUM SUSTAINED WINDS REMAIN NEAR 85 MPH...140 KMH, WITH
HIGHER-GRAINS. SANDY IS EXPECTED TO TRANSITION INTO A POST-TROPICAL
OR WINTERTIME LOW PRESSURE SYSTEM PRIOR TO LANDFALL. HOWEVER, THIS
TRANSITION WILL NOT BE ACCOMPANIED BY A WEAKENING OF THE SYSTEM,
AND IN FACT, A LITTLE STRENGTHENING IS POSSIBLE DURING THIS
PROCESS. SANDY IS EXPECTED TO WEAKEN AFTER MOVING inland.

HURRICANE-FORCE WINDS EXTEND OUTWARD UP TO 175 MILES...280 KM, FROM
THE CENTER, AND TROPICAL-STORM-FORCE WINDS EXTEND OUTWARD UP TO 400
MILES...640 KM. SUSTAINED TROPICAL-STORM-FORCE WINDS ARE OCCURRING
ALONG THE COASTS OF SOUTHERN NEW JERSEY, DELAWARE, AND EASTERN
VIRGINIA, AND EXTEND AS FAR INLAND AS THE CENTRAL AND SOUTHERN
CHESAPEAKE BAY.

THE MINIMUM CENTRAL PRESSURE ESTIMATED FROM HURRICANE HUNTER
AIRCRAFT DATA IS 946 MB...27.64 INCHES.



Incident Management Team
Hurricane Sandy Objectives
Activated on 10/28/2012 – 0700 Hours



A grayscale satellite image showing Hurricane Sandy's eye and surrounding cloud formations against the dark ocean.

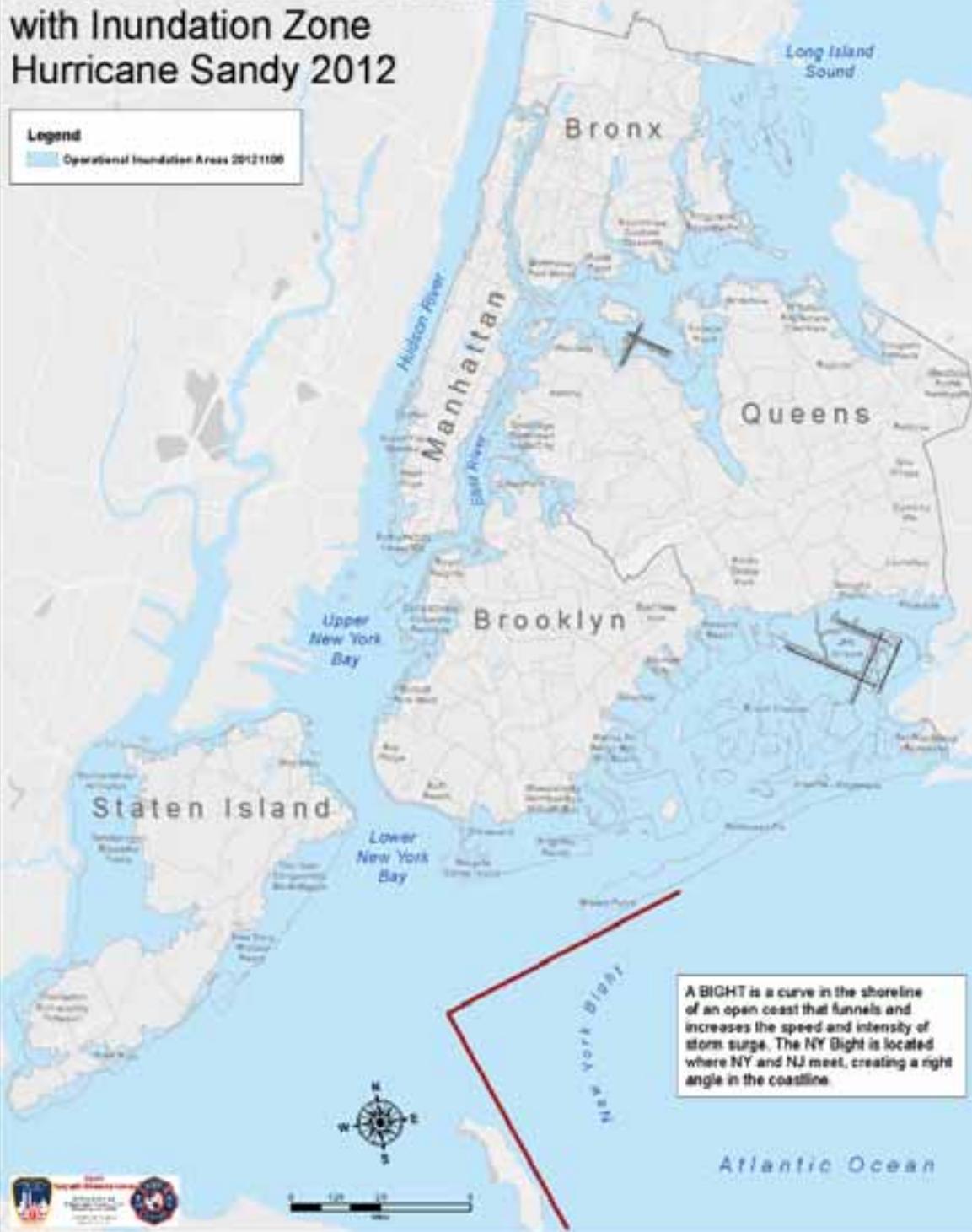
Incident Management Team
Hurricane Sandy Objectives
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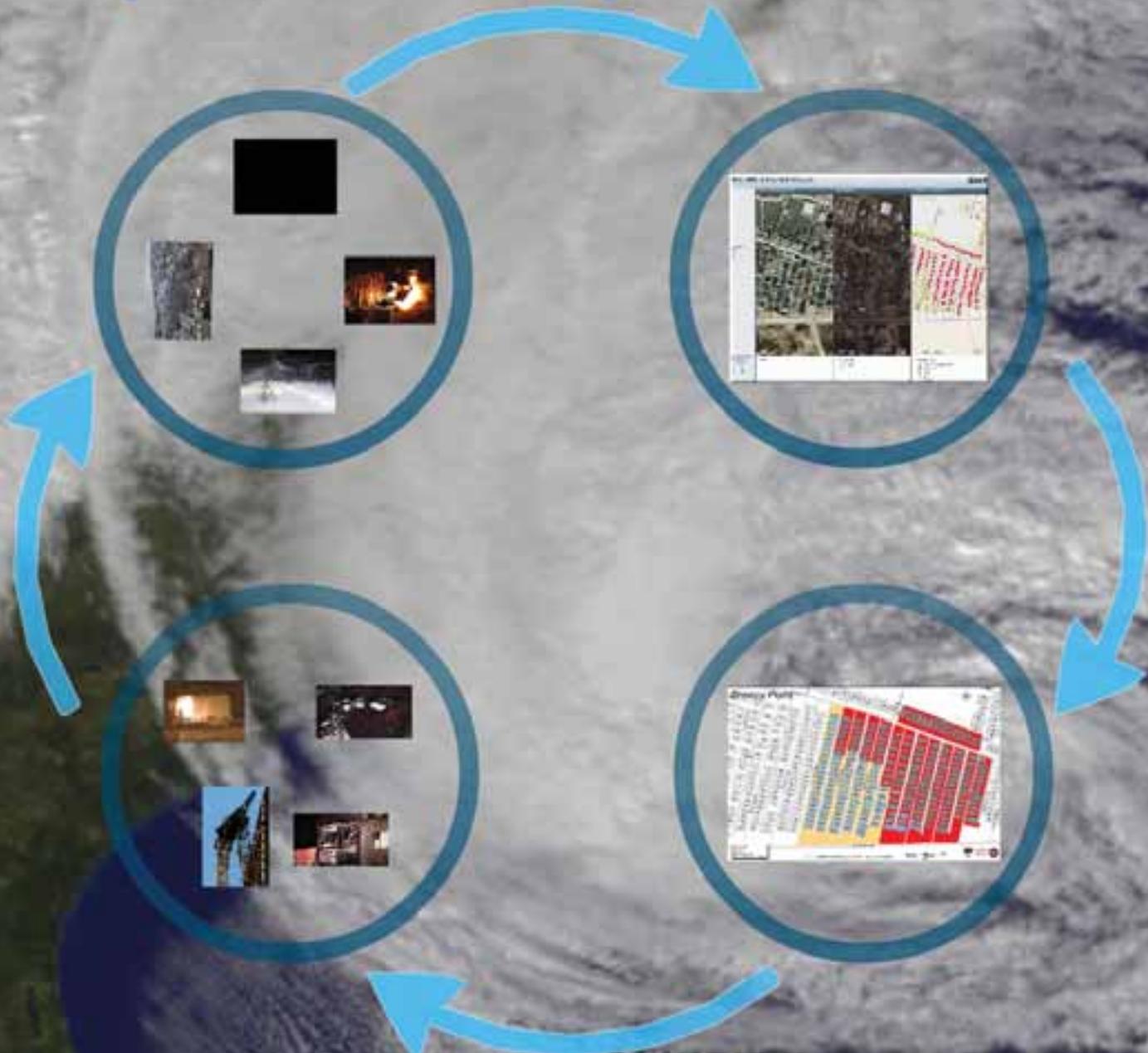
NYC Hurricane Evacuation Zones with Inundation Zone Hurricane Sandy 2012

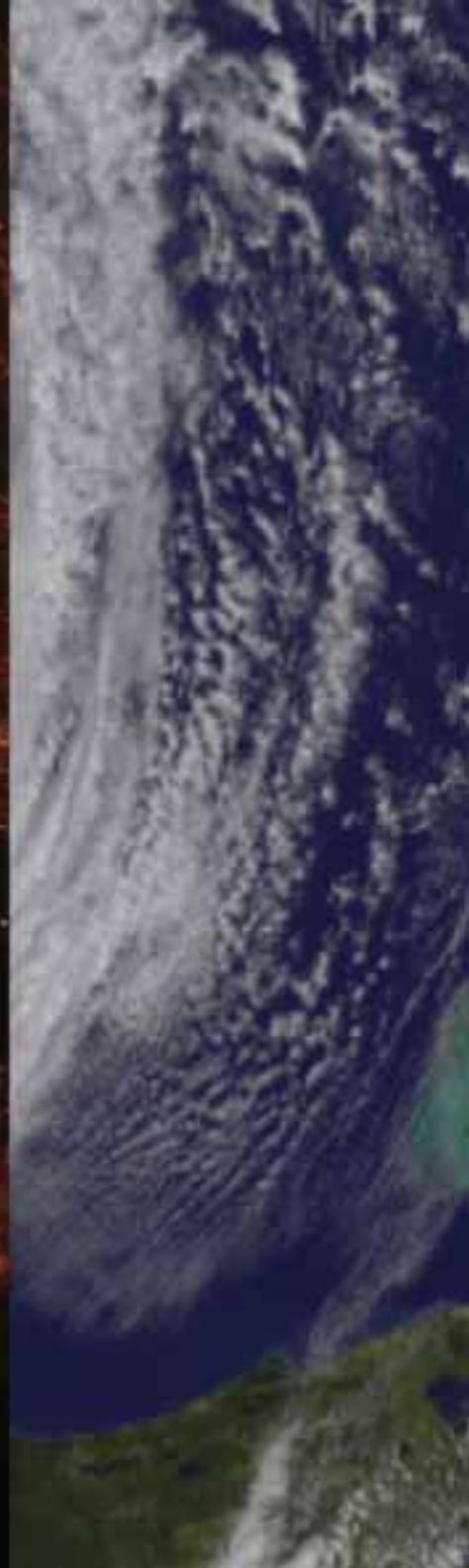
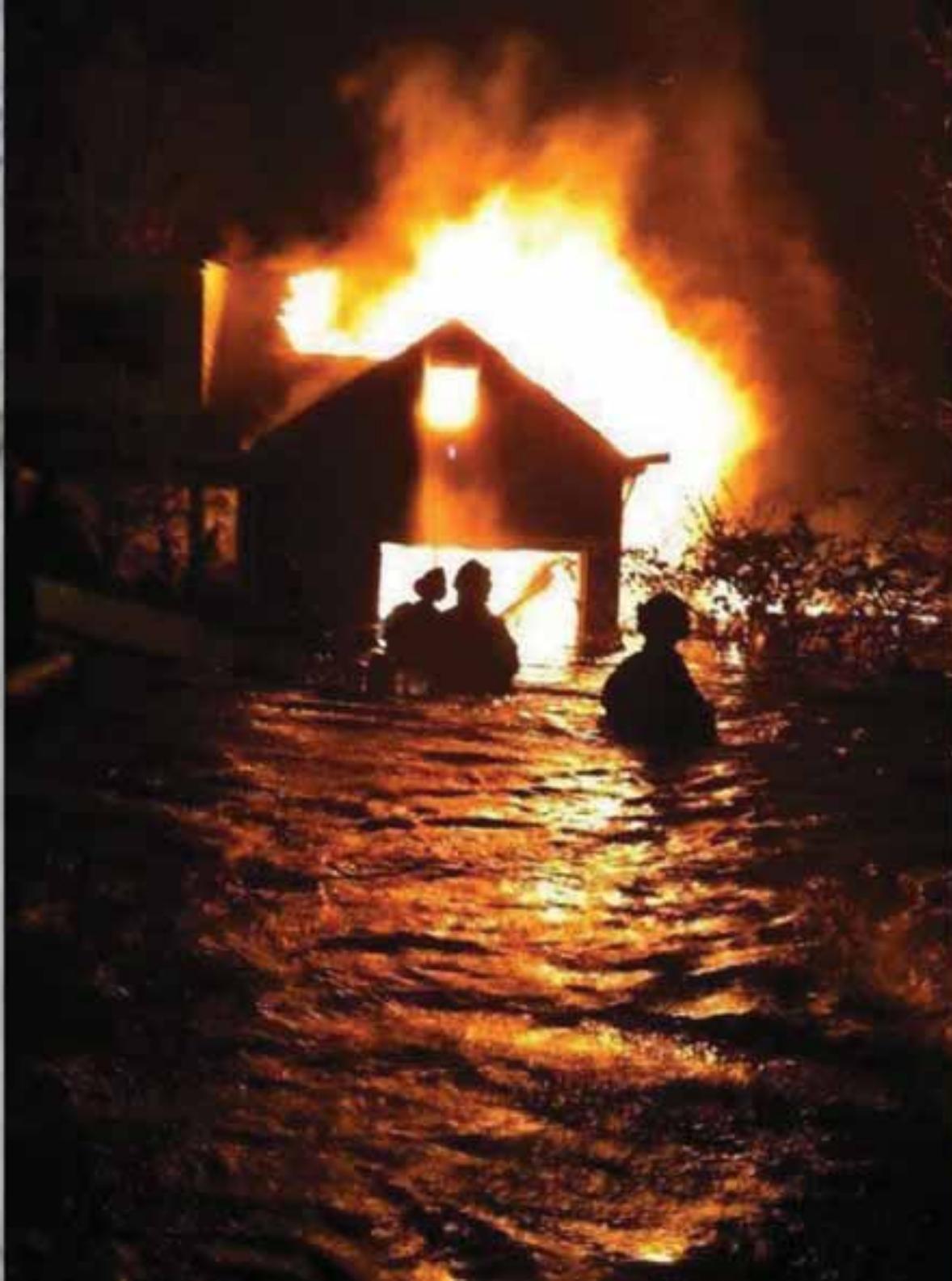
Legend

Operational Inundation Areas 20121106



Superstorm Sandy makes landfall





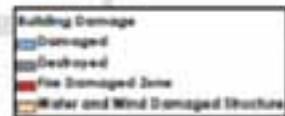
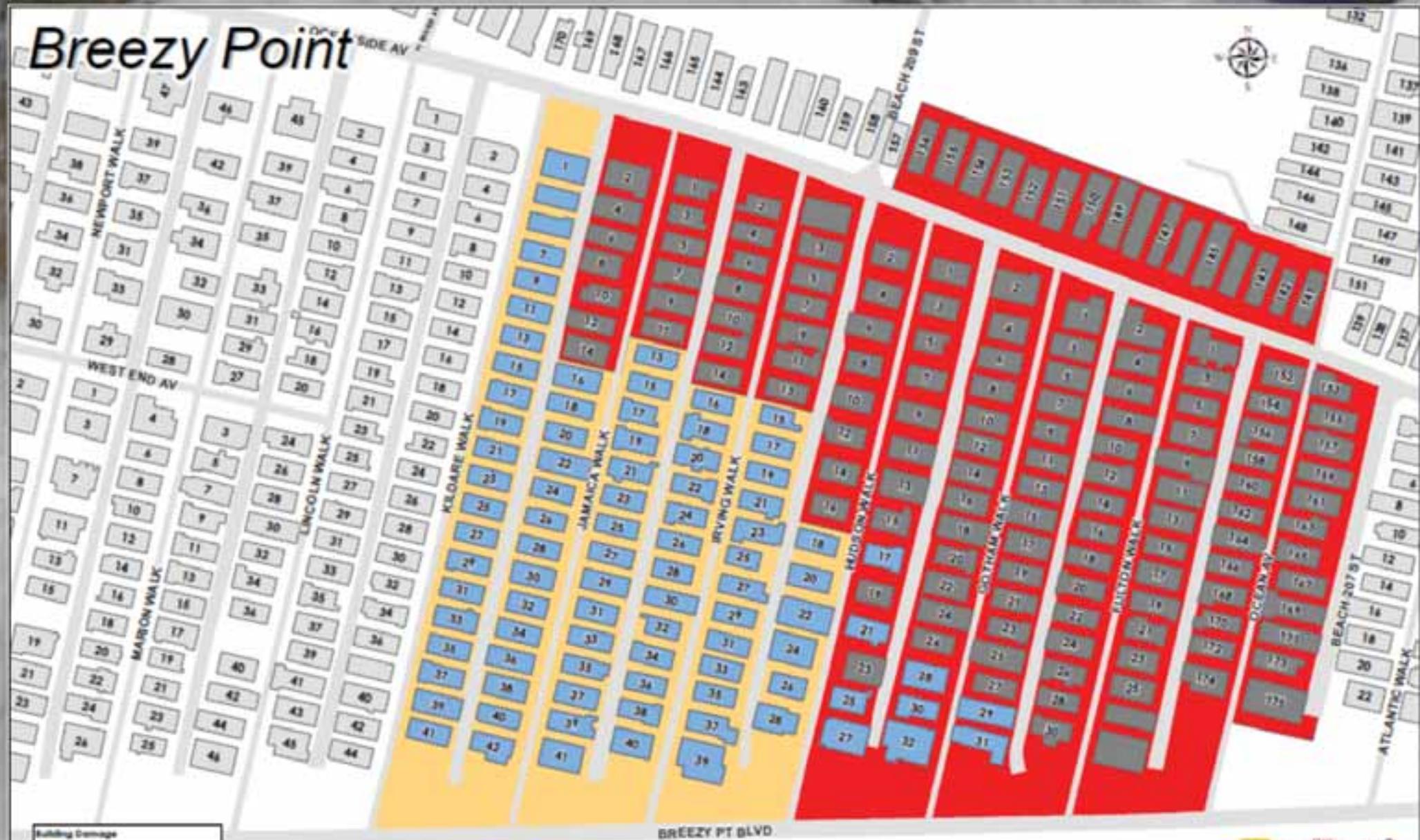




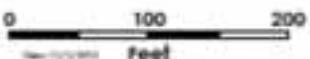
NYC FEMA Side by Side Compare



Breezy Point



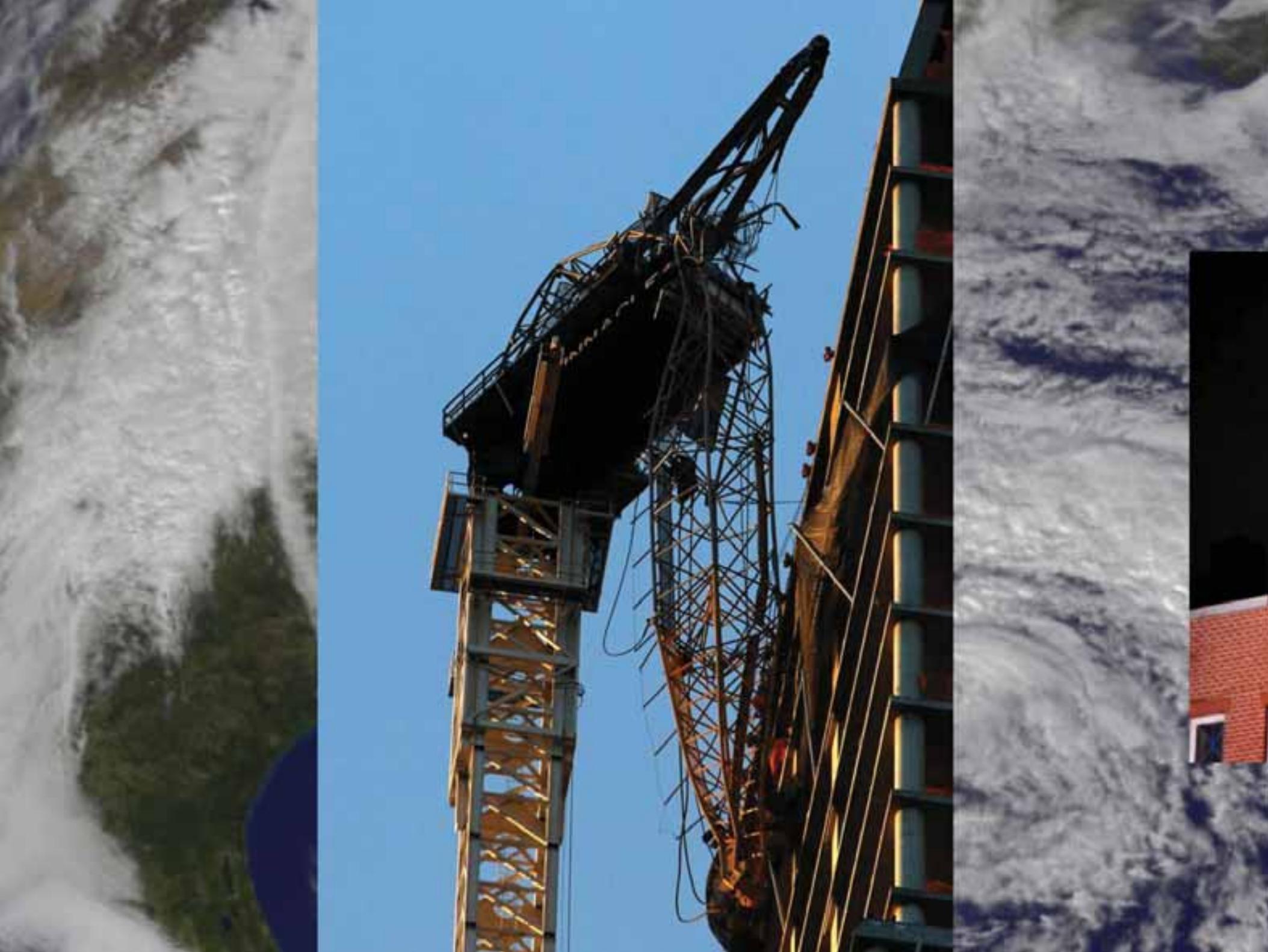
Operational Period: 11/1/12 0900 - 11/2/12 0900 Hours



STAY
IN
LANE

ONWARD
23



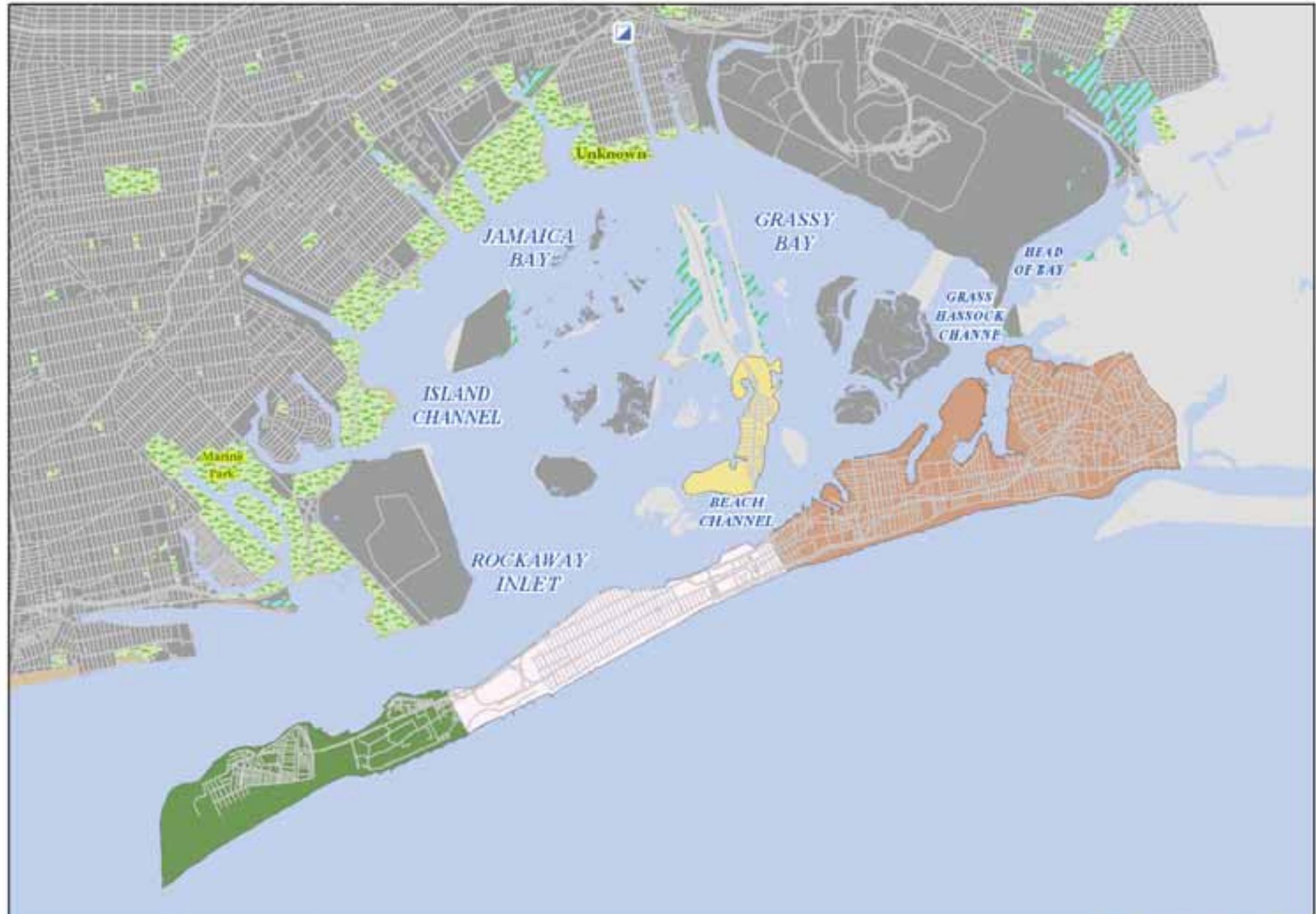






Incident Management Team Hurricane Sandy Objectives

10/30/2012



Broad Channel Branch



0 0.5 1 2 Miles

Map Created on:
10/30/12

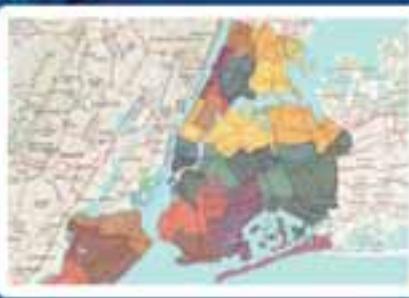


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Hurricane Sandy



FDNY Admin Units Web Mapping Application



EHS Dispatch Areas



Hazard Evaluation Zones - OEM

As first responders to fires, public safety and medical emergencies, disasters and terrorist acts, FDNY protects the lives and property of New York City residents and visitors. The Department advances public safety through its fire prevention, investigation and education programs. The timely delivery of these services enables the FDNY to make significant contributions to the safety of New York City and homeland security efforts.

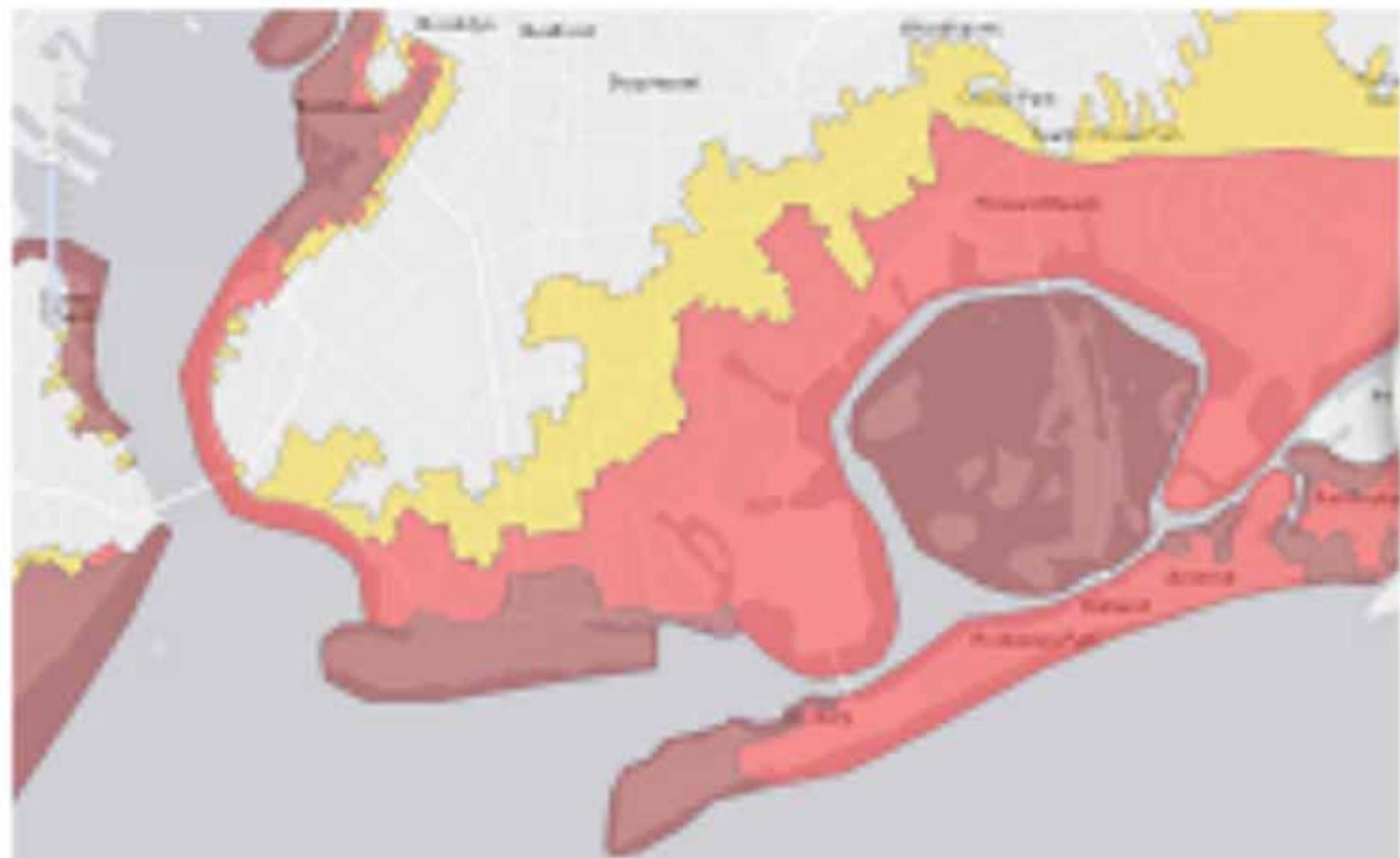
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The background image is an aerial photograph of Floyd Bennett Field in Brooklyn, New York. It shows several light-colored runways and landing strips extending from the center towards the horizon. The surrounding area is a mix of green vegetation and urban structures. A prominent curved teal banner is overlaid at the bottom of the image.

FDNY IMT Area Command
Moves to
Floyd Bennett Field



FIRE DEPARTMENT CITY OF NEW YORK

SAFETY
EDUCATION

• Provide fire safety information to the public
• Conduct fire safety inspections
• Educate the public about fire prevention



INCIDENT MANAGEMENT TEAM



PLANNING

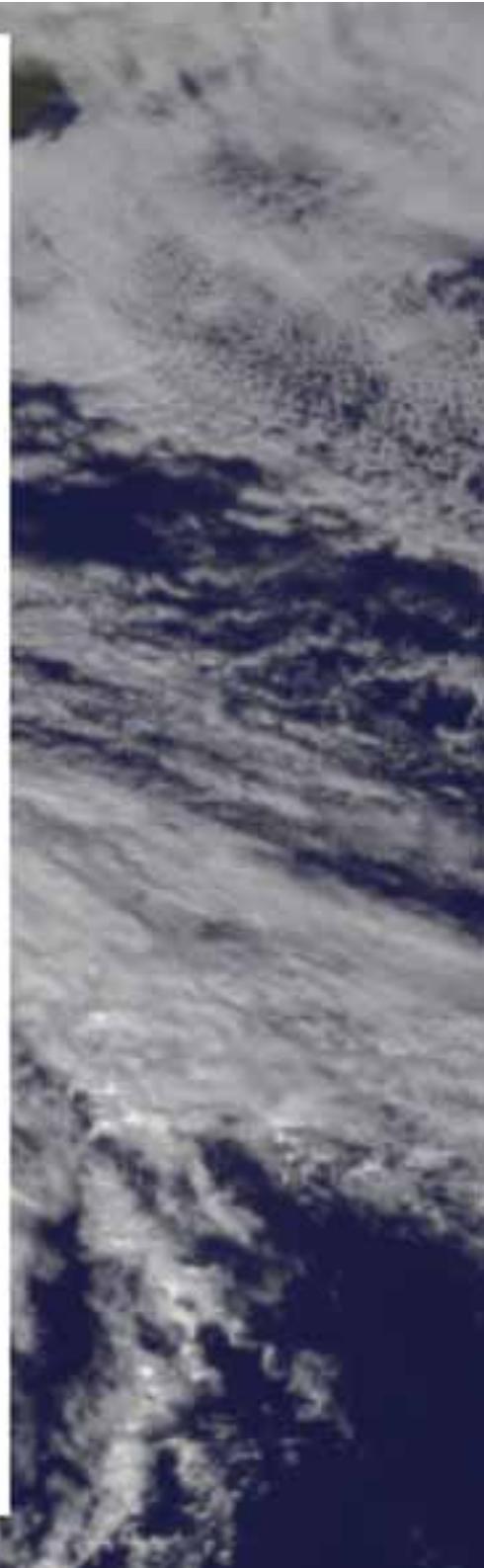
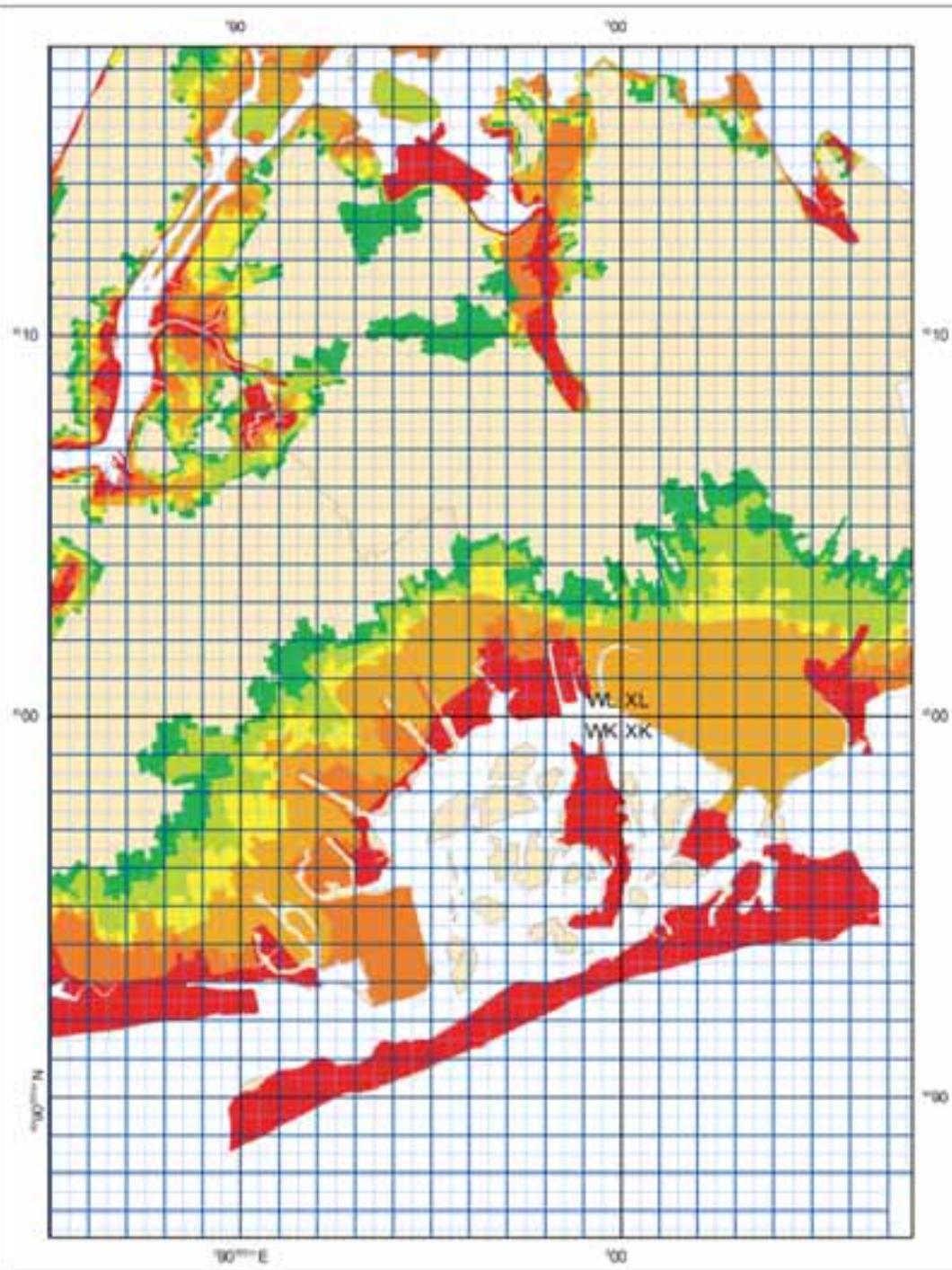












FDNY 343 - Never Forget our Brothers 9/11/01

Thank you to my staff

Questions?

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