

Rear Admiral Gerd Glang Director, Office of Coast Survey National Oceanic & Atmospheric Administration

> AAPA Winter Meeting Oxnard, CA January 15, 2013



# NOAA announces leadership changes

#### Dr. Jane Lubchenco



David Kennedy



#### Holly Bamford



# Budget uncertainties in FY13 & beyond





#### Committee on Marine Transportation System





## **NOAA** National Ocean Service

#### Positioning America for the future

- Safe, strong and efficient commerce
- Prepared and resilient communities
- Vital and productive environments



#### Safe, strong and efficient commerce

- Global positioning
- Predicted, real-time and forecast tides, currents, and other ocean observations
- Nautical charts
- Rapid maritime response after storms





#### Positioning

#### Modernizing the National Spatial Reference System









**CORS** 

Height modernization

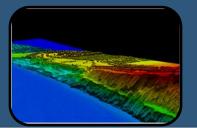
**GRAV-D** 

COASTAL

**Products and Services** 



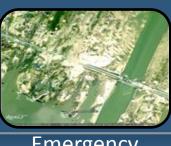
**GPS** satellite orbits



#### Shoreline mapping

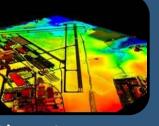


State advisor program



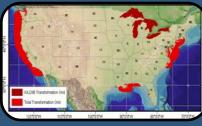
Emergency response imagery





Airport surveys

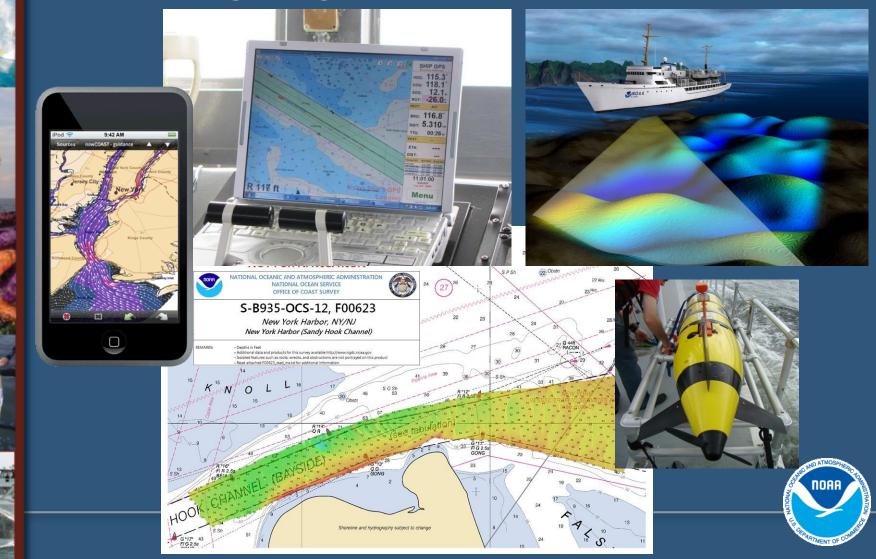
OPUS



**VDatum** 

#### Surveying and charting

#### Making navigation safer and more efficient



# Physical Oceanographic Real Time System

PORTS<sup>®</sup> measures and disseminates observations and predictions

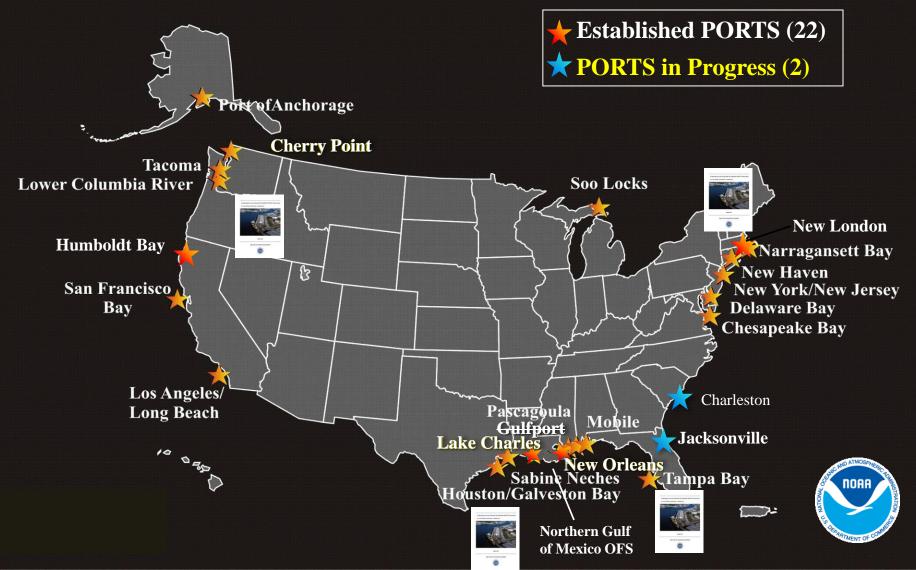
- Water levels
- Currents
- Salinity
- Air gap
- Meteorological parameters
- Visibility
- Waves







# Physical Oceanographic Real-Time System<sup>®</sup> PORTS<sup>®</sup>



## Benefits of PORTS<sup>®</sup>

#### Houston / Galveston

- 60% reduction in tugs and tows groundings
- 50% reduction in ship groundings
- Estimated \$20.1 million in annual economic benefits

Statistics based on economic studies by Hauke Kite-Powell, Woods Hole Oceanographic Institution

Estimating Economic Benefits from NOAA PORTS<sup>®</sup> Information:

A Case Study of Houston / Galveston



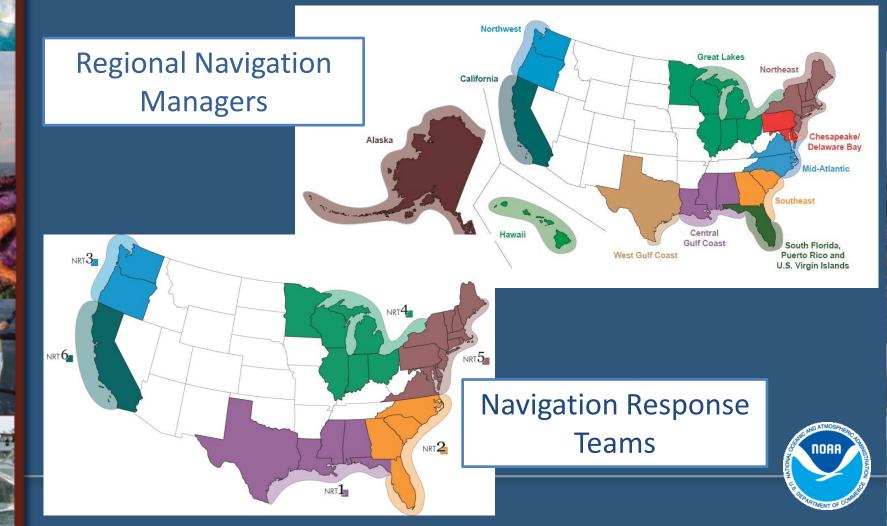
March 2007





## Regional planning and response

Hydrographic vessels survey ports and channels, searching for shoaling and submerged debris



#### Working with HSCs, AMSCs, and ICCs



SALW IN





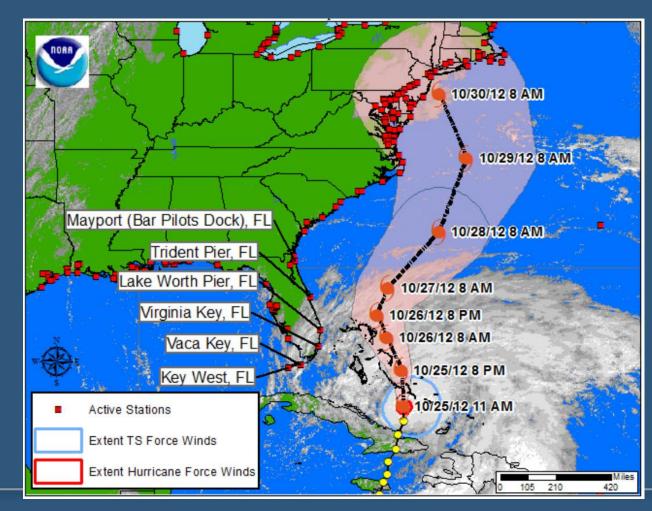
## NOAA responds to Sandy





# Storm Quicklook gives essential info

CO-OPS' storm QuickLook integrates water level info with the National Hurricane Center projected storm path.





# Navigation managers embed in ICC

NOAA teams coordinated surveys of the Port of NY/NJ. Also worked with USCG in Hampton Roads and Delaware Bay.





## NOAA deploys survey assets



#### **Response Assets** and Locations

#### homas Jefferson

NRT5

Surveying ship channels, anchorages, and berths In New York Harbor

> Potawaugh Surveying ship channels, and ferry berths/routes

#### Ferdinand Hassler Bay Hydro Surveying deep draft ship channels In Hampton Roads area

Surveying ship channels In Hampton Roads area

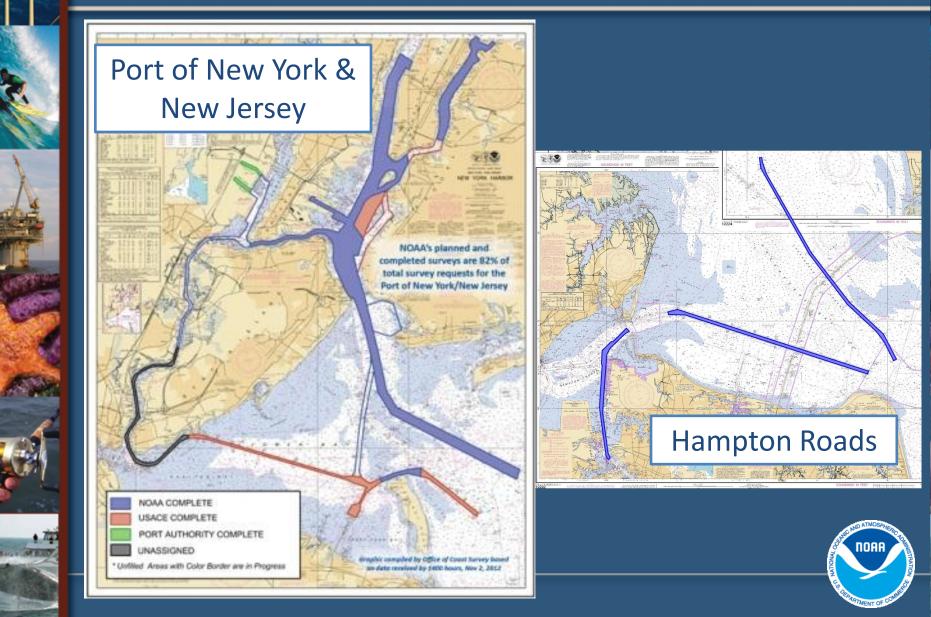
> Created by Office of Coast Survey 01 November 2012 0900 EDT

#### **Rapid Maritime Response**



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# Rapid surveys sped reopening of ports

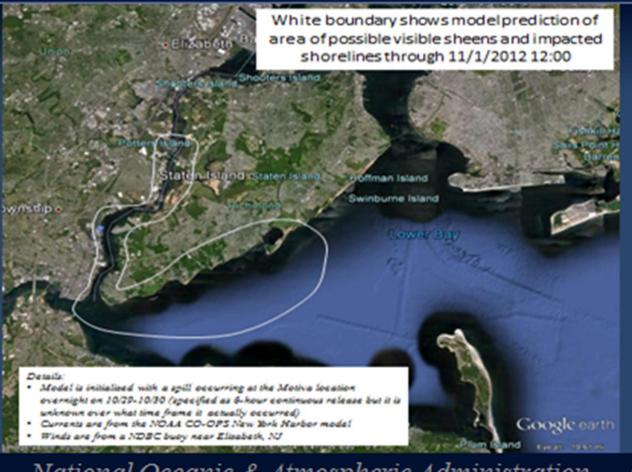


# Officials use imagery in recovery plans



"Before" and "after" shots of Sandy's destruction along the New Jersey shoreline

#### Damage Assessment: Motiva Spill





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National Oceanic & Atmospheric Administration





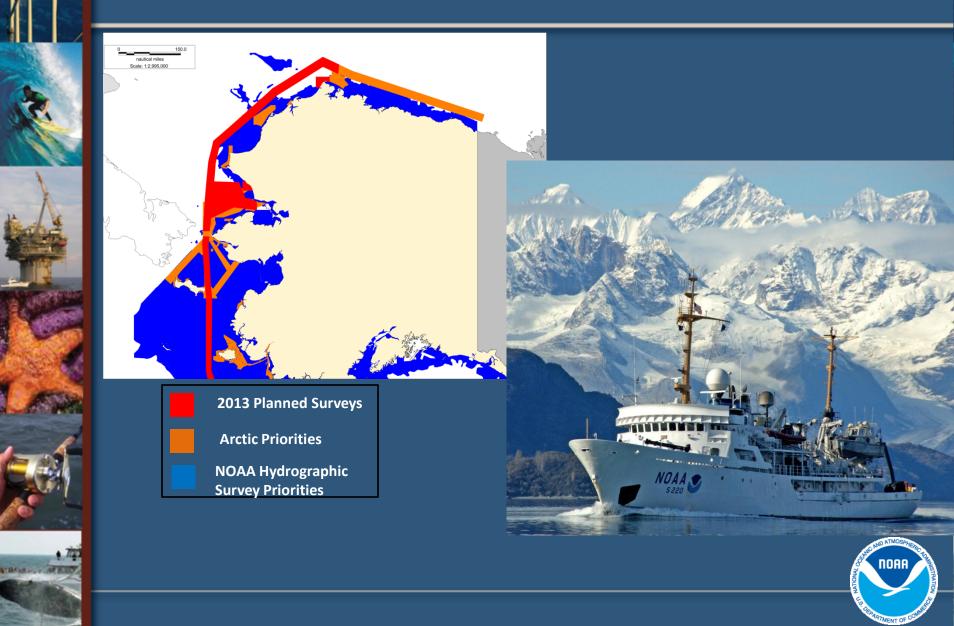


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#### NOAA & the Arctic



#### National Ocean Policy



