

TRB Spring Marine Board Meeting NOAA Update

May 24, 2018



Office of Coast Survey
National Oceanic and Atmospheric Administration

PORTS

- A new Physical Oceanographic Real-Time System (PORTS®) installation was dedicated in Miami last month
- Comprised of three offshore buoy-mounted current meters that will enhance navigation safety for the Miami seaport.



The Coastal Mapping Program

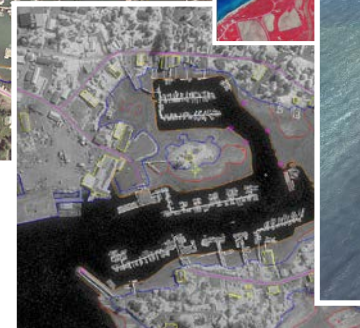
A congressional mandate to conduct remote sensing surveys of coastal regions of the United States and its possessions for demarcating the nation's legal coastline.

Goals:

- Provide the Nation With Accurate, Consistent, Up-to-Date National Shoreline
- Acquire Nearshore Elevation Data

Sources:

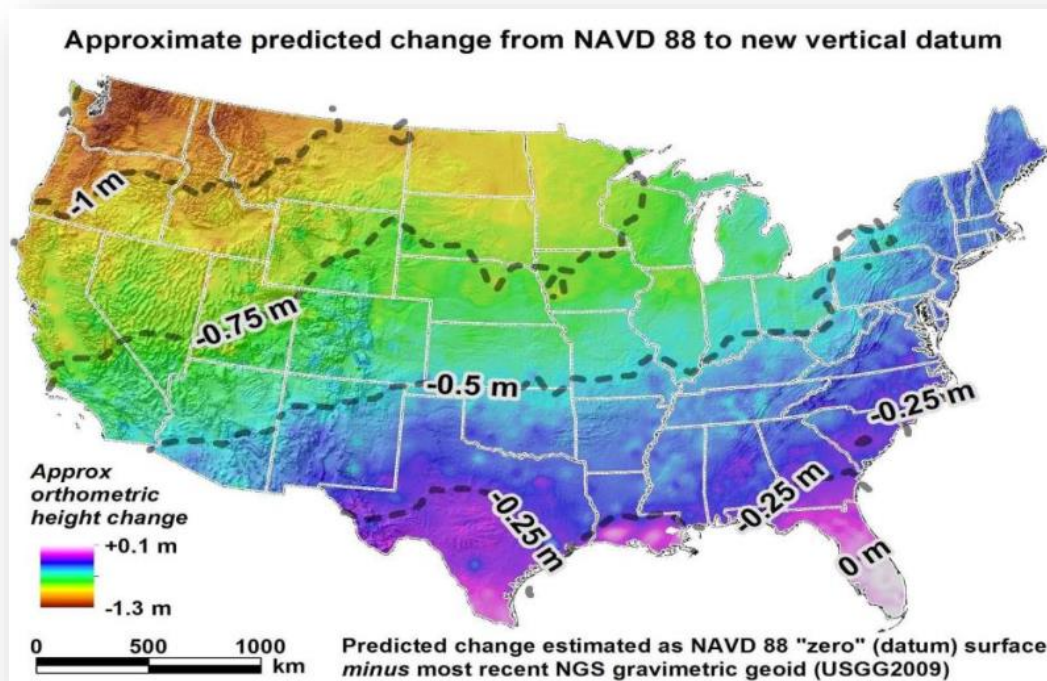
- Lidar
- Digital Cameras
- High Resolution Satellites



The Coastal Mapping Program

How will the new datums affect the US?

- The new geometric datum will change latitude, longitude, and ellipsoid height by between 1 and 2 meters.
- The new vertical (geopotential) datum will change heights on average 50 centimeters (20"), with a 1-meter (39") tilt towards the Pacific Northwest.



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Precision Navigation

The ability of a vessel to safely and efficiently navigate and operate in close proximity to the seafloor, narrow channels, and other hazards.



Precision Navigation

- Enable 24x7 Port Operations
- Increase the efficient flow of marine commerce
- Increase the safety of that maritime commerce
 - Decrease collisions
 - Decrease groundings
 - Decrease allisions (collisions with bridges/other fixed objects)
- Protect the environment from the damaging effects of marine catastrophes.
- Improve community resilience

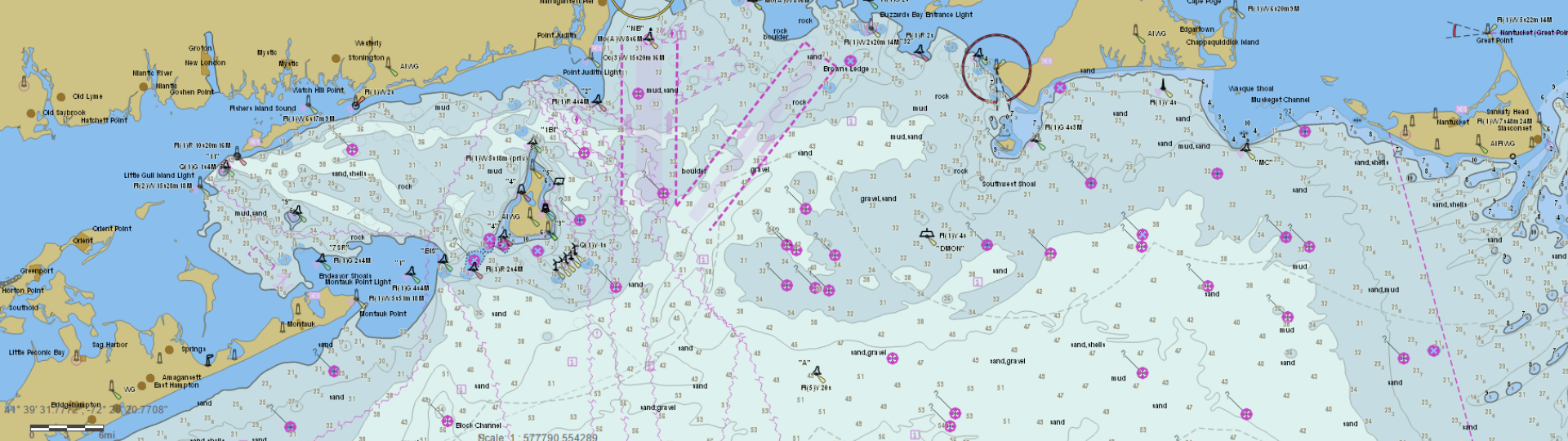




Budget Information

- \$40 million appropriated through a supplemental for mapping, charting, and geodesy services for expenses related to the consequences of Hurricanes Harvey, Irma, and Maria.
- Funded activities include, for the impacted area:
 - Hydrographic and shoreline data collection
 - Vdatum modeling
 - Chart rescheming (e.g., building larger scale charts) and updates
 - Development of coastal digital elevation models (DEMs)
- Funded operations will begin this summer (2018) and continue through 2022.





Questions?

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U.S. Committee on the
Marine Transportation System

