

Center for Operational Oceanographic Products and Service

2009 Activities



Mike Szabados, Director

“Turning operational oceanographic data into meaningful information for the Nation”

HYDROGRAPHIC SERVICES REVIEW PANEL



HSRP Most Wanted- Recommendation #1

**“Aggressively Map the Nation’s Shorelines
and Navigationally Significant Waters.”**

HYDROGRAPHIC SERVICES REVIEW PANEL



noaa

HSRP Most Wanted- Recommendation #1

“Aggressively Map the Nation’s Shorelines and Navigationally Significant Waters.”

NWLON Expands to 210 Stations in FY2009

5 New Stations:

- Pascagoula, MS
- East Bank, LA
- Tesoro Marine Terminal, LA
- Port Moller, AK
- Village Cove, AK

NWLON and Sentinel Stations
National Ocean Service, NOAA – October 2008



HSRP Most Wanted- Recommendation #2

“Integrate Coastal Mapping Efforts and Ensure Federally Maintained Channels, Approaches, and Anchorages Are Surveyed to the Highest Standard.”



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“Integrate Coastal Mapping Efforts and Ensure Federally Maintained Channels, Approaches, and Anchorages Are Surveyed to the Highest Standard.”

Collaboration with the US Army Corps of Engineers

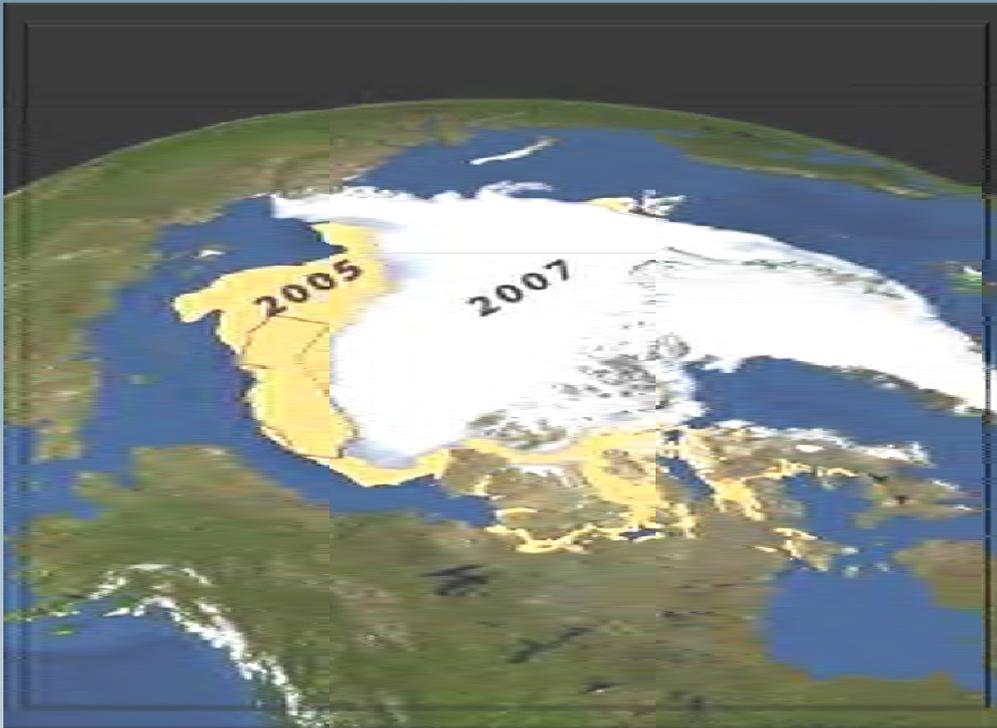
- Vertical Control Project Development Team: working with USACE to assist in meeting NGS and CO-OPS vertical geodetic and tidal datum standards for all USACE projects Nation wide
- Interim Guidance for Incorporating Sea-Level Change for all USACE projects
- Vulnerability of Corps of Engineers Coastal Projects to Sea-Level Rise



Spray disposal of dredged material
(photograph courtesy of Bob Blama, CENAB, USACE)

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CMTS Study of Federal Infrastructure to Support Safe Navigation in the Arctic



HSRP Most Wanted- Recommendation #3

**“Modernize Heights and Implement
Real-time Water Level and Current
Observing Systems in All Major
Commercial Ports.”**



“Modernize Heights and Implement Real-time Water Level and Current Observing Systems in All Major Commercial Ports.”

Updating Tidal Current Predictions

FY09

- Florida
 - Ft Pierce (6)
 - Palm Beach (4)
 - Port Everglades (5)
 - Miami (1)
- Buzzards Bay/
Cape Cod Canal (15)
- Kodiak, AK (42)

FY10

- Long Island Sound (30)
- Dutch Harbor, AK (Unimak, Akutan) (25)
- Tacoma Narrows and Admiralty Inlet, WA (15)
- Johns Pass, FL (2)



HSRP Most Wanted- Recommendation #3

“Modernize Heights and Implement Real-time Water Level and Current Observing Systems in All Major Commercial Ports.”

Physical Oceanographic Real-Time System[®]

PORTS[®]



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“Modernize Heights and Implement Real-time Water Level and Current Observing Systems in All Major Commercial Ports.”

FY09 PORTS[®] O&M Funding

- 2.5 Million above Presidents request identified for PORTS[®] O&M
 - Supporting O&M contracts at 15 PORTS[®]
 - 950K technology upgrades and recapitalization of spare parts



HYDROGRAPHIC SERVICES REVIEW PANEL



“Modernize Heights and Implement Real-time Water Level and Current Observing Systems in All Major Commercial Ports.”

Integrating New Technologies in 2009

Microwave/Water Level Sensors

- Miros
- Sutron
- Design Analysis
- Ohmart/VEGA

Visibility Sensors

- Visibility sensor for PORTS® selected
- Operational integration FY09

Air Gap

- Laser sensors enhance quality control

Waves

- Partnership with USACE and SCRIPPS to integrate wave buoy data into PORTS®



HSRP Most Wanted- Recommendation #4

**“Strengthen NOAA’s Navigation
Services Emergency Response and
Recovery Capabilities.”**



HSRP Most Wanted- Recommendation #4

“Strengthen NOAA’s Navigation Services Emergency Response and Recovery Capabilities.”

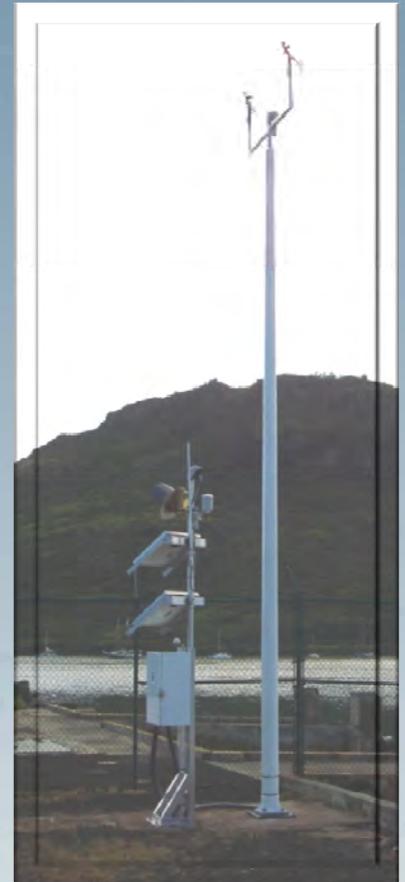
Preparing for Extreme Events

Sea Level Stations Strengthened at:

- Lake Charles, LA
- Freshwater Bayou Locks, LA
- Mayport
- Fort Myers
- Cedar Kay
- Apalachicola
- Panama City Beach
- Key Colony, FL

Meteorological Station Upgrades:

- 30 Upgrades planned



HYDROGRAPHIC SERVICES REVIEW PANEL



HSRP Most Wanted- Recommendation #5

“Disseminate NOAA’s Hydrographic Services Data and Products to Achieve Greatest Public Benefit.”

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HSRP Most Wanted- Recommendation #5

“Disseminate NOAA’s Hydrographic Services Data and Products to Achieve Greatest Public Benefit.”



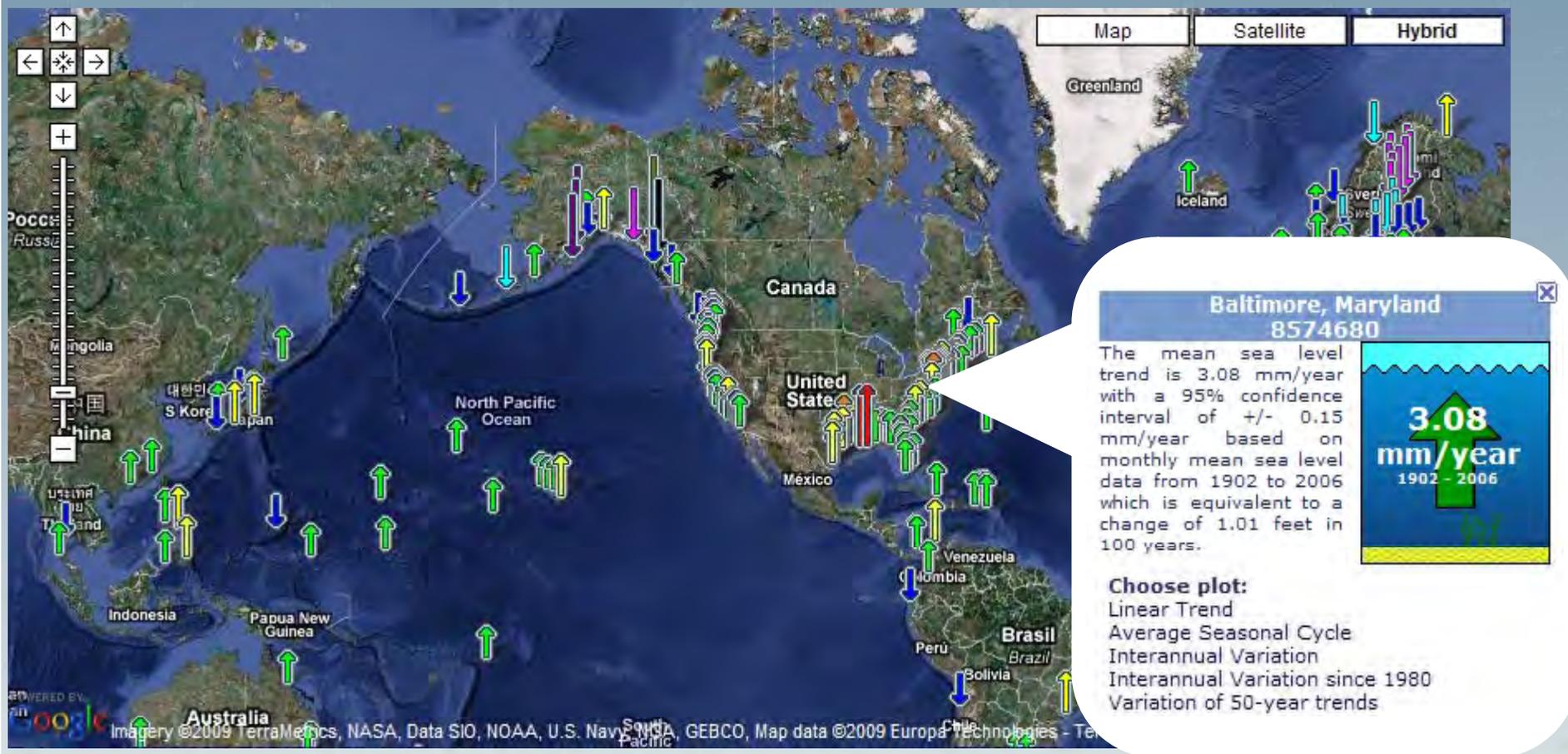
Web-Based Tools for Coastal Managers

- Frequency and Duration of Inundation



“Disseminate NOAA’s Hydrographic Services Data and Products to Achieve Greatest Public Benefit.”

Enhanced *Sea Levels Online* Web Product



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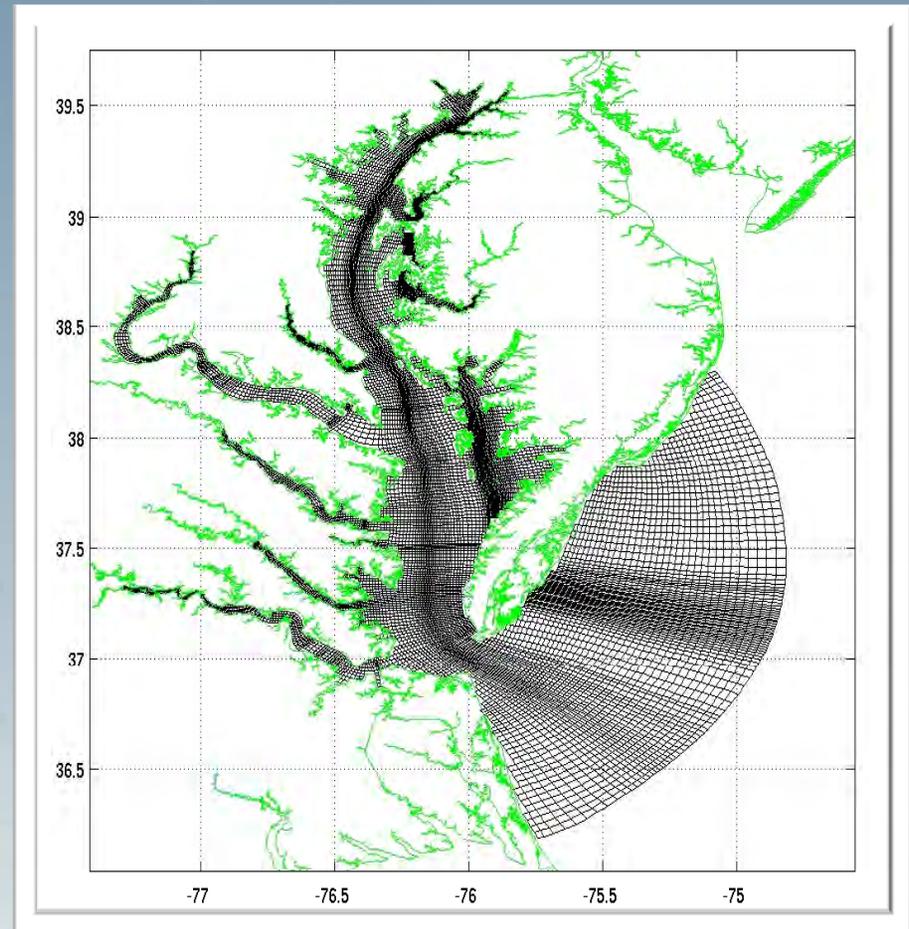
New & Improved Operational Coastal Models

New & Improved Models at:

- Chesapeake Bay
- Delaware Bay
- Tampa Bay

Enhancements:

- 3-D and high resolution
- Output: tides, currents, temperature & salinity



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Enhanced Outreach Efforts



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