

NOAA Navigation Services FY09 Update

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National Oceanic and Atmospheric Administration

***Hydrographic Services Review Panel
September 23, 2009***



OCS News

- FY09 Performance Metrics:
 - Acquired 2750 SNM of hydrographic data between NOAA and contractors (+ARRA)
 - Expanded VDatum to New Orleans and Pacific Northwest
 - Added 56 ENC's to chart suite, for total of 700 (goal is parity with 1000-paper chart suite)





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NOAA NOW

- [» NOAA: Warmest July on Record for Ocean Surface Temperature](#)
 The planet's ocean surface temperature was the warmest on record for July, breaking the previous high mark established in 1998 according to NOAA's National Climatic Data Center in Asheville, N.C.
- [» NOAA Joins Other U.S. Agencies and Canada to Survey the Arctic Continental Shelf](#)
 NOAA will join a multi-agency joint expedition to collect and share data useful to both countries in defining the full extent of the Arctic continental shelf.
- [» NOAA Lowers Hurricane Season Outlook, Cautions Public Not to Let Down Guard](#)
 According to its August Atlantic hurricane season outlook, NOAA now expects a near-to below-normal Atlantic hurricane season, as the calming effects of El Niño continue to develop. But scientists say the season's quiet start does not guarantee quiet times ahead.

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- [» NOAA Report Finds Flower Garden Banks National Marine Sanctuary Among the Healthiest Coral Reefs in Gulf of Mexico](#)
- [» NOAA and Oregon State University Map Oregon's Seafloor](#)
- [» 'Hydropalooza' Provides Deeper Understanding of Alaska's Kachemak Bay](#)
- [» Study: Better Observations, Analyses Detecting Short-Lived Tropical Systems](#)
- [» NOAA: July Temperature Below-Average for the U.S.](#)

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FEATURES

NOAA Education Science Resources for Students and Teachers	AskNOAA Are weather patterns variable from one El Niño to the next and what can be expected this year in the United States?
NOAA Corps The New Corps of Discovery [see video]	

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HSRP Most Wanted Recommendation #1
**Aggressively Map the Nation's Shorelines and
Navigationally Significant Waters**

ARRA \$40M Stimulus Funding

- **Allocated between OCS, CO-OPS, NGS, and NOAA Nat'l Geophysical Data Center**
- **Essentially all funds out the door as of August 23**
- **Buys roughly 1700 SNM of data on top of planned 2009**
- **Successful press event with Commerce Department Secretary Gary Locke in Norfolk, VA**
 - Hydrographic surveys (8 areas, 8 contractors) -- \$32M
 - Water Levels -- \$2.5M
 - Shoreline -- \$2M
 - Charts -- \$2M
 - Data Archiving -- \$.5M
 - VDatum -- \$1M



More OCS News

- **Hassler SWATH – nearing the finish line**
 - 9/19 lift
 - Delivery expected June 2010



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- **Port Security Surveys**
 - **CMTS Implementation Plan priority**
 - **May 2009 Mine Warfare Conference, Panama City, FL**
 - **Continue to work with Navy on requirements definition**
 - **Continue to support Navy on as-able basis with surveys**
 - **TJ -- Approaches to New York**
 - **NRT -- Mayport, FL**
 - **NOAA has capability, lacks capacity**



HSRP Most Wanted Recommendation #2

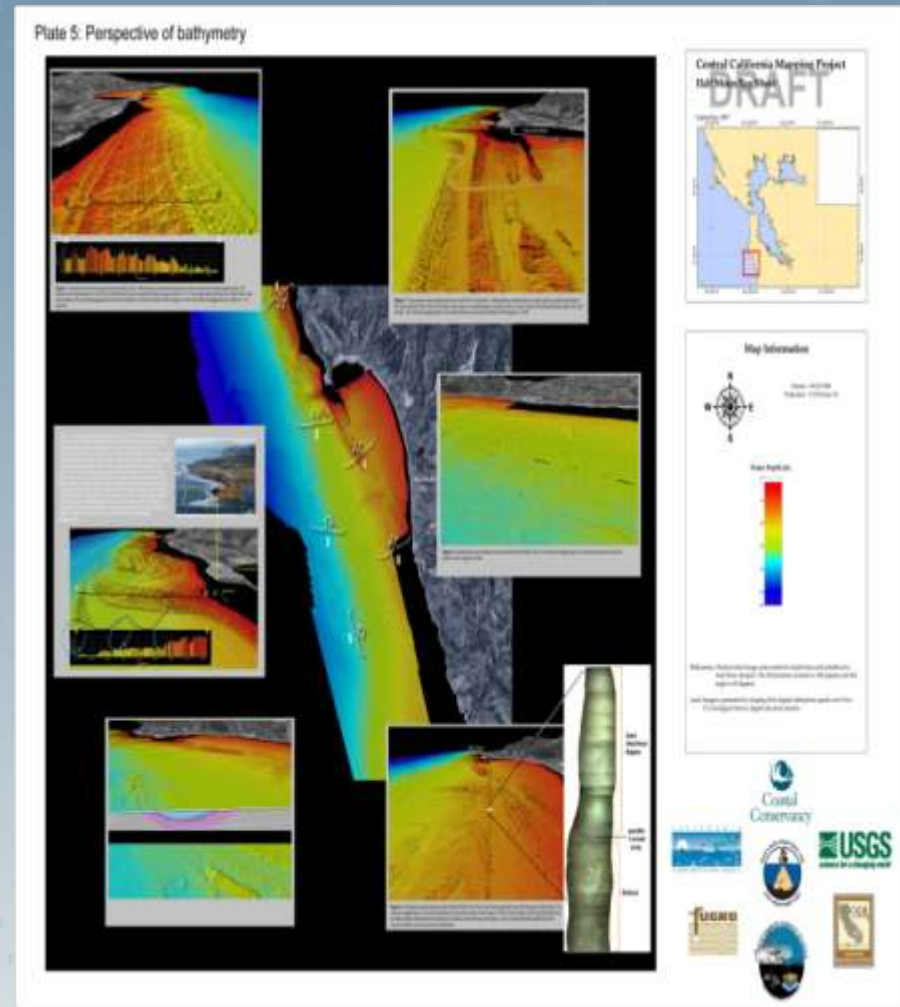
Integrate Coastal Mapping Efforts and Ensure Federally Maintained Channels, Approaches and Anchorages are Surveyed to the Highest Standard

- ◆ **California Seafloor Mapping Project**
- ◆ **Oregon Partnership**



California Seafloor Mapping Project

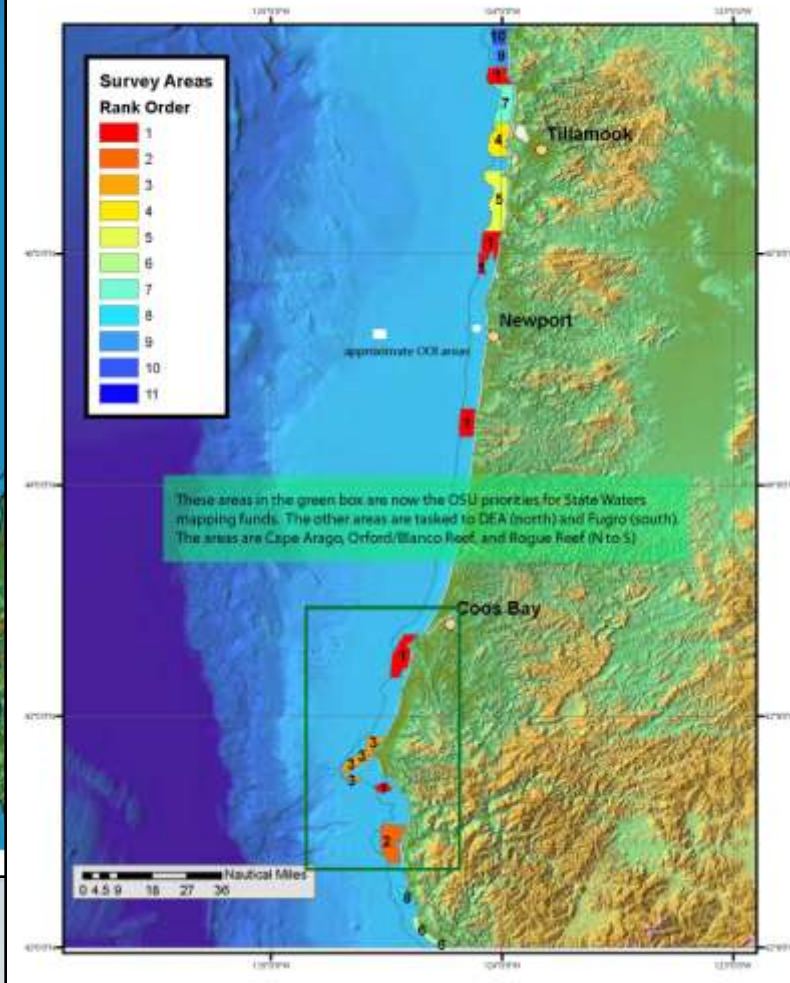
- ◆ Very successful coastal mapping partnership with the California State Coastal Conservancy, other state agencies and the U.S. Geological Survey
- ◆ This Integrated Ocean and Coastal Mapping effort collecting approximately 7,550 square kilometers of high-resolution bathymetry and acoustic backscatter data along California's coast to meet a diverse range of needs



Scientific Consensus Statement for Mapping the Oregon Territorial Seafloor

For Oregon, as for most coastal states, the sea represents both a valuable resource and an initiative to map the seafloor of our coastal territorial sea. The costs are

Territorial Sea Survey Priorities, June 2009 Update



Oregon State University – NOAA Seafloor Mapping Partnership

“These projects help Oregon prepare for future challenges. With the data collected from these surveys, we can model tsunamis, identify marine habitats, select alternative energy sites, identify geological hazards, and enhance safe and efficient marine transportation.”

Ted Kulongoski
Oregon Governor

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- **Vdatum Next Steps**

- 2010 – NC to FL, Texas Coast
- 2011 – MA to ME, Puerto Rico/Virgin Islands
- Contiguous U.S. done in 2011
- Priorities being determined for AK – gravity flights are key
- Geoid issues for Hawaii remain to be resolved; analysis of Pacific Islands not yet undertaken
- Maintenance procedures to be developed

HSRP Most Wanted Recommendation #4

Strengthen NOAA's Navigation Services Emergency Response and Recovery Capabilities

NOAA's and Contract Survey Teams Respond Quickly to Keep Marine Transportation Moving Safely

- Locating the wreck of the 71-foot fishing vessel LADY MARY which sank 74 miles from the entrance of the Delaware River, tragically losing four crew members
- Supporting the search for the missing engine of U.S. Airways Flight 1549 after its emergency landing in Hudson River
- Locating the submerged oil rig ENSCO, which was toppled by Hurricane Ike near Galveston, TX, posing a real threat to oil tanker lightering operations



HSRP Most Wanted Recommendation #5

Disseminate NOAA's Hydrographic Services Data and Products to Achieve Greatest Public Benefit

- **Electronic Navigational Charts**
 - **Next Generation Nautical Charting System**
 - Formal acceptance in 2009
 - One system for all formats of charts, from paper and raster to ENC's
 - 5 years in development, now entering transition to production
 - **International Maritime Organization Mandate for ECDIS 2012**
 - ECDIS by definition requires official ENC's
 - NOAA on track to provide ENC coverage by 2012

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– International Hydrographic Organization

- **Ratification of Treaty**
 - June 2009 in Monaco
 - Approves changes to IHO structure to better align with UN Operating Principles
- **S100**
 - IHO Geospatial Standard for Hydrographic data
 - Addresses shortcomings of S57
 - S57 not obsolete



Mapping and Charting Budget (\$000)

Description9999	2009 Enacted (K)	2010 President's Request (K)	2010 House (K)	2010 Senate (K)
<i>M&C Base</i>	47,639	48,737	48,081	48,737
<i>ENCs</i>	6,128	6,128	6,128	6,128
<i>Shoreline Mapping</i>	2,424	2,424	2,424	2,424
<i>Joint Hydro Cntr</i>	7,424	7,424	7,424	7,424
<i>Survey Backlog</i>	30,000	31,173	30,000	31,173
<i>EEZ Surveys, AK</i>	500			300
<i>Ordnance Reef UXO - Buoys HI</i>	500			
<i>CA seafloor mapping</i>	1500		300	
<i>Hudson River map</i>	445			
<i>ARRA</i>	40,000			
Total Mapping/Charting	136,560	95,886	94,357	96,186

