NOAA's Ship and Aircraft Support

Office of Marine and Aviation Operations (OMAO)









University-National Oceanographic Laboratory System (UNOLS) Research Vessel Operators Committee (RVOC)

University of Rhode Island

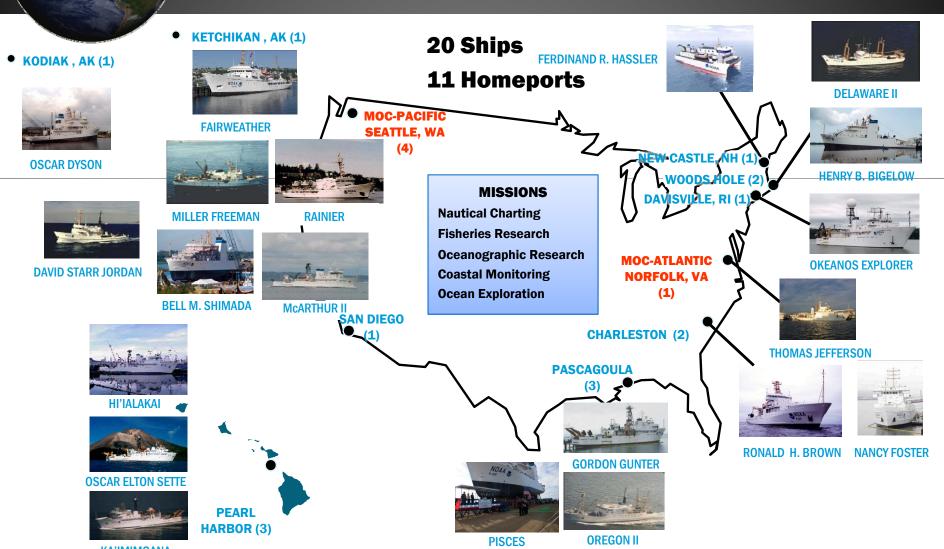
April 20, 2010



Overview

- Fleet Overview
- Budget FY2010 and FY2011 (requested)
- New Ships and Aircraft
- Greening Efforts
- Crew Recruiting & Retention
- Fleet Maintenance
- Pacific Vessel Homeporting: Newport, Oregon

NOAA Ships and Homeports in FY2010



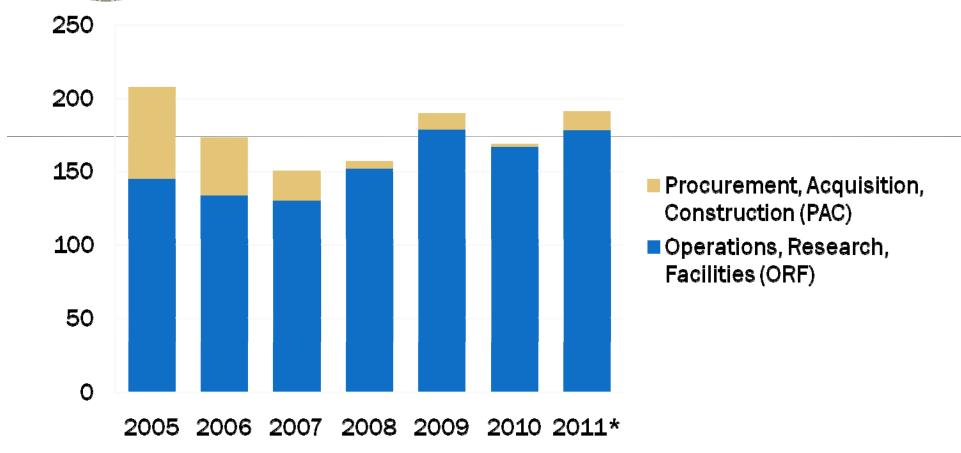


NOAA Aircraft and Bases in FY2010





NOAA OMAO Budget

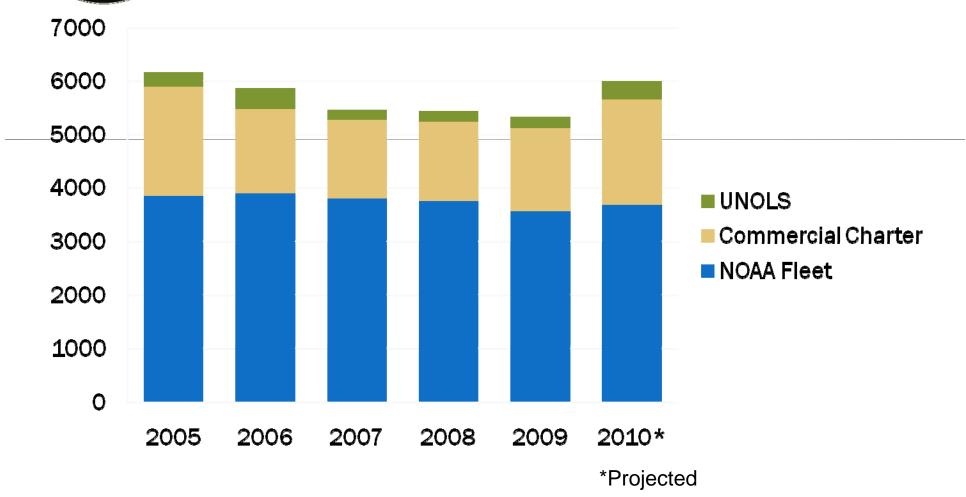


(\$ in Millons)

*President's Budget Request

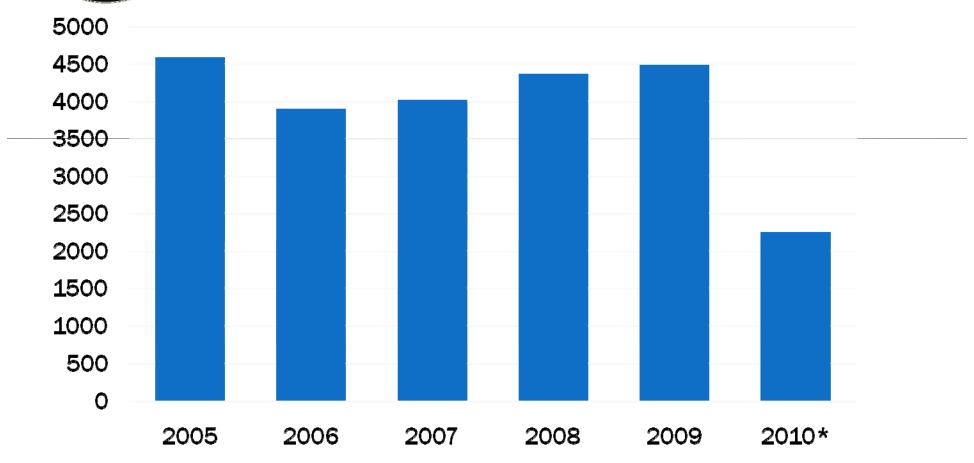


Operating Days





Flight Hours



*As of April 15, 2010



New Ships

Bell M. Shimada



NOAA R 226

Pisces

Ferdinand R. Hassler



New Aircraft

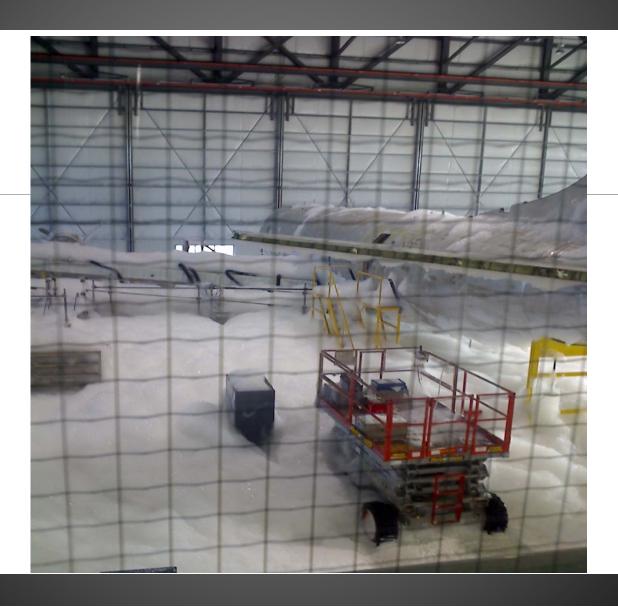


WP-3D Aircraft N44RF

King Air



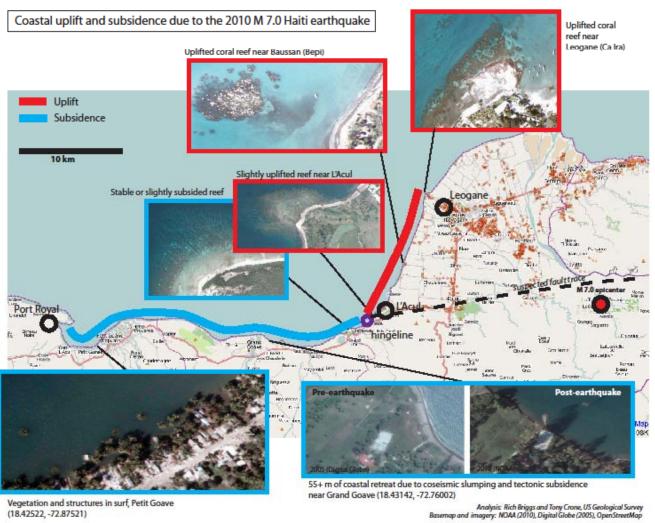
Canadian Car Wash







Haiti Damage Assessment







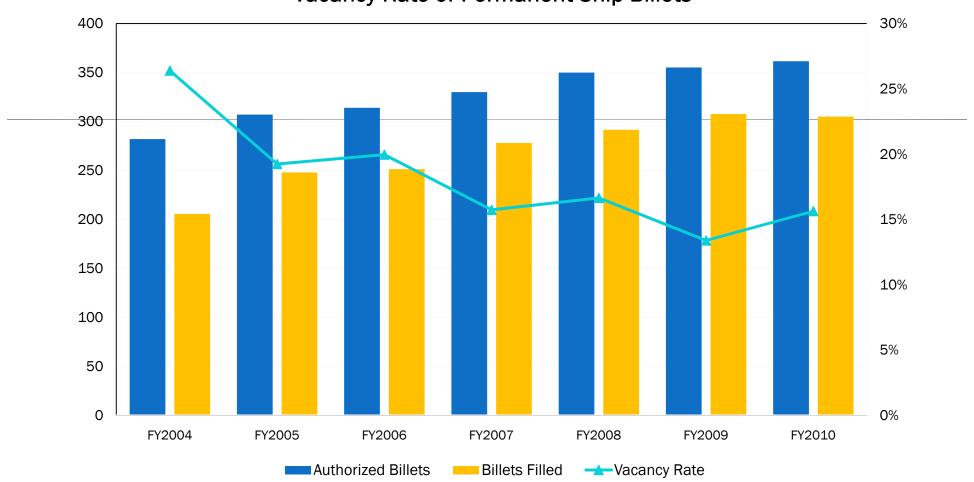
"Greening" Efforts

- Green Fleet Planning Team coordinating program
- Greening of the Fleet Cost/Benefit Study conducted (due May 2010)
 - Applying/adopting existing proven technologies
- Engine upgrade kits on Rainer and Miller Freeman (January 2010)
 - 25% reduction in particulate matter emissions (~2000 kg/year)
- Energy use audit on Thomas Jefferson (April 2010)
 - Minor changes identified by audit expected to pay for audit within 2 years
- **≥**5 ships (30% of fleet) converted to biodegradable hydraulic oil/lubes



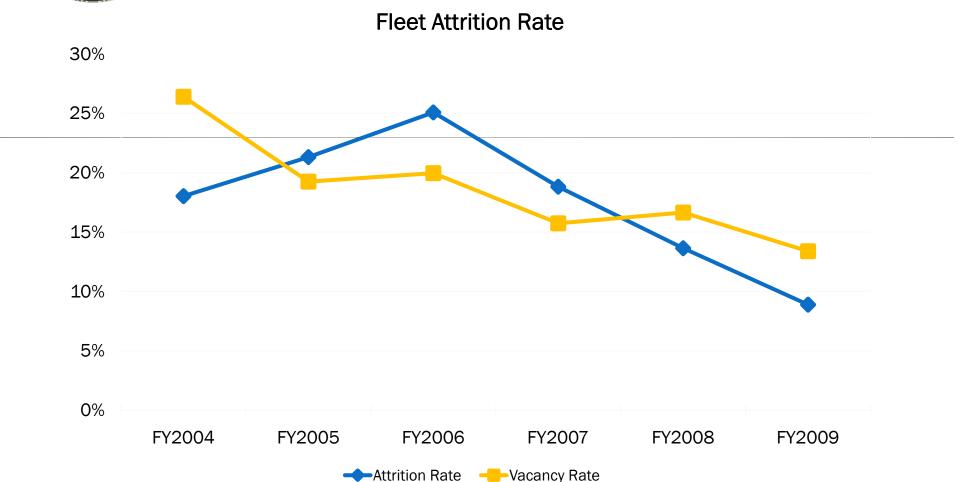
Crew Recruiting & Retention

Vacancy Rate of Permanent Ship Billets





Crew Recruiting & Retention





Fleet Maintenance

- Implementing a fleet maintenance management system
 - Maximize ship availability for mission use
 - Provide tech/tools/training/documentation to analyze existing conditions and enhance maintenance planning/execution
- Preventive Maintenance baseline review and class standardization (T-AGOS, FSV, NSV)
- Personnel management (MOC Crew Relief Pool) integral in full lifecycle management plan
- Full SAMM implementation/interconnectivity



NOAA Vessel Homeporting: Newport, Oregon



Architectural rendering of the proposed NOAA site provided by gLAS Architects, LLC, of Eugene, OR Used by permision



Takoradi Ghana

"Basically 2 armed Port Security police or Army personnel (we think—they had removed any insignia or names), holding M-16 rifles, boarded the ship at dockside and were aggressive and threatening to arrest people because the Ghana flag was (accidentally) left up after sunset. Port Security people don't appear to normally carry M-16's.

While I'm told this leaving the flag up is a serious issue in Ghana, their behavior and authority here on the ship was not acceptable, nor I'm sure condoned by the Port Authority. It was clearly a ruse and an attempt at extortion by armed men— a "give us something and we'll not arrest you", type of thing. I think they said the "fine" was \$1500 or something like that. No one paid, no one was hurt, and they left. We've also had people coming to the ship asking for ice cream, sandwiches, etc. Port Security and ISPS codes and Port Authority inspections

U.S. Embassy and ship's agent are investigating further with Port Security officials so this "freelancing" (my impression) does not happen again".





Backup Slides



Fleet Recapitalization 1: Fishery Survey Vessels

- Two (i.e., *Oscar Dyson* and *Henry B. Bigelow*) of seven planned acoustically-quiet Fisheries Survey Vessels (FSVs) are currently conducting operations.
- Two more FSVs (i.e., *Pisces* and *Bell M. Shimada*) expected to be fully operational in FY2010.
- **\$3M** included in FY2011 President's Budget to continue design work for FSV 5.
- FSV 6 contract award is scheduled for April 2010.



Ship	Homeport	Commissioning Date
Oscar Dyson (FSV 1)	Kodiak, AK	2005
Henry Bigelow (FSV 2)	Newport, RI	2007
Pisces (FSV 3)	Pascagoula, MS	2009
Bell M. Shimada (FSV 4)	Seattle, WA Newport, OR	2010
FSV 5 (shallow draft)	Pascagoula, MS	2015
FSV 6	San Diego, CA	2013
FSV 7	Newport, OR	2018





Fleet Recapitalization 2: NOAA Survey Vessels (NSVs)

- Six additional multi-mission NOAA Survey Vessels (NSVs) are planned to be placed in service between 2018 and 2024:
 - O NSVs will replace:
 - Two hydrographic survey vessels
 - Four fisheries/ecosystem research vessels
 - NSV mission requirements are currently being analyzed. They are projected to have a common baseline configuration, with minor variations to support specific missions (e.g. hydrographic survey or fisheries/ecosystem research).
- One currently active ship (*Ka'imimoana*) will undergo a service-life extension (approx. 2020). Ship maintains buoy arrays used to understand climate change and El Nino-Southern Oscillation events.
- Phase II Recapitalization Plan being drafted to:
 - look at innovative, cost effective ways to collect in situ data
 - consider new concepts of operations which incorporate new technology, i.e., autonomous platforms (airborne, surface, underwater, etc.)





Status of ARRA Funding

- Stimulus Package American Recovery and Reinvestment Act (ARRA)
 - Vessel Maintenance and Repair (\$20M)
 - Major Repair Period (MRP) for Rainier (\$5.78M, \$6.1M PAC)
 - Major Repair Period (MRP) for Oregon II (\$4M)
 - Drydock repair for five other vessels
 - Vessel Construction (\$78M)
 - Construction of FSV 6, fifth vessel in the Dyson Class