

# NOAA's Ship and Aircraft Support Office of Marine and Aviation Operations (OMAO)



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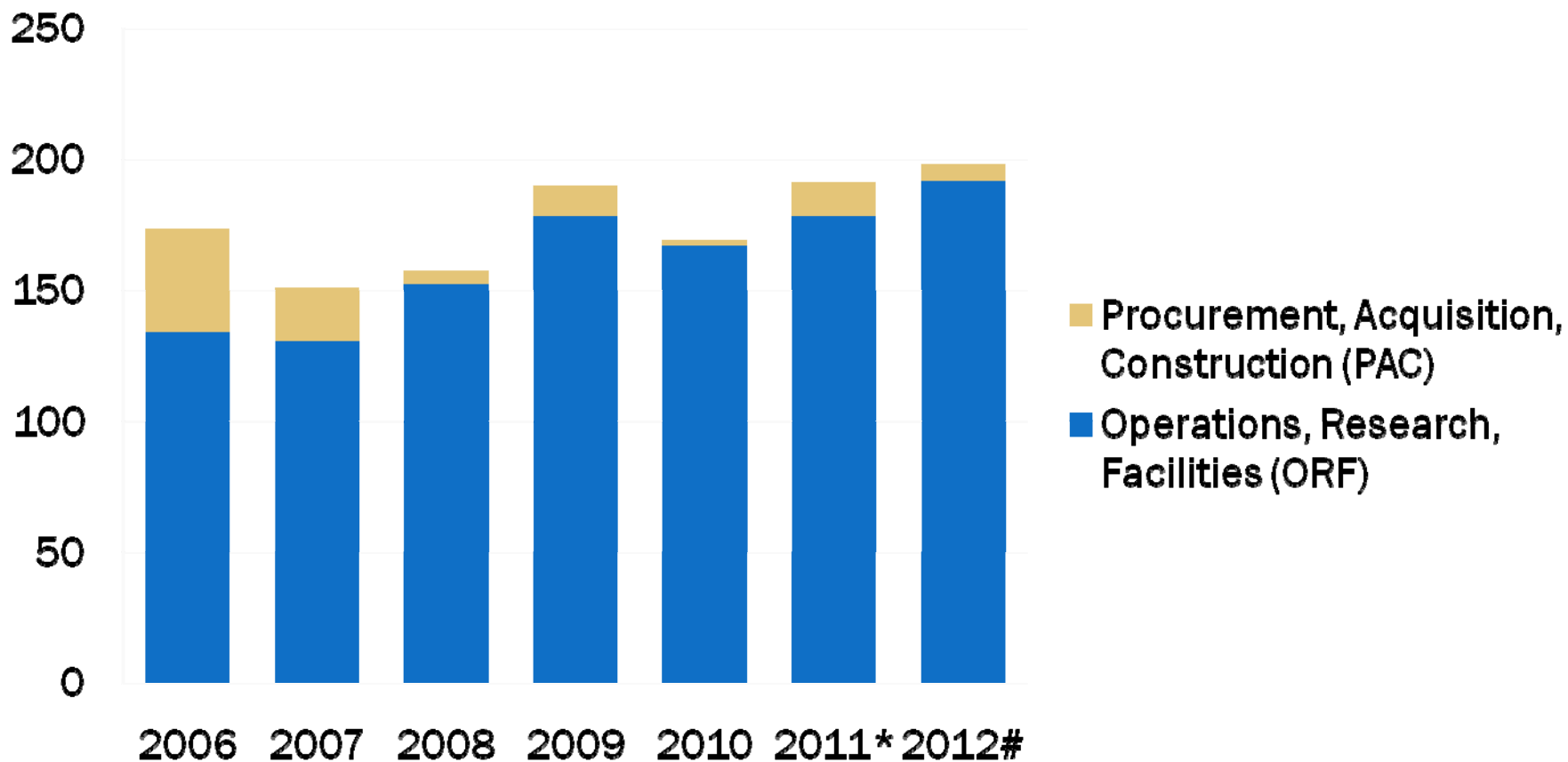


# Overview

- ✔ **Budget - FY2011 (President's Budget)**
- ✔ **New Ships and Aircraft**
- ✔ **Deepwater Horizon Response**
- ✔ **Greening Efforts**
- ✔ **Pacific Vessel Homeporting: Newport, Oregon**



# NOAA OMAO Budget



(\$ in Millions)

\*President's Budget Request  
#OMB Budget Request







# New Ships

***Bell M. Shimada***



**Pisces**



***Ferdinand R. Hassler***





# New Aircraft



**King Air**



**WP-3D Aircraft**



# Deepwater Horizon Response

- ✓ **Atlantic Fleet – Seven ships involved**
  - ✓ Thomas Jefferson first federal ship on scene conducting tests of acoustic capabilities for tracking oil
- ✓ **404 Total operating days completed**
  - ✓ Seafood Safety
  - ✓ Wellhead monitoring
  - ✓ Loop Current tracking
  - ✓ Marine mammal monitoring
  - ✓ Deep Corals monitoring
  - ✓ Sediment Sampling
  - ✓ Subsurface plume acoustic tracking



# Deepwater Horizon Response

- ✔ 700 Flight hours completed
  - ✔ Loop current
  - ✔ Oil tracking
  - ✔ Marine mammals
  - ✔ Air quality with equipment for detecting >100 different chemicals
  - ✔ Measurements of surface thickness
- ✔ Long-term monitoring
  - ✔ Seafood safety
  - ✔ Marine Mammals
  - ✔ Deep Corals





# “Greening” Efforts

- ✔ Green Fleet Planning Team continues
- ✔ Energy savings on TJ (following energy-use audit):
  - ✔ TJ decreased CO2 emission to become lowest CO2-emitter in fleet
  - ✔ Fuel use meters for increased accuracy
- ✔ Additional audit planned on FSV in FY11
- ✔ SH converting to biodegradable hydraulic & lube oil, joining 5 others already in the fleet
- ✔ Survey of fleet for “current green practices”
- ✔ Fleet-wide fuel consumption & emissions metrics
  - ✔ We cannot improve if we don’t know where we’re starting
- ✔ Model recycling programs: GU and M2 decreased solid waste 30% (v)







# NOAA Vessel Homeporting: Newport, Oregon



Architectural rendering of the proposed NOAA site  
provided by gLAS Architects, LLC, of Eugene, OR  
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# 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
RvfduG  vrq +IVY 4 ,	Kodiak, AK	2005
Khqu  E ljhørz +IVY 5 ,	Newport, RI	2007
Slvfhv +IVY 6 ,	Pascagoula, MS	2009
EhøP 1Vklp dgd +IVY 7 ,	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:**
  - 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