

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



University-National Oceanographic Laboratory System (UNOLS)
Research Vessel Operator's Committee Meeting

Menominee, MI

24-26 April, 2012



Overview

- ✔ **Fleet Overview**
- ✔ **Vessel Operations**
- ✔ **New Ships**
- ✔ **Joint NOAA/UNOLS Shipboard Tech. Training**
- ✔ **Greening Efforts**
- ✔ **Environmental Compliance Officer Training**
- ✔ **Collaborative Opportunities**



NOAA Ships and Homeports in FY2012

● **KETCHIKAN , AK (1)**



Fairweather

● **KODIAK , AK (1)**



Oscar Dyson



Bell M. Shimada



Rainier



McArthur II



Hi'ialakai



Oscar Elton Sette



Ka'imimoana



PEARL HARBOR (3)

18 Ships

Ferdinand R. Hassler

10 Homeports

**MOC-PACIFIC
SEATTLE, WA
(3)**

NEW CASTLE, NH (1)

WOODS HOLE (2)

DAVISVILLE, RI (1)

**MOC-ATLANTIC
NORFOLK, VA
(1)**

CHARLESTON (2)

**PASCAGOULA
(3)**

MISSIONS
Nautical Charting
Fisheries Research
Oceanographic Research
Coastal Monitoring
Ocean Exploration



Delaware li



Henry B. Bigelow



Okeanos Explorer



Thomas Jefferson



Ronald H. Brown



Nancy Foster



Pisces



Gordon Gunter



Oregon li





Marine Operations Centers - Pacific Newport, Oregon

Pacific – Newport, OR

- Completed move July 2011
- 20-year Lease
- Supports 8 vessels



Atlantic – Norfolk, VA

- Major repair of bulkhead in 2011
- NOAA owned
- Supports 10 vessels





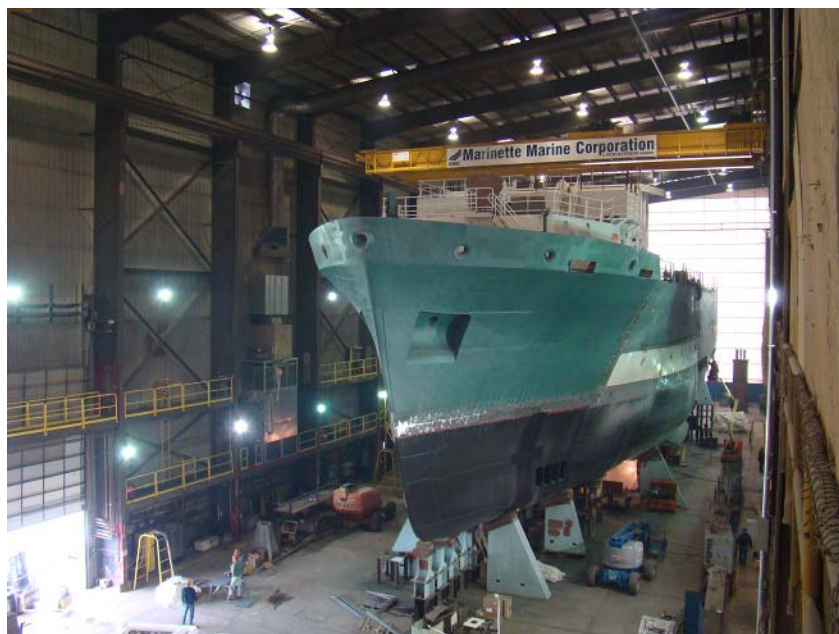
Vessel Operations

- ✔ **FY2012 Budget Approved**
- ✔ **3033 Operating Days**
- ✔ **17 Ships currently operating**
- ✔ **4 Ships will be offline this year**
 - ✔ *Delaware II*
 - ✔ *Ka'imimoana*
 - ✔ *Miller Freeman*
 - ✔ *McArthur II*



New Ships

FSV-6 Marinette, WI



Reuben Lasker



Ferdinand R. Hassler



Joint NOAA/UNOLS Technician Training

- ✓ 17-20 January 2012 Newport, OR
 - ✓ Develop baseline knowledge of data and sample collection
 - ✓ Coordinated by NOAA and UNOLS
 - ✓ First session - 4 days
 - ✓ 30 Attendees (14 NOAA, 16 UNOLS)
- ✓ Subjects
 - ✓ Electronics
 - ✓ Seabird Electronics CTDs Functionality and Oceanography
 - ✓ Sound Velocity and Acoustics
 - ✓ Multibeam and Single-beam
 - ✓ Sound Propagation in Water
 - ✓ ADCP Operations
 - ✓ SAMOS and Data Quality
 - ✓ Met. Instruments at Sea



“Greening” Efforts

- ☑ Quarterly “Green Fleet” newsletter raising awareness of environmental impacts; focusing on ships and ship support
- ☑ Fleet is compliant with NPDES Vessel General Permit
- ☑ Introduced NOAA specific shipboard Environmental Compliance Officer (ECO) training
- ☑ Developing NOAA specific HAZWOPER training
- ☑ Review and revise all Environmental Management System administrative requirements



“Greening” Efforts

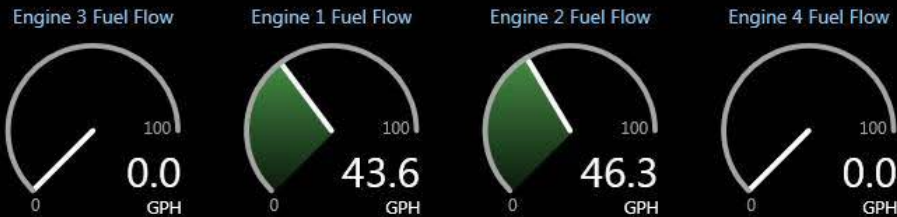
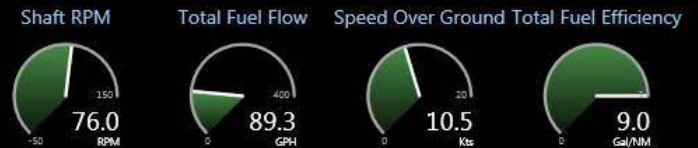
FY2012 Initiatives

- ✔ *Shimada* and *Pisces* purchasing a hybrid workboats, diesel + batteries
- ✔ *Thomas Jefferson* upgrades to lighting and HVAC as a result of energy audit
- ✔ Topside hydraulic hose and tube replacement on 4 ships
- ✔ Converted the *Okeanos Explorer* and *Oregon II* to biodegradable stern tube lubricant
- ✔ Fuel metering – Using Krill System for fuel metering on 3 ships



Krill Systems Fuel Management Dashboard

Setup Full Screen Quad 5 Engines Voyage Gensets Trends Navigation Alarms



Voyage ID: 0001 | Voyage Mode: Idle | Elapsed Time: --- | Total Fuel Used: ---

Voyage Log | Crew Name:

Voyage ID	Type	Start	End	Elapsed	Used	Crew	Notes





NOAA Shipboard Environmental Compliance Training

Held two 3-day sessions in winter 2011/2012

Covered topics including:

- ✓ **ECO Duties**
- ✓ **NPDES Vessel General Permit**
- ✓ **Waste Water Management**
- ✓ **Hazard Communication**
- ✓ **HAZMAT**
- ✓ **MSDS Online**
- ✓ **Hazardous Waste**
- ✓ **Visiting Scientist Chemicals**
- ✓ **Air Pollution**
- ✓ **Oil Spill Management**
- ✓ **Solid Waste Management**
- ✓ **Human Exposure**



Collaborative Opportunities

- ✔ **Joint NOAA/UNOLS Technician Training**
- ✔ **Environmental Compliance Training
(proposed)**
- ✔ **Scheduling (through UNOLS)**
- ✔ **Other Opportunities?**