UNOLS Fleet Renewal Activities & Fleet Operations

Report to:
Southern Association of Marine Laboratories
Joe Malbrough, Vessel Ops Superintendent, LUMCON
May 23, 2014
R/V SIKULIAQ

UNOLS Global Class Vessel
Operator: University of Alaska Fairbanks
Science Operations Begin: Fall 2014
Ocean Class AGOR Quad Chart

Key Characteristics:
- Hull Material: Steel; Aluminum pilothouse
- Length: 238 ft
- Beam (Max): 50 ft
- Draft: 15 ft
- Displacement: 3043 LT (Full Load)
- Sustained Speed: 12 kts
- Range: 10,545 nm
- Endurance: 40 days
- Propulsion: 4 x 1044 kW Diesels, 2 x 879 kW Electric Propulsion Motors, 2 x Controllable Pitch Propellers, Bow & Stern Thrusters
- Accommodations: 20 crew, 24 science berths
- ABS Classed/ABS Designed to ABS  A1 Circle E,  AMS and  ACCU, NIBS, Ice Class D0, USCG COI

Key Events:
- Phase I Contract Award: Jan 10
- Milestone B/C: Sep 11
- Phase II Contract Award: Oct 11
- Follow Ship Award: Feb 12
- Start Construction (Lead Ship): Jun 12
- Start Construction (Follow Ship): Jul 12
- Launch 1st Ship: Feb 22, 2014
- Launch 2nd Ship: ~ Aug 2014
- Delivery (Lead Ship): Jan 15 **
- Delivery (Follow Ship): Apr 15
  ** Delivery delayed by 3 months

Mission: Integrated, interdisciplinary, general purpose oceanographic research in coastal and deep ocean areas. Oceanographic sampling and data collection of surface, mid-water, sea floor, and sub-bottom parameters.

Quantity: Two (2)
User: Woods Hole Oceanographic Institution (AGOR 27), Scripps Institution of Oceanography (AGOR 28)
Ship Names: R/V Neil Armstrong (AGOR 27), R/V Sally Ride (AGOR 28)
Builder: Dakota Creek Industries, Inc.
Contract: FFP
Contract Value: $177.4M
ROM Unit Cost: $74.1 M (lead), $71.0M (follow)

AGOR 27 (R/V Neil Armstrong) Production

R/V NEIL ARMSTRONG
Launch – Feb 2014
SALLY RIDE Now – Moved to the Rails - ready for launch in a few months

Regional Class Research Vessel (RCRV)
Key Features

- Variable Frequency Direct Drive
- DP-1
- Ice Class C0
- Schottel STP Twin Prop Z-Drive
- Big Back deck and Van Vestibule
- Telepresence
  - EM302/2040
  - ADCP/EK60
- Flow Through
- SSV for full App-B compliant OHS
  - Synthetics
  - Retractable Centerboard

Regional Class Research Vessel (RCRV)

- Successful Conceptual Design Review (CDR) with OSU – December 2013
- Advancement to Preliminary Design Phase Approved – February 2014
- PDR Scheduled - August 3-5, 2014
- Three vessels currently planned
- Actual number of vessels constructed based on projected science utilization and availability of funding (See OCE Letter to UNOLS FIC):
  - Request for UNOLS Community concurrence
  - Independent verification on OCE assumptions
Regional Class Research Vessel (RCRV)

- Operator selection to take place once number of vessels is known:
  - Solicitation in early CY 2017
- MREFC Funding Request for FY17 in March 2015
- First RCRV operational in ~CY 2020

UNOLS
Fleet Operations
### UNOLS Fleet Utilization Trends

#### UNOLS Fleet Utilization (2005 - 2014)

<table>
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<th>Year</th>
<th>NSF</th>
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<th>NOAA</th>
<th>Other</th>
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### UNOLS Operations in the Gulf of Mexico

#### 2013 GOM Operating Days
- **Endeavor** = 37
- **Walton Smith** = 51
- **Hugh R. Sharp** = 49
- **Pelican** = 194
- **TOTAL** = 331 Operating Days

#### 2014 GOM Operating Days
- **Atlantis** = 82
- **Walton Smith** = 31
- **Hugh R. Sharp** = 31
- **Pelican** = 169
- **TOTAL** = 313 Operating Days
THANK YOU

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http://unols.org
http://lumconvessels.com