

#### Ocean Class AGOR Program Acquisition Status 11 February 2013

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# Ocean Class AGOR Quad Chart

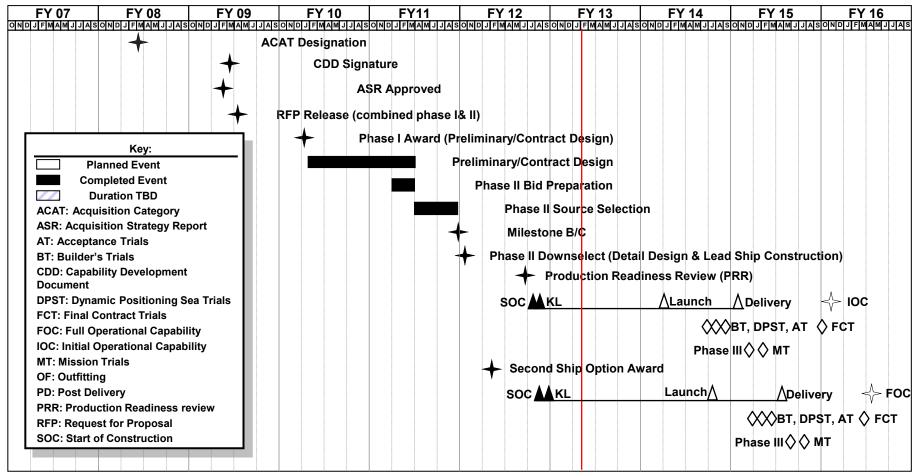
	<ul> <li>Length 238</li> <li>Beam (Max) 50</li> <li>Draft 15.</li> <li>Displacement 304</li> <li>Sustained Speed 12</li> <li>Range 10,</li> <li>Endurance 40</li> <li>Propulsion 4 x Processory</li> <li>Accommodations 20</li> </ul>	.0 ft 43 LT (Full Load) kts ,545 nm days < 1044 kW Diesels, 2 x 879 kW Electric opulsion Motors, 2 x Controllable Pitch opellers crew, 24 science berths to ABS ⊛A1 Circle E, ⊛AMS and ⊛ACCU,
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), TBD (AGOR 28) Builder: Dakota Creek Industries, Inc. Contract: FFP Contract Value: \$177.4M ROM Unit Cost: \$74.1 M (lead), \$71.0M (follow)	Key Events: • Phase I Contract Aw • Milestone B/C • Phase II Contract Aw • Follow Ship Award • Start Construction ( • Start Construction ( • Delivery (Lead Ship) • Delivery (Follow Shi	Ward (Lead Ship) (Follow Ship) ) Call the Sep 11 Oct 11 Feb 12 Jun 12 Jul 12 Oct 14





# Ocean Class AGOR Acquisition Schedule

#### R/V Neil Armstrong (AGOR 27) is on schedule (25% Complete) AGOR 28 is approximately 11 weeks ahead of schedule (15% Complete)







- All U.S. Navy owned academic research vessels designated as Auxiliary General Purpose Oceanographic Research Vessels (AGOR) were listed on the U.S. Munitions List and were subject to the provisions of the International Trafficking in Arms Regulations (ITAR)
  - Included R/V's Melville, Knorr, Thompson, Revelle, Atlantis, Kilo Moana and the two new vessels – AGOR 27 and 28
- ONR requested that AGORs be removed from the U.S. Munitions List because these modern AGOR vessels were built entirely to commercial standards and did not have a military purpose.
- Late last year, the U.S. Department of State approved the request and determined that these vessels were no longer subject to their jurisdiction under ITAR. The vessels are still subject to Export Administration Regulations under the jurisdiction of the Department of Commerce.
- The EAR regulations have a much lower impact on the operation and maintenance of our vessels, however Navy is still determining the operational and contractual impact of this change.
- For the time being only documents that have been approved for public release may be shared, but this should become more inclusive in the near future.





# Ocean Class AGOR Ocean Class Advisory Committee

- Ocean Class Advisory Committee
  - Formed by ONR & the UNOLS Fleet Improvement Committee
- Members
  - R. Kipp Shearman, Associate Professor, OSU
    - Expertise: Coastal Physical Oceanography, AUVs, ADCP, CTD
  - William M. Landing, Professor, FSU
    - Expertise: Trace metal chemical oceanography, GEOTRACES, aerosol sampling
  - Robert Pockalny, Associate Research Scientist URI
    - Expertise: seafloor mapping, sub-bottom seismics, potentialfield geophysics
  - Michael Gregg, Professor, APL-UW
    - Expertise: Ocean turbulence microstructure profilers, ADCP, acoustic backscatter systems, coastal circulation and optics
- Established to provide community input and advice on the design, construction, outfitting and testing of the Navy's Ocean Class AGORs







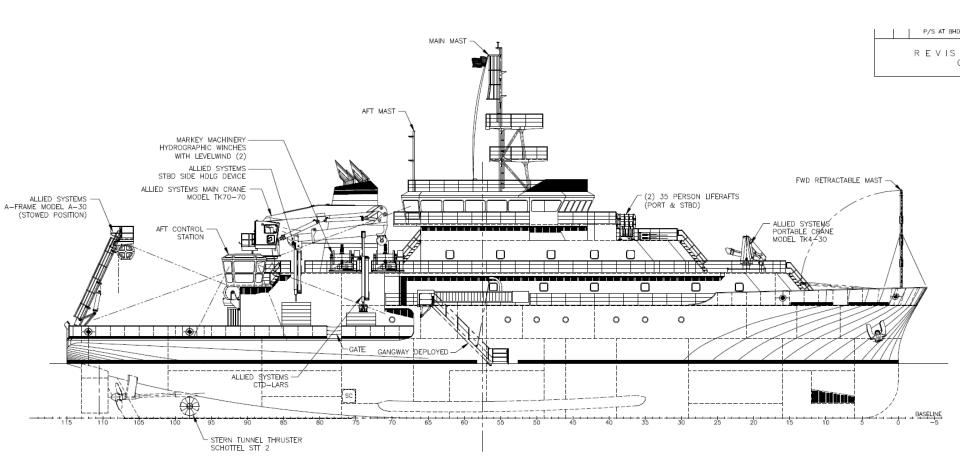
## Ocean Class AGOR 3-D Rendering – Port Side





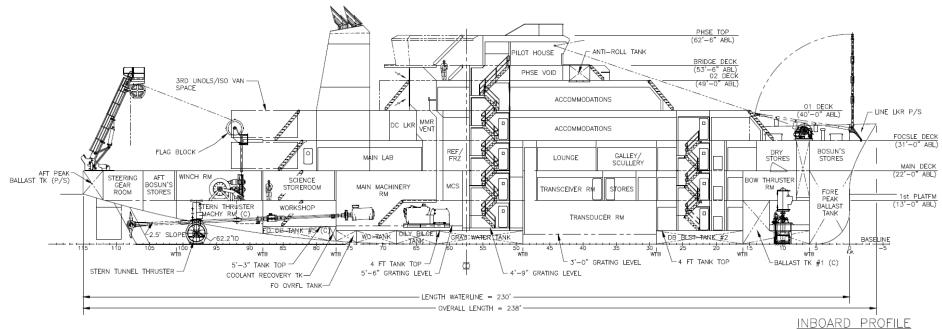












FRAME SPACING 24" THROUGHOUT



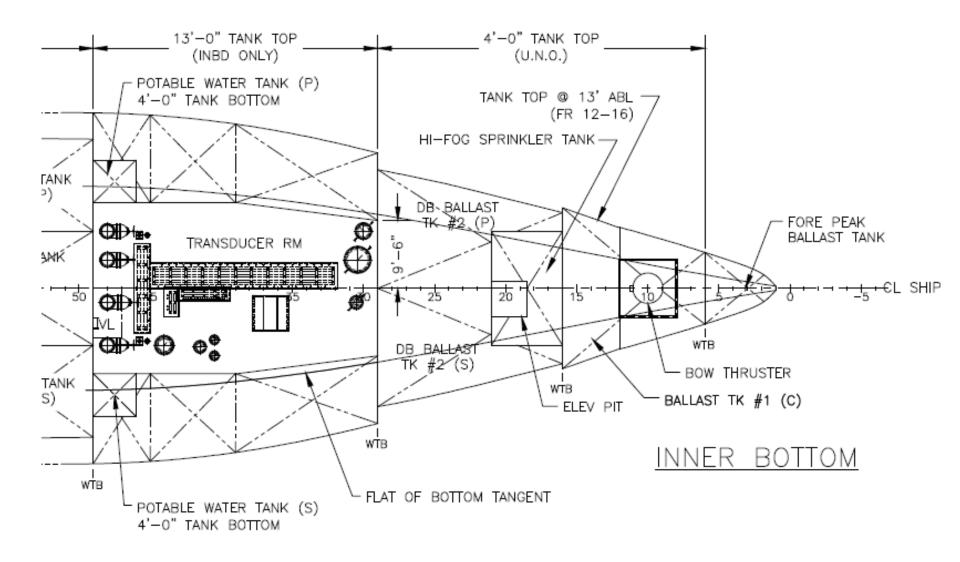


# Ocean Class AGOR Mission Equipment

Mission Equipment – Installed 30 days after delivery of each vessel		PMS325 Funded (SCN)	ONR Funded (DURIP)
Multibeam Survey System: Deep Water	Kongsberg EM-122: 12 kHz 1° x 2° (or equal)	X	
Multibeam Survey System: Mid Water	Kongsberg EM-710: 70-100 kHz 0.5° x 1° (or equal)		х
Sub-bottom Profiler & Single Beam System	Knudsen Chirp 3260 w/ 16 Massa TR-1075 Array 3.5 kHz; & 12 kHz Single beam (or equal)	x	
Scientific Echo Sounder	Kongsberg EK60: 18 to 710 kHz actual frequencies TBD		X
Acoustic Doppler Current Profiler	Teledyne RDI Ocean Surveyor 38 kHz	x	
Acoustic Doppler Current Profiler	Teledyne RDI Ocean Surveyor 75 kHz or 150kHz & Workhorse Mariner 300 kHz (or equal)		x
Acoustic Navigation and Tracking System	Kongsberg HiPAP 500 21 - 30.5 kHz (or equal)		X
Other Equipment	AHRS PosMV, SS Sound Velocity System, Broadband Sat Comms, Uncontaminated Sea Water System,	x	
	SONAR Synchronization Unit, Plotter and Printer, LAN network		x





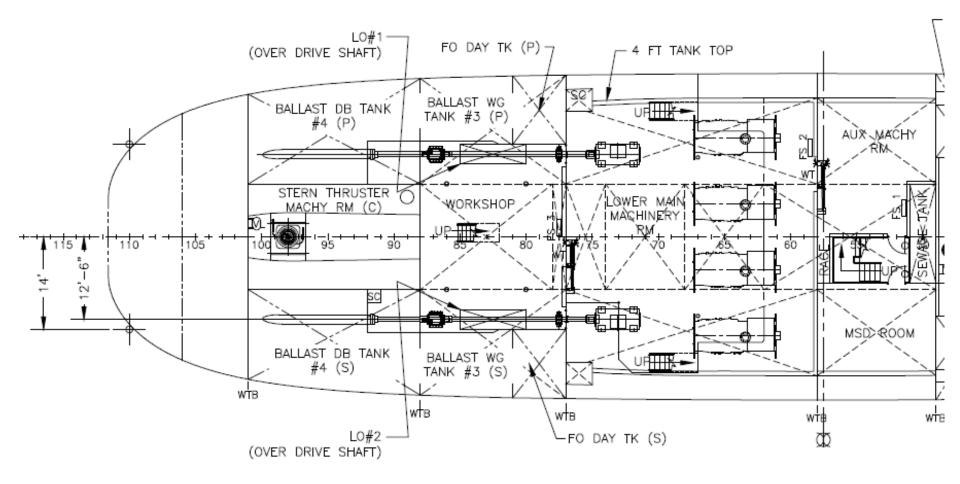






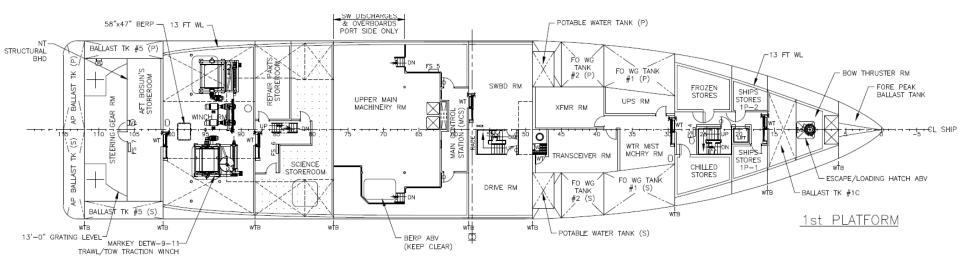






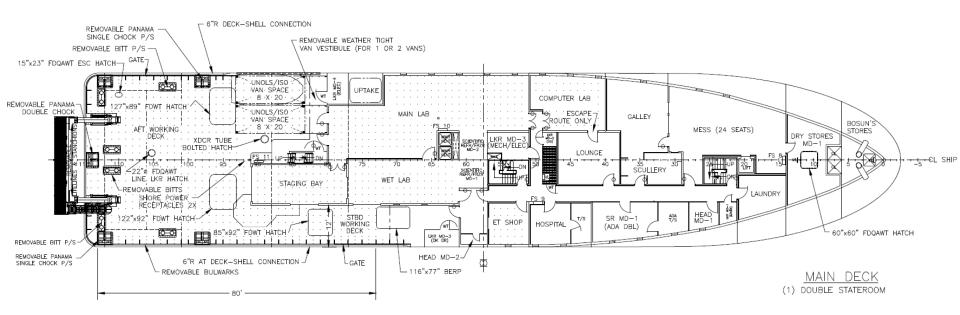






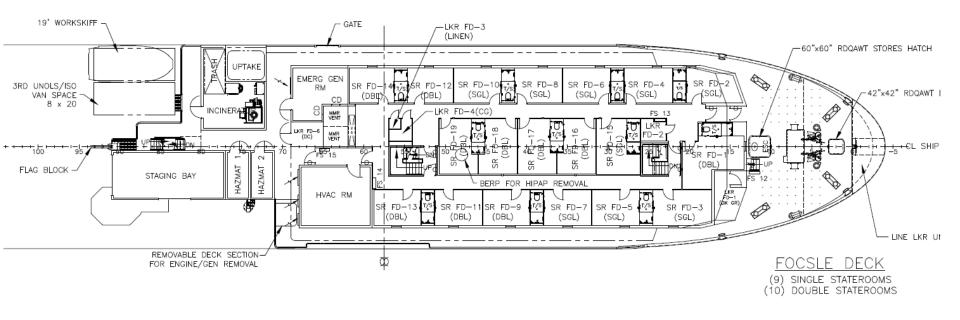




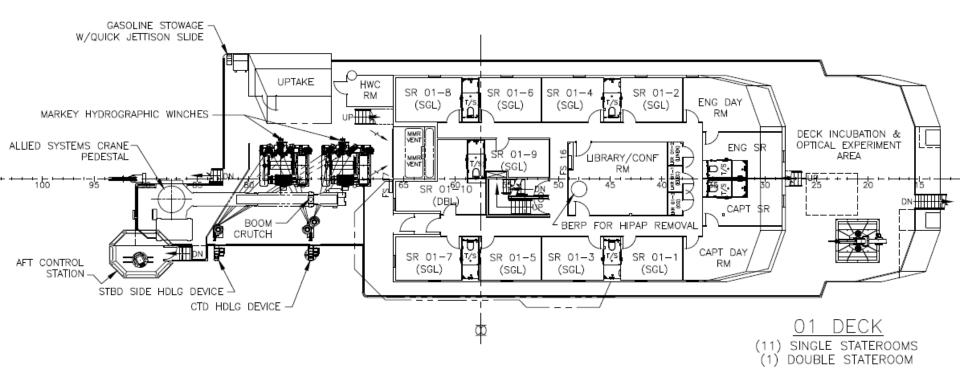






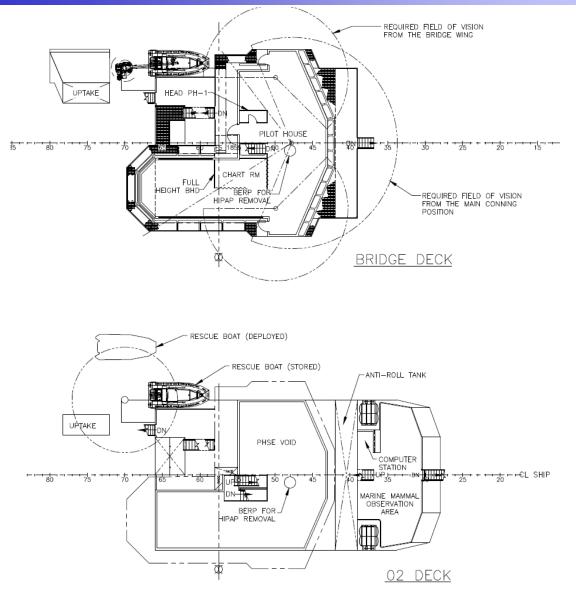












# Ocean Class AGOR Office of Naval Research Keel Laying Ceremony – Aug 17, 2012













































#### **Ocean Class AGOR**

# Questions?

