

Future of the US Research Fleet

UNOLS CHIEF SCIENTIST TRAINING
Bermuda Institute of Ocean Sciences
June 10, 2014

JON ALBERTS
UNOLS Executive Secretary















R/V SIKULIAQ



Ocean Class AGOR Program Program Status

24 April 2014

Prepared For RVOC

Mike Prince (CTR)
Research Facilities
(321RF)
Office of Naval Research











Ocean Class AGOR



Key Characteristics:

Hull Material
 Steel; Aluminum pilothouse

Length 238 ft
 Beam (Max) 50 ft
 Draft 15 ft

• Displacement 3043 LT (Full Load)

Sustained Speed
Range
Endurance
12 kts
10,545 nm
40 days

Propulsion
 4 x 1044 kW Diesels, 2 x 879 kW Electric

Propulsion Motors, 2 x Controllable Pitch Propellers, Bow & Stern Thrusters

Date:

Jul 12

Accommodations
 20 crew, 24 science berths

NIBS, Ice Class D0, USCG COI

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)

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

• Launch 1st Ship	Feb 22, 201
• Launch 2 nd Ship	~ Aug 2014
Delivery (Lead Ship)	Jan 15 **
 Delivery (Follow Ship) 	Apr 15

** Delivery delayed by 3 months

Start Construction (Follow Ship)

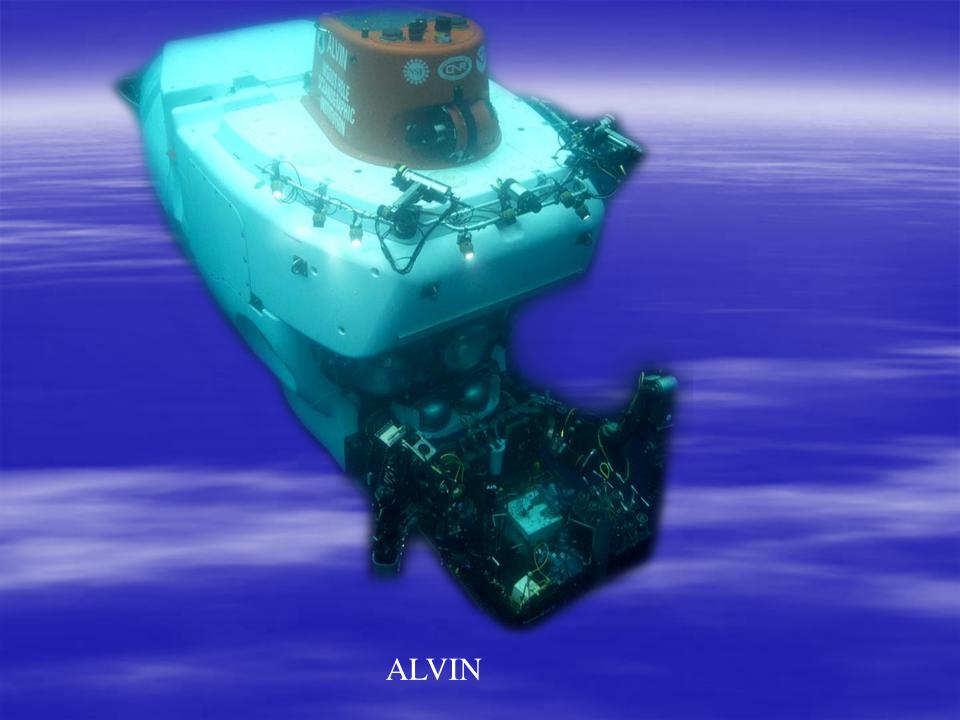
UNOLS- NEWEST SHIPS





R/V SALLY RIDE

R/V NEIL ARMSTRONG



UNOLS Fleet Service Life Estimates

	Updated: Sept 2013	BUILT				2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
				LOA m	Science																					
	SHIP/CLASS		Owner	(ft)	Berths																					
	Global Class																									
	Melville	1969	NAVY	85 (279)	38					X																
	Knorr	1970	NAVY	85 (279)	34					X																
	Thomas G. Thompson	1991	NAVY	84 (274)	36												X									
	Roger Revelle	1996	NAVY	84 (274)	37																	X				
	Atlantis	1997	NAVY	84 (274)	37																		X			
	Marcus G. Langseth	1991	NSF	71 (235)	35																					>
	Sikuliaq	2013	NSF	80 (261)	26					>																>
	Ocean/Intermediate Class																									
	Kilo Moana	2002	NAVY	57 (186)	29																					>
	Wecoma	1976	NSF	56 (185)	18		X																			
	Endeavor	1976	NSF	56 (184)	18											X										
	Oceanus	1976	NSF	56 (184)	19											X										
	Atlantic Explorer	1982	BIOS	51 (168)	20																	X				
	New Horizon	1978	SIO	52 (170)	19									X												
	Neil Armstrong	2014	NAVY	73 (238)	24						>															>
	Sally Ride	2014	NAVY	73 (238)	24						>-															>
	Regional Class																									
	Point Sur	1981	NSF	41 (135)	12					X																
-	Cape Hatteras	1981	NSF	41 (135)	14				Χ																	
	Hugh R. Sharp	2005	UD	44 (146)	14												-M-									>
	RCRV1	2019	NSF		16										>											>
	RCRV2	2020	NSF		16											>										>
	RCRV3	2021	NSF		16												>									>
	Coastal/Local Class																									
	Robert Gordon Sproul	1981	SIO	38 (125)	12									X												
	Pelican	1985	LUMCON		14											X										
	Walton Smith	2000	Miami	30 (96)	16							-M-														>
	Savannah	2001	SKID/UG	28 (92)	19								-M-													>
	Blue Heron	1985	UMINN	26 (86)	6																X					
	Clifford Barnes	1966	NSF	20 (66)	6								X										-			
	Total Number of Vessels in Fleet					21	21	20	20	20	19	19	19	18	17	18	16	15	15	15	15	14	12	11	11	11

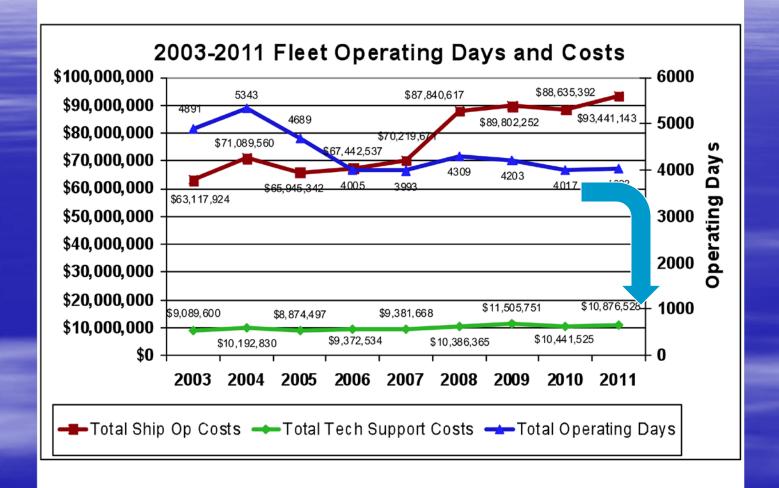
X= Current projected Service Life End Date

M= Mid-life Refit

Facts contributing Higher Ship Costs

Lower Utilization

Declining budget [higher fuel costs, higher crew and shore support costs, increases in IDC, and, Sequestration] Higher day es Rates





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



Thank you!