

University-National Oceanographic Laboratory System ~UNOLS ~ Fleet Improvement Committee Meeting

National Science Foundation Alexandria, VA July 9-10, 2018





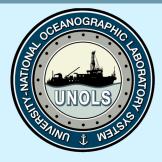












			De	sign	Life	•		Ext	end	ed I	ife		Ret	tirec	1						
Ship/Class	Owner	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Ship Age	Retire Year	Year Built	LOA m (ft)	Sci. Berths
Global Class																					
Thomas G. Thompson	NAVY																27	2030	1991	84 (274)	36
Roger Revelle	NAVY																22	2026	1996	84 (274)	
Atlantis	NAVY																21	2027	1997	84 (274)	8
Marcus G. Langseth	NSF																27	2020	1991	71 (235)	35
Sikuliaq	NSF																4	2045	2014	80 (261)	26
Ocean/Intermediate Clas	s																				
Kilo Moana	NAVY																16	2032	2002	57 (186)	29
Endeavor	NSF																42	2021	1976	56 (185)	18
Oceanus	NSF																42	2020	1976	56 (184)	19
Atlantic Explorer	BIOS																36	2026	1982	51 (168)	20
Neil Armstrong	NAVY																3	2045	2015	73 (238)	24
Sally Ride	NAVY																3	2046	2015	73 (238)	24
Regional Class							1						1								
Hugh R. Sharp	UDel																13	2035	2005	44 (146)	14
RCRV1	NSF																	2051	2021	58 (191)	18
RCRV2	NSF																	2052	2022	58 (191)	18
RCRV3	NSF																	2053	2023	58 (191)	18
Coastal/Local Class							1										T				
Robert Gordon Sproul	SIO																37	2023	1981	38 (125)	12
Pelican	LUMCON																33	2020	1985	36 (116)	14
Walton Smith	U.Miami																18	2030	2000	30 (96)	16
Savannah	SkIO/UG																17	2031	2001	28 (92)	19
Blue Heron	UMINN																33	2025	1985	26 (86)	6
Clifford Barnes	NSF																52	2018	1966	20 (66)	6
	Ships	18	18	18	17	17	16	15	16	15	15	14	12	11	11	11					

Notes/Revisions:

Revision (5/20/16) Barnes will continue to operate as long as there is demand and the ship passes inspection.

Revision (5/20/16) Service Life Extensions for Global AGORs contingent on successful completion of mid-life refits.

Revision (5/24/17) RCRV3 added to chart.

Revision (11/15/17) Service Life Extension to 2030 for Thompson on completion of mid-life refit.

Revision 4/26/18) Barnes retired Feb 1, 2018.

Revision (5/7/18) Langseth retires in 2020. Extended Endeavor and Oceanus by 1 year.

Revision (5/9/18) Sproul will continue to operate through 2023.



Full Optimal Year Range Definitions

	A	В	С	D	E	F	G	Н		J
1	Updated: 11/20/201	7								
2										
				2016 4	djusted	2017 A	djusted	2018 A	djusted	
3		Standard	Definition		OY		DY	F(-	
					Maximum		Maximum		Maximum	
4				FOY		FOY				Notes
5	ATLANTIS	270								
6	R. REVELLE	270								
7	LANGSETH	270	300	180	210	240	270	270	300	2016 & 2017 - adjusted (shipyard & maintenance).
8	T.G. THOMPSON	270	300	108	120	10	10	270	300	2016 & 2017 adjusted by D. Russell (mid-life)
9	SIKULIAQ	270	300	270	300	270	300	270	300	
10										
11	ARMSTRONG	250	280	166	186	250	280	250	280	2016 adjusted based on Service start date
12	SALLY RIDE	250	280	42	47	250	280	250	280	2016 adjusted based on Service start date
13	KILO MOANA	250						250	280	2016 adjusted - A. Hilton 6/22/16
14	ENDEAVOR	200								
15	OCEANUS	180	210	180	210	180	210	180		
16	ATLANTIC EXPLORER	170	200	150	180	150	180	180	210	Standard and 2018 adjusted - Q. Lewis 11/14/17
17										
18	HUGH R. SHARP	165	195	165	195	165	195	165	195	Standard and all years adjusted - J.Swallow 11/15/17
19										
	PELICAN	180			- • •		_		- • •	
	WALTON SMITH	150								
	R. SPROUL -	90	120						•	
	SAVANNAH	90								2017 adjusted - J. Bichy 6/22/16, 2018 adjusted - Jbichy 11/14/
24	BARNES	90	120	90	120	90	120	90	120	Barnes will transition to R/V Carson in 2018



Full Optimal Year (FOY) Definition

• Excerpt from the 2015 Fleet Improvement Plan:

"In 2014 the UNOLS FIC worked with vessel operators to revise the target number of days per year of vessel operations that are considered optimal for retaining crew, maintaining vessel equipment and mobilizing for diverse science missions during peak periods of science demand. It was recognized that these Full Optimal Year (FOY) targets should be ranges that reflect not just vessel class, but also vessel age, homeport, and differences in at-sea utilization caused by regional weather constraints."



Full Optimal Year Range

- The range of the FOY typically equals 30 days.
- FOY calculation:
 - At Sea for Science Days
 - + Transit
 - + Load/Unload Charge Days
 - + Outreach
 - + Available for Service
 - = Maximum value of FOY range

<u>Note</u>:

 In the chart legend box, the day-types above the blue line should equal the maximum FOY value



STRS Modification

 The UNOLS Ship Time Request & Scheduling (STRS) System was modified to show 365 days of activity types

Agency	Funded	Pending	Total
INST	14	0	14
NAVY	52	0	52
NSF	127	0	127
Total	193	0	193

Day Type	Total
Available for Service	26
Transit Cruise	31
General Upkeep and Outfitting	1
Inspection	7
Standby Days	26
Maintenance	79
At Sea for Science	152
Outreach	4
Total	326

Load/Unload Days	Total
ChargeLoad	7
ChargeUnload	3
NonChargeLoad	15
NonChargeUnload	14
Total	39

