



Replacement of UNOLS Fleet





	2008	2025 (Gray ships are NSF and Navy planned vessels)
Global Class		
Ocean Class		
Intermediate Class		
Regional Class		
Regional/ Coastal Class		1 1
Local Class	4444	-
Total Ships	23	14
Total Berths	492	331
Available Ship Days	5085	3270

DESSC May, 2010





Retirement UNOLS Fleet





SHIP/CLASS	BUILT	Conv/ Mid Life	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Global Class																	
Melville	1969	1991							X								
Knorr	1970	1989								X							
Thomas G. Thompson	1991															X	
Roger Revelle	1996																
Atlantis	1997																
Marcus G. Langseth	1991	2007	>														
Ocean Class																	
Kilo Moana	2002																
Intermediate Class																	
Seward Johnson	1985	1994								X							
Wecoma *	1976	1994			X												
Endeavor *	1976	1993			X												
Oceanus *	1976	1994			X												
New Horizon	1978	1996									X						





Future UNOLS Fleet





SHIP/CLASS*	BUILT/ Conv	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Global Class																			
Melville	1969																		
Knorr	1970																		
Thomas G. Thompson	1991																		
Roger Revelle	1996																		
Atlantis (Submersible Support Ship)	1997																		
Marcus G. Langseth (Seismic Ship)	2008						_							_	-				
Total Global Ships		6	6	6	6	6	6	6	5	4	4	4	4	4	4	3	3	3	3
Ocean Class																			
Kilo Moana	2002																		
ARRV	2014																		
OC #1	2014																		
OC #2	2015																		
Total Ocean Ships		1	1	1	1	1	1	3	4	4	4	4	4	4	4	4	4	4	4
Intermediate Class																			
Seward Johnson	1985																		
Wecoma*	1976																		
Endeavor*	1976																		
Oceanus*	1976																		
New Horizon 1978																			
Total All UNOLS Ships																14	14	14	14

^{*} Ships approaching the end of their projected service life will be evaluated to assess their condition.

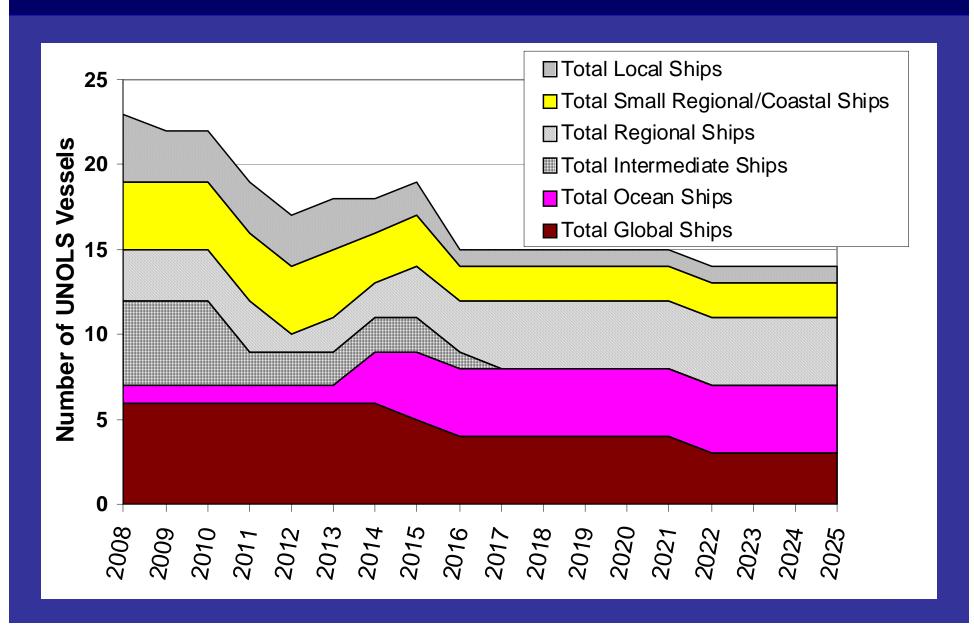




Evolution of UNOLS Fleet



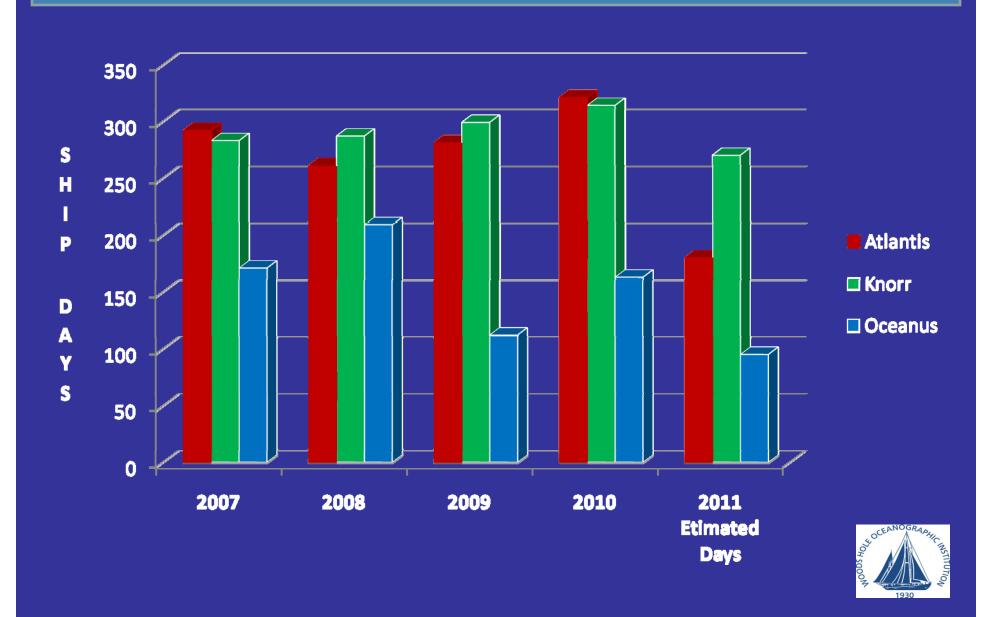




WHOI Vessels



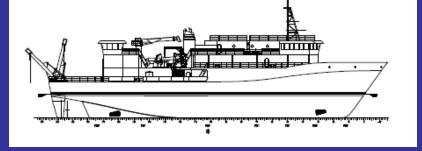




- US Navy (ONR) will build two new oceanographic research vessels following AARV model
- "Ocean" class = ~220 feet, 40 day endurance, 25 scientists
- WHOI (27) and Scripps (28)
- Procurement is for construction support, operation and maintenance
- Operations to begin 2014

Will likely accelerate retirement of Knorr, Oceanus and

Melville





Ships and NDSF

Talking Points

Fleet

- Age
- Utilization
- Mission
- Bandwidth
- Cost
- Coordination with NOAA

Vehicles

- Utilization
- Alvin/Sentry
- Alvin Transition
- Science missions and OOI
- Upgrades and next generation





