UNIVERSITY-NATIONAL OCEANOGRAPHIC LABORATORY SYSTEM (UNOLS)

~ The Current and Future Fleet ~

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What is UNOLS?

The University-National Oceanographic Laboratory System (UNOLS), formed in 1971, is an organization of 61 academic institutions and National Laboratories involved in oceanographic research and joined for the purpose of coordinating oceanographic ships' schedules and research facilities. The UNOLS Office is located at the University of Rhode Island Graduate School of Oceanography. One of the primary functions of UNOLS is to ensure the efficient scheduling of scientific cruises aboard the 20 research vessels located at 15 operating institutions in the UNOLS organization. Both current and future schedules for these ships are available through the UNOLS Ship Time Request System (STRS) at strs.unols.org.

Locations of UNOLS Members



UNOLS National Oceanographic Facilities

In addition to the UNOLS Fleet, there are 3 sp Oceanographic Facilities.

UNOLS National Deep Submergence Fac







Interdisciplinary Remotely-Piloted Aircraft Studies (CIRPAS)









The LINOLS Academic Research Fleet

	Vessel	Operator	Length (ft)	Year Build/ Refit
R/V Meiville	Global Class			
	MELVILLE	UCSD	279	1969/1991
	KNORR	WHOI	279	1970/1989
	THOMAS G. THOMPSON	UW	274	1991
	ROGER REVELLE	UCSD	274	1996
	ATLANTIS	WHOI	274	1997
	MARCUS G. LANGSETH	LDEO	235	1996/2007
R/V Kilo Moana	Ocean/Intermediate Class	_		
	KII O MOANA	UHawaii	186	2002
	ENDEAVOR	URI	184	1976/1993
	OCEANUS	OSU	177	1976/1994
	NEW HORIZON	UCSD	170	1978/1996
	ATLANTIC EXPLORER	BIOS	168	1982/2006
	Regional Class			
	HUGH R. SHARP	UDelaware	146	2005
	CAPE HATTERAS	UNC/Duke	135	1981/2004
	POINT SUR	MLML	135	1981
R/V Cape Hatteras				
	Coastal/Local Class			
	ROBERT G. SPROUL PELICAN	UCSD	125 105	1981/1985 1985/2003
	F.G. WALTON SMITH SAVANNAH	UMiami	96 92	2000
		Skidaway		
R/V Pelican	BLUE HERON	UMN	86	1985/1999
ry v s encon	CLIFFORD A BARNES	UW	66	1986/1984

The Future Fleet – New UNOLS facilities are planned and in construction!

R/V Sikuliaq

Global Class Ice-Capable Research Vessel



R/V Sikuliaq was designed by The Glosten Associates and is under construction at in Marinette, WI. The National Science Foundation is funding the project and will own the vessel. The ship operator will be the University of Alaska, Fairbanks.

Project Timeline:

Construction Began - January 2011 Launch - October 2012 Delivery to UAF - July 2013 Begin Science Ops - Early

R/V Sikuliaq Characteristics				
Length, Overall	261 feet			
Beam, Max across reamer	52 feet			
Depth, Keel to Main Deck	28 feet			
Draft, Design Waterline	18 feet 9 inches			
Freeboard, Design Waterline	8 feet 9 inches			
Displacement at Design Waterline	3,665 long tons			
Propulsion Power	5,750 BHP			
Endurance	45 days			
Endurance, Hotel Only	60 days			
Speed, Calm Open Water	14.2 knots			
Speed, 4 M Sea (13.1 ft)	12.3 knots			
Level Ice at 2 knots	Ice thickness = 3 feet			
Science Berths	24			
Crew Berths	20 crew plus 2 marine technicians			
Science/Storage Vans, 8' x 20'	2 - 4 vans			
Science storage	8,000 cubic feet			
Science Labs	2250 square feet			
Deck Working Area	4360 square feet			

AGOR 27 & 28

Ocean Class Research Vessels



of two new Ocean Class vessels. The vessels were designed by Guido Perla & Associates in Seattle, WA and the shipyard contractor is Dakota Creek Industries, Inc in Anacortes, WA. The ship operators will be Woods Hole Oceanographic Institution (AGOR 27), and Scripps Institution of Oceanography, UCSD (AGOR 28).

Project Timeline					
	AGOR 27	AGOR 28			
Keel Laying	Summer 2012	Late 2012			
Launch	Early 2014	Late 2014			
Begin Science Ops	Spring/Sum 2015	Late 2015			

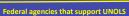
AGOR 27 & AGOR 28 Characteristics				
Length, Overall	238 feet			
Maximum Breadth (molded)	50 feet			
Depth to Main Deck	22 feet			
Waterline Length	230 feet			
Draft	15 feet			
Full Load Displacement (with SLA)	3024 LT			
Installed Total Power	3952 kw			
Endurance	40 days			
Range (at sustained speed)	11,500 nm			
Max Speed (estimated)	12.8 knots			
Sustained Speed	12 knots			
Science Berths	24			
Crew Berths	20			
Science storage	5,017 cubic feet			
Science Labs	2035 square feet			

Regional Class Research Vessels

NSF continues plans for the acquisition of up to three new Regional Class Research Vessels. Design refresh and construction can begin when funds are available.

Alvin Upgrade

NSF is supporting the project to upgrade the Human Occupied Vehicle (HOV) DSRV Alvin. The updated Alvin will have a new titanium personnel sphere that will provide improved ergonomics and eventually offer an increased depth rating of 6500 meters. The Alvin Upgrade e in 2013.













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