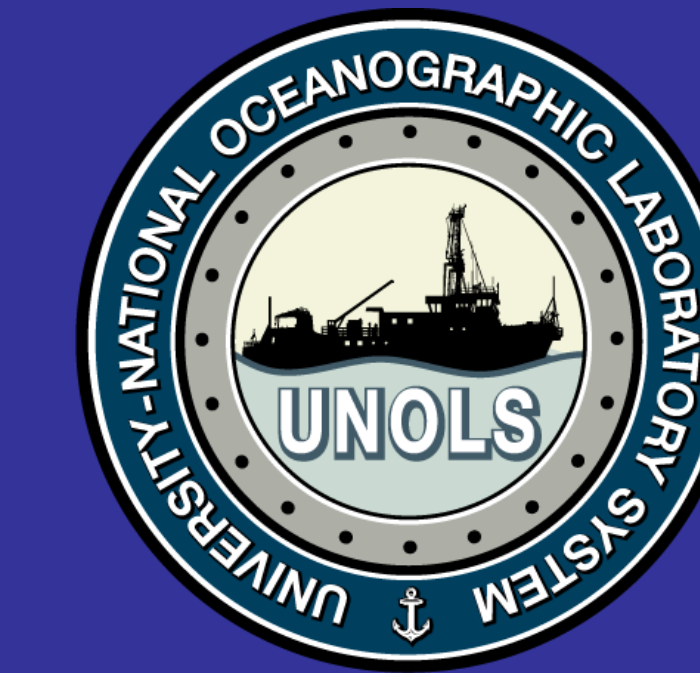


UNIVERSITY-NATIONAL OCEANOGRAPHIC LABORATORY SYSTEM (UNOLS)

~ The Current and Future Fleet ~

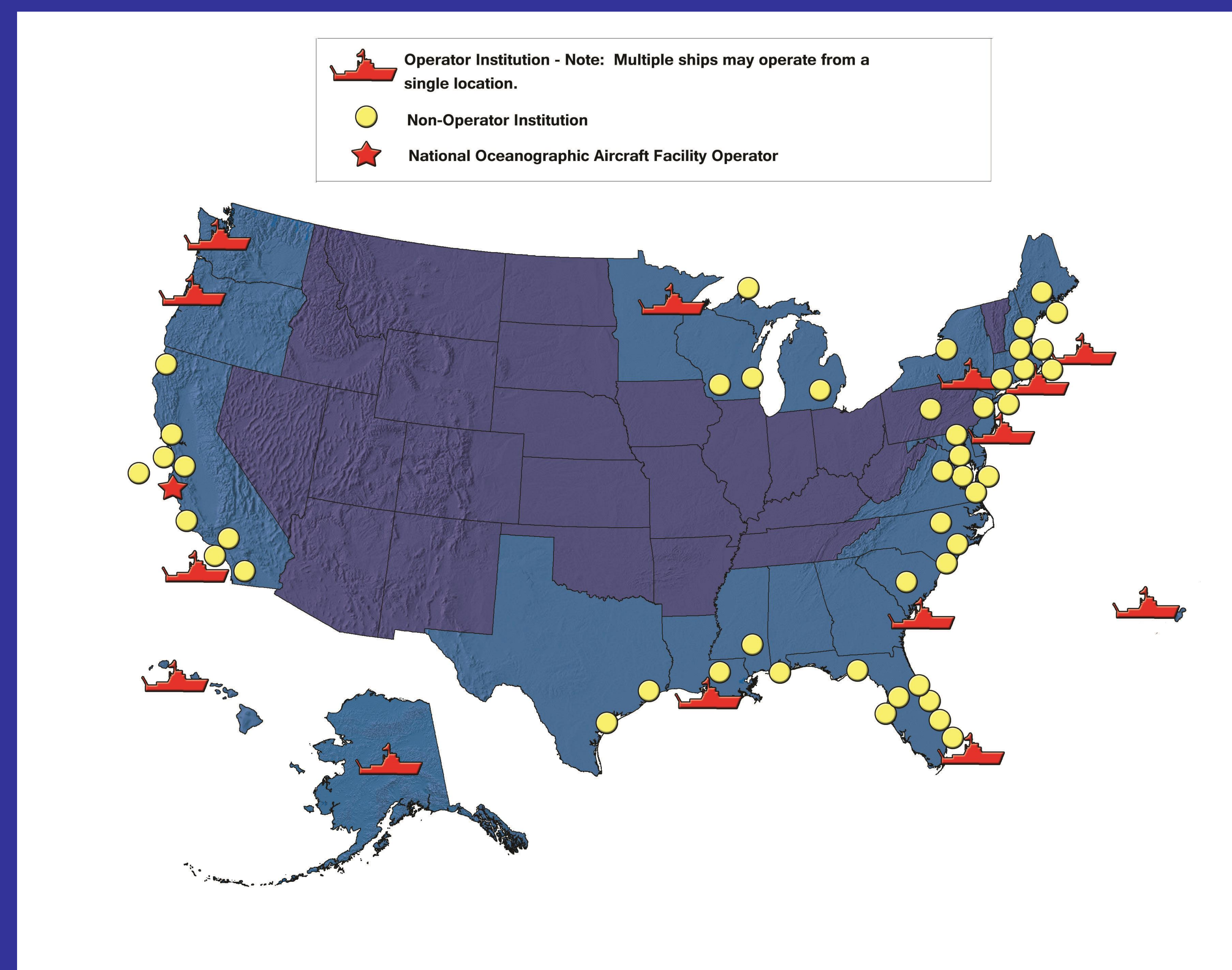
Graduate School of Oceanography/URI 215 South Ferry Road Narragansett, RI 02882
www.unols.org 401-874-6825 office@unols.org



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 str.unols.org.

Locations of UNOLS Members



UNOLS National Oceanographic Facilities

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

UNOLS National Deep Submergence Facility



DSRV Alvin



AUV Sentry



ROV Jason II

UNOLS National Oceanographic Aircraft Facility – Center for Interdisciplinary Remotely-Piloted Aircraft Studies (CIRPAS)



Pelican OPV



Altus ST UAV



UV-18a 'Twin Otter'

UNOLS National Oceanographic Seismic Facility



R/V Marcus G. Langseth

The UNOLS Academic Research Fleet

Vessel	Operator	Length (ft)	Year Built/Refit
Global Class			
THOMAS G. THOMPSON	University of Washington	274	1991
ROGER REVELLE	Scripps Institution of Oceanography	274	1996
ATLANTIS	Woods Hole Oceanographic Institution	274	1997
SIKULIAQ	University of Alaska Fairbanks	261	2014
MARCUS G. LANGSETH	Lamont Doherty Earth Observatory	235	1996/2007
Ocean/Intermediate Class			
KILO MOANA	University of Hawaii	186	2002
ENDEAVOR	University of Rhode Island	184	1976/1993
OCEANUS	Oregon State University	177	1976/1994
NEW HORIZON	Scripps Institution of Oceanography	170	1978/1996
ATLANTIC EXPLORER	Bermuda Institute of Ocean Sciences	168	1982/2006
NEIL ARMSTRONG**	Woods Hole Oceanographic Institution	238	2014
SALLY RIDE**	Scripps Institution of Oceanography	238	2014
Regional Class			
HUGH R. SHARP	University of Delaware	146	2005
Coastal/Local Class			
ROBERT G. SPROUL	Scripps Institution of Oceanography	125	1981/1985
PELICAN	Louisiana Universities Marine Consortium	105	1985/2003
F.G. WALTON SMITH	University of Miami	96	2000
SAVANNAH	Skidaway Institute of Oceanography	92	2001
BLUE HERON	University of Minnesota	86	1985/1999
CLIFFORD A. BARNES	University of Washington	66	1966/1984

Regional Class Research Vessels

NSF continues plans for the acquisition of up to three new Regional Class Research Vessels. Design work is underway and if funds are available, three ships will be built.



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 Glosen Associates and was constructed at Marinette Marine Corporation in Marinette, WI. The National Science Foundation funded 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 - June 2014
Begin Science Ops - October 2014

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	2100 square feet
Deck Working Area	4360 square feet

AGOR 27 Neil Armstrong & 28 Sally Ride

Ocean Class Research Vessels



The Navy is supporting the construction 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	August 2012	August 2012
Launch	February 2014	August 2014
Begin Science Ops	Summer 2015	Fall 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

Federal agencies that support UNOLS



September 2014