Scripps Institution of Oceanography

Seek, teach, and communicate scientific understanding of the oceans, atmosphere, Earth, and other planets for the benefit of society and the environment

- Established 1903, part of UC since 1912, a UCSD department since 1960
- Staff of 2,241 includes 488 scientists & 240 graduate students
- \$185 million annual expenditures FY11-12



Scripps Nimitz Marine Facility



- Home port for SIO since 1965, 6 acres in Point Loma
- Wharf constructed 1968, pier added 1974
- Named for Admiral Chester Nimitz, UC regent from 1948 until 1956





Oceanographic Research Vessel

Sally Ride (AGOR 28)





Oceanographic Research Vessel Sally Ride **Operator: Scripps Institution of Oceanography** Owner: U.S. Office of Naval Research Significant mission support is provided by U.S. National Science Foundation

Highly capable Ocean Class research vessel operates across ocean basins. General-purpose design supports broad range of activities. Crewed by professional civilian mariners with USCG credentials. Access to variety of mission-specific instruments, including a 2000m remotely operated vehicle, CTD rosettes, high-resolution seismic reflection systems, SeaSOAR, sediment cores, rock dredges, acoustic transponders, towed net systems, containerized lab vans, and more. Professional shoreside support staff assists with logistics and permitting Part of the University-National Oceanographic Laboratory System (UNOLS), available to scientists supported by federal and state agencies

General Specifications

Built:	Delivery anticipated in 2016	
Berthing:	20 crew, 24 scientists	
Dimensions:	238 feet (length), 50 feet (beam), 15 feet (draft)	
Speed	12.0 knots (cruising), 15.0 knots (maximum)	
Speed, minimum:	Variable from 0 knots, omnidirectional	
Station keeping:	Dynamic positioning ± 5 meters @ sea state 5	
Power plant:	Diesel electric, four gensets, two AC propulsion motors	
Propulsion:	Dual controllable pitch propellers	
Thrusters:	Azimuthing bow thruster and stern tunnel thruster	
Freeboard:	8 feet at transom	
Displacement:	3,024 long tons	जिश्वे के दिल
Range:	11,500 nm @ 12 knots	
Endurance:	40 days (limited by provisions)	
More information:	http://scripps.ucsd.edu/ships/sally-ride	

Scientific Instruments

Current profilers: Seafloor mapping: Midwater imaging: Underway sensors: Meteorology: Work areas: Communications: **Overboarding:** Winches: Instrument well: Main crane: Small boats:

Teledyne RDI ADCPs (38/150/300 kHz), UH-DAS Konsgberg EM122 & EM710 multibeam systems Subbottom profiler: 3.5/12 kHz Knudsen 3260 CHIRP echosounder Simrad EK-80 multispectral fisheries echosounder Quantitative wave radar, pCO2, T/S, sound speed Suite of air/sea sensors with integrated data viewer Acoustic positioning: Kongsberg HiPAP 12/30 kHz SSBL with transponders 2,035 sq feet (lab), 2,557 sq feet (main deck) Multiple satcom broadband, voice and data links Stern frame, crane, two load handling systems (stbd) Two-drum deep-sea traction winch, two CTD winches 24-inch diameter, user-configurable, crane access Main 10,000 lbs dynamic load, portable 2,000 lbs Port side (rescue boat and work boat)

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