



**ROBOT ARMS AND HEAVELESS WINCHES**  
Deploying and recovering oceanographic instruments and sampling systems is the lifeblood of a research vessel. Sally Ride carries specialized heavy cranes, articulating booms and motion-compensated winches that enable our marine technicians to get instruments into and out of the water safely and carefully.

**CTD LAUNCH & RECOVERY SYSTEM**

**MAIN CRANE**

**STARBOARD SIDE LOAD HANDLING SYSTEM**

**CRANE CONTROL STATION**

**AFT CONTROL STATION**

**WORKING ON DECK: WHERE SCIENCE MEETS THE SEA**  
Scientists get down to business on R/V Sally Ride's fantail and work deck — where instruments are launched and recovered, temporary science systems are installed and portable seagoing laboratory vans can be secured. Heavy lifting devices (like the stern A-frame) handle the ship's special scientific cables, which are used to lower equipment to the deepest points in the ocean — as deep as 10,000 meters (more than six miles) below.

**PRECISE MANEUVERABILITY**  
Dual controllable-pitch propellers, assisted by an azimuthing bow thruster and a stern tunnel thruster, afford remarkable control. Sally Ride can do an in-place 360, which is important when the ship has a \$500,000 instrument hanging at the end of 6,000 meters of wire over the starboard side — and the seas change. Turning the vessel in place may be the difference between a successful mission and the catastrophic loss of an instrument.

**MADE IN THE USA**

**WAYFINDING: ANYTIME, ANYWHERE**  
Global positioning systems are integrated with Sally Ride's onboard navigation and sensor suite so that scientists can find and revisit any spot on the ocean, time after time. And with its dynamic positioning system, Sally Ride can hold position on that spot within the length of a pickup truck — even when faced with tremendous waves and winds.

**BROADBAND INTERNET ON THE HIGH SEAS**  
Scientists need an innovative solution to enable web communications for transmitting data and research results ashore. Enter HiSeaNet, a satellite broadband system developed by scientists at Scripps and UC San Diego, which uses motion-stabilized antennas to beam data to a ground station at UC San Diego's supercomputing center via geosynchronous satellites.

**35-PERSON LIFE RAFTS (2 EACH PORT & STARBOARD)**

**KNUCKLE CRANE (PORTABLE)**

**FORWARD SCIENCE MAST (RETRACTABLE)**

**SERVING AMERICA'S SEAGOING SCIENTISTS**  
This newest addition to the U.S. oceanographic research fleet was built by the U.S. Navy to be operated by Scripps, for the benefit of U.S. seagoing scientists whose research is supported by federal and state agencies and private foundations. Any scientist can schedule projects aboard Sally Ride, because ship assignments are managed through the University-National Oceanographic Laboratory System (UNOLS), which coordinates America's academic research fleet to ensure fair and equal access and efficient, cost-effective ship use.