

# Research Vessel Sally Ride Tour Stops

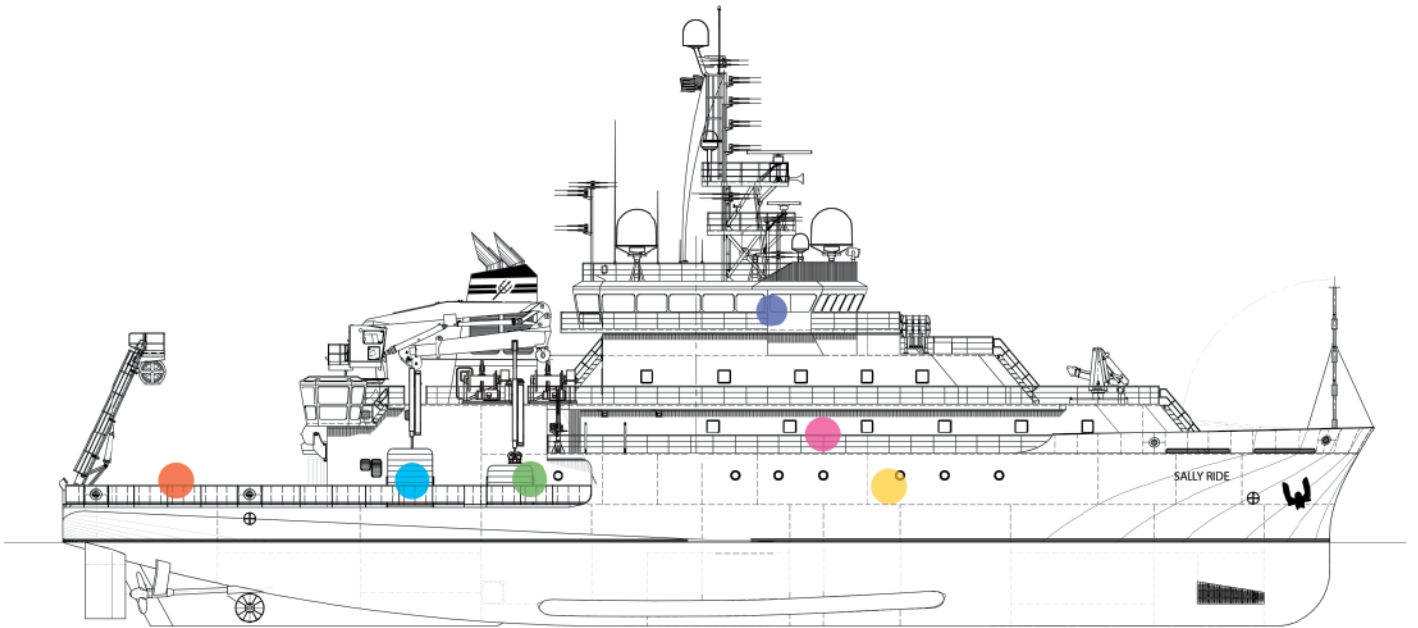
**AGU100** ADVANCING  
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# Sally Ride Tour Stop Locations



**Cyan Main Scientific Laboratory**

**Pink Living Spaces**

**Blue Pilot House (bridge)**

**Green Information Control Center**

**Yellow Galley and Mess Deck**

**Red Main Work Deck**

# Galley and Mess Deck



The galley and mess deck are the kitchen and dining room of the R/V Sally Ride.

Meals are prepared fresh in the galley by a two-person galley staff. Three meals per day are served cafeteria-style, and eaten in the mess deck. Everyone eats together—deck officers, engineers, scientists, technicians and students.

During long expeditions, sometimes the only differences from day to day are the weather and the meals. We can't control the weather, but scientists aboard Sally Ride often single out the galley staff for making their time at sea more enjoyable.

Outside of meal times, the mess deck is a gathering place for casual conversations, breaks and all-hands meetings. It's often where great ideas are hatched, either during a meal or an after-hours cribbage game.



# Information Control Center



The Information Control Center is where the data from the more than two dozen permanently-installed sensing systems are displayed. Scientists often stand watch here to monitor the overall progress of an expedition.

Instruments transmit the data collected via the ship's fiber-optic computer network to a computing cluster, and information from every system can be displayed and controlled from the Information Control Center.

Data from every sensor are stored on shipboard servers where they are accessible to scientists. Each scientific team leaves the ship with a complete set of digital data, and the data sets are separately sent to a national repository for permanent archive and public access.

# Living Spaces



R/V *Sally Ride* has berthing for twenty mariners and twenty-five scientists. Mariners all have single-person staterooms, most of which share a head (bathroom) with another room.

The staterooms for most scientists are located on the fo'c'sle deck (one deck above the main deck) and are arranged for double-occupancy using bunk beds. These rooms share a head with an adjacent two-person stateroom.

The Chief Scientist Stateroom is on the forward end of the fo'c'sle deck. Like other science staterooms it has berthing for two, but it has its own head.

R/V *Sally Ride* includes a spacious three-person stateroom on the main deck that is designed to accommodate mobility-impaired scientists. This room has a bunk bed plus a single bed, and has its own large head.



# Main Scientific Laboratory



*R/V Sally Ride* has a suite of laboratories, each optimized for different types of research activities at sea.

The Main Laboratory is a general-purpose dry lab space, designed to be rapidly adapted to the needs and disciplines of each oncoming scientific team, which change with each expedition. The space contains continuous seawater sensing systems, fume hood, walk-in climate-control chamber, and easy access to the work deck and wet lab.

Lab spaces can be reconfigured in a matter of days, enabling efficient and effective use by scientific teams who bring their own mission-specific equipment and laboratory supplies aboard.

# Main Work Deck



Where science meets the sea. Specialized power, network, seawater plumbing and deck socket layouts enable scientists to secure and operate their own specialized mission-specific instruments.

This is where instruments are deployed and recovered using a variety of overboard-ing devices. Deep-sea cables are fed from a traction winch below decks to the ship's A-Frame for deployment over the stern. A pair of articulating cranes are used to securely deploy and recover instruments over the starboard side, using hydrographic cables fed by motion-compensating winches. The ship's main crane is able to lift heavy cargo aboard the ship from the pier, and reposition items on deck while at sea.



# Pilot House



The Pilot House, also called the bridge or wheelhouse is where the ship's deck officers – first, second and third mate, plus the vessel's master – command the vessel.

Each mate stands a sea watch – four hours on, eight hours off – accompanied by an Able-Bodied Seaman. While underway, there is always a watch team on duty in the Pilot House.

Research vessels are required to conduct precise movements, including long periods of exacting station-keeping while instruments are deployed overboard. Sally Ride features a modern control system that enables the ship's propulsion and navigation systems to be closely monitored and controlled, including a dynamic positioning system that integrates satellite positioning with the ship's propulsion system to precisely maneuver or hold station.



# Wet Laboratory



This area is where scientists can process and analyze any kind of wet sample. This might include sediment from the seabed, biological samples, rocks recovered from the seafloor, or water collected from sample bottles on the profiling CTD rosette.

The ship's flow-through uncontaminated seawater system is plumbed here, allowing scientists to sample or measure properties of water that is continuously pumped from a sea chest near the ship's bow.

Samples and experimental material can be secured in a walk-in climate-controlled chamber, which can be set to hold constant temperature down to  $-18^{\circ}\text{C} \pm 1^{\circ}\text{C}$ .