



The University of California San Diego embarks upon a new journey of exploration and boundary breaking with America's newest research vessel: R/V *Sally Ride*.

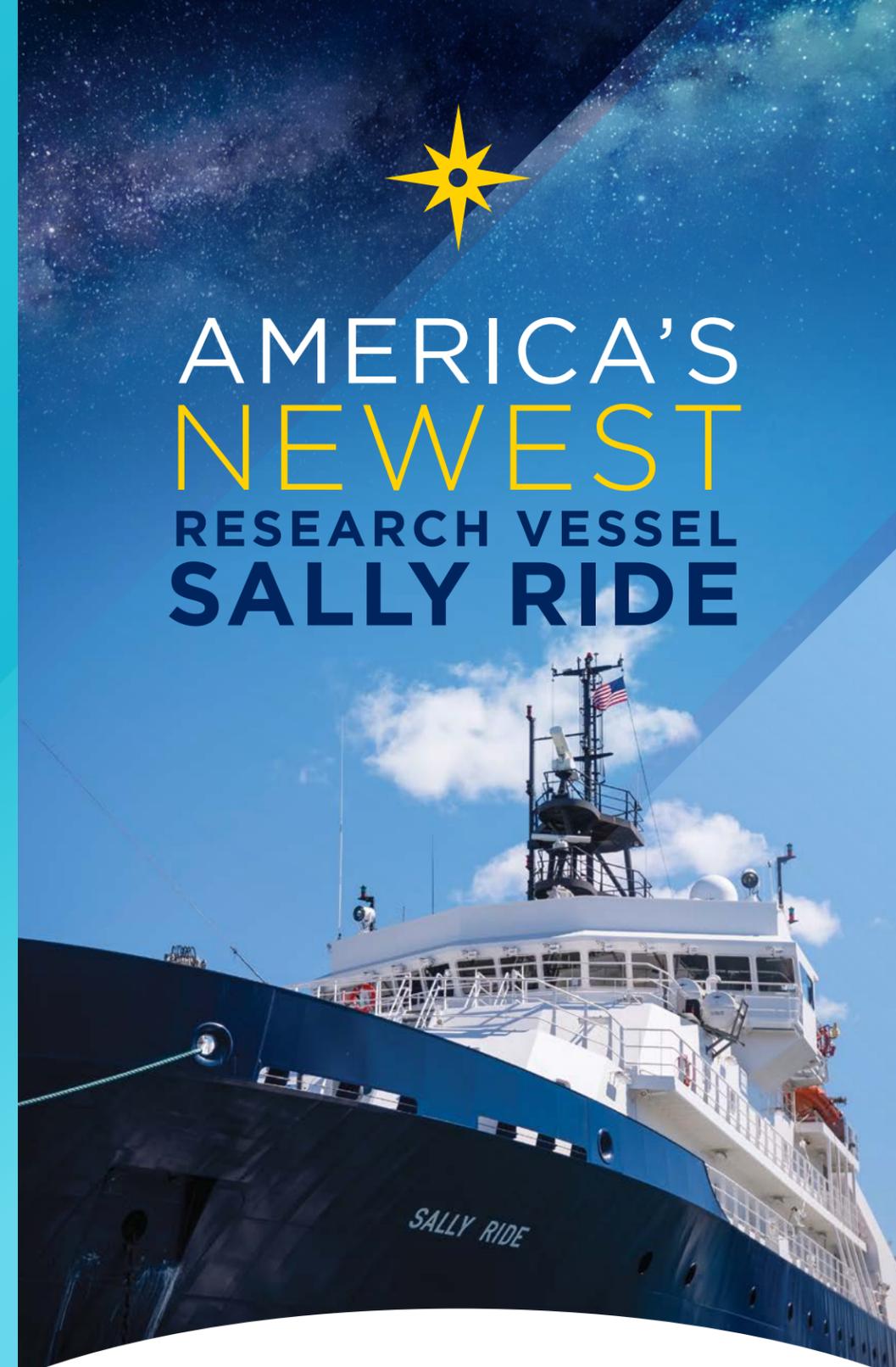
The state-of-the-art ship, operated by Scripps Institution of Oceanography, investigates the workings of our earth, oceans and atmosphere, helping solve some of the planet's most pressing challenges—from climate change to global food supply.

R/V *Sally Ride* honors the incredible legacy of the late Sally Ride, the first American woman in space and a member of the UC San Diego physics faculty.



UC San Diego

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# AMERICA'S NEWEST RESEARCH VESSEL SALLY RIDE

UC San Diego



# world class

Owned by the U.S. Navy and operated by Scripps Institution of Oceanography at UC San Diego, R/V *Sally Ride* is the latest example of the long history of collaboration that brings together the bold exploration of Scripps Oceanography with the vision of the U.S. Navy and Office of Naval Research.

Part of the new Ocean Class of research vessels, R/V *Sally Ride* features increased endurance, advanced technological capabilities and greater space for scientific study. With the ability to carry 24 scientists on missions up to 40 days, the new ship is designed to support integrated and interdisciplinary research across entire ocean basins.

R/V *Sally Ride* is outfitted with sophisticated equipment including seafloor mapping systems, Doppler sensors to reveal deep currents, imaging systems to study wildlife and wave radars. These, in addition to portable systems such as remotely operated vehicles (ROVs), autonomous underwater vehicles (AUVs) and unmanned aerial vehicles (UAVs), provide extraordinary capability to study earth, ocean and atmospheric processes from the ice edge to the equator.

## PRESERVING OUR OCEAN

Science at sea supports California's economy by understanding the impacts of overfishing, studying marine life populations and managing human food supplies.

From coastlines to continental shelves, from beaches to the deepest trenches, R/V *Sally Ride* uses advanced technology to conduct meaningful, interdisciplinary research that helps ensure our oceans are protected for generations to come.

## PROTECTING OUR PLANET

Pollution. Destructive earthquakes. "Blobs" of warming oceans. Rising sea levels. R/V *Sally Ride* research delivers new insights on these types of hazards.

The vessel provides "environmental intelligence"—knowledge to aid the planet and its inhabitants in a time of environmental crisis—which has strategic value for national security and unique benefits for the State of California. A better understanding of the ocean is essential for safe, effective United States naval operations, and global economic and environmental well-being.

## BENEFITING SOCIETY

Research conducted aboard R/V *Sally Ride* has global benefits. Scientists work to ensure that food from the oceans remains healthy, discover new compounds that can be developed into life-saving drugs and better understand the results of human-caused global warming before catastrophic events unfold.

## INSPIRING THE NEXT GENERATION

Just as the legacy of Sally Ride inspires future generations, R/V *Sally Ride* encourages young scientists through outreach and education. Using satellite telepresence with scientists onboard, students and teachers onshore have the opportunity to participate in ocean exploration.

The interactive gallery at Birch Aquarium at Scripps immerses visitors in the experience of conducting research at sea aboard research vessel *Sally Ride*.

R/V *Sally Ride* interfaces with UC San Diego's existing K-12 outreach efforts, including Sally Ride Science, to demonstrate how exciting, meaningful and accessible STEM fields are for everyone.

"... there's something magical about pushing back the frontiers of knowledge. That's something that is almost part of being human and I'm certain that will continue."

—SALLY RIDE

