

RV/SALLY RIDE ARRIVES HOME

R/V *Sally Ride*'s first arrival in San Diego included an Aug. 26, 2016, "whistle stop" by the Scripps Institution of Oceanography at UC San Diego campus en route to its home port at the Scripps Nimitz Marine Facility.

In addition to welcoming R/V *Sally Ride* in 2016, the Scripps Nimitz Marine Facility in Point Loma held a ribbon-cutting ceremony to mark the completion of a five-year revitalization project that included a new pier, upgraded technology and utilities, and improved environmental protection systems.

The rest of our fleet

R/V ROGER REVELLE

continues to serve as a major workhorse for the U.S. academic research fleet, with more than 300 operational days per year in both 2015 and 2016. In between, we completed a 60-day regulatory drydocking, overhaul, and inspection in Keelung, Taiwan, followed by a successful sea trial to demonstrate new upgraded winches and overboard handling systems. During the past year *Roger Revelle* has successfully accomplished major projects in the Indian and Pacific Oceans supported by the National Science Foundation, Office of Naval Research (ONR), and NOAA, notably a pair of 40-plus day cruises that spanned the Indian Ocean from Antarctic ice edge to the Bay of Bengal as part of Scripps oceanographer Jim Swift's Scripps Global Ocean Repeat Hydrography program.

Scripps was awarded \$29.26 million for a midlife refit that will upgrade, refurbish, and refresh major ship systems, which will extend the service life of the vessel through the year 2041. Planning for the refit has begun, with the intent of conducting the refit work in a U.S. shipyard beginning in 2018.



R/V MELVILLE was successfully transferred to the Republic of the Philippines by the U.S. Navy, a lengthy process that was supported by Scripps Ship Operations as we continued our role as caretakers for the vessel, and trainers for the oncoming Philippine crew. Following a high-level transfer ceremony, the vessel was renamed Gregorio Velasquez, and departed San Diego on April 28, 2016 for its new home port in Manila, where this illustrious vessel will serve the citizens of the Philippines.





R/V ROBERT GORDON SPROUL

completed its 16-month pilot project to demonstrate the practicality of routine use of 100-percent renewable diesel fuel, sponsored by the U.S. Department of Transportation. This project was 100-percent successful, and we would like to continue using renewable fuel on *Sproul*. However, the cost of the fuel is 10 percent greater than fossil fuel, so in order to meet our commitment to funding agencies to provide the most economical operations of our ships, we need to find an alternate source of support to cover the marginal difference between fossil and renewable fuel—an ongoing quest.

R/V *Sproul* continues to serve its key role as Scripps's reliable coastal research vessel, available for regional and nearshore research projects that are increasingly important, including student and class cruises supported by the UC Ship Funds Program. *Sproul* is preparing to support several upcoming *FLIP* cruises, for which *Sproul* will serve as an anchor handling vessel.



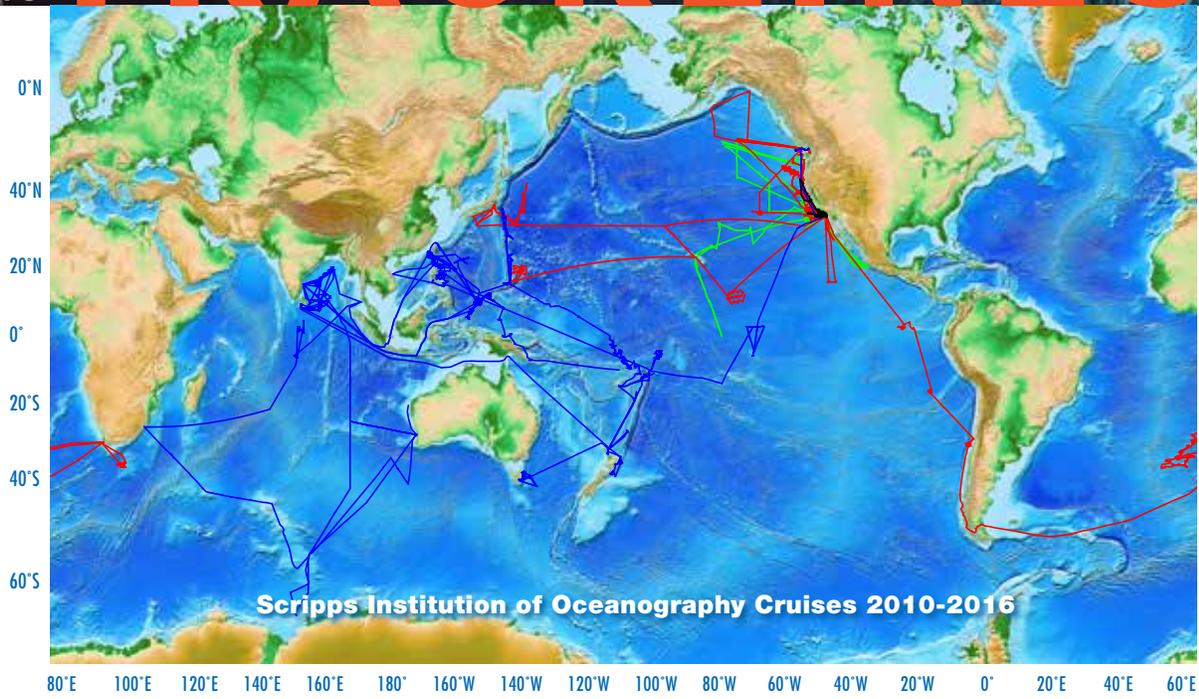
R/P FLIP With ONR funds, a new face boom for FLIP was constructed and installed, and then successfully exercised and evaluated during a test deployment in May 2016. The new face boom is stronger and easier to maintain than previous booms. Scripps Ship Operations and Marine Technical Support is planning a series of technical upgrades to the on-board science systems so that FLIP has a basic suite of sensors similar to other Scripps-operated vessels. These upgrades have been funded by ONR and will be integrated in order to support future operations.





RESEARCH VESSEL TRACKLINES

2010-2016



- **R/V Melville**
- **R/V New Horizon**
- **R/V Roger Revelle**
- **R/V Robert Gordon Sproul**

Scripps ships venture worldwide to address society’s most fundamental concerns about our planet, our environment, and life on Earth. Crewed by professional mariners and marine technicians renowned for their skill in the demanding field of scientific ship operations, our vessels serve as mobile laboratories and control centers that allow teams of scientists at sea (and through telepresence, on land) to survey, observe, and assess our planet in a way that no other platform can. For more than a century, Scripps research vessels have enabled safe, capable, and efficient scientific operations to scientists, educators, and students. Over the past five years, we have completed 304 separate research missions, carrying to sea 4,526 scientists, students, engineers, and explorers from 425 different research institutions and laboratories.