Planning for a new California Coastal Research Vessel

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Bruce Appelgate (SIO)
Mike Prince (MLML)
California needs a dedicated research vessel

- California society and economy depend on the ocean for resources, commerce, defense, infrastructure, and quality of life.
- Growing need for undergraduate and graduate education involving instruction, research and practical training at sea.
- California economy, 6th largest in world, is strongly tied to the ocean and drives a growing demand for maritime research & development.
  - Roger Revelle and Sally Ride have worldwide research portfolios, and will not predictably be available in California waters
  - Universities throughout California require an accessible, affordable, capable research vessel for classes and student research projects, operating on time frames tailored to academic calendars.
- California needs the ability to mount rapid response missions to ephemeral events, with quick access to a capable, well-outfitted, professionally-staffed vessel.
California-based Intermediate Class & smaller ships

Research vessels able to carry out California’s local research and education needs have decreased from 3 to 1, with the last remaining ship approaching the end of its service life. **A new vessel is needed.**

**INTERMEDIATE**
- R/V New Horizon
  - 170 feet / 40-day endurance
  - 12 crew / 19 scientists
  - **retired 2015**

**REGIONAL**
- R/V Pt Sur
  - 135 feet / 21-day endurance
  - 8 crew / 12 scientists
  - **retired 2014**

**LOCAL / COASTAL**
- R/V Robert Gordon Sproul
  - 125 feet / 14-day endurance
  - 5 crew / 12 scientists
  - **2020**

Needed 2020 onward
Collaborating on a shared research vessel

Vision: establish a new kind of partnership within California, involving public and private universities, research institutions, state agencies and non-governmental organizations to support a new California Coastal Research Vessel (CCRV) for seagoing education and research.

Efforts to date:

- Moss Landing Marine Laboratories (California State University) and the Scripps Institution of Oceanography (University of California) have agreed to collaborate jointly on this effort.
- Committed significant seed funding from each institution
- Assembled Scripps Small Ship Task Force to define institutional needs
- Sent Dear Colleague letter to 100+ ship users statewide to solicit input
- Scripps began a DOT-sponsored feasibility study (with Sandia National Labs) of a zero-emission research vessel (ZERo/V), including conceptual design
CCRV: Goals for 2017

Science mission requirements: Consult with likely ship users and sponsors to develop SMRs, building on existing UNOLS products.

Develop management plan: How will a single vessel be managed and operated such that it is able to support multiple institutions? This should be resolved in 2017.

State and local government: Engage, educate, and build support.

Conceptual vessel design: Based on the foregoing, develop CCRV concept.

Correspondence to:
Bruce Appelgate <tba@ucsd.edu>
Mike Prince <prince@mlml.calstate.edu>