

## **Brief Introduction**

Research vessels have been around for as long as humans have explored the ocean. Research vessels are designed and equipped for carrying out research at sea. There are many types of operations that a research vessel may be designed to conduct. Some vessels can be designed for a single purpose or for many differnt types of operations. Modern operations include hydrolographic surveys, oceanographic and atmospheric research, fisheries research, naval research, polar research, and oil exploration.

Resources & References	
Interesting Books	<ul> <li>The Log from the Sea of Cortez by John Steinbeck, Richard Astro (Introduction)</li> <li>Sea of Cortez: A Leisurely Journal of Travel and Research by John Steinbeck, Edward F. Ricketts</li> <li>Exploring Science: Ships &amp; Boats: With 17 Easy-To-Do Experiments and 300 Exciting Pictures by Chris Oxlade</li> <li>Ships and Science: The Birth of Naval Architecture in the Scientific Revolution, 1600-1800 (Transformations: Studies in the History of Science as Challenger at Sea: A Ship That Revolutionized Earth Science by Kenneth J. Hsü</li> </ul>
Videos	• Ocean Exploration: Technology, National Geographic Society (https://education.nationalgeographic.org/resource/ocean-exploration)
	• Exploring History, NOAA Ocean Today (https://oceantoday.noaa.gov/exploringhistory/)
	• History of Oceanic Exploration, Maritime Museum San Diego (https://www.youtube.com/watch?v=a-UZ9pVE7PU&ab_channel=MaritimeMus

Activity/Service Project Suggestions	
Group Discussion	• As a club, discuss what kinds ofscience is done on boats • Discuss what roles are there on boats and if there are career options
Speaker Presenter	<ul> <li>Invite a crew member or member of a reseach vessel to talk about their vessels, their career, experiences.</li> <li>Invite a scientist who does ocean research to talk about conducting science at sea.</li> </ul>
Field Trip	• Schedule a trip to the Marine Center and take a cruise on the R/V Acadiana to experience boat-based research operations.
Activity	• Imagine a world where humans never explored the ocean with vessels. How much would we understand about earth? Do a pode
Virtual Tour	• Do a 360 degree tour of the R/V Pelican (https://roundme.com/tour/580514/view/1938032/)

e and Technology) by Larrie D. Ferreiro

1useumSanDiego)

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