



***R/V KEXUE (Research Vessel KEXUE)***

Official Website: [http://dept.qdio.cas.cn/lrio/xw/en/201606/t20160607\\_338171.html](http://dept.qdio.cas.cn/lrio/xw/en/201606/t20160607_338171.html)

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Marine Science Comprehensive Research Vessel is an important support platform for responding to China's increasingly needs of marine strategy, synchronizing the rapid development of international marine science, and enhancing the strength of national marine science and technology. The ship was completed in September 2012 and delivered at its home port in Qingdao, named "***R/V KEXUE***". This research ship was operated by the Institute of Oceanology, Chinese Academy of Sciences and will provide a state-of-the-art platform for researchers to address some of the world's most pressing environmental issues.

The "***R/V KEXUE***" has capabilities of global navigation and ice-strengthened, and meets the needs of unlimited navigation. The length of the ship is 99.8m with a breadth of 17.8m and a depth of 8.9m. The ship has a gross tonnage of 4711 and a range of 15,000 nautical miles. Accommodation aboard the vessel has 80 berths. The ship is driven by advanced podded electric propulsion system and two sets of bow thrusters. One-man-bridge operation provides almost 360° view over the entire vessel and surroundings. The engine control room is unmanned, and dynamic positioning system keeps the vessel within specified position and heading limits.

The Scientific Research Missions of "***R/V KEXUE***" include: Ocean circulation and climate change; Marine dynamic process and natural hazards; Deep-sea biological/gene resources and biodiversity; Ocean ecosystem and carbon cycle; Hydrothermal system in mid-ocean ridge and continental margins and deep earth processes; Formation mechanism of deep-sea oil and gas resources.

The shipboard scientific exploration and experimental equipments of "***R/V KEXUE***" include: Water Column Exploration System; Atmospheric Detection System; Seafloor Exploration System; Deep-sea Extreme Environment Exploration System; Remote Sensing Validation System; Shipboard Scientific Labs; Shipboard Network et al.