



新海研1號 研究船

R/V NEW OCEAN RESEARCHER 1

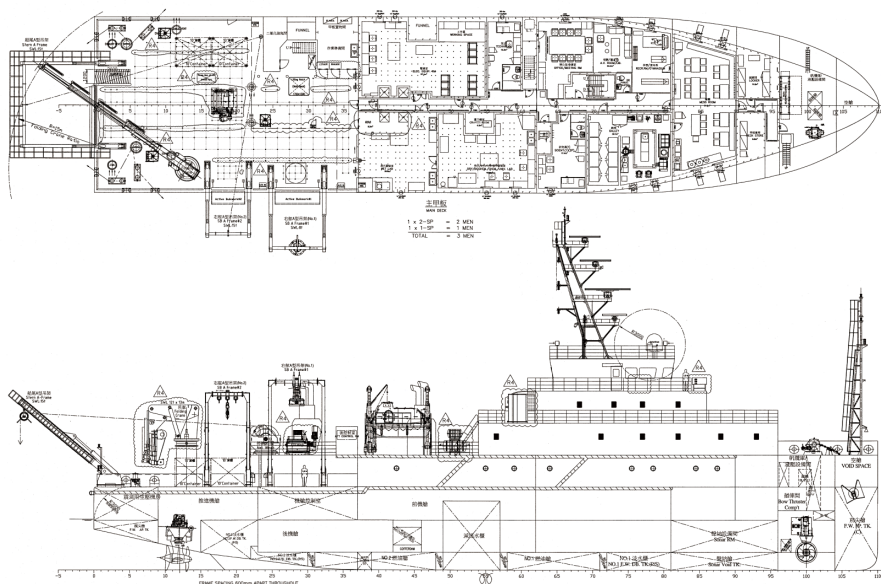
「新海研1號」由科技部委託台灣國際造船公司設計建造，歷時1年有餘，2020年7月交船，再由科技部移撥國立臺灣大學管理營運。「新海研1號」採電力推進，擁有精準定位的多音束測深、水文探測與海水採樣等系統，並有海流剖面、海床地貌與底質結構等先進的同步聲納探測設備，是一艘大洋級的多功能海洋研究船。「新海研1號」取代「海研一號」，承接我國海洋科學基礎研究與海洋國土永續發展的使命，航向藍海，放眼國際合作。



航行短片



船務室



船級	CR & ABS (公務船)
船型	研究船 (貨船證書)
建造船廠	CSBC 台船 (基隆廠)
管理章程	ISM code
總噸位 (GT)	2155 噸
船長 (L.O.A.)	66 m
船寬	14.8 m
吃水深	4.3 m
主推進器馬力	1200 kW×2
艙側推器	600 kW
動態定位系統	K-POS DP-11 IMO class 1 (DP1)
主發電機	850 kW×4
船速	巡航 12 節, 最高 > 14 節
續航力	6500 浬 (船速 12 節)
乘員	船員 19 人, 研究人員 28 人
都卜勒流剖儀 (ADCP)	Teledyne RDI OS 75 / 150 kHz
單音束科學漁探測深儀	Kongsberg EK80, 38/120/200 kHz
單音束深海測深儀	Kongsberg EA640, 12/38/200 kHz, > 6000 m
淺海多音束側深儀	Kongsberg EM2040, 0.7°×0.7°, 140°, 200-400 kHz, 0.5-600 m
深海多音束測深儀	Kongsberg EM304, 1°×1°, 150°, 26-34 kHz, 10-7000 m
底質剖面儀	Edgetech 3300, 1.5-12 kHz, > 5000 m
聲納運作同步器	K-SYNC
科學用船體運動感測器	MRU5 (科學用聲納儀器用) MRUD (船隻動態定位系統用)
水下定位系統 (SSBL)	Kongsberg HiPAP 502, 5000m
CTD 絞機及 A 架	鋼纜長 8000m
深海絞機	鋼纜長 10000m
可攜式絞機	鋼纜長 8000m
捲網絞機	1 具
多功能起重機	1 具
船首氣象塔	1 座

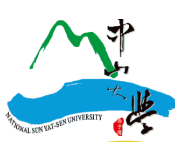


海研一號自1985年啟用以來已服役34年，總航跡逾112萬公里，遍布臺灣四周海域，為臺灣海洋科學研究帶來輝煌的貢獻，如今已為新海研1號取代，功成身退。



R/V NEW OCEAN RESEARCHER 1

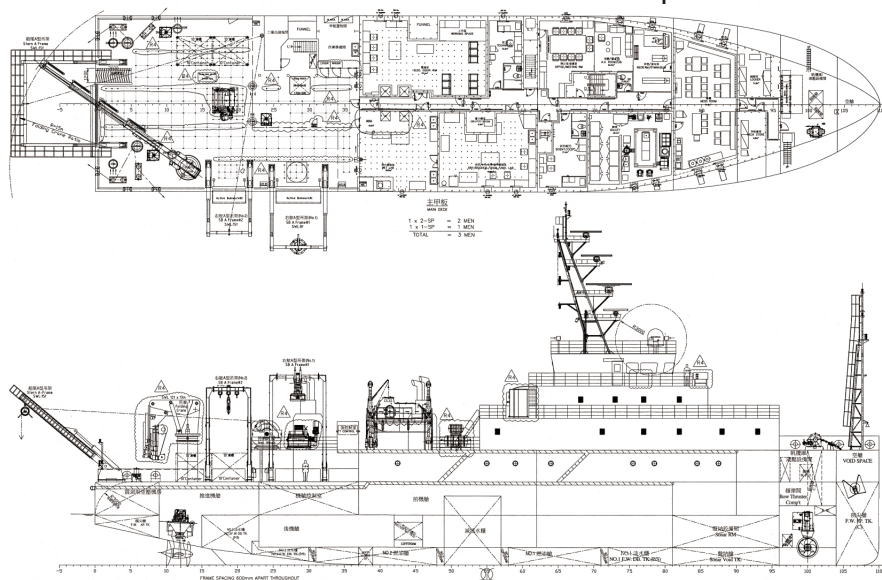
Commissioned by the Ministry of Science and Technology (MOST) of Taiwan, the new research vessel R/V New Ocean Researcher 1 was built by the CSBC Corporation, Taiwan. In May 2020, the shipbuilder delivered the vessel to the MOST. National Taiwan University was subsequently designated by the MOST to operate and manage the vessel. The R/V New Ocean Researcher 1 is a multifunctional and electrical power-propelled vessel equipped with advanced single- and multi-beam echo sounders, acoustic Doppler current profiler, sub-bottom profiler, synchronization unit for sonar systems, and hydrographic and seawater sampling systems. The R/V New Ocean Researcher 1 replaced the R/V Ocean Researcher I and continues the nation's missions of fundamental research in ocean sciences and sustainable development of the ocean with the ultimate goal of sailing to the blue sea and connecting to the world's oceanographic communities.



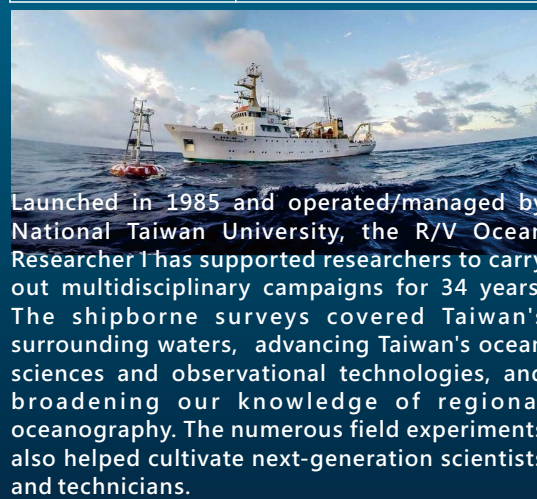
Ship video clip



Ship Affairs Office



Classification	CR & ABS (Official ship)
Vessel type	Research vessel (Cargo ship certificate)
Shipbuilder	CSBC Corp., Taiwan
Management code	ISM code
Gross tonnage (GT)	2155 tons
Length (L.O.A.)	66 m
Breadth	14.8 m
Draft	4.3 m
Main thruster power	1200 kW×2
Bow thruster	600 kW
Dynamic positioning	K-POS DP-11 IMO class 1 (DP1)
Main generator	850 kW×4
Ship speed	Transit: 12 kt, Max.: >14kt
Endurance	6500 nm at 12 kt
Accommodation	Crew: 19, Scientists: 28
Acoustic Doppler current profiler	Teledyne RDI OS 75 & 150 kHz
Single-beam echo sounder	Kongsberg EK80, 38/120/200 kHz
Deep sea single-beam echo sounder	Kongsberg EA640, 12/38/200 kHz, > 6000 m
Shallow water multi-beam echo sounder	Kongsberg EM2040, 0.7°×0.7°, 140°, 200-400 kHz, 0.5-600 m
Deep sea multi-beam echo sounder	Kongsberg EM304, 1°×1°, 150°, 26-34 kHz, 10-7000 m
Sub-bottom profiler	Edgetech 3300, 1.5-12 kHz, >5000 m
Sonar operation synchronizer	K-SYNC
Motion sensors	MRU5 (for scientific sonar instruments) MRUD (for DP system)
Underwater navigation system	Kongsberg HiPAP 502, 5000m
CTD winch and A-frame	Cabel length: 8000m
Deep sea winch	Cabel length: 10000m
Portable winch	Cabel length: 8000m
Net winch	1 set
Multifunction crane	1 set
Meteorological tower	1 set



Launched in 1985 and operated/managed by National Taiwan University, the R/V Ocean Researcher I has supported researchers to carry out multidisciplinary campaigns for 34 years. The shipborne surveys covered Taiwan's surrounding waters, advancing Taiwan's ocean sciences and observational technologies, and broadening our knowledge of regional oceanography. The numerous field experiments also helped cultivate next-generation scientists and technicians.