

The Scientific Committee on Oceanic Research (SCOR)

Advancing ocean sciences across disciplines and through international cooperation since 1957





Nighttime sampling – WG 143 on dissolved N₂O and CH₄ measurements: Intercomparison Cruise to the Baltic Sea on board the R/V Elisabeth Mann-Borghese, image by Damian L. Arévalo-Martínez.

Goals	Approach	Engagement
Address global ocean issues Plan and conduct research Solve methodological and conceptual problems Build capacity in developing countries	Support international Working Groups and large-scale Projects Engage SCOR National Committees - more than 30 Supported by SCOR National Committees, funding agencies and foundations Develop capacity - visiting scholar, fellowships, travel support International collaboration and partnerships - project offices supported by Australia, Canada, China, France, Germany, Japan, Netherlands, New Zealand, Poland, Sweden, UK, and USA	 Promotes equity, diversity, inclusion in oceans science Encourages and supports involvement of students and early career scientists Co-sponsor of the Ocean KAN (Knowledge Action Network) Contributor to the UN Decade Approved observer at the Intergovernmental Oceanographic Commission (IOC) and Intergovernment Panel on Climate Change (IPCC)
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SCOR Activities





Continue development of relationships between temperature and salinity of seawater outside the range of previously available equations Joint Committee on Seawater







Lab work onboard R/V Elisabeth Mann-Borghese, image by Michael Glockzin. Clean container laboratory on board GEOTRACES cruise GP13, image by Melanie Gault-Ringold, Taryn Noble and Andy Bowie

SCOR community

668 people from 61 countries active in 2023

From the field to the lab, from data analysis to global synthesis – building capacity at every step of the way



From left to right: (1) Sea-glider deployment from South African Agulhas II on voyage to the Southern Ocean, image by Emma Bone; (2) Deployment of CTD Rosette System from South African vessel Agulhas in the Southern Ocean, image by Seb Swart; (3) Retrieving the Continuous Plankton Recorder (CPR) from the Aurora Australis in Eastern Antarctica, image by the Australian Antarctic Division; (4) The Southern Ocean Carbon and Climate Observatory (SOCCO) scientists at work, image by Sandy Tomalla; (5) Vertical Multiple-opening Plankton Sampler (VMPS) collecting plankton for metabarcoding up to 1000 m depth for Working Group 157 MetaZooGene, image by Junya Hirai.





From left to right: (1) Measuring photosynthetic activity on board the R/V L'Atalante, TONGA cruise across the South Pacific Gyre, image by Hubert Bataille; (2) Getting silk from the Continuous Plankton Recorder (CPR) cassette on board of the RV Investigator. The silk shows a phytoplankton bloom on the Eastern Coast of Australia (Melbourne to Sydney Transit), image by Julian Uribe-Palomino; (3) Filtration stand for phytoplankton community characteristics (with student instructions), image by Sandy Tomalla; (4) USCGC Healy and RV Polarstern historical meeting at the North Pole on a GEOTRACES crossover station, image by Stefan Hendricks; (5) A subsample of particles after trawling a Manta net in surface waters in the Southern Mediterranean in 2013. Tiny coloured plastic fragments are visible in the Petri dish, image by Giuseppe Suaria; (6) Inter-comparison exercise for cross-instrument calibration/standardization of chlorophyll induction fluorometer to assess phytoplankton primary production in real time non-invasively, image by Chelsea Technologies Group – Kevin Oxborough.



From left to right: (1) Getting ready to deploy a GO-FLO-CTD for trace metal sampling in the Southern Ocean, onboard SA Agulhas II, image by Raimund Rentel; (2) Glider deployment from South African vessel Agulhas II in the Southern Ocean, image by Seb Swart; (3) IOCCP 2019 Training Course in Kristineberg, Sweden, image by Nancy Williams; (4) SOLAS Summer School 2018 in Corsica, France, image by SOLAS; (5) Working Group 159 (DeepSeaDecade) discussing a roadmap for a standardised global approach to deep-sea biology for the Decade of Ocean Science for Sustainable Development at their first meeting at the University of Aveiro, Portugal, image by Kerry Howell; (6) Virtual meeting of Working Group 158 (C-GRASS) aimed to complete a scientific synthesis of the drivers and trajectories of seagrass ecosystems under global change, and to provide a framework for future coordinated observation and research on seagrass systems, image by Jessie Jarvis.