The Scientific Committee on Oceanic Research (SCOR)

Advancing ocean sciences across disciplines and through international cooperation since 1957

Nighttime sampling – WG 143 on dissolved N_2O and CH_4 measurements: Intercomparison Cruise to the Baltic Sea on board the R/V Elisabeth Mann-Borghese, image by Damian L. Arévalo-Martínez.

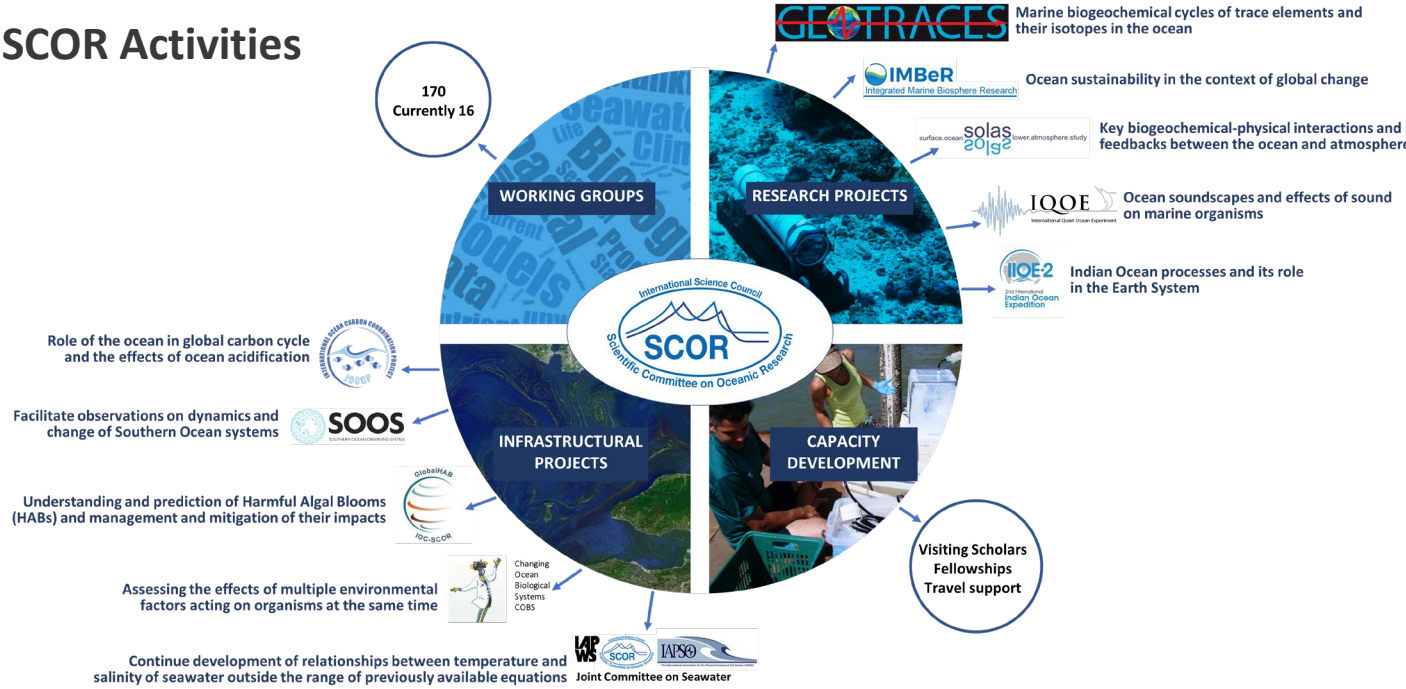
The Scientific Committee on Oceanic Research (**SCOR**) is an international non-governmental and non-profit organization promoting international cooperation in **ocean science**.

The mission of SCOR is to address **global and multidisciplinary ocean issues**, plan and conduct **oceanographic research**, solve **methodological and conceptual problems**, and conduct several different activities to **build capacity** for ocean science.

SCOR promotes **equity, diversity, inclusion** in oceans sciences, and encourages and supports involvement of **students** and **early career** scientists.

In more than 60 years, **SCOR** has significantly contributed to **shape modern oceanography** by **co-establishing and supporting several large-scale projects** such as the International Indian Ocean Expedition (IIOE), the World Ocean Circulation Experiment (WOCE), the Tropical Ocean-Global Atmosphere Study (TOGA), the Global Ocean Ecosystem Dynamics (GLOBEC), the Joint Global Ocean Flux Study (JGOFS), and the Global Ecology and Oceanography of Harmful Algal Blooms (GEOHAB). More than 2400 scientists have been involved in SCOR activities representing all five continents.

SCOR Activities



In addition, InterRidge and the International Ocean Color Coordinating Group (IOCCG) are projects affiliated to SCOR.

Revised February 2024

SCOR active Working Groups

Physical oceanography

WG-148: IQuOD (2015)
International Quality Controlled Ocean Database: Subsurface temperature profiles
WG-153: FLOTSAM (2017)
Floating Litter and its Oceanic TranSport Analysis and Modelling
WG-160: ATOMIX (2020)
Analysing ocean turbulence observations to quantify mixing

Chemical oceanography

WG-167: RUSTED (2022)
Reducing Uncertainty in Soluble aerosol Trace Element Deposition

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Biological oceanography

WG-157: MetaZooGene (2018)
Toward a new global view of marine zooplankton biodiversity based on DNA metabarcoding and reference DNA sequence databases
WG-158: C-GRASS (2019)
Coordinated Global Research Assessment of Seagrass System
WG-164: CoNCENSUS (2021)
Advancing standardisation of COastal and Nearshore demersal fish visual CENSUS techniques
WG-165: MixONET (2021)
Mixotrophy in the Oceans – Novel Experimental designs and Tools for a new trophic paradigm
WG-169 GLUBS (2023)
Global Library of Underwater Biological Sounds
WG-170 PRIMO (2023)
Physiology and Rates in Microbial Oceanography

Biogeochemical oceanography

WG-161: ReMO (2020)
Respiration in the Mesopelagic Ocean: Reconciling ecological, biogeochemical and model estimates
WG-162: OASIS (2020)
Developing an Observing Air-Sea Interactions State
WG-163: Clce2Clouds (2021)
Coupling of ocean-ice-atmosphere processes: from sea-Ice biogeochemistry to aerosols and Clouds
WG-166: DMS-PRO (2022)
Developing resources for the study of Methylated Sulfur compound cycling PROcesses in the ocean
WG-168 4D-BGC (2023)
Coordinating the development of gridded four-dimensional data products from biogeochemical-Argo observations

From the field to the lab, from data analysis to global synthesis – SCOR develops capacity in ocean science 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) 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.

SCOR is a Thematic Organization of the International Science Council and a contributor to the UN Decade of Ocean Science for Sustainable Development

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