SCOR Activities

Goals
- Address global ocean issues
- Plan and conduct research
- Solve methodological and conceptual problems
- Build capacity in developing countries

Approach
- 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 scholars, fellowships, travel support
- International collaborations and partnerships - project offices supported by Australia, Canada, China, France, Germany, Japan, Netherlands, New Zealand, Poland, Sweden, UK, and USA

Engagement
- Promotes equality, diversity, inclusion in oceans sciences
- Encourages and supports involvement of students and early career scientists
- Co-sponsor of the Ocean EHW (Knowledge Action Network)
- Contributor to the UN Decade - Approved observer at the Intergovernmental Oceanographic Commission (IOC) and Intergovernmental Panel on Climate Change (IPCC)

https://scor-int.org/ @SCOR_Int Public Group secretariat@scor-int.org

From left to right: (1) Measuring photosynthetic activity on board the R/V L’Atalante, TONGA cruise across the South Pacific, image by Stefan Hendricks; (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 Vonk; (3) Inter-comparison exercise for cross-instrument phytoplankton primary production in real time non-invasively, image by Sandra Tomalla; (4) USCGC Healy and RV Polarstern historical meeting at the North Pole on a GEOTRACES crossover station, image by Stefan Hendricks; (5) Formation and evolution of the Oceanic Crust and its interaction with the ocean, biosphere, climate and human society, image by Paolo Biscaye; (6) Virtual meeting of Working Group 158 (C-GRASS) aimed to complete a scientific synthesis of marine biogeochemical cycles of trace elements and their isotopes in the ocean, image by Junya Hirai.

Lab work onboard R/V Elisabeth Mann-Borghese, image by Michael Gosdzik

Clean container laboratory on board GEOTRACES cruise GP13, image by Malgorzata Gąslik-Rząpków, Taryn Noble and Andy Bowk

SCOR community

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 Sab 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 net-based up to 3500 m depth for Working Group 157 MetaZooGene, image by Janege Nitu.

From left to right: (1) Measuring photosynthetic activity on board the R/V L’Atalante, TONGA cruise across the South Pacific, image by Hubert Bailleul; (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 Vonk; (3) Filtration stand for phytoplankton community characteristics (with student instructions), image by Sandy Tomalla; (4) UCGC 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 (HABs) and management and mitigation of their impacts, image by Giuseppe Suaria; (6) Inter-comparison cruise to the Baltic Sea on board the R/V Elisabeth Mann-Borghese, image by Damian L. Arevalo-Martinez.

Nighttime sampling – WG 143 on dissolved N2O and CH4 measurements: image by Damian L. Arevalo-Martinez.

Goals
- Role of the ocean in global carbon cycle and the effects of ocean acidification
- Continue development of relationships between temperature and salinity

Approach
- Assessing the effects of multiple environmental factors acting on organisms at the same time
- Understanding and prediction of Harmful Algal Blooms (HABs) and management and mitigation of their impacts

Engagement
- Building capacity at every step of the way
- Solve methodological and conceptual problems
- Plan and conduct research
- Address global ocean issues

Shaping modern oceanography

Past projects:
- International Indian Ocean Expedition (IOE)
- World Ocean Circulation Experiment (WOCE)
- Tropical Ocean-Global Atmosphere Study (TOGA)
- Global Ocean Ecosystem Dynamics (GOEWD)
- Joint Global Ocean Flux Study (JGOFS)
- Global Ecology and Oceanography of Harmful Algal Blooms (GEOHAB)
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