



The Scientific Committee on Oceanic Research (SCOR) UN Ocean Decade Activities

US National Committee for the UN Ocean Decade Meeting
8 October 2025



**International
Science Council**

Emily Twigg, Executive Director

Developing capacity and advancing ocean sciences through international cooperation since 1957



Mission

- Address **global and interdisciplinary ocean issues**
 - Plan and facilitate **research** – working groups and projects
 - Solve **methodological and conceptual problems**
 - **Develop capacity** - visiting scholars, fellowships, travel support
 - Encourage and support involvement of **students** and **early-career** scientists
-
- **Non-governmental, non-profit organization**
 - **Established in 1957 under the International Council for Scientific Unions, now the International Science Council**
 - **Funded by membership contributions of national SCOR committees and from national and international agencies and organizations, including host institutions for the project IPOs.**

SCOR Activities

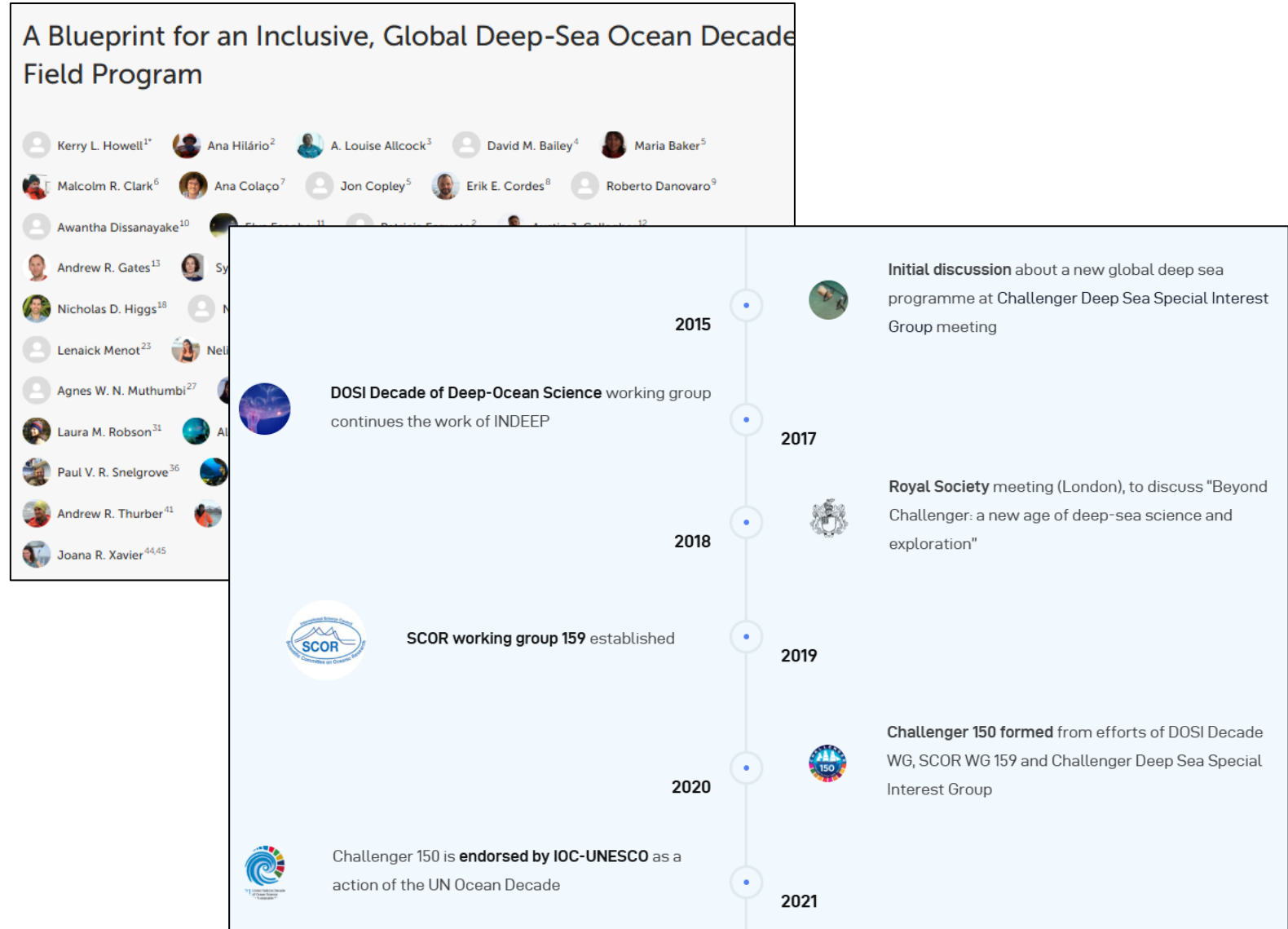


SCOR-UN Ocean Decade: Endorsed Programmes

WG 159 DeepSeaDecade: Roadmap for a Standardised Global Approach to Deep-Sea Biology for the Decade of Ocean Science for Sustainable Development.

- Contributed to the planning stage & served as initial steering committee for UN Ocean Decade Endorsed Programme [Challenger 150](#).
- Concluded as a SCOR WG in 2023.

A global plan, standards, and network for survey/sampling deep-sea ecosystems to underpin deep-sea research.




SCOR-UN Ocean Decade: Endorsed Programmes

WG 162 [OASIS](#) Developing an Observing Air-Sea Interactions Strategy (Concluded as a SCOR WG March 2025)

Initiated and sought endorsement as a SCOR working group.

Developed a unified Observing Air-Sea Interaction Strategy and community harmonized from OceanObs'19 white papers.

Developing an Observing Air–Sea Interactions Strategy (OASIS) for the global ocean

M F Cronin , S Swart, C A Marandino, C Anderson, P Browne, S Chen, W R Joubert, U Schuster, R Venkatesan, C I Addey ... [Show more](#)

[Author Notes](#)



COHORT 1

A Global Network of Surface Platforms for the Observing Air-Sea Interactions Strategy (OASIS)

Authors: Jaime Palter and Megan Cronin

Air-Sea exchanges of energy, moisture, and gases drive the earth's climate. These interactions influence weather, carbon dioxide distribution, marine life, and human life. OASIS seeks to create a coordinated, multidisciplinary network to observe ocean-atmosphere exchange.

[WATCH THE PRESENTATION →](#)

COHORT 1

Super Sites for Advancing Understanding of the Oceanic and Atmospheric Boundary Layers

Authors: Carol Anne Clayson, Santha Akella, Stace Beaulieu, Alex Bocconcelli, Bia Villas Boas, Mark Bourassa, Luca Centurioni, Meghan Cronin, James Edson, Chris Fairall, Tom Farrar, Sarah Gille, Juliet Hermes, Seiji Kato, Matthew Mazloff, Frank Muller-Karger, Tony Lee, Christa Marandino, Jaime Palter, Rhys Parfitt, Nadia Pinardi, Laura Riihimäki, Chris Sabine, Hyodae Seo, Shawn Smith, Paul Stackhouse, Adrienne Sutton, Sebastian Swart, Elizabeth Thompson, Hiroyuki Tomita, John Toole, Doug Vandemark, Weidong Yu, Christopher Zappa, Chidong Zhang, Dongxiao Zhang, Seth Zippel

We propose the concept of “Super Sites” to provide multi-year suites of measurements at specific locations to simultaneously characterize physical and biogeochemical processes within the coupled boundary layers at high spatial and temporal resolution. Measurements will be made from floating platforms, buoys, towers, and autonomous vehicles, utilizing both in situ and remote sensors.

[DOWNLOAD \(PPTX, 24.9 MB\) →](#)

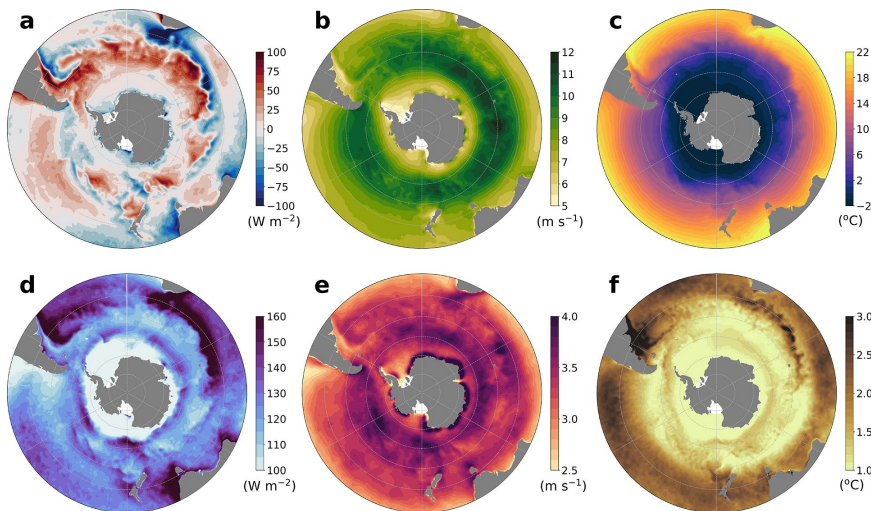
SCOR-UN Ocean Decade: Endorsed Projects

IQOE Low-Cost Hydrophone Task Group – UN Ocean Decade Endorsed Project hosted under the Ocean Decade Research Programme on the Maritime Acoustic Environment

Advancing marine bioacoustics through affordable technology



Lucille Chapuis @ UN Ocean Conference



Patterns of air-sea heat flux, wind speed, and sea surface temperature. From Prend et al. (2025) Observing system requirements for measuring high-frequency air-sea fluxes in the Southern Ocean

SOOS Southern Ocean Flux Capability Working Group (SOFLUX) – UN Ocean Decade Endorsed Project hosted under the UN Ocean Decade Endorsed Programme **OASIS**
Facilitates the implementation of an observing system of EOVS to investigate change in Southern Ocean air-sea fluxes

SCOR-UN Ocean Decade: Endorsed Projects

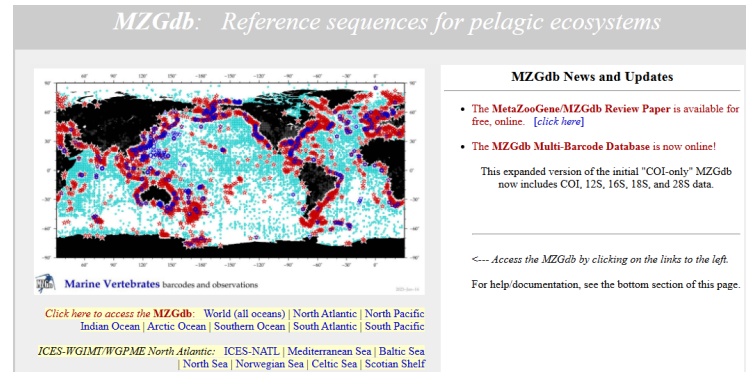
WG 145 Modelling Chemical Speciation in Seawater to Meet 21st Century Needs ([MarChemSpec](#)) (Disbanded as a WG in 2022) → **JCS Chemical Speciation Taskgroup** – UN Ocean Decade Endorsed Project hosted under the OARS Programme
Provision of state-of-the-art, user-friendly software for chemical speciation calculations

WG 157 Toward a new global view of marine zooplankton biodiversity based on DNA metabarcoding and reference DNA sequence databases ([MetaZooGene](#)) (Disbanded as SCOR WG in 2024) – UN Ocean Decade Endorsed Project hosted under the Marine Life 2030 Programme
Metabarcoding zooplankton diversity

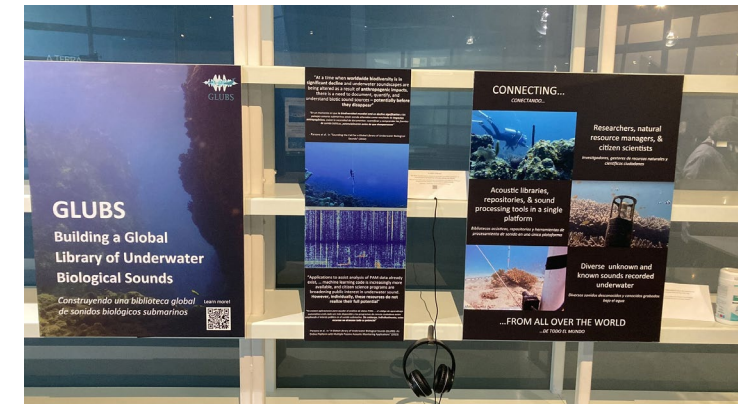
WG 169 Global Library of Underwater Biological Sounds ([GLUBS](#)) (also an IQOE activity) – UN Decade Endorsed Project hosted under the Ocean Decade Research Programme on the Maritime Acoustic Environment
Open-access platforms to assist in analysis of passive acoustic monitoring data



MarChemSpec



MetaZooGene Atlas & Database



GLUBS @ UN Ocean Decade Conference

SCOR-UN Ocean Decade: Endorsed Contribution

GEOTRACES – UN Ocean Decade Contribution to the Decade Coordination Office for Ocean Data Sharing
Developing a global dataset on marine biogeochemical cycles and distribution of trace elements and their isotopes

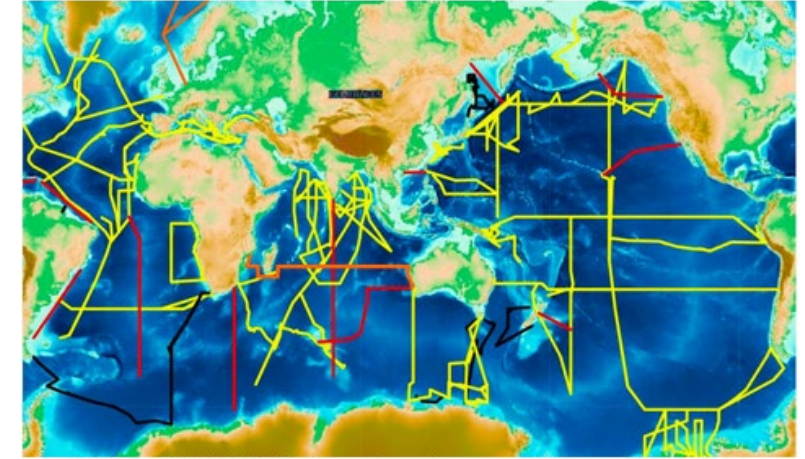
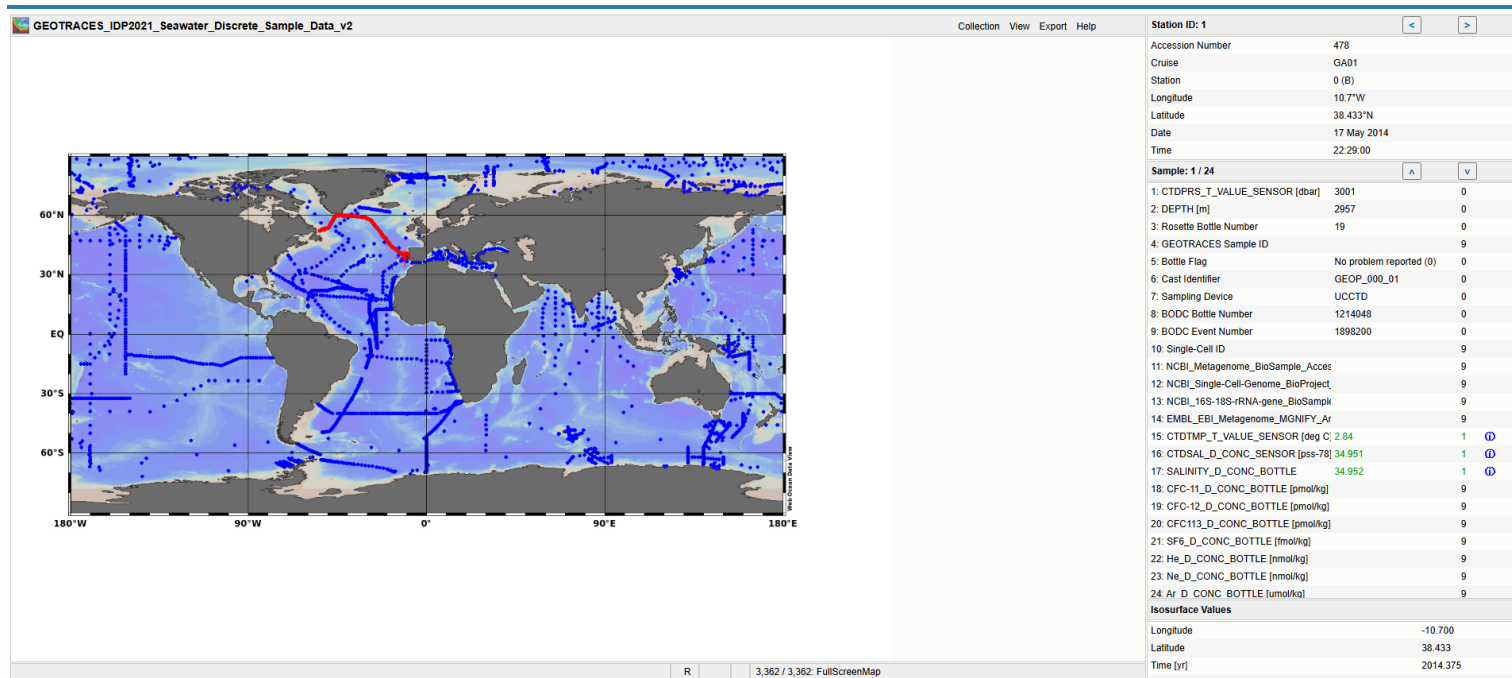




Figure 1. Status of GEOTRACES global survey of trace elements and their isotopes. In black: Sections completed as the GEOTRACES contribution to the International Polar Year. In yellow: Sections completed as part of the primary GEOTRACES global survey. In orange: Sections completed during the past year. In red: Planned Sections. An interactive cruise map is available at the following website: https://www.bodc.ac.uk/geotraces/cruises/section_maps/interactive_map/




Ocean Decade
Data Sharing


Decade
Cooperation
2020-2030

With the support of:






GEOTRACES
A Global Program of the International Ocean Discovery Program
OFFICE OF TACEL, EUMARCO, AND THEIR SUPPORT



SCOR
SOCIETY FOR COASTAL OCEANOGRAPHY
FOUNDED IN 1962


Join us in our next webinar!




**MAY
7th**


**4:00 PM CET
(10:00 AM ET)**

- **Boosting Data Sharing in the Ocean Decade**
- The **GEOTRACES** experience with data sharing

Register using the link in the description 



unesco
United Nations
Educational, Scientific and
Cultural Organization



2020-2030 United Nations Ocean
Decade
Sustainable Development
Goal 14: Life Below Water

SCOR-UN Ocean Decade: Endorsed Activities (Events)



Summer Schools



Conferences



SCOR-UN Ocean Decade: Partnering Organizations



Southern Ocean Observing System (SOOS), as Member of the Southern Ocean Task Force:

- Contributed to the [Southern Ocean Action Plan 2021-2030](#)

An initial roadmap to strengthen links between science, industry and policy, and encourage internationally collaborative activities to address existing knowledge and data gaps

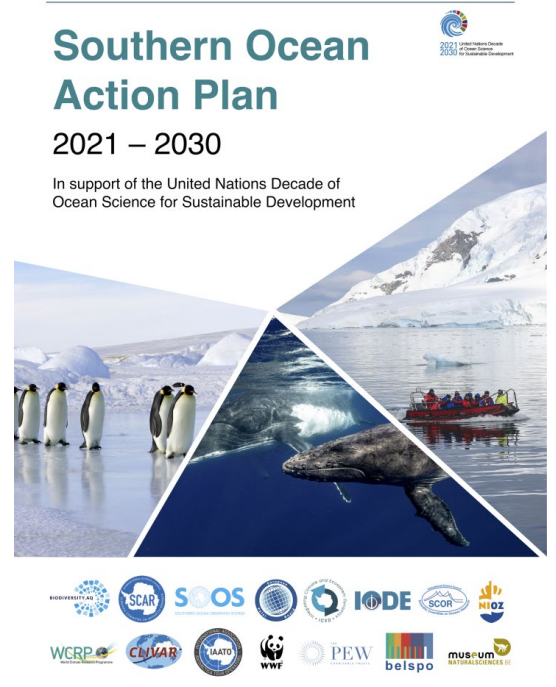
- Contributes to the [Decade Collaborative Centre for the Southern Ocean Region](#)

Coordinates international efforts to protect and conserve the Southern Ocean.

Also,

- Contributes to UN Ocean Decade Endorsed Programme [Antarctica InSync](#)

Addresses the need for large, collaborative and synchronous observation across the Antarctic ocean, land and atmosphere



Lead institution:

Alfred Wegener Institute, Helmholtz Center for Polar and Marine Research – Germany

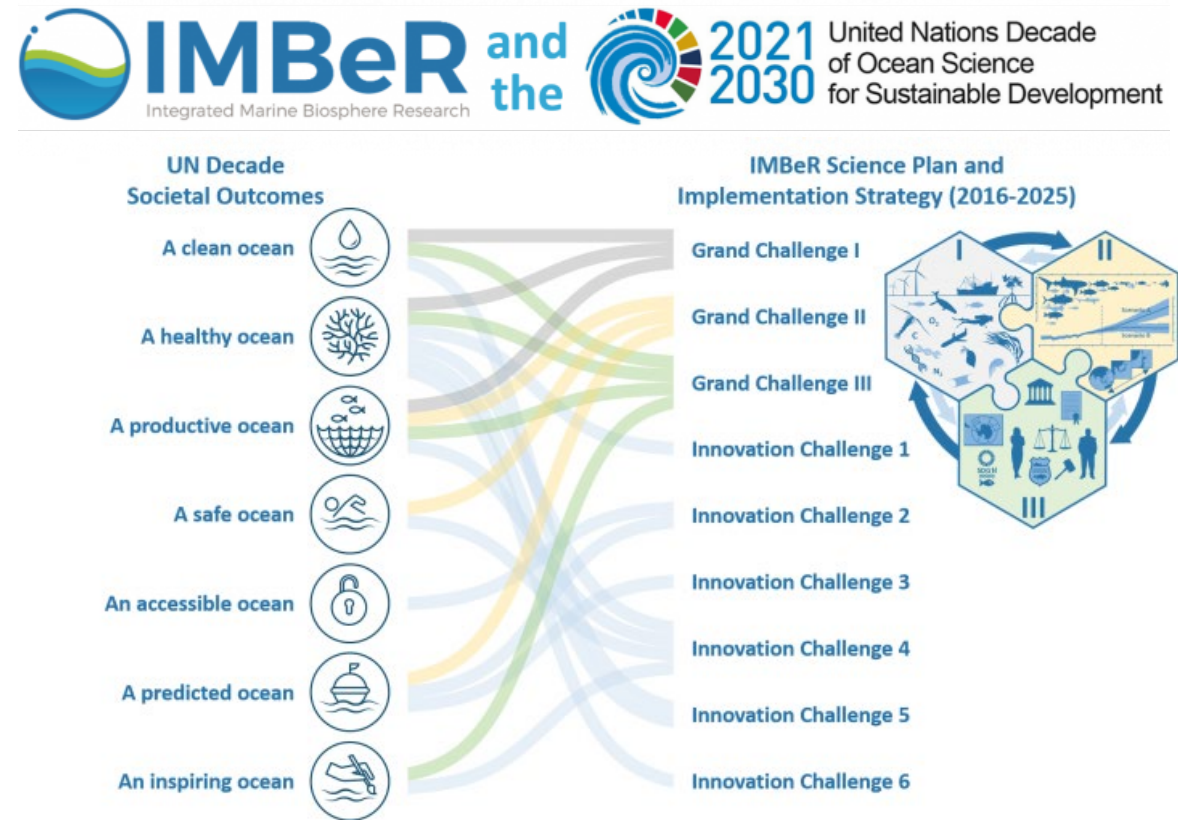
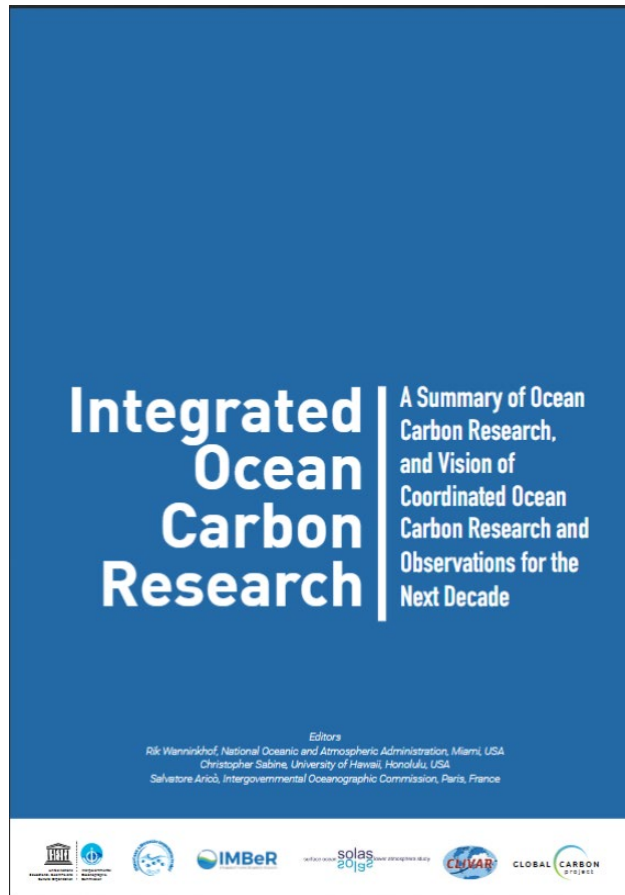
Antarctica International Science & Infrastructure for Synchronous Observation (Antarctica InSync) addresses the need for large, collaborative and synchronous observation, to generate data and knowledge to understand, protect and sustainably manage the Southern Ocean and Antarctica including ocean, land and atmosphere.

Institutions operating polar infrastructure assembled in COMNAP will be asked to coordinate actions to the programme. The preparatory phase will happen in 2024-2026, establishing alliances, working groups with stakeholders, logistic teams and a framework of collaboration including FAIR data management. The implementation phase with fieldwork and synthesis will be in 2027-2030.

Through community activities, **SOOS, SCOR and SCAR** have already described many key challenges, questions and needs for research to decipher the drivers, impacts and feedback mechanisms of this key region with the global ocean.



SCOR-UN Ocean Decade: Other Contributions



SCOR-UN Ocean Decade: Engaging with ECOPs



ECOP Programme webinar series

Episode 21:

Capacity Development Opportunities for ECOPs with POGO and SCOR

Join us to explore how Early Career Ocean Professionals can connect with **SCOR** and **POGO**—two leading organizations advancing international collaboration in ocean science and observation.

Discover how they support global research, foster capacity building, and create exciting opportunities for ECOPs to get involved and make an impact.

Wednesday, 23 April 15:00 CEST / 13:00 UTC

Register here:

<https://tinyurl.com/webinar-21>



[Webinar link](https://tinyurl.com/webinar-21)



SCOR Survey for Early-Career Scientists

Provide your input:

Improve SCOR's reach to early-career ocean scientists.

Define SCOR's role in encouraging early-career scientist career development.



<https://www.surveymonkey.com/r/SCOR-ECOP>

Thank You!



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