The Scientific Committee on Oceanic Research (SCOR)

Update for Ocean Studies Board Meeting

1 May 2025

Emily Twigg, Executive Director

International Science Council

Developing capacity and advancing ocean sciences through international cooperation since 1957

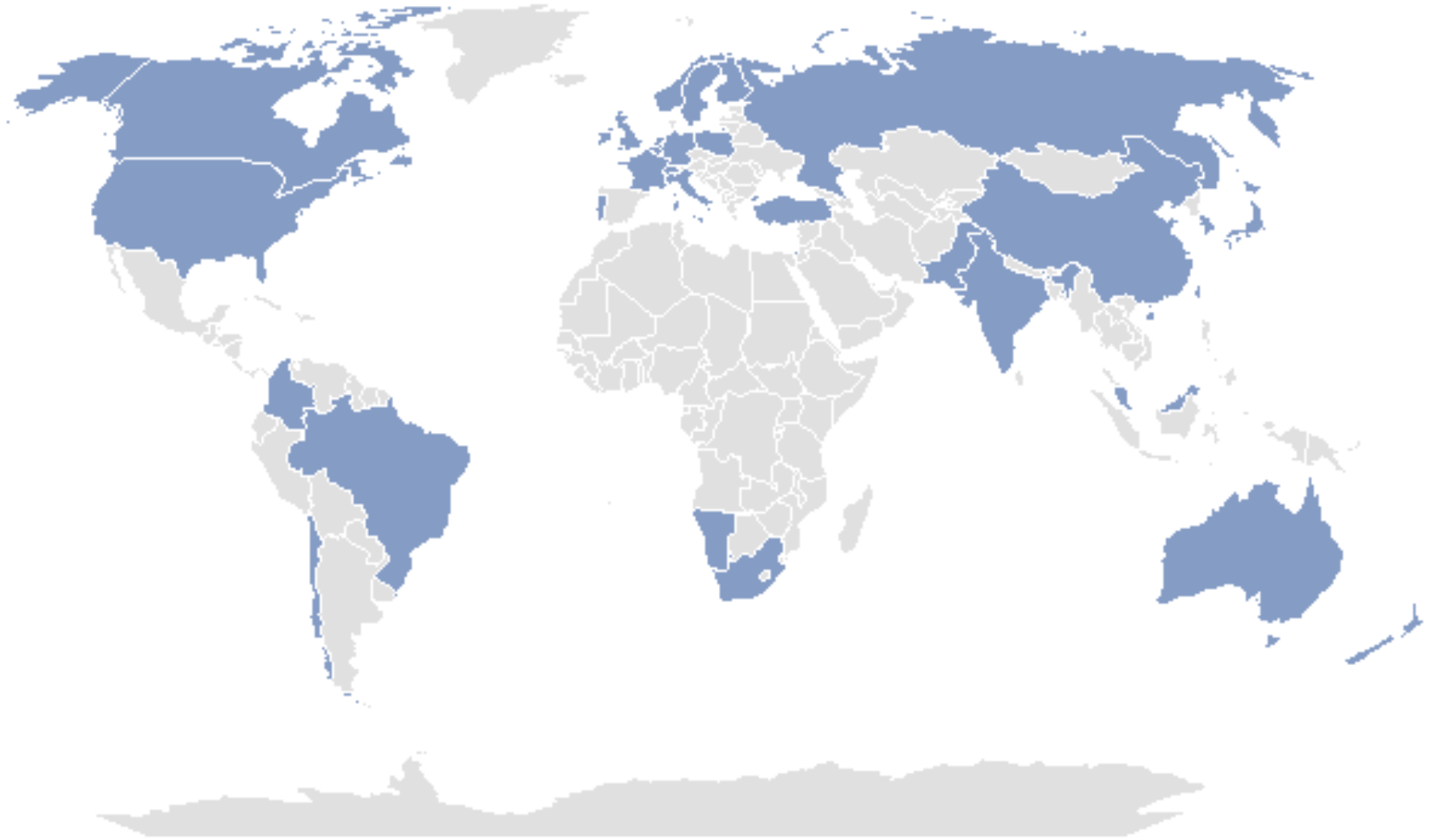
Mission

- 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.**

32 SCOR National Committees

Australia	Korea
Belgium	Malaysia
Brazil	Namibia
Canada	Netherlands
Chile	New Zealand
China-Beijing	Norway
China-Taipei	Pakistan
Colombia	Poland
Finland	Portugal
France	Russia
Germany	South Africa
India	Sweden
Ireland	Switzerland
Israel	Turkey
Italy	United Kingdom
Japan	United States



SCOR National Committees

- Fund SCOR through national dues
- Be composed of scientists reflective of the diversity of institutions and expertise of the country
- Conduct annual review of working group proposals
  - Including suggestions for additional members
- Send representative (in person or online) to annual SCOR meeting
  - Provide oversight to ongoing SCOR activities
- Nominate Executive Committee members, ad hoc finance committee members, nominating committee members
- Disseminate news and opportunities about SCOR nationally
- Host SCOR annual meetings

➢Nominated members serve as point of contact with SCOR

Executive Committee 2024-2026

President

Paul Myers
Canada

Past-President

Sinjae Yoo
Korea

Secretary

Peter Croot
Ireland

The Vice-Presidents

Yukio Masumoto
Japan

Ilka Peeken
Germany

Constanza Ricaurte
Colombia

The scientific organizations – Ex-officio

Judith Gobin
Trinidad and Tobago, IABO

Andrea Flossmann
France, IAMAS

Hans van Haren
The Netherlands, IAPSO

The co-opted members

Kai Deng
China

Hilkka Ndjaula
Namibia

Capacity Development Committee

Chair: Rebecca Zitoun (Australia)

- Sanae Chiba (Canada)
- Mauro Cirano (Brazil)
- Ebenezer Nyadjro (USA)
- Nubi Olubunmi Ayoola (Nigeria)
- Moagabo Ragoasha (South Africa)
- Sazlina Salleh (Malaysia)
- Viena Puigcorbé (Spain)
- Paula Sierra (Colombia)
- Dale Webber (Jamaica)
- Sun Xiaoxia (China-Beijing)

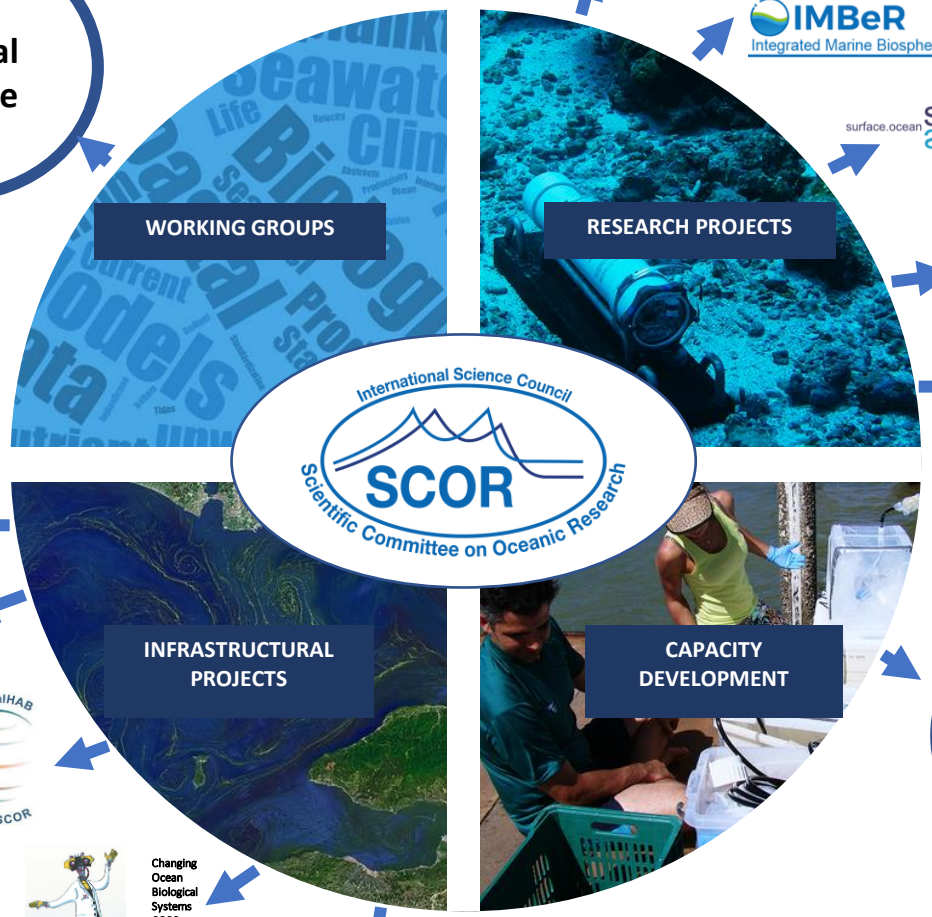
Secretariat:

- **Hosted by University of Delaware CEOE since 2007**
- **Executive Director:** Emily Twigg
- **Financial Consultant:** Ed Urban (former Executive Director)

2025 Annual Meeting

- Santa Marta, Colombia
- 29-31 October 2025
- 28 October: Event with Colombian early-career scientists
- *More information available soon*

SCOR Activities



172 Total
13 Active

GEOTRACES

IMBeR Integrated Marine Biosphere Research

Integrated Marine Biosphere Research (IMBeR) project

surface.ocean solas lower.atmosphere.study

Surface Ocean-Lower Atmosphere Study (SOLAS)

IQOE International Quiet Ocean Experiment

International Quiet Ocean Experiment (IQOE)

IIOE-2 2nd International Indian Ocean Expedition

Second International Indian Ocean Expedition (IIOE-2)

International Ocean Carbon Coordination Project (IOCCP)

Southern Ocean Observing System (SOOS)

SOOS SOUTHERN OCEAN OBSERVING SYSTEM

Global Harmful Algal Blooms (GlobalHAB)

GlobalHAB IOC-SCOR

Changing Ocean Biological Systems (COBS)

Changing Ocean Biological Systems COBS

Joint Committee on Seawater (JCS)

JCOMMS SCOR IAPSO

Joint Committee on Seawater

-Visiting Scholars
-Fellowships
-Travel support
-Research Discover Camp

AFFILIATED PROJECTS

iCCG International Ocean Colour Coordinating Group

SCOR Working Groups

https://scor-int.org/work/groups/

Chemical oceanography

WG-167: RUSTED (2022)
Reducing Uncertainty in Soluble aerosol Trace Element Deposition
WG-171: MASIS (2024)
Towards best practices for Measuring and Archiving Stable Isotopes in Seawater

Physical oceanography

WG-160: ATOMIX (2020)
Analysing ocean turbulence observations to quantify mixing
WG-172: SALTWATER (2024)
Oceanic Salt Intrusion into Tidal Freshwater Rivers

Biological oceanography

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-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

- **Mechanisms for international cooperation around a focused topic**
- **$45k USD over a duration of 3-4 years**
- **10 Full and 10 Associate members**
- **Must be geographically balanced and include early-career researchers**
- **Proposals due annually in April/May**

Call for New SCOR Working Group Proposals

WG 157 MetaZooGene 2024 Meeting

Working groups receive funding from SCOR to support international cooperation to address a focused topic in the ocean sciences.

Submit proposals by 16 May 2025

SCOR Working Group Proposal Template REVISED February 2025

SCOR Working Group Proposal Instructions and Frequently Asked Questions REVISED February 2025

Working Group Proposal Review

- Timeliness
- Priority for ocean science and SCOR
- Appropriateness for SCOR
- Appropriateness of Terms of Reference (objectives)
- Appropriateness of Membership
- Other comments

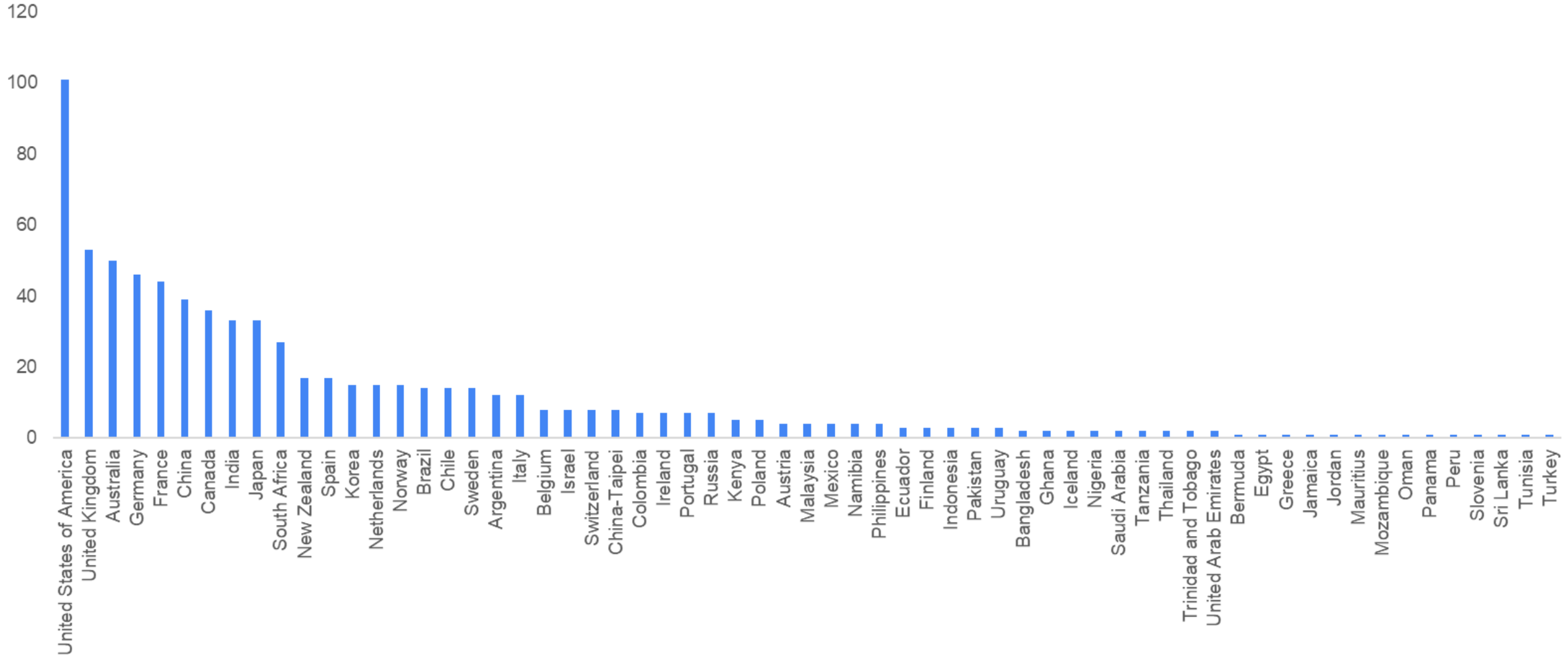
1. Rating: “Must Fund” (max 3), “May Fund,” “Do Not Fund”
2. Ranking

Opportunities to be Involved with SCOR

- Scientists can be involved in SCOR activities regardless of national membership
- Propose a new working group
- Apply for capacity development opportunities
- Engage with projects and working groups
  - Join project Scientific Steering Committee or subcommittees (early career, technical)
  - Join national networks
  - Participate in webinars, workshops, open science meetings
  - Subscribe to email lists to learn about specific opportunities
- Apply for 2-year early-career member position on SCOR Executive Committee
  - New selections in even-numbered years

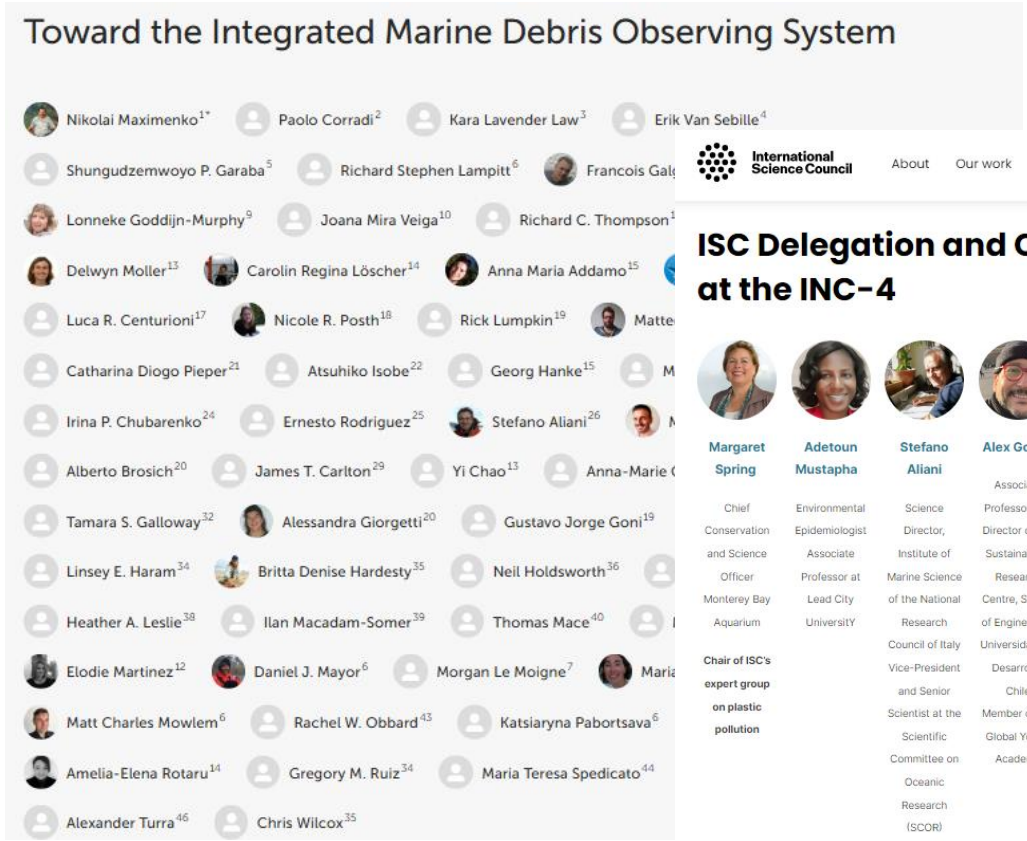
Scientist Involvement in SCOR by Country- 2024

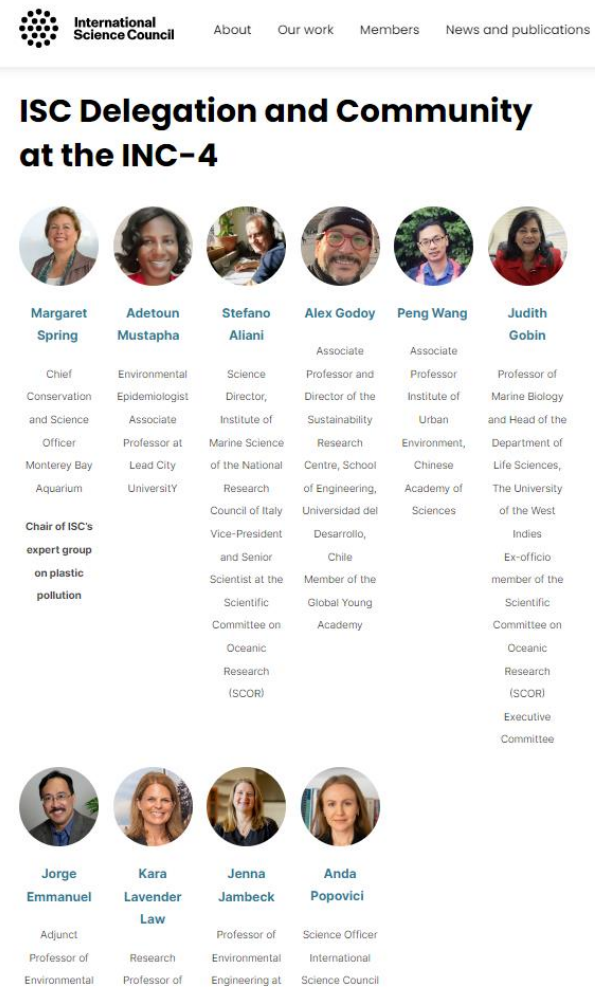
Data from Feb 2025



WG 153 FOTSAM: Floating Litter and its Oceanic TranSport Analysis and Modelling: Concluded April 2024

- **Chair:** Stefano Aliani (Italy)
- **Vice Chairs:** Nikolai Maximenko (USA), Kara Lavender Law (USA), and Erik van Sebille (Netherlands)
- http://scor-flotsam.it/
- 8 publications acknowledging SCOR
- Contributed to creation of the Integrated Marine Debris Observing System
- Contributed to Intergovernmental Negotiating Committee on Plastic Pollution

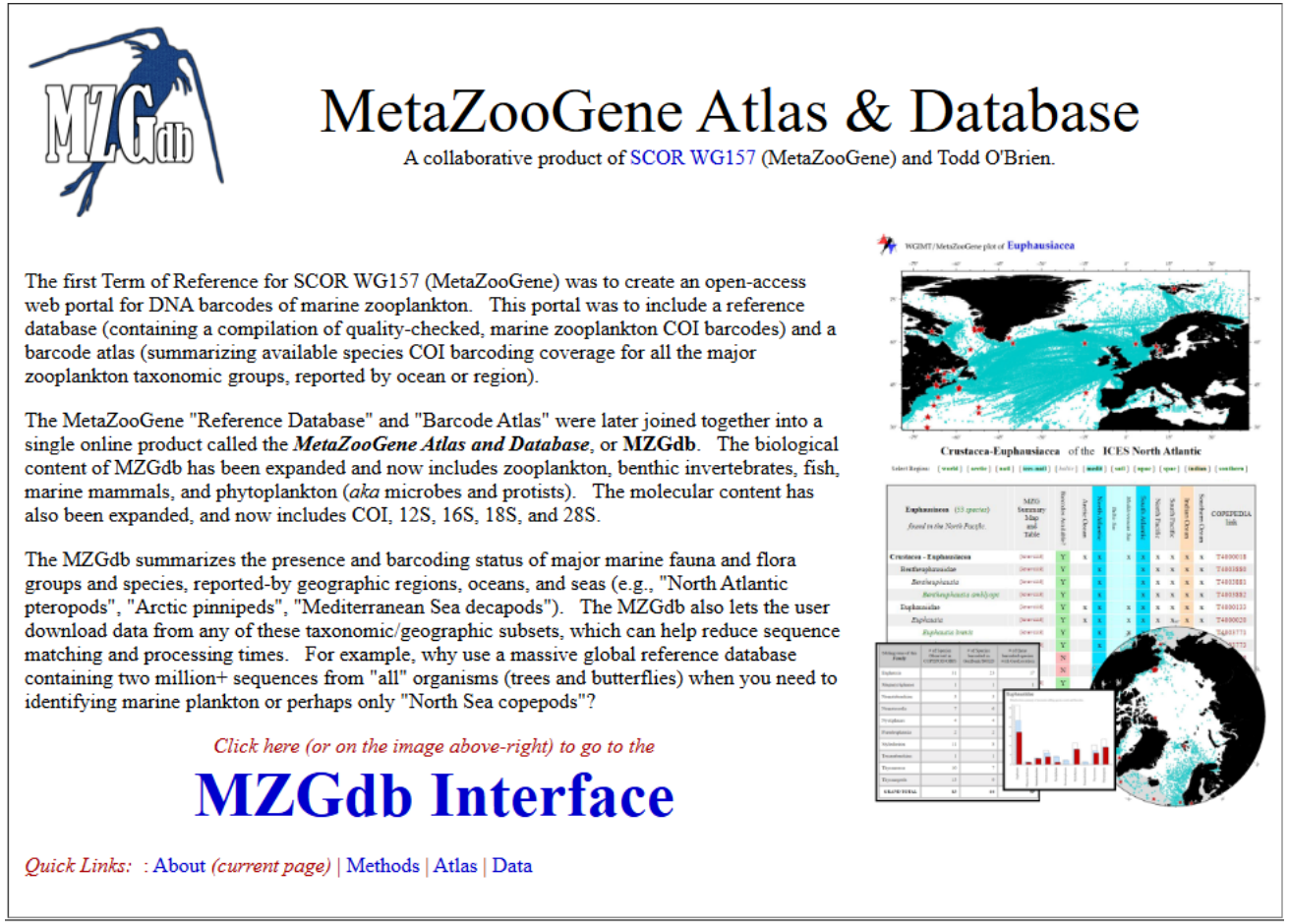




WG 157 MetaZooGene: Toward a new global view of marine zooplankton biodiversity based on DNA metabarcoding and reference DNA sequence databases:

Concluded Nov 2024

- **Chair:** Ann Bucklin (USA)
- www.metazoogene.org
- 16 publications acknowledging SCOR
- Early-career scientist network
- UN Ocean Decade Project



WG 162: Developing an Observing Air-Sea Interactions Strategy: Concluded March 2025

- **Chairs:** Meghan Cronin (USA), Sebastiaan Swart (Sweden), Christa Marandino (Germany)
- https://airseaobs.org/
- 4 publications acknowledging SCOR
- Harmonization of ideas from OceanObs'19
- UN Ocean Decade Programme

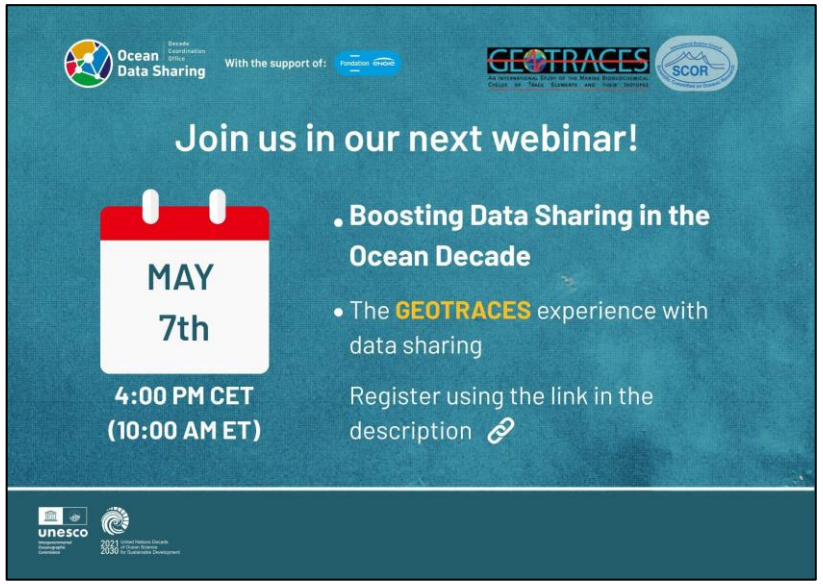
Uncrewed surface vehicles in the Global Ocean Observing System: a new frontier for observing and monitoring at the air-sea interface

Ruth G. Patterson[1,2*†] Meghan F. Cronin[3] Sebastiaan Swart[4,5] Joana Beja[6] Johan M. Edholm[4‡]

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

Projects


Ocean Data Sharing
With the support of:
GEOTRACES
SCOR
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


GEOTRACES
Synthesis Preparation Workshop
3-4 July 2025
Hybrid
HWK, Delmenhorst (Germany) and online
SCOR
AWI
Workshop Announcement
GEOTRACES Synthesis Preparation Workshop
3-4 July 2025
Format: Hybrid (On-site + Remote access)
Location: Hanse-Wissenschaftskolleg, Institute for Advanced Study (HWK), Delmenhorst (Germany) and online


IMBeR
IMBeR Synthesis and Future Planning Conference
FUTURE OCEANS 3
2025.05.13 - 16
Hybrid - Shanghai, China & Online
Navigating a future ocean: Inward, outward, and forward
futureearth
SKLEC
ONCE
MEGA-DELTA
futureearth coasts
Anthropocene Coasts


SOOS map
OCEAN:ICE - RECORD OF WATER MASS AGE AND MELTWATER FRACTIONS, WEDDELL SEA
Latitude: -75.39
Longitude: -28.67
DOI:
10.5281/zenodo.11096232
Event: PS124_98-1
Station: 98
Elevation: -454.00 m
Sea Water Temperature: -1.86 C°
Salinity: 34.02 psu
Helium: -9.00 nmol/kg
Neon: -9.00 nmol/kg
Glacial meltwater derived from He: -9.00 %
Glacial meltwater derived from Ne: -9.00 %
SF6 Age: 1.70
Transient time distribution mean age: 2.00
OCEAN:ICE - RECORD OF WATER MASS AG...
This datset presents trace gas measurements and derived variab...
Search
OCEAN:ICE - Record of water mass age and meltwater fractions, Weddell Sea
OCEAN:ICE
Abstract
Citation
Search
This datset presents trace gas measurements and derived variables such as basal glacial meltwater (GMW) fractions and water mass ages from the RV POLARSTERN expedition PS124 in the southern Weddell Sea in austral summer 2021. The trace gases comprise the lighter noble gases, i.e., total helium (He) and the excess above solubility equilibrium ΔHe, the 3He/4He ratio reported as δ3He, total neon (Ne) and the excess ΔNe, and the deviation from the equilibrium He/Ne ratio Δ(He/Ne), as well as the transient anthropogenic trace gases chlorofluorocarbon (CFC-12) and sulphur hexafluoride (SF6) concentrations. From these noble gases (He and Ne) we derived glacial meltwater fractions. From the transient tracers we computed SF6-concentration ages, CFC-12/SF6 ratio ages and TTD (Transit Time Distribution) mean ages.
Link to source
Link to original metadata
DOI


Join the SOOS Data Management Team

Social presence: Share SCOR Opportunities and Amplify News from WGs, Projects, Partners

UPCOMING SCOR 2024 MEETING

16-18 October 2024

Past Annual Meetings

WHAT'S HAPPENING

IIOE-2 Newsletter Volume-8, Issue-9, September, 2024

IMBeR Newsletter September 2024 No.45

SOLAS Newsletter September 2024

Calendar

WHO WE ARE

History

About

Executive Committee

National Committees

Partner Organizations

Affiliated Projects

WHAT WE DO

Working Groups

Research Projects

Infrastructural Projects

Capacity Development

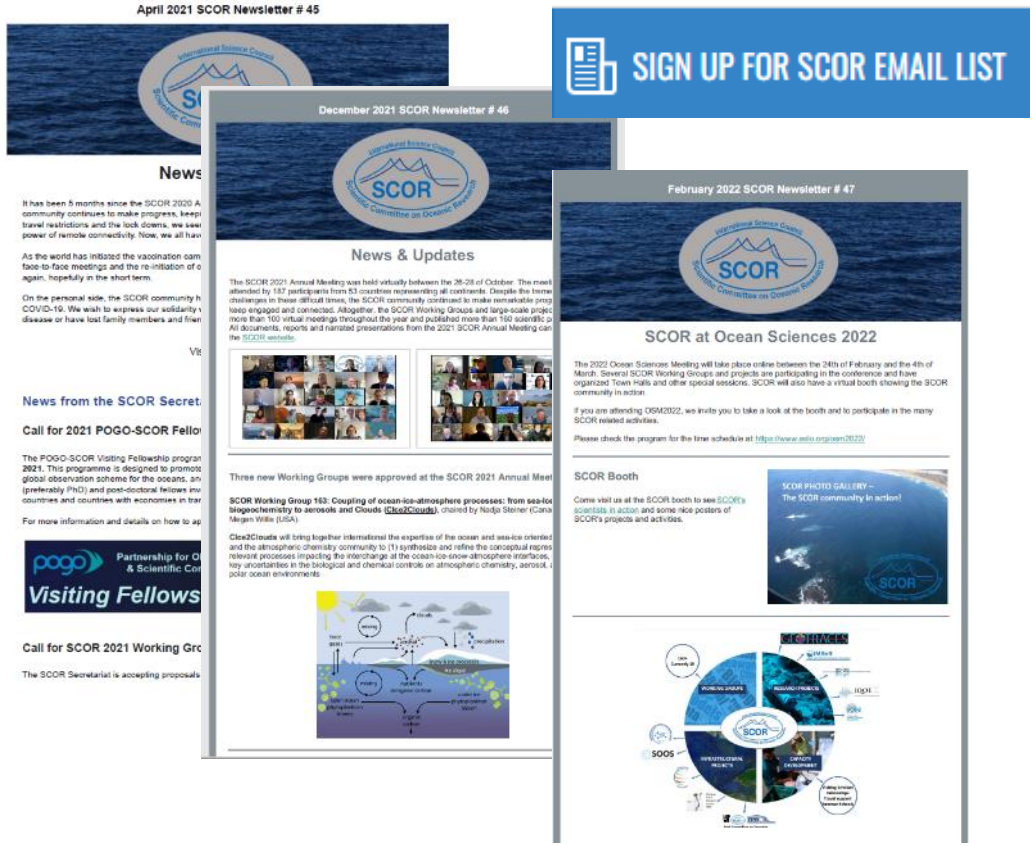
SCOR and the UN Ocean Decade

Achievements

GETTING INVOLVED

Opportunities

Email: 3 Newsletters/year + news



Website: +2000 visits and +4000 views / month

https://scor-int.org/

X (Twitter): @SCOR_Int ~1,165 followers

Facebook Public Group: ~2,200 members

LinkedIn: >300 followers (since December)

NEW Bluesky: @scor-int.bsky.social

Thank You!

https://scor-int.org/

secretariat@scor-int.org