

The Scientific Committee on Oceanic Research (SCOR)

2023 Executive Director's Report

Emily Twigg Executive Director



Emily Twigg, new SCOR Executive Director





First representation of SCOR - SOOS Symposium recorded remarks



First in person meeting – GEOTRACES SSC

Advancing ocean sciences across disciplines and through international cooperation since 1957



The Scientific Committee on Oceanic Research - mission

- Address global and multidisciplinary ocean issues
- Plan and conduct research working groups and projects
- Solve methodological and conceptual problems
- **Develop capacity** visiting scholars, fellowships, travel support
- Promote equity, diversity, inclusion in oceans sciences
- Encourage and support involvement of students and early career scientists





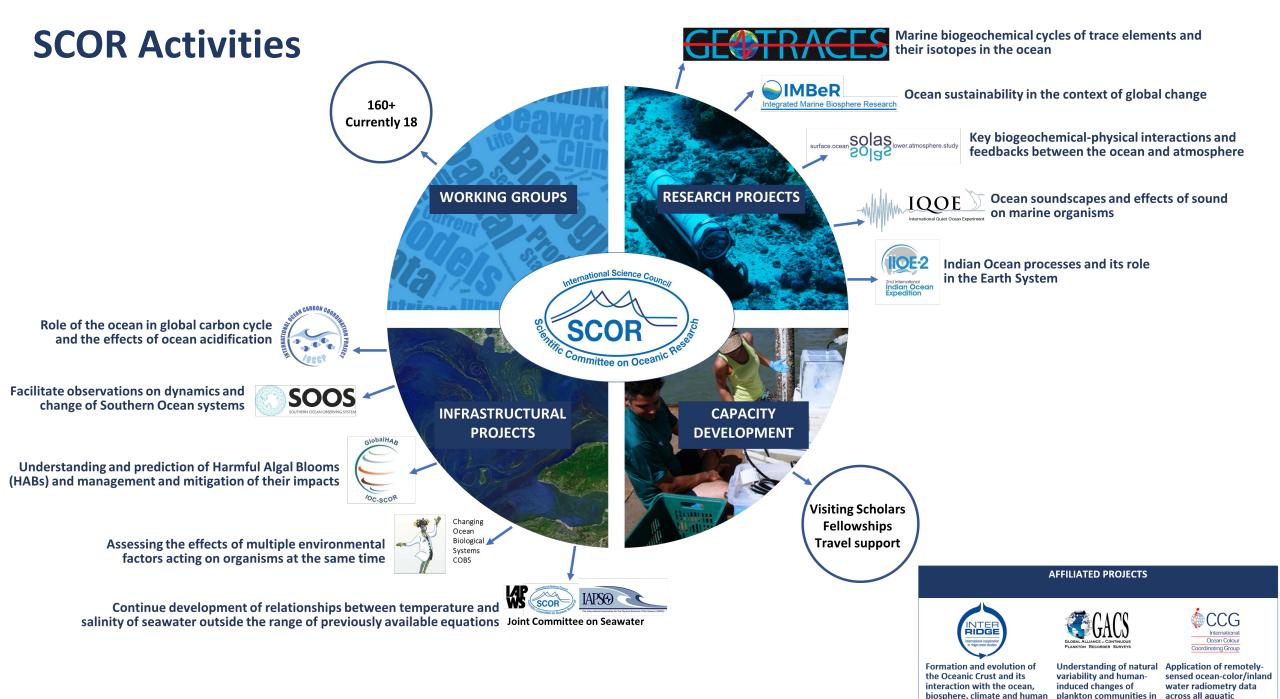








From the field to the lab, from data analysis to global synthesis – building capacity at every step of the way



the global ocean

environments

society

SCOR Working Groups

Physical oceanography



WG-148: IQuOD (2015)

International Quality Controlled Ocean Database:

Subsurface temperature profiles

WG-150: TOMCAT (2015)

Translation of Optical Measurements into particle

Content, Aggregation & Transfer

WG-153: FLOTSAM (2017)

Floating Litter and its Oceanic TranSport Analysis

and Modelling

WG-160: ATOMIX (2020)

Analysing ocean turbulence observations to quantify

mixing

2023 WGs:

To be decided at the 2023 SCOR Annual Meeting

Chemical oceanography



WG-151: FeMIP (2016)

Iron Model Intercomparison Project

WG-167: RUSTED (2022)

Reducing Uncertainty in Soluble aerosol Trace

Element Deposition



Biogeochemical oceanography



WG-152: ECV-Ice (2016)

Measuring Essential Climate Variables in Sea Ice

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

Biological oceanography



WG-155: EBUS (2017)

Eastern boundary upwelling systems: diversity, coupled dynamics and sensitivity to climate change

WG-156: Chlorophyll (2018)

Active Chlorophyll fluorescence for autonomous measurements of global marine primary productivity

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-159: DeepSeaDecade (2019)

Roadmap for a Standardised Global Approach to Deep-Sea Biology for the Decade of Ocean Science for Sustainable Development

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

Process for applying for SCOR affiliation – updated May 2023

Full procedures: https://scor-int.org/scor/affiliated-projects/

WHO WE ARE

• "Affiliation":

- Not sponsored
- Benefit from advice, visibility, SCOR network

Process:

- A 2-5 page proposal describing the program's science plan, the terms of reference, current steering committee membership, and rotation
 - procedures and schedule
- Annual reporting and renewal

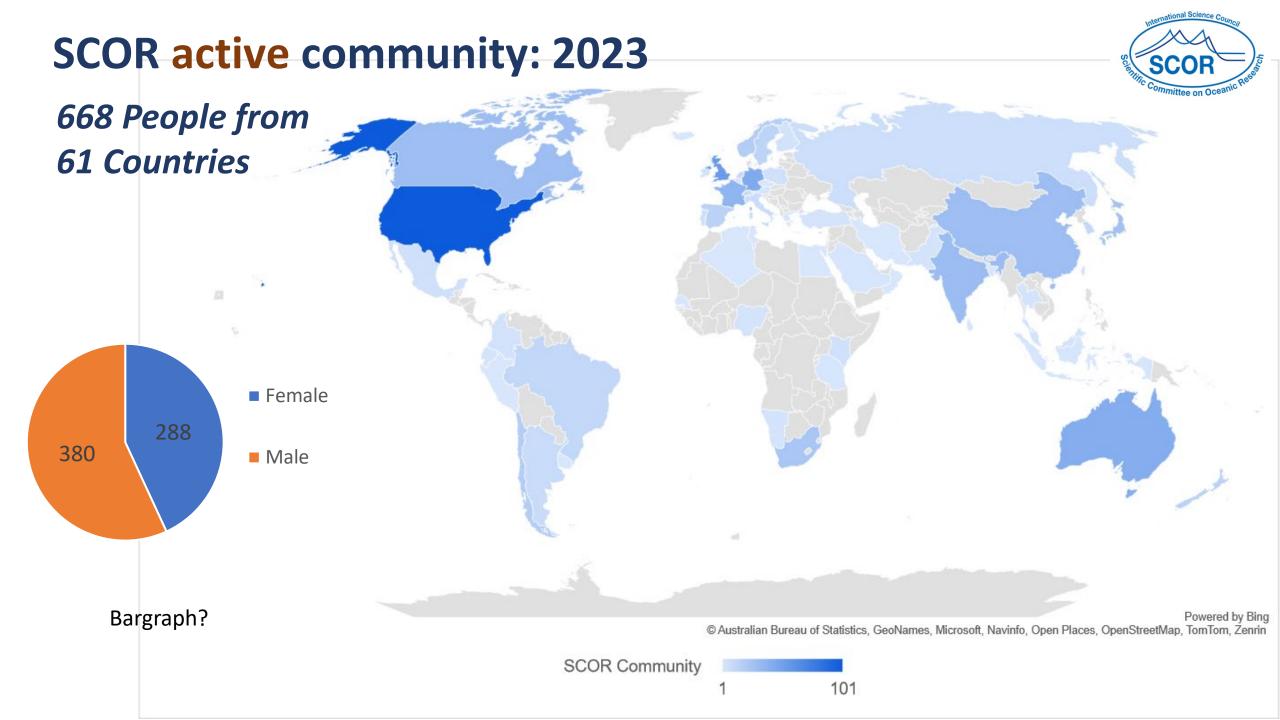
Qualities:

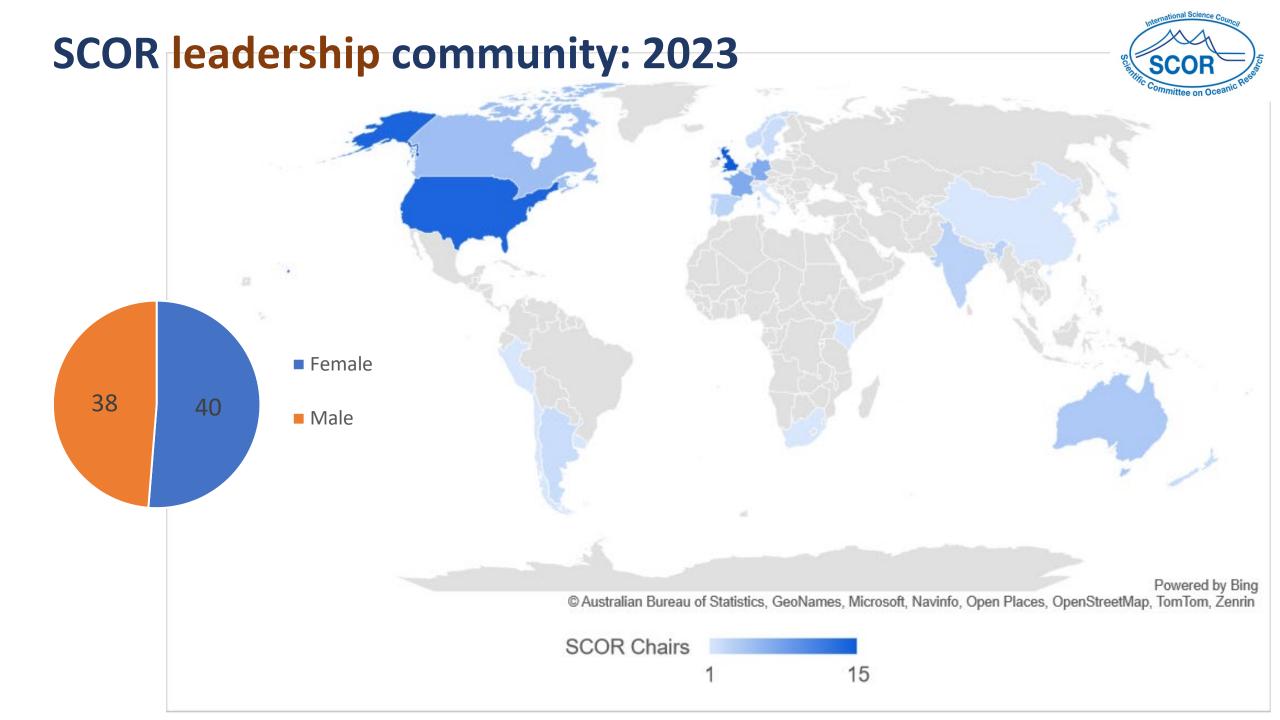
- aligns with SCOR's mission
- scientifically well-integrated theme
- truly international, with a scientific steering committee membership that rotates regularly



The SCOR community - updates







Executive Committee 2022-2024

President



Sinjae Yoo Korea

Past-President



Marie-A. Sicre France





Peter Croot Ireland

The Vice-Presidents



Stefano Aliani Italy



Ilka Peeken Germany



Brad Moran USA

The scientific organizations – Ex-officio



Judith Gobin Fra Trinidad and Tobago, IABO



Andrea Flossmann France, IAMAS



Hans van Haren
The Netherlands, IAPSO

The co-opted members



Wee Cheah Malaysia



Jacqueline Uku Kenya

Secretariat:

- Executive Director (2023-): Emily Twigg
- Executive Director (2020-2023): Patricia Miloslavich
- Financial Consultant: Ed Urban

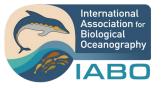


Capacity Development Committee

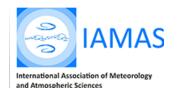


Chair: Rebecca Zitoun (Germany)

- Sanae Chiba (Canada)
- Mauro Cirano (Brazil)
- Ntahondi Nyandwi (Tanzania)
- Moagabo Ragoasha (South Africa)
- Viena Puigcorbé (Spain)
- Rui Seabra (Portugal)
- Paula Sierra (Colombia)
- Jennifer Verduin (Australia)
- Sun Xiaoxia (China-Beijing)







New National Committee Nominated Members



Currently 32 member countries.

Role of nominated members:

- Liaisons between International SCOR and national committees
- Liaisons between International SCOR and dues-paying agencies/organizations
- Lead working group proposal review
- Seek national funding to attend annual SCOR meeting

National Committee	Updates
Chile	Teniente Matías Sifón Andalaft replaced Harald Urbina Córdova
Italy	Jacopo Chiggiato was appointed to fill the position left by Annalisa Griffa
Switzerland	Charlotte Laufkötter replaces Kurt Hanselman

International recognition and awards





Prof. Trevor McDougall receives the 2022 Prime Minister's Prize for Science from Australian Prime Minister Anthony Albanese

Trevor McDougall (Australia)
Prime Minister's Prize for Science
Former Executive Committee



Marie-Alexandrine Sicre (France)

2022 Fellow of the International Science Council
Former SCOR President
Current SCOR Past President
SCOR Nominated Member France



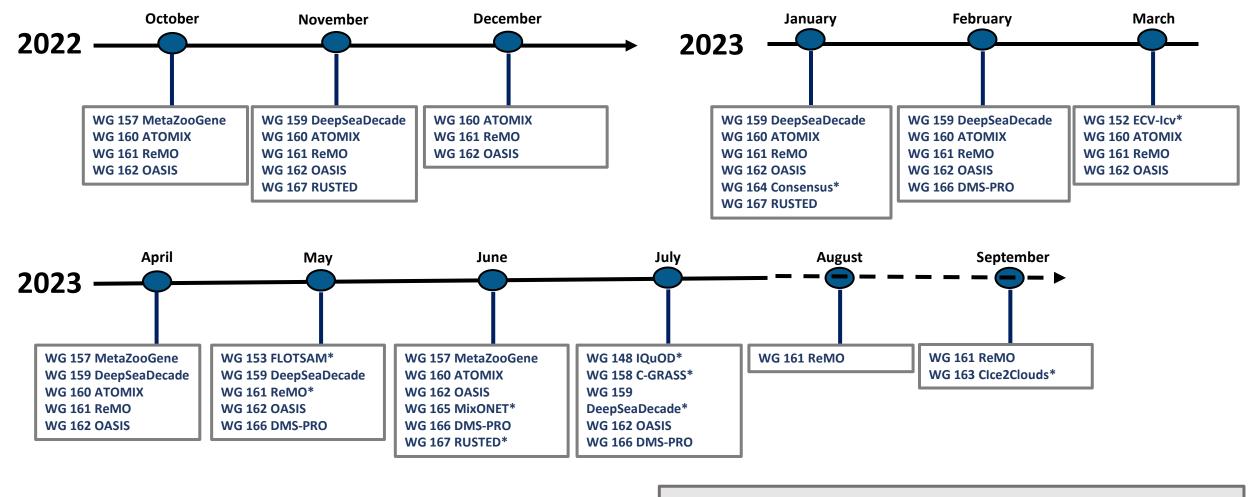
Shubha Sathyendranath (UK)
Appointed Member of the Order
of the British Empire
Chair of Affiliated Project IOCCG



Updates from the SCOR Working Groups and Projects



Working Group meetings



In summary: 18 WGs

- At least 41 online WG meetings (reported)
- 9 in person WG meetings (*)
- All In-Person Meetings included Associate Members
- 6 In-Person Meetings included Early Career Scientists

Working Groups

Working groups are formed of not more than 10 Full Members and 10 Associate Members, to deliberate on a narrowly focused topic and develop a peer-reviewed publication and/or some other product that will advance the topic on which the working group is focused. The group's work is intended to be completed in 4 years or less.

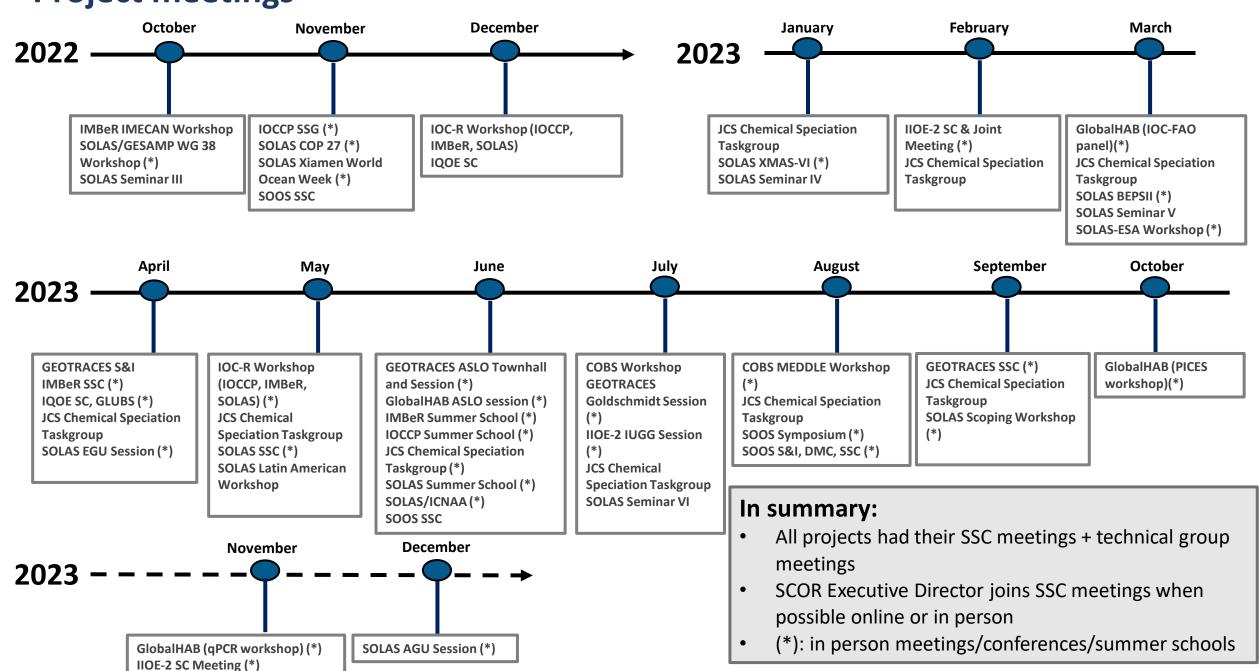
SCOR Ocean Carbon Working Groups

Meeting Planning Instructions

Travel Instructions

- ✓ Meeting organizers should provide SCOR with a budget and meeting documentation (agenda, summary, photo)
- ✓ Travel funds can be used for Associate members

Project meetings



SCOR scientific publications (2021-2022)

Class	Publications Acknowledging SCOR
Working Groups	18 (9 included ECS)
GEOTRACES	7
IMBeR	5
SOLAS	1
COBS	2
IQOE	1
IIOE-2	8
IOCCP	2
SOOS	1
GlobalHAB	2
JCS	3

THE WIRS DETWEEN marine plastic litter and the air-sea flux of greenhouse gases

Lonneke Goddijn-Murphy 1*, David K. Woolf², Ryan Pereira³, Christa A. Marandino⁴, Adrian H. Callaghan⁵ and Jacek Piskozub⁶

¹Environn Thurso, U Heriot-W **GEOMAR** Environme

Oceanolo

WG 157 MetaZooGene

Zooplankton play a key role in

WG 148 IQuOD

Benchmarking of automatic quality control checks for ocean temperature profiles and recommendations for optimal sets

Simon Good^{1*}, Bill Mills², Tim Boyer³, Francis Bringas⁴, Guilherme Castelão⁵, Rebecca Cowley⁶, Gustavo Goni⁴, Viktor Gouretski^{7,8} and Catia M. Domingues⁹

weτaparcoding of zooplankton to derive indicators of pelagic ecosystem status

Silver Spring, DML), National cripps Institution of ⁶Environment.

SCOR

Jenny A. Huggett^{1,2} Johan C. Groeneveld^{3,4} 🕞 Sohana P. Singh³ (iD Sandi Willows-Munro4 (D)

Check for updates

Riaan Cedras⁵ 🔟 Shaun H.P. Devzel^{6,7}

Oceans and Coastal Research Department of Forestry, Fisheries and the Environment (DFFE), Cape Town. South Africa

²Department of Biological Sciences, University of Cape Town, Cape Town, South Africa

related changes and ocean healt! Advance access publication date: 27 September 202: through microscopy, but new mo (DNA barcoding) or multiple spe



tested and refined using zooplan Developing an Observing Air-Sea Interactions Strategy implementation of DNA-based m (OASIS) for the global ocean an incomplete DNA barcode refe

environmental management agel M. F. Cronin 101, S. Swart 102, C. A. Marandino 104, C. Anderson P. Browne 106, S. Chen P. W. R. Joubert^{8,†}, U. Schuster⁹, R. Venkatesan^{10,11}, C. I. Addey (12,13,†, O. Alves¹⁴, F. Ardhuin¹⁵, S. Battle^{1,16}, M. A. Bourassa¹⁷, Z. Chen¹⁸, M. Chory (19,15), C. Clayson (19,20), R. B. de Souza (19,21), M. du Plessis ^{©2,†}, M. Edmondson^{19,†}, J. B. Edson²⁰, S. T. Gille⁵, J. Hermes ^{©22}, V. Hormann ^{©5}, S. A. Josey²³, M. Kurz^{24,†}, T. Lee²⁵, F. Maicu^{26,†}, E. H. Moustahfid^{27,28}, S.-A. Nicholson ^{©29,†}, E. S. Nvadiro (1030,31), J. Palter (1032, R. G. Patterson (1033,1), S. G. Penny (1034,35), L. P. Pezzi³⁶, N. Pinardi²⁶, J.

JCS





C. Stienbarger^{40,†}, T. Steinhoff^{4,41}, A. L. Yu²⁰

ration, 7600 Sandpoint Way NE, Seattle, WA 98115,

South Africa

ceanography, Ministry of Natural Resources,

Article

Thermodynamics of Evaporation from the Ocean Surface

Rainer Feistel 1,* and Olaf Hellmuth 2

Educational materials



SCOR WG 161 Respiration in the Mesopelagic Ocean



Home | Membership | Training course | Mentoring scheme | ReMO Webinars



Understanding the Oceans - The GEOTRACES International Programme (subtitles in 10 languages)

GEOTRACES IPO • 783 views • 1 year ago



Isotopes, tracers of origines & chronometers (Subtitles in 8 languages) #isotopes

GEOTRACES IPO • 503 views • 7 months ago



Lead, Humans & Oceans (Subtitles in 6 languages)

GEOTRACES IPO • 328 views • 7 months ago



Neodymium, the element that attracts us (Subtitles in 6 languages)

GEOTRACES IPO • 311 views • 6 months ago



Iron, essential for life in the ocean (Subtitles in 4 languages)

International training course on Mesopelagic Respiration

Canary Islands, Spain – 21-27 May 2023

Recordings

Lecture 1 - International training course on Respiration in the Mesopelagic Ocean - Introduction (Carol Robinson)

Lecture 2 - Oxygen consumption (Dominique Lefèvre, Matthieu Bressac)

Lecture 3 – Enzymatic approaches to estimate respiration: ETS activity, Enzyme Kinetic Model (EKM), in vivo INT (Javier Arístegui, María F. Monteiro, Natalia Osma, Isabel Seguro)

Lecture 4a – Aggregate respiration (Morten Iversen)

GEOTRACES Education Channel

Projects



Project	SSC renovations / other

RESEARCH PROJECTS

GEOTRACES	Reappointment of Vineet Goswami (India) and Rodrigo Torres (Chile) to SSC. Reappointment of Karen Casciotti as SSC co-chair Extension for one additional year (2023) of SSC members Antonio Tovar (Spain), Rob Middag (The Netherlands), Yeala Shaked (Isreal), Jay Cullen (Canada) and Marina Kravichishina (Russia).
SOLAS	New appointees to the SSC for 2023: Lennart Bach (Australia), Joan Llort (Spain), Andreas Raspotnik (Norway), Nadja Steiner (Canada), Lisan Yu (USA) Formation of Early Career Scientist Committee January 2023: 16 members
IMBeR	Appointment of Wen-Chen Chou, Jess Melbourne Thomas, Marta Ballesteros, Ron Vave, and Rowan Trebilco to SSC Call for new chair
IQOE	IQOE Task Team on Low-Cost Hydrophones for Research, Education, and Citizen Science: Xavier Mouy, Artash Nath Sophie Nedelec, Tess Gridley, Walter Zimmer, Mihai Burca
IIOE-2	No revisions

INFRASTRUCTURAL PROJECTS

COBS	Sam Dupont (Sweden) replaced Phil Boyd (Australia) as co-chair.
GlobalHAB	Appointment of Clarissa Anderson as Chair (USA) New appointees to SSC: Aifeng Li (China-Beijing), Luisa Mangialajo (Italy), Jorge Mardones (Chile), Silvia M. Nascimento (Brazil)
IOCCP	No revisions
SOOS	ExComm revision In progress Appointment of Nicole Hill (Australia) and Mohamed Adjou (France) to SSC
JCS	Vice chair position remains vacant

SCOR-UN Ocean Decade: endorsed projects and contributions



- SCOR WG 162 OASIS UN Ocean Decade *Endorsed Project* Aimed at developing an Observing Air-Sea Interactions Strategy
- SCOR Research Project GEOTRACES UN Ocean Decade *Contribution*Focused on marine biogeochemical cycles and distribution of trace elements and their isotopes



SCOR WG 159 DeepSeaDecade

Aimed at developing a global plan for survey/sampling deep-sea ecosystems to underpin deep-sea research is a key contributor to the UN Ocean Decade endorsed programme Challenger 150 – A Decade to Study Deep-Sea Life

- SCOR Infrastructural Project IOCCP International Ocean Carbon Coordination Project
 Key contributor to five UN Ocean Decade endorsed programmes related to ocean observations, oxygen and acidification (e.g. Global Ocean Oxygen Decade, Ocean Acidification Research for Sustainability)
- Southern Ocean Action Plan for the Decade

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

- IMBeR ClimEco 7 (2021) UN Ocean Decade endorsed activity
 IMBeR Climate and Ecosystems Summer School
- SCOR WG #157 MetaZooGene an endorsed action attached to the Marine Life 2030 UN Ocean Decade project Metabarcoding zooplankton diversity
- SCOR projects IMBeR and SOLAS contributing to Ocean Negative Carbon Emissions (ONCE) UN Ocean Decade Project Co-chaired by Carol Robinson. Other lead partners with IMBeR and SOLAS are ICES, PICES and WCRP.

SCOR-UN Ocean Decade: endorsed projects and contributions



To be proposed or seeking endorsement:

- SCOR WG 153 FLOTSAM on floating litter working together with GOOS, Copernicus and other organisations toward a global observing system for debris (IMDOS) to be proposed as a UN Ocean Decade programme
- International Indian Ocean Expedition II seeking endorsement
- GlobalHAB is a contributing partner to the proposed UN Decade Action, the Harmful Algal Bloom Solutions (HAB-S) Programme



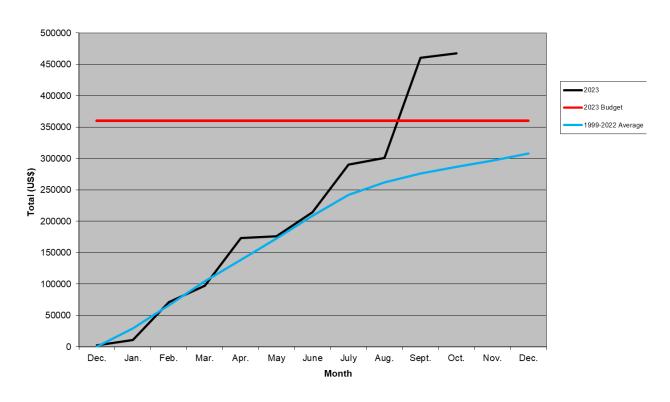
SCOR funding



SCOR Finances - Highlights

- Dues income from memberships has surpassed expected budget based on back dues payments – membership fees cover the costs of the Secretariat, annual SCOR meetings, some WG activities, and some projects and capacity development.
- **NSF Science Grant:** SCOR depends on grant funding for large-scale research projects, ocean carbon activities, and some working groups.
- SCOR currently has 2 overlapping Science grants from NSF—one on a second year "no cost extension" in order to spend unspent travel funds from COVID restrictions, and the other in its final year.
- **NSF Capacity Development Grant:** SCOR is in a "no cost extension" year for the Capacity Development grant from NSF. A new proposal has been submitted with an expected start of 1 January 2024.
- 2022 audit found no issues

SCOR Dues Payments (as of 4 October 2023)





United Nations Intergovernmental Educational, Scientific and Oceanographic Cultural Organization Commission





















National Science Foundation

World Climate Research Programme





































SCOR visibility



SCOR outreach resources





SCOR Videos

Full: https://www.youtube.com/watch?v=pRVM0x_d0tA **Short:** https://www.youtube.com/watch?v=HxCzYjP6AuQ



SCOR Flyer: https://scor-int.org/wp-content/uploads/2022/02/SCOR-flyer2.pdf



SCOR Photo Gallery: https://scor-int.org/wp-content/uploads/2022/02/SCOR-Photo-Gallery.pdf

UPCOMING SCOR 2023 MEETING

17-19 October 2023

Past Annual Meetings

WHAT'S HAPPENING

Call for IMBeR SSC Chair/Co-Chairs

IIOE-2 September Newsletter IMBeR eNews 25 September 2023

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WHO WE ARE

History

About

National Committees

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Partner Organization:

Affiliated Projects

WHAT WE DO

Working Groups Research Projects

Infrastructural Projects

Capacity Development

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SCOR and the UN Ocean Decade

Achievements

GETTING INVOLVED

Opportunities

Donate

Gold Transparency 2022 Candid.

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

Email: 3 Newsletters/year + news



Website: +2000 visits and +4000 views / month

https://scor-int.org/

X (Twitter): @SCOR_Int ~1,150 followers



NEW: SCOR Community in Zenodo

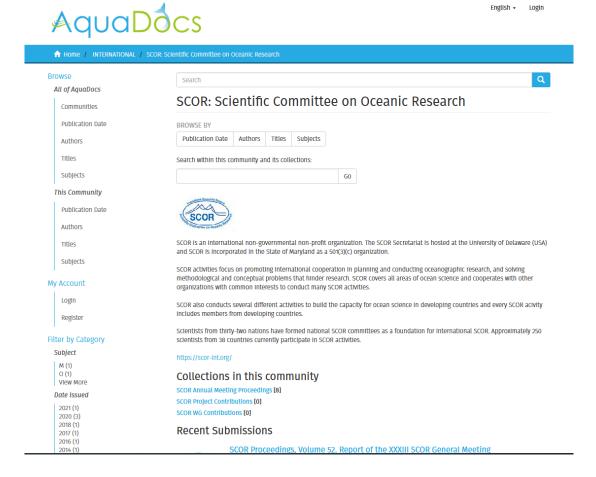


SCOR Community in Ocean Best Practices Repository





SCOR Proceedings in AquaDocs





Use of SCOR Booth by WGs and Projects

Advertise your presence at OSM in SCOR newsletter

Thanks!



https://scor-int.org/

