



## News & Updates

The past Ocean Sciences 2022 meeting held online in February showed an active, vibrant, and collaborative SCOR community in action. As the world's travel restrictions are eased, SCOR projects and Working Groups are planning to re-initiate face to face meetings in the next months, and so are many related conferences.

Please find below the latest updates on SCOR activities and opportunities!

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## News from the SCOR Secretariat

### Call for SCOR 2022 Working Groups

The SCOR Secretariat is accepting proposals for new working groups **until the 14th of May 2022**.

More information about the call along with guidelines to prepare the proposal is available [here](#).

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### Call for nominations for SCOR Executive Committee officers

New SCOR Officers will be elected at the SCOR 2022 Annual Meeting in Busan (Korea) to start their term at the end of the meeting. The four officer positions open are the SCOR Secretary and all three SCOR Vice-Presidents; two of the Vice-Presidents are eligible to be re-elected for a second two-year term.

The 2022 election Nominating Committee will be chaired by SCOR Past-President Dr. Marie Alexandrine Sicre and composed by Dr. Peter Burkill (UK), Dr. Constanza Ricaurte Villota (Colombia) and Dr. Samuel

Mafwila (Namibia).  
Nominations from SCOR Nominated Members are to be sent to Dr. [Marie Alexandrine Sicre](#).  
The deadline for submission of nominations is **4 June 2022**. The full call for nominations and further instructions can be found [here](#).

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## Call for 2022 POGO-SCOR Fellowships



The POGO-SCOR Visiting Fellowship programme for 2022 is open for applications **until 18 May 2022**. This programme is designed to promote training and capacity development, leading towards a global observation scheme for the oceans, and is aimed at scientists, technicians, graduate students (preferably PhD) and post-doctoral fellows involved in oceanographic work at centres in developing countries and countries with economies in transition.

For more information and details on how to apply please click [here](#).

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## SCOR welcomes Portugal as a new member

The Portuguese membership will be supported by the Air Centre, and the three nominated members are:

- **Fátima Abrantes:** senior scientist of the Portuguese Institute for the Sea and Atmosphere – IPMA, and leader of the Ocean and Climate Change Group of the Centre of Marine Sciences at the University of Algarve – CCMAR
- **Ana Hilário:** Assistant Researcher of the Centre for Environmental and Marine Studies of the University of Aveiro – CESAM, and co-chair of the SCOR WG #159 DeepSeaDecade
- **Catarina Duarte:** AIR Centre's Events and Network Manager

The Portuguese SCOR committee envisions to be composed of 25 members that represent, as far as feasible, the full range of ocean science disciplines associated with SCOR initiatives along with representation from government, universities and the private sector.

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## Stakeholder online consultation to the concept papers of the 2022 UN Ocean Conference

The summary report of the online consultation process for stakeholders with their inputs to the concept papers of the 2022 UN Ocean Conference Interactive Dialogues is now available [online](#)

SCOR contributed to interactive dialogues #1 (addressing marine pollution – specifically on the topic of ocean sound through the International Quiet Ocean Experiment – IQOE) and #6 (Increasing scientific knowledge and developing research capacity and transfer of marine technology).

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## International Science Council (ISC): Science in Exile Declaration

SCOR has endorsed the Science in Exile Declaration “Supporting at-risk, displaced and refugee scientists: A call to action”. The declaration outlines key commitments necessary at global level for both immediate and long-term support and protection to scholars and scientists who are at-risk, displaced or refugees, so as to build a better future for them, science and society at large.

More information [here](#)

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## SCOR's capacity development activities

### Recipients of the 2022 SCOR Visiting Scholars Awards



### [Elva Escobar-Briones](#)

Elva Escobar-Briones is a Senior Researcher at the Universidad Nacional Autónoma de México (UNAM). Her research topic is biodiversity of deep-sea oxygen minimum zones and chemosynthetic ecosystems and conservation and sustainable use in the deep sea. Elva will teach at the Universidad de Costa Rica and will help develop a regional capacity development program on deep sea topics including deep-sea conservation.

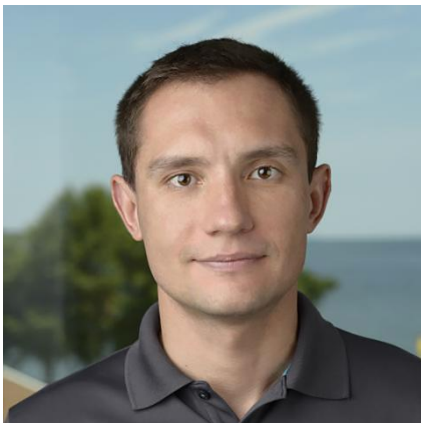
*Photo:*

*[https://www.icmyl.unam.mx/es/quienes\\_somos/personal\\_academico/elva-escobar-briones](https://www.icmyl.unam.mx/es/quienes_somos/personal_academico/elva-escobar-briones)*

### [Nubi Olobunmi Ayoola](#)

Nubi Olobunmi Ayoola is the assistant director of the Physical and Chemical Oceanography Department at the Nigerian Institute for Oceanography and Marine Research. His area of expertise is environmental quality assessments, and monitoring and sampling analyses for nutrients, heavy metals, and other physico-chemical parameters. Nubi will teach at the Atlantic Technical University at Sao Vicente, Cape Verde on marine pollution and ecotoxicology.

*Photo: <https://oceanexpert.org/expert/11234>*



### [Vyacheslav Lyubchich](#)

Vyacheslav Lyubchich is an associate research professor at Chesapeake Biological Laboratory, University of Maryland Center for Environmental Science (UMCES). His area of expertise is in statistics and quantitative analysis in environmental analysis. Vyacheslav will teach on popular methods of machine learning for ocean sciences and train in application of those methods to real data at the Federal University of Parana, Brazil.

*Photo: <https://www.umces.edu/vyacheslav-lyubchich>*

## SCOR's African Research Graduate Network in Oceanography (A-RGNO)

The 7th African Discovery Camp for Research-Based Training on the Sustainable Use and Scientific Management of Marine Ecosystems under the theme "BioGeoChemical Oceanography in Upwelling Ecosystems" took place between the 27 of March and the 29 April at the University of Namibia in Henties Bay and the National Marine Information and Research Center in Swakopmund, Namibia. The Discovery Camps provide opportunities to learn about current research projects and to develop future research directions for a better understanding of the consequences of local and global environmental alterations for the functioning of the Benguela Current Upwelling Ecosystem along with the opportunity of ship time experience on board the R/V Mirabilis operated by the Namibian





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## News from SCOR projects



### Global Harmful Algal Blooms (GlobalHAB) project

[Dr. Heather Raymond](#), professor at The Ohio State University (USA) and [Dr. Malin Olofsson](#), professor at the Swedish University of Agricultural Sciences (Sweden) have been appointed as members of the Scientific Steering Committee of the GlobalHABs project.

Dr. Raymond has over 20 years research experience leading innovative, data-driven freshwater HAB and water quality programs and promoting national cyanoHAB policies.

Dr. Olofsson focuses on phytoplankton-bacteria interactions and nutrient fluxes using secondary ion mass spectroscopy (SIMS), transcriptomics, and metabolomics, from filamentous nitrogen fixing cyanobacteria to diatoms and dinoflagellates.

The GlobalHAB SSC will meet the 14-15 May in Glasgow, UK following the GlobalHAB [Workshop on modeling and prediction](#) of Harmful Algal Blooms (9-13 May). GlobalHAB is also organizing a GlobalHAB [symposium on automated in situ observations of plankton](#) (22-26 August, Kristineberg, Sweden).



**Heather Raymond**

*Photo: Courtesy of H. Raymond*



**Malin Olofsson**

*Photo: Courtesy of M. Olofsson*



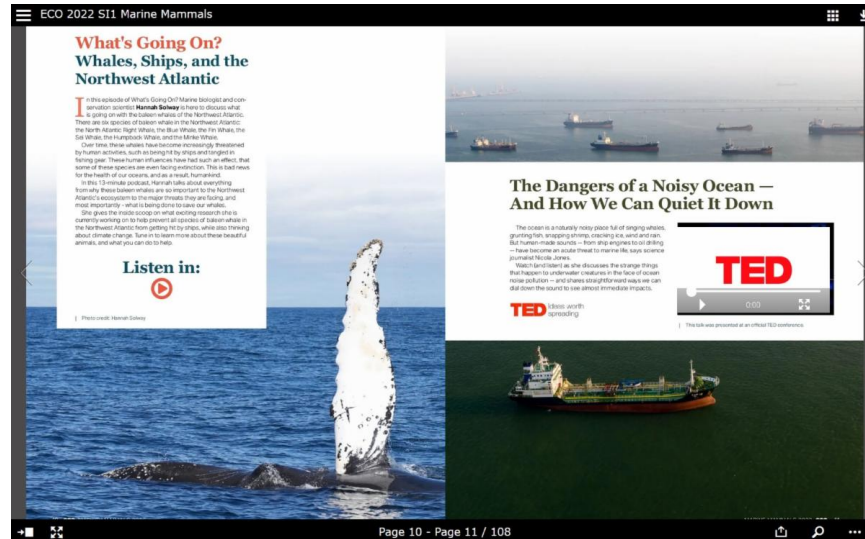
### Surface Ocean - Lower Atmosphere (SOLAS)

The SOLAS [International Project Office](#) hosted at GEOMAR has moved to Ireland. It will be hosted by the National University of Ireland in Galway. SOLAS is organizing the [8th SOLAS Ocean Science Conference](#) (OSC) as a hybrid meeting. The event will take place 25-29 September 2022 in Cape Town, South Africa.

SOLAS is also co-sponsoring the [8th International Symposium on Gas Transfer at Water Surfaces](#) taking place 17-20 May 2022.

The TED Talk by Nicola Jones on the "dangers of a noisy ocean -- and how we can quiet it down" from 2019 has been featured in a special issue of [Marine Mammals of ECO magazine](#) (May 2022) in partnership with the International Whaling Commission.

The talk explains the work by the IQOE on monitoring ocean sound and the relevance of ocean sound as an Essential Ocean Variable for the Global Ocean Observing System (GOOS).



## Changing Ocean Biological Systems (COBS)

### Changing Ocean Biological Systems (COBS)

Edited by COBS members Philippe Boyle and Sam Dupont along with Kirsten Isensee of the Intergovernmental Oceanographic Commission (IOC) of UNESCO, the IOC/UNESCO has published a scientific summary for policy makers to help understand how multiple stressors alter marine ecosystems at all locations and how marine life is essential for a healthy, resilient, predictable — sustainable ocean.

This Scientific Summary on Multiple Ocean Stressors for Policy Makers offers a framework for all concerned stakeholders to understand and discuss all types of ocean stressors. This document will help coordinate action to better understand how multiple stressors interact and how the cumulative pressures they cause can be tackled and managed. It is also a call to action underlining the urgency to understand, model and manage multiple ocean stressors now.

Access the full document [here](#).



The 2022 GEOTRACES Summer School: [Introducing Polar Parameters](#) will take place 10-15 July 2022 in Bremerhaven (Germany).

The GEOTRACES SSC is planning to meet 28-30 September 2022 and the GEOTRACES Data Management Committee (DMC) will meet 26-27 September 2022 at Southampton (UK).

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## News from SCOR Working Groups

### Working Group activities

**WG #145 MARCHEMSPEC** will become a new task group on chemical speciation under the Joint Committee on the Properties of Seawater ([JCS](#)).

**WG #152 ECV-Ice** will do an inter-comparison experiment for gas in sea ice, flux, and primary production in Cambridge Bay, Canada (28 April to 3 June, 2022).

**WG #153 FLOTSAM** members are working together with GOOS, Copernicus and other organizations toward a global observing system for debris ([IMDOS](#)). They are planning an IMDOS event at the UN Ocean Conference (27 June 2022, Lisbon, Portugal).

**WG #155 EBUS** on Eastern Boundary upwelling systems are organizing the [Open Science Conference](#) on Eastern Boundary Upwelling Systems (EBUS): Past, Present and Future and the Second International Conference on the Humboldt Current System (19-23 September 2022, Lima, Peru).

**WG #157 MetaZooGene** is organizing the [Symposium](#) "New insights into biodiversity, biogeography, ecology, and evolution of marine zooplankton based on molecular approaches" at the [ICES Annual Science Conference](#) (23 September 2022, Dublin, Ireland).

**WG #158 C-GRASS** is planning to meet in conjunction with the [World Seagrass Conference](#) & International Seagrass Biology Workshop (7-12 August 2022, Annapolis, USA).

**WG #160 ATOMIX** is meeting in conjunction with the [Gordon Research Conference on Ocean Mixing](#) (5-10 June 2022, South Hadley, USA).

**WG #161 ReMO** has launched a capacity-building [mentoring program](#) to foster exchange of expertise and to establish international collaborations in the area of respiration in the mesopelagic ocean for early-career scientists.

**WG #162 OASIS**, a UN Ocean Decade endorsed project, is organizing several [activities](#) to implement a global air-sea strategy.

**WG #165 MixONET** will have their first face-to-face meeting 6-8 June 2022 (Vigo, Spain).

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## Publications

Some of the most recent contributions from the SCOR community include:

**WG 143 – Dissolved N<sub>2</sub>O and CH<sub>4</sub> measurements: Working towards a global network of ocean time series measurements of N<sub>2</sub>O and CH<sub>4</sub>**

A '[Best Practice Guide](#)' (including seven SOPs) for dissolved CH<sub>4</sub> and N<sub>2</sub>O is currently under public review. The 7 draft Chapters cover topics extending from sampling, calibration, quantification, and data reporting.

**WG #152 - Measuring Essential Climate Variables in Sea Ice (ECV-Ice)**

Brent Else, Cranch, A., Sims, R. P., Jones, S., Dalman, L.A., Mundy, C.J., Segal, R.A., Scharien, R.K., Guha, T. (in press). Variability in sea ice carbonate chemistry: A case study comparing the importance of ikaite precipitation, bottom ice algae, and currents across an invisible polynya. (In press). The Cryosphere, Manuscript no. tc-2021-320.

Daiki Nomura, Ikawa, H., Kawaguchi, Y., Kanna, N., Kawakami, T., Nosaka, Y., Umezawa, S., Tozawa,

M., Horikawa, T., Sahashi, R., Noshiro, T., Kaba, I., Ozaki, M., Kondo, F., Ono, K., Yabe, I. S., Son, E. Y., Toyoda, T., Kameyama, S., Wang, C., Obata, H., Ooki, A., Ueno, H., Kasai, A. (2022). Atmosphere–sea ice–ocean interaction study in Saroma-lo Lagoon, Hokkaido, Japan 2021. *Bulletin of Glaciological Research*, 40, 1–17, [doi: 10.5331/bgr.21R02](https://doi.org/10.5331/bgr.21R02).

#### **WG 154 – Integration of Plankton-Observing Sensor Systems to Existing Global Sampling Programs (P-OBS)**

Emmanuel Boss, Anya Mary Waite, Johannes Karstensen, Tom Trull, Frank Edgar Muller-Karger, Heidi M Sosik, Julia Uitz, Silvia G. Acinas, Katja Fennel, Ilana Berman-Frank, Sandy Thomalla, Hidekatsu Yamazaki, Sonia Dawn Batten, Gerald J Gregori, Anthony J. Richardson and Rik Wanninkhof. (In press). Recommendations for plankton measurements on OceanSITES moorings with relevance to other observing sites. *Frontiers of Marine Science*, Manuscript ID: 929436.

#### **WG 157 – Toward a new global view of marine zooplankton biodiversity based on DNA metabarcoding and reference DNA sequence databases (MetaZooGene)**

Ann Bucklin, Paola G. Batta-Lona, Jennifer M. Questel, Peter H. Wiebe, David E. Richardson, Nancy J. Copley, Todd D. O'Brien\* (2022) COI metabarcoding of zooplankton species diversity for time-series monitoring of the NW Atlantic continental shelf. *Front. Mar. Sci.* 9:867893. [DOI: 10.3389/fmars.2022.867893](https://doi.org/10.3389/fmars.2022.867893)

Iole Di Capua, Rosa D'Angiolo, Roberta Piredda, Carmen Minucci, Ferdinando Boero, Marco Uttieri, Ylenia Carotenuto (2022) From phenotypes to genotypes and back: Toward an integrated evaluation of biodiversity in calanoid copepods. *Front. Mar. Sci.* 9:833089. [DOI: 10.3389/fmars.2022.833089](https://doi.org/10.3389/fmars.2022.833089)

#### **International Indian Ocean Expedition 2 (IIOE-2)**

[Pottapinjala V. Joseph S.](#) (2022) Evaluation of mixing schemes in the HYbrid Coordinate Ocean Model (HYCOM) in the tropical Indian Ocean. *Ocean Dynamics*, 72:341-359.

#### **International Quiet Ocean Experiment (IQOE)**

Miles Parsons, Lin, T.-H., Mooney, T. A., Erbe, C., Juanes, F., Lammers, M., et al. (2022). Sounding the Call for a Global Library of Underwater Biological Sounds. *Front. Ecol. Evol.* 10, 810156. [doi:10.3389/fevo.2022.810156](https://doi.org/10.3389/fevo.2022.810156).

#### **The Southern Ocean Observing System (SOOS) and the Southern Ocean Task Force**

Annemie R. Janssen et al. (2022). [Southern Ocean Action Plan 2021-2030](#) in support of the United Nations Decade of Ocean Science for Sustainable Development, 69 p. doi: 10.5281/zenodo.6412191

#### **International Ocean Carbon Coordination Project (IOCCP)**

Supplement - [Frontiers in Ocean Observing](#): Documenting Ecosystems, Understanding Environmental Changes, Forecasting Hazards - special issue in *Oceanography* - articles contributed by several IOCCP Scientific Steering Group and Office members

#### **Global Harmful Algal Blooms (GlobalHAB)**

GlobalHAB Scientific Committee (2021) Guidelines for the Study of Climate Change Effects on HABs. Paris, France, UNESCO-IOC/SCOR, 120pp. (IOC Manuals and Guides no 88). DOI: <http://dx.doi.org/10.25607/OBP-1692>. Available at the [Ocean Best Practices](#) system

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## **Obituaries**



### **Dr. Viktor Anatolyevich Akulichev**

Dr. Viktor Anatolyevich Akulichev passed away on 26 February 2022. He was an Academician of the Russian Academy of Sciences, a SCOR Nominated Member for Russia, and Vice-President of SCOR between 2004-2008.

Read the [obituary](#) by the Shirshov Institute of Oceanology of Russian Academy of Sciences

*Photo: <https://ocean.ru/en/index.php/novosti-instituta/1102-viktor-anatolyevich-akulichev-passed-away>*

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