

CANADIAN OCEAN SCIENCE NEWSLETTER
LE BULLETIN CANADIEN DES SCIENCES DE L'OcéAN

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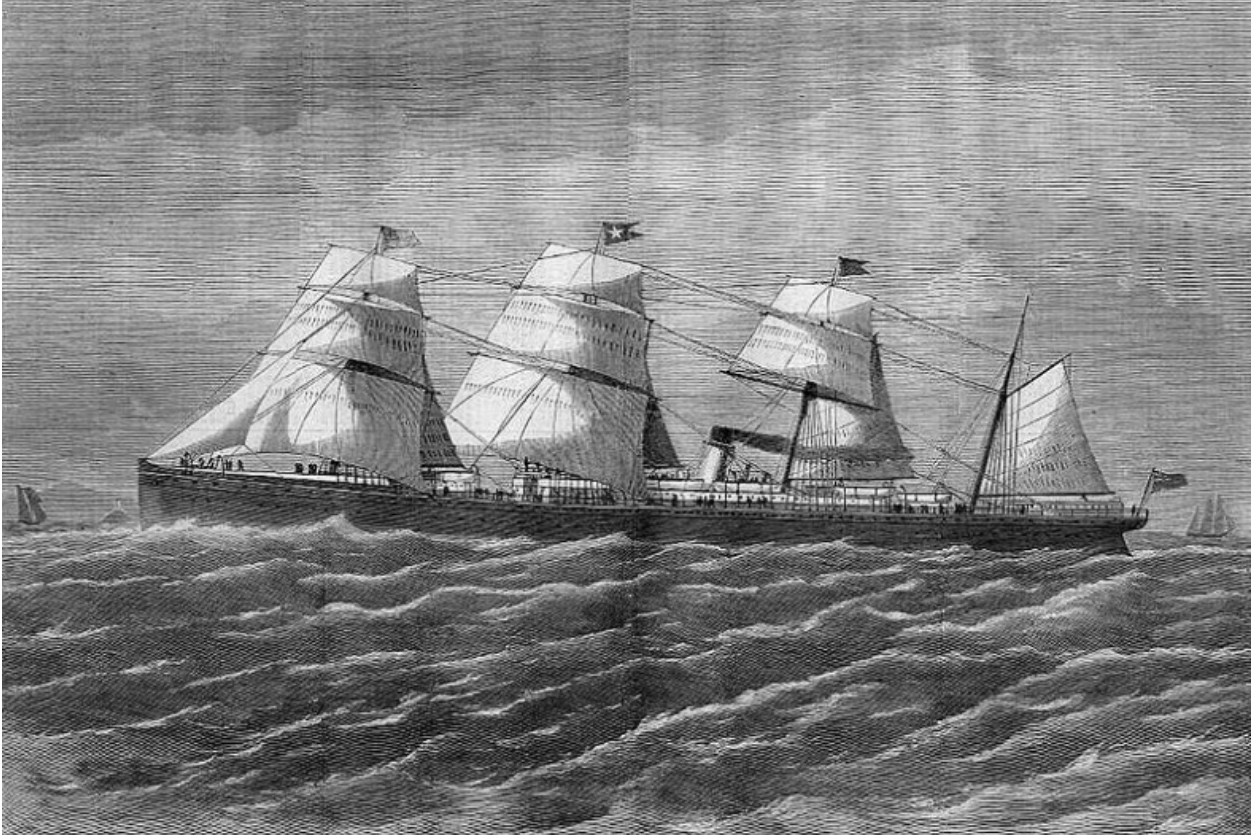


OCEAN SCIENCE NEWS

The wreck of the SS Atlantic

Ron MacNab (Retired, Bedford Institute of Oceanography) *has taken an interest in local marine history. He has put together these pieces about a tragedy 150 years ago.*

Sharp-eyed patrons of Halifax media will have noted that April 1 of this year was the 150th Anniversary of the wreck of the SS Atlantic, which ran aground in 1873 and broke up near what was then the tiny fishing village of Lower Prospect. Among the largest passenger liners of her time, the vessel was rigged as a four-masted barque and had a steam engine that drove a single propeller.



Quartermaster John Speakman led a number of survivors ashore by swimming to nearby rocks, creating a link from the vessel to land. *From Wikipedia*

On what would be her final cruise, the ship carried 852 passengers (two were born during the passage), 130 crew and 14 stowaways. Passengers were allocated to separate accommodations, largely according to gender: single males forward, families amidships, women & children to steerage with no ready access to the upper deck. 535 people lost their lives on that fateful night. All survivors were men: no women, and only one child, lived to tell the tale.



Winslow Homer drawing of an Atlantic victim cast up by the sea *From Wikipedia*

Having left Liverpool and crossed the Atlantic, the ship was heading for New York when the decision was made to divert into Halifax to replenish her coal supply so she wouldn't have to rely on sail power upon entering harbour at her destination. Bridge personnel were instructed to watch for Sambro Light off the vessel's port bow, which would lead them safely into Halifax Harbour. Unfortunately, visibility was poor and they were unaware of the strong westerly current that swept along the coast and pushed the vessel past the harbour mouth, so at full speed they crashed into the rock-bound shore near Lower Prospect. It was night-time, but word got out to local residents who mounted a heroic rescue operation that involved transferring people from ship to shore where they could be sheltered in residents' homes. One of the rescuers was James Coolen, the great-grandfather of my wife Mary.



*Wreck of Atlantic during body and cargo recovery, April 1873
From [Wikipedia](#)*

Local residents and others from the surrounding area were subsequently attracted to the site with a view to salvaging what items they could from the wreck. Apparently several homes in Lower Prospect were furnished with cutlery and tableware ornamented with the logo of the White Star Line.

The Part-Time Explorer website offers two videos – one short and one long – that describe the ship's final hours. The short video features explanatory captions as well as an



From [East Coast Scuba](#)



From [East Coast Scuba](#)

audio track that replicates the sounds of wind and wave, the throbbing of the steam engine, the grinding of hull upon rock, and eventually the screams of passengers – accompanied by funeral music – who managed to make their way to the upper deck where they awaited rescue:

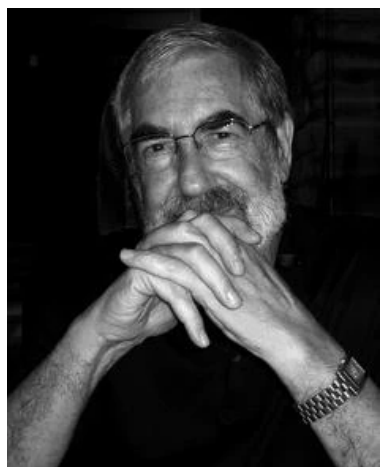
<https://www.youtube.com/watch?v=FZsN3mfei00>

This [long video](#) features more realistic animations, with voice-overs and speakers to explain how the situation unfolded, particularly during the rescue phase.

Remembering Bjorn Sundby

For many years Bjorn Sundby played a major role in the [CNC-SCOR and SCOR International](#). He was honoured with a special issue of Aquatic Geochemistry dedicated to his career.

[Alfonso Mucci](#) (McGill) provided the following memorial.



Portrait Photo by D. Godbout from the [Preface to the Special Issue](#)

Bjorn Sundby passed away on January 28, 2023. He was hospitalized three days earlier in Nice where he and his wife, Danièle, had taken refuge for many of the past winters. When admitted to the hospital, he was suffering from a high fever and convulsions. He was diagnosed with a pulmonary infection and transferred to ICU a day later.

Bjorn was born and educated in Bergen, Norway, where he obtained all formal university degrees in chemistry and physical chemistry. He was granted a Dr. philos. (chemical oceanography) from the University of Bergen in 1987.

In 1966, Bjorn moved to the U.S.A. where he was Senior Research (soap) Chemist at the Colgate Palmolive Company in New Jersey. In 1972, he moved to Canada where he held a post-doctoral fellowship at the Bedford Institute of Oceanography in Dartmouth, Nova Scotia. In 1974, he took on a position as a National Research Council of Canada (NRC) Research Associate at Université du Québec à Rimouski (UQAR), Québec. In 1984, he became a Professor of Oceanography (Marine Geochemistry) at UQAR. After a sabbatical leave at Chalmers University of Technology and the University of Gothenburg in Sweden, he moved to Holland in 1984, where he was Head of the Department of Chemical Oceanography and Marine Pollution at the Netherlands Institute for Sea Research in Texel and Chair of the Chemical Oceanography Commission at the Netherlands Council for Sea Research. In 1987, he returned to Canada and Quebec where he was Director of the Physical and Chemical Oceanography Branch at the Department of Fisheries and Oceans' Maurice Lamontagne Institute in Ste-Flavie. After getting a taste of the bureaucracy, in 1992 he returned to full-time research as Professor of Marine and Environmental Geochemistry at l'INRS-Océanographie in Rimouski. After a short stint at INRS-Eau in Québec City, he returned to the Department of Oceanography at UQAR from which he retired on 2010. In 1996, Bjorn and his family (Danièle and their daughter Kim) settled in Montreal for a sabbatical year at McGill. He and his family remained in Montreal until his death.

Bjorn served the national and international oceanographic community in various capacities, most noteworthy he was Secretary of the Canadian National Committee for SCOR (Scientific Committee on Oceanic Research) between 1996 and 2000 and Chair of the same committee between 2003 and 2006. Between 2004 and 2008, he served as the International President of SCOR.

We all lost a good friend and an outstanding scientist. He taught many of us so much and was a kind mentor. A celebration dinner of his life was held at the McGill Faculty Club on April 14th, 2023, it was attended by family, former students and friends.



Volume 18, issue 6, November 2012

A TRIBUTE TO BJØRN SUNDBY AND HIS ZEST FOR LIFE
AND SCIENCE

Issue editors

Cédric Magen, Bruno Lansard & Sean Crowe

7 articles in this issue

SOLAS Science

The May issue of the [SOLAS](#) (Surface Ocean - Lower Atmosphere Study) [newsletter](#) describes some of the projects they are working on:



SOLAS Endorsement of Time Series Station OOI

We are pleased to endorse the National Science Foundation's Ocean Observatories Initiative (OOI) as a funded Integrated Atmosphere-Ocean Time Series Station at the forefront of SOLAS science.



The OOI consists of five arrays that continually collect physical, chemical, geological, and biological data from the air-sea interface to the seafloor. These marine arrays are outfitted with more than 900 instruments - of 45 different types - measuring more than 200 different parameters. The data collected are transmitted through a cyberinfrastructure, making it possible for anyone with an Internet connection to [download ocean data](#) in real-time. The OOI was designed as a long-term project to collect ocean data for up to 30 years. This longevity makes it possible to measure and directly observe both short-lived episodic events and longer-term changes occurring in the ocean. Scientists are using OOI data, as evidenced by more than 300 [publications](#) on topics ranging from marine forecasting, ocean circulation, ocean acidification, marine heat waves, and more. As an open community resource, researchers are also encouraged to add instrumentation to OOI arrays and to write data-driven proposals that use OOI data to help answer research questions.

Find more SOLAS endorsed Projects and Time Series Stations [here](#).



Ocean Observatories Initiative (OOI) surface buoys awaiting deployment in the Irminger Sea. Credit: Rebecca Travis © Woods Hole Oceanographic Institution.

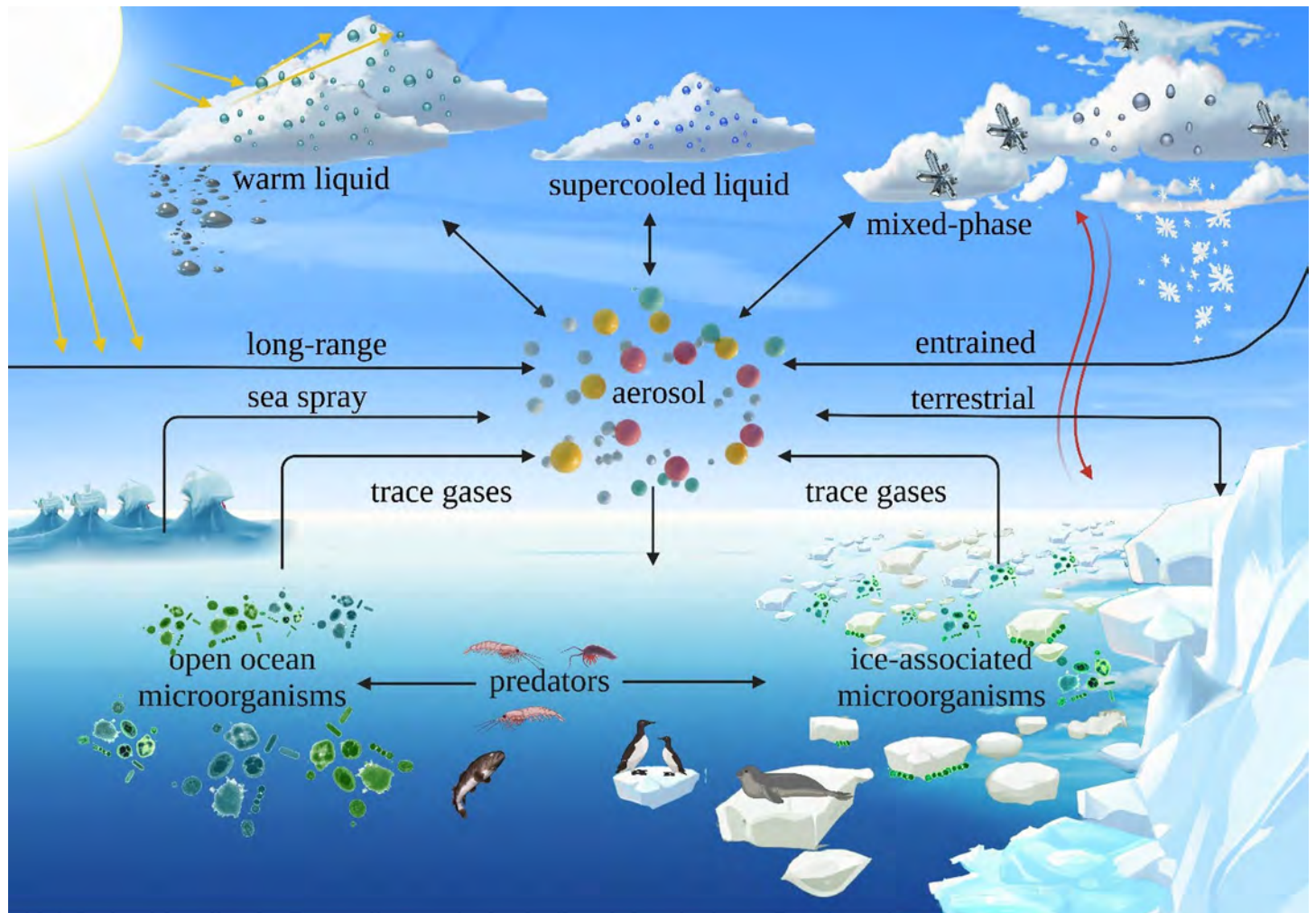
Untangling the Influence of Antarctic and Southern Ocean Life on Clouds

Polar environments like Antarctica and the Southern Ocean, are rapidly changing. Major gaps in our understanding of how ocean and ice biogeochemical processes are linked with the atmosphere must be closed before these pristine environments experience further change. Recent field campaigns have provided important new insights, but further research is needed to understand the interactions between biology, aerosol, and clouds around the Southern Ocean. A new commentary in *Elementa* by a cohort of scientists from different countries and disciplines highlights major research priorities and summarises more than 20 field projects planned for the next five years. Integrating new knowledge generated by these projects across disciplines will be

the biggest challenge. The authors argue that fostering collaboration between international and interdisciplinary communities will be essential.

Reference: Mallet, M.D., Humphries, R.S., Fiddes, S.L. **et al.**, (2023). Untangling the influence of Antarctic and Southern Ocean life on clouds. *Elementa-Sci. Anthropol.* 11(1), 00130.

<https://doi.org/10.1525/elementa.2022.00130>



Interactions between microbiota, gases, aerosol, clouds, radiation, and precipitation in the Southern Ocean and Antarctic.

SOLAS has been funded in part by [SCOR](#).

This section of your newsletter provides an opportunity to highlight your research programs to the Ocean Science Community.

*Your are invited to send contributions to David Greenberg,
davidgreenberg@alumni.uwaterloo.ca*

Mettez en valeur vos programmes de recherche en publiant un article dans cette première section de votre bulletin.

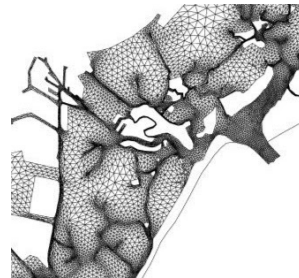
*Faites parvenir vos contributions à David Greenberg,
davidgreenberg@alumni.uwaterloo.ca*

MEETINGS

IMUM Conference 2023

CNR-ISMAR, Venice, Italy, 6-9 November 2023

The 18th International Workshop on Multi-scale Unstructured mesh numerical Modeling (IMUM) for coastal, shelf, and global ocean dynamics will be held in Venice, Italy, from November 6th to 9th, 2023. The workshop is organised by the Institute for Marine Sciences of the Italian National Research Council (CNR-ISMAR).



The initial IMUM workshop was convened in Louvain-la-Neuve in 2002, and in the years since, these annual workshops have become a highly respected platform for sharing and advancing knowledge about unstructured-mesh modelling of the ocean, spanning various scales and interactions. The workshops are characterised by a relaxed and interactive atmosphere and strive to strike a balance between presentations and brainstorming about the latest advancements, benchmarking, and application of models. Unfortunately, the IMUM workshops were suspended during the pandemic, but now there is a unique opportunity to meet again in the city of Venice.



[Registration](#) is **free** but mandatory. **Deadline 30 September 2023.**

[Abstract submission](#) **deadline is 30 September 2023.**

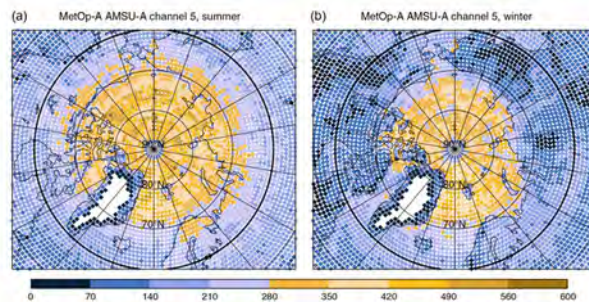
[Workshop website](#)

Polar Data Forum V

October 30 - November 3, 2023 - Cambridge, UK

The Polar Data Forum (PDF) is a place where polar data holders get together and make more use of data. The Forum has two main components: the Conference, where the border between funding, policy and data is explored through presentations and posters; and Workshop Sessions & Hackathons, where the Polar Data Community opens the dialogue to make progress on their shared objectives.

Polar Data Forum V (PDF V) will be hosted by the British Antarctic Survey (BAS) from October 30th through November 3rd, 2023 and will be held both at the Aurora Innovation Centre in Cambridge, UK and online. The Forum follows International Data Week (IDW) to be held in Salzburg Austria October 23-26, 2023.



The meeting is co-organized by various polar partners, including the Standing Committee on Antarctic Data Management (SCADM), Sustaining Arctic Observing Networks (SAON), the Southern Ocean Observing System (SOOS), and the World Data System, among others.

The focus of PDF V will be on improving large-scale data exchange and interoperability - between organisations and at the international level.

PDF V will consist of a series of workshops and hackathons from October 30th and 31st, followed by a 2-day plenary conference to be held November 1st and 2nd to support information exchange.

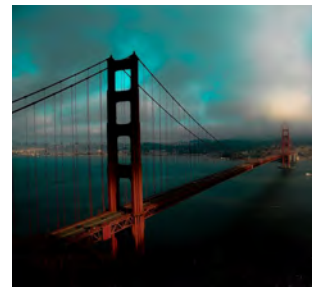
[Registration](#) and [Abstract Submission](#) are open with no posted deadlines.

[Workshop Website](#)

AGU23

San Francisco, CA & Online, 11-15 December 2023

Each year, [AGU's Fall Meeting](#) convenes >25,000 attendees from 100+ countries to share research and connect with friends and colleagues. Scientists, educators, policymakers, journalists and communicators attend AGU23 to better understand our planet and environment, opening pathways to discovery, opening greater awareness to address climate change, opening greater collaborations to lead to solutions and opening the fields and professions of science to a whole new age of justice equity, diversity, inclusion and belonging. We hope you'll join us in this incredible gathering of collaboration and action.



[Abstract deadline Aug 2 2023](#)

[Important dates](#)

[Conference Website](#)



Ocean Colour 2023

St. Petersburg, FL, 14-17 November 2023

The fifth International Ocean Colour Science (IOCS) meeting will be convened by the International Ocean Colour Coordinating Group ([IOCCG](#)) in partnership with the University of South Florida, NASA, and NOAA, and will take place from 14-17 November 2023 in St. Petersburg, Florida, USA

The primary focus of the IOCS meetings is to serve as a venue for the ocean colour community to



Advancing Global
Ocean Colour
Observations

communicate their views, ideas, concerns and issues with the satellite agencies. The programme for the IOCS-2023 meeting will include invited keynote lectures, agency talks, breakout workshops, poster sessions and community Town Halls. It is anticipated training events and side meetings will also be scheduled.

The overarching theme for IOCS-2023 is "Impact and Value of Ocean Colour Observations in a Changing World: Water in all its Colours" with the overall goal of nurturing a strong global user community for ocean colour science and applications, and fostering exchange between the ocean colour research community and international space agencies with an interest in ocean colour science.

Important Dates:

Early [Registration](#) **1 May - 30 Jun 2023**

Regular [Registration](#) **1 Jul - 14 Oct 2023**

[Travel support](#) & [Poster abstracts](#) **15 Sep 2023**

Late [Registration](#) **15 Oct - 12 Nov 2023**

[Meeting Website](#)



Please send meeting announcements to
David Greenberg,
davidgreenberg@alumni.uwaterloo.ca

SVP faites parvenir vos annonces de réunion à
David Greenberg,
davidgreenberg@alumni.uwaterloo.ca

POSITIONS AVAILABLE

Head, School of Ocean Technology

Marine Institute, Memorial University, St. John's, NL

The [Marine Institute](#) is currently searching for a visionary, innovative, and passionate individual to lead its School of Ocean Technology. This is an opportunity to help shape the future workforce, engage in exciting ocean research and development, and to foster strategic partnerships with academia, industry, and governments both locally and globally.



The ideal candidate must be a collegial and collaborative professional with excellent interpersonal and communication skills who can foster a diverse operational and academic environment, solve problems, and think progressively. This knowledge and experience would normally be gained through the completion of a graduate degree combined with a minimum of 10-15 years experience in progressively responsible leadership positions. In the context of this role, experience related to ocean or marine technology may be considered an asset. Applicants with an equivalent combination of experience and education may be considered.



Closing date: July 17, 2023

[Details](#)

Assistant, Associate, or Full Professor, ocean acoustics

Scripps Institution of Oceanography, UC San Diego

[Scripps Institution of Oceanography](#) (SIO) at the University of California San Diego (<http://scripps.ucsd.edu>) invites applications for an Assistant, Associate, or Full Professor position



with a research focus on ocean acoustics. Of interest are all aspects of acoustics in the ocean including but not limited to: marine physics and the measurement of sound propagation underwater including interaction with the boundaries, the sources and spatial/temporal structure of ambient sound, the application of innovative computational approaches to acoustic data collected at-sea, and acoustic sensing technology development. The successful candidate also will be expected to contribute to teaching at both the graduate and undergraduate levels in the SIO Department.

The position requires a PhD in Oceanography, Physics, Engineering or a related field.

For full consideration, please apply by the **July 31, 2023 deadline** at:

<https://apol-recruit.ucsd.edu/JPF03625> (Assistant Professor)

<https://apol-recruit.ucsd.edu/JPF03627> (Associate/Full Professor)

[Details](#)

Postdoctoral Research Fellowships in Oceanography

NASA Goddard Institute for Space Studies

The NASA Postdoctoral Program (NPP) offers unique research opportunities to highly-talented U.S. and non-U.S. scientists to engage in ongoing NASA research projects at a NASA Center,



NASA Headquarters, or at a NASA-affiliated research institute. These one- to three-year fellowships are competitive and are designed to advance NASA's missions in Earth science. Annual NASA Postdoctoral Program application deadlines are March 1st, July 1st and November 1st.

Scientists within five years of receiving their degrees are eligible to apply as a postdoctoral Fellow; scientists who have received their doctorates more than five years previously may apply as a Senior Fellow.

Please see specific oceanography related announcement below for fellowships offered in the subject area of Oceanography at NASA Goddard Institute for Space Studies in New York, at the Columbia University campus.

<https://zintellect.com/Opportunity/Details/0010-NPP-JUL23-GISS-EarthSci>

For more information and an application link please visit <https://npp.orau.org/>

For questions or more information, please contact Anastasia Romanou: anastasia.romanou@nasa.gov

Deadline July 1

[Openings](#) (Search "ocean")

Postdoctoral Investigator - Marine Chemistry & Geochemistry

WHOI, Woods Hole, Massachusetts

Dr. Zhaohui Aleck Wang's Lab at WHOI is seeking a motivated individual at the Postdoctoral Investigator level, with prior computational and/or modeling expertise or experience with marine carbonate chemistry and the ability to analyze and work with large datasets. This is a regular, full-time, non-exempt position, and is eligible for benefits. Funding is available through August of 2024 with the possibility of extension based on funding and performance.

The Postdoc will work with team members to primarily conduct computational analysis of regional and global climate model output, but may also involve field sampling, sensor deployment and lab analysis of the carbonate parameters. Job responsibilities will include analysis of high-resolution, 3D physical and carbonate chemistry model output of the US Northeast Shelf Ecosystem, development of statistical downscaling approaches for global climate model output using both traditional and machine learning tools, organizing and managing carbonate system data, and summarizing acquired data.

Deadline Jul 13, 2023

[Details](#)



Looking for work? Try the CMOS site ([click](#)).

Vous recherchez un emploi? Visitez le site SCMO ([click](#)).

GENERAL

The M.V. Calanus from CMOS Archives

Bob Jones, [CMOS Archivist](#), has pointed out that the [photo archives](#) can also include important background information. The archived photos of the [M.V. Calanus](#) include a [paper](#) by Ted



Calanus contending with ice en route to the Belcher Islands, 12 July 1959.

Grainger published in the journal *Arctic* in 1995 on its history and advocating for its preservation, a 1955 [presentation](#) delivered to learned societies by John Arthur Thomson in Glasgow, Aberdeen and London and [photos](#) of how she was faring in Iqaluit in 2009.



This beast, after the blow, grunted and returned to his dreams.

COSN May 2023



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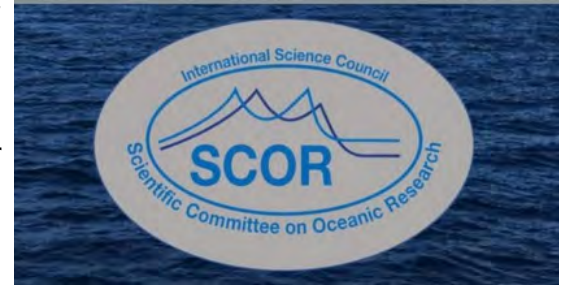
BCSO mai 2023

Review of CNC-SCOR WG Proposals

The Canadian National Committee for the Scientific Committee on Oceanic Research (CNC-SCOR) is looking for help reviewing proposals for new SCOR Working Groups.

What are Working Groups:

SCOR working groups (WGs) are a major approach for SCOR's work (WGs were established at the very beginning of the organization in 1957 to enhance global ocean science by providing a mechanism for international cooperation). They should represent novel scientific activities that are unlikely to be supported through national sources. WGs must have a focus in natural science, but can include social science aspects.



The proposals:

Twelve SCOR working group proposals were submitted for consideration for the [2023 SCOR Call for proposals](#).

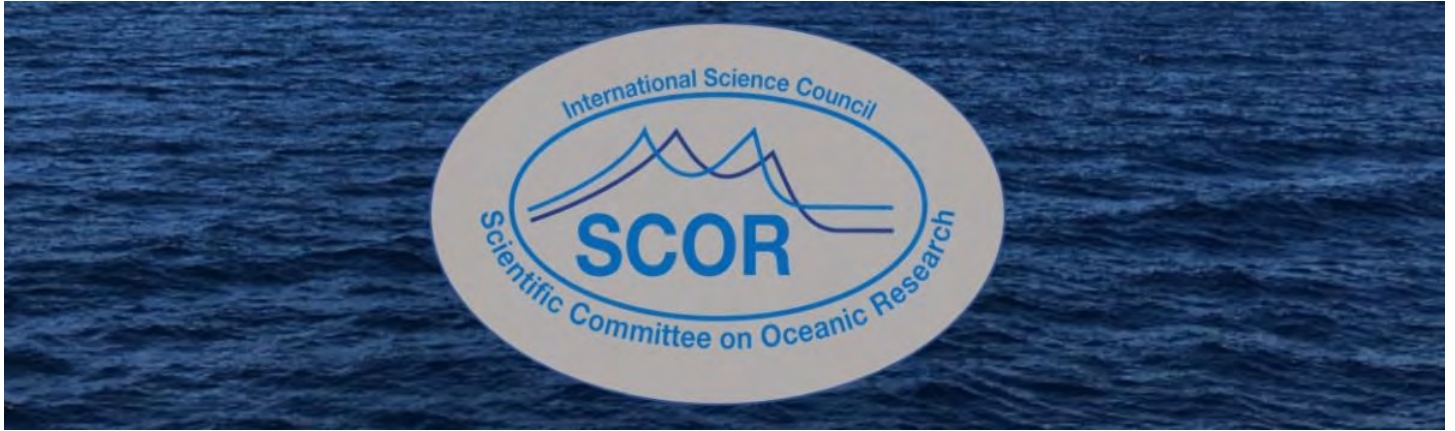
- 1. **4D-BGC**: Coordinating the Development of Gridded Four-Dimensional Data Products from Biogeochemical-Argo Observations [[Proposal](#)]
- 2. Assessing Microplastic Impacts & Transport in Upwelling Systems (**AMITUS**) [[Proposal](#)]
- 3. Data Insight through the Value of Eco-marine-robotics (**DIVE**) [[Proposal](#)]
- 4. Foraminifera in Extreme and Rapidly Changing Environments (**FIERCE**) [[Proposal](#)]
- 5. Fine-scale near-surface stratification in the Polar Oceans (**FINESS**) [[Proposal](#)]
- 6. Global Library of Underwater Biological Sounds (**GLUBS**) [[Proposal](#)]
- 7. Towards best practices for Measuring and Archiving Stable Isotopes in Seawater (**MASIS**) [[Proposal](#)]
- 8. Monitoring Ocean Health: Assessing the global state and trend in phytoplankton biomass and biodiversity (**MOHealth 2024**) [[Proposal](#)]
- 9. NEw physiological Metrics for Oceanography from 'Omics (**NEMOO**) [[Proposal](#)]
- 10. Oceanic Salt Intrusion into Tidal Freshwater Rivers (**SALTWATER**) [[Proposal](#)]
- 11. Studying Worldwide Impacts of Calcification Trends on CHanging Climate (**SWITCH**) [[Proposal](#)]
- 12. TRACE element SAMplers and sensORS, A step change to observing and understanding trace metal biogeochemistry in the ocean (**TRACEAMORS**) [[Proposal](#)]



For information and reviewing templates please contact Paul Myers (pmyers@ualberta.ca) or David Greenberg (davidgreenberg@alumni.uwaterloo.ca)

New SCOR Executive Director

From the offices of SCOR International



Dear SCOR community,

SCOR is delighted to announce that Emily Twigg has been appointed as the next [SCOR](#) Executive Director starting in June 2023. Emily replaces Patricia Miloslavich who will continue to serve the oceanographic community through her new position at the Australian Antarctic Division.

Emily is an experienced program manager who has worked on a broad range of ocean science topics. From 2016 to 2023, Emily served as a program officer for the Ocean Studies Board of the U.S. National Academies of Sciences, Engineering, and Medicine. In this capacity, she led or contributed to production of 13 reports and workshop proceedings by coordinating committees of subject matter experts and staff teams, organizing public meetings, building consensus, writing and editing reports, and contributing to public communication materials. She has covered topics ranging from ocean observing, offshore wind development, fisheries, ocean pollution, carbon dioxide removal, and ecosystem restoration. Emily also served as the staff officer supporting the U.S. National Committee to SCOR, which is constituted by the National Academies' Ocean Studies Board.

Emily previously held positions at the National Science Foundation supporting multi-million dollar grant programs and the U.S. Environmental Protection Agency supporting an interagency initiative on coastal wetland protection. She has additional experience working in resource management in the National Park Service, and in outdoor environmental education.

Emily has a master's degree in environmental science and management from the Bren School of Environmental Science and Management at the University of California, Santa Barbara and a bachelor's degree in biology from the University of California, Berkeley.

Welcome to SCOR Emily!



SCOR Secretariat

Canadian Ocean Science Newsletter Le Bulletin Canadien des Sciences de l'Océan

Previous [newsletters](#) may be found on the [CNC-SCOR](#) web site. The CNC-SCOR website is hosted by [CMOS](#).
Newsletter #131 will be distributed in **July 2023**.

Please send contributions to David Greenberg
davidgreenberg@alumni.uwaterloo.ca

Subscribing and Unsubscribing

If you wish to subscribe to this newsletter or cancel your subscription, please visit the website:

<http://www.mailman.srv.ualberta.ca/mailman/listinfo/cnc-scor>

Les [bulletins](#) antérieurs se retrouvent sur le site web du [CNC-SCOR](#). Le site du CNC-SCOR est hébergé par le [SCMO](#). Le Bulletin #131 sera distribué en **juillet 2023**.

Veillez faire parvenir vos contributions à David Greenberg, davidgreenberg@alumni.uwaterloo.ca

Abonnement et désabonnement

Si vous souhaitez vous abonner à cette newsletter ou annuler votre inscription, veuillez visiter le site web:

<http://www.mailman.srv.ualberta.ca/mailman/listinfo/cnc-scor>

CNC-SCOR

Members/ Membres

Paul Myers – Chair (U Alberta)
David Greenberg – Secretary (DFO-BIO)
Markus Kienast (Dalhousie)
Michael Scarratt (DFO-IML)
Paul Snelgrove (Memorial)
Stephanie Waterman (UBC)
David Fissel (ASL)
Lisa Miller (DFO)
Maya Bhatia (U Alberta)
Erin Bertrand (Dalhousie)

Le Comité national canadien du Comité scientifique de la recherche océanographique (SCOR) favorise et facilite la coopération internationale. Il reflète la nature multidisciplinaire de la science océanique et de la technologie marine.

Members Ex-Officio/ Membres d'office

Peter Galbraith (IAPSO)
Keith Lennon (DFO-HQ)
Andrew Stewart (DFO-HQ)
Jim Abraham (President CMOS)
Gordon Griffith (Executive Director CMOS)
Jean-Éric Tremblay (Québec-Océan)
Camille Lavoie (Québec-Océan étudiants)
Christopher Poitras (CMOS Students)
Jay Cullen (GEOTRACES)
Steve Mihaly (ONC)
Martine Lizotte (SOLAS)

The Canadian National Committee of the Scientific Committee for Oceanic Research (CNC-SCOR) fosters and facilitates international cooperation. It is a non-governmental body that reflects the multi-disciplinary nature of ocean science and marine technology.



WWW.CNCSCOR.CA