

CANADIAN OCEAN SCIENCE NEWSLETTER
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Prix d'excellence de Québec-Océan 2023



De Québec-Océan, [Nouvelles 4 Décembre 2024](#)

Québec-Océan termine l'année en remettant ses prix d'excellence, afin de mettre en lumière la qualité des recherches et le rayonnement de ses membres, qui font avancer les connaissances du milieu marin.

Prix de la publication étudiante Québec-Océan 2023

Québec-Océan est heureux de remettre **deux prix** de la publication étudiante à **Élie Dumas-Lefebvre** (UQAR) et **Ella Guscelli** (UQAR), respectivement pour leur travaux d'observations in situ à haute résolution de la rupture de la glace de mer induite par les vagues dans l'environnement naturel et sur la détermination des réponses physiologiques des crevettes nordiques d'origines différentes exposées à des stressseurs environnementaux. Félicitations Élie et Ella, ainsi qu'à vos collaborateurs·trices!

Pour lire les articles, cliquez sur les titres.

Élie Dumas-Lefebvre



The Cryosphere, 17, 827–842, 2023
<https://doi.org/10.5194/tc-17-827-2023>
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The Cryosphere

Aerial observations of sea ice breakup by ship waves

Élie Dumas-Lefebvre and Dany Dumont
Institut des sciences de la mer de Rimouski, Université du Québec à Rimouski, 310 allée des ursulines, Rimouski, QC, G5L 3A1, Canada

Correspondence: Elie Dumas-Lefebvre (elie_dumas-lefebvre@uqar.ca)

Received: 30 November 2021 – Discussion started: 7 December 2021
Revised: 16 November 2022 – Accepted: 20 January 2023 – Published: 20 February 2023

Ella Guscelli

Volume 226, Issue 16
August 2023

Journal of Experimental Biology

RESEARCH ARTICLE | 21 AUGUST 2023

Northern shrimp from multiple origins show similar sensitivity to global change drivers, but different cellular energetic capacity

In collection: Ecophysiology: responses to environmental stressors and change

Ella Guscelli , Fanny Noisette , Denis Chabot , Pierre U. Blier, Tanya Hansen, Manon Cassista-Da Ros, Pierre Pepin , Katherine R. Skanes , Piero Calosi

+ Author and article information
J Exp Biol (2023) 226 (16): jeb245400.
<https://doi.org/10.1242/jeb.245400>



Prix de la publication conjointe Québec-Océan 2023

Deux prix ex-aequo de la publication conjointe ont été attribués aux articles des premier·ère·s auteur·e·s **Martine Lizotte** (collaboratrice, MPO) et **Ludovic Pascal** (professionnel de recherche, UQAR) et leurs collaborateurs·trices. La publication de **Martine Lizotte** et ses 47 collaborateurs·trices porte sur l'origine et le sort de la matière organique terrestre dans les eaux côtières de la région du Delta du Mackenzie en Arctique et rassemble plusieurs membres anciens et **actuels** de Québec-Océan dont **Atsushi Matsuoka, Philippe Massicotte, Ghislain Bécu, Simon Bélanger, Flavienne Bruyant, Gwénaëlle Chaillou, Gabrièle Deslongchamps, Marie-Hélène Forget, Jean-Éric Tremblay et Marcel Babin**.

La publication de **Ludovic Pascal** et ses 6 collaborateurs·trices porte sur les réponses structurelle et fonctionnelle des écosystèmes benthiques face à la désoxygénation de l'océan et rassemble 5 membres actuels de Québec-Océan, dont **Philippe Archambault, Piero Calosi, André Cuenca, Alfonso Mucci et Gwénaëlle Chaillou**. Félicitations à tous!

Pour lire les articles, cliquez sur les titres.

[Lizotte et al. 2023](#)



[Pascal et al. 2023](#)



Prix Rayonnement médiatique étudiant Québec-Océan 2023

Mathilde Jutras (collaboratrice) a reçu le prix du rayonnement médiatique pour sa couverture en 2023, lorsqu'elle était étudiante, portant principalement sur l'hypoxie du Saint-Laurent.

Mathilde Jutras



Retrouvez certaines de ses sorties:

Balado Balad'eau: [épisode sur l'hypoxie dans l'estuaire du Saint-Laurent](#)

Magazine Québec-Science, 10 découvertes de l'année: [Le courant du Labrador est détourné surtout par le vent](#)

La Presse: [Le réchauffement de l'eau menace-t-il la pêche?](#)

Félicitations Mathilde!

Prix Rayonnement médiatique cochercheur·e ou collaborateur·trice Québec-Océan 2023

Peter Galbraith (collaborateur, MPO) a reçu le prix rayonnement médiatique, principalement pour son investissement remarquable auprès des médias et sa grande couverture pour ses travaux sur les conditions océanographiques du Golfe du Saint-Laurent.

Peter Galbraith



Retrouvez certaines de ses sorties :

Le Devoir: [Records de température en surface et en profondeur en 2022 et effets de la tempête Fiona](#)

Ici Radio Canada Première: [La température de l'eau du golfe du Saint-Laurent est exceptionnellement élevée](#)

24 heures: [Fleuve Saint-Laurent: des espèces pourraient disparaître parce que les eaux se réchauffent](#)

Félicitations Peter!

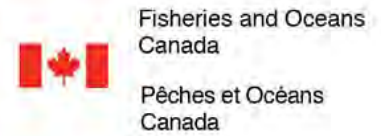
Québec
OCÉAN

Merci aux finalistes ainsi qu'aux juges, au plaisir de vous retrouver l'an prochain pour l'édition des prix de 2024!

Mamalilikulla First Nation Guardian

From DFO [Impact Stories](#)

The Mamalilikulla (Mama-lee-lee-kalla) First Nation and Fisheries and Oceans Canada (DFO) are working together. We protect a unique and fragile marine ecosystem in Knight Inlet, British Columbia (BC).



About the Guardians

The [Mamalilikulla First Nation](#) are traditional stewards of the area that has recently been established as the [Gwaxdlala/Nalaxdlala \(Lull/Hoeya\) marine refuge](#) in Knight Inlet. The [Mamalilikulla First Nation Guardians are now trained](#) to help implement DFO's policies and procedures, but are guided first and foremost by their nation's ancient law of Aweenak'ola.

"When we say Aweenak'ola, we mean we are one with the land, the sea, the sky and the supernatural Ones," says Mamalilikulla Chief Councillor Winidi (John Powell). "The creatures of the water, the land, the sea and the sky and the heavens... all of those creatures, we have to nourish them. We have a duty to protect them; we have to make certain that we manage our territory so that it is conducive to housing them."



Video: Mamalilikulla First Nation: Protecting our Coast.

In recognition of the inlet's rare species, high biodiversity and cultural significance, the Mamalilikulla First Nation worked in close collaboration with the Province of BC and the Government of Canada to protect the area. The animals protected in the Gwaxdlala/Nalaxdlala (Lull/Hoeya) marine refuge are part of a diverse marine community. There are about 240 aquatic species, including 46 rare and fragile:

- cold-water corals
- sponges
- anemones

They live on the Hoeya Sill. This underwater ridge provides the unique aquatic conditions to host massive, tree-like Gorgonian corals. These corals provide habitat where countless other species can thrive.

The marine refuge is also home to important eelgrass and kelp beds, and 2 important intertidal estuaries. These estuaries play a vital role in the health of the ocean ecosystem. They support rare and endangered birds and culturally important grizzly bears.

The Hoeya Sill in the marine refuge is particularly remarkable because of the rising of deeper currents over the ridge. This allows species, normally restricted to deeper depths, to thrive at only 12 metres below the surface. The shallow waters make the ecosystem ideal for scientific study but also extremely susceptible to damage from bottom-contact fishing activities common in the area.

This is especially true for fragile and slow-growing species, such as Gorgonian corals.



A massive grouping of Primnoa coral fans (approximately 1.50 m wide x 1.2 m high) flanked by a school of Yellowtail Rockfish. © Pauline Ridings, 2023

The marine refuge also includes significant inter-tidal archaeological features. These features:

- reflect its long occupation as a Mamalilikulla origin area
- include stone fish traps and weirs, and canoe runs associated with 3 ancient village sites

Path to protection

The Mamalilikulla territory supported a large population before European contact but declined to about 2,000 people in the 1840s to 1850s. A small number of Mamalilikulla still lived at Gwaxdlala/Nalaxdlala in 1914. In that year, the McKenna-McBride Commission was set up to consider additional land reserves and it turned down the Mamalilikulla's proposals for reserves in Gwaxdlala/Nalaxdlala.

As a result, the existing 400 registered members of the Mamalilikulla First Nation have not had direct connection to, nor resided in, their ancestral territory since the 1920s. However, recognizing the declining health of ecosystems in its territory, and in keeping with the law of Aweenak'ola, the Mamalilikulla founded a Guardian program in order to resume its presence and stewardship role.

With the advent of new international commitments to marine and land protection targets by Canada, and with the unique ecosystems and cultural sites in peril, the Nation publicly declared the area an Indigenous Protected and Conserved Area (IPCA) on November 29, 2021.

DFO had already been aware of ongoing evidence of damage to the Hoeya Sill from multiple types of fishing gear. The [Canadian Science Advisory Secretariat](#) and various Environmental Non-Governmental Organizations had documented the biodiversity of the site and Mamalilikulla and DFO had also proposed that the Hoeya Sill area be included in a new regional marine protected area network.

In 2022, further discussions expanded the proposal to incorporate Mamalilikulla's cultural conservation interests and more concrete action for protection.



One of the deep water sponge species found in the shallow waters of the Hoeya Sill. © Pauline Ridings, 2016

In February 2023, during the Fifth International Marine Protected Areas Congress (IMPAC5), this collaborative work culminated in the Government of Canada, Mamalilikulla First Nation and Province of BC announcement of a new marine refuge over the marine portion of the Mamalilikulla IPCA and a related fisheries closure to protect the site's significant ecosystems.

The announcement represented the first site designation from those proposed by a new marine protected area network in the Northern Shelf Bioregion, being collaboratively developed and implemented by First Nations, the Province of BC and Canada.

The Gwaxdlala/Nalaxdlala (Lull/Hoeya) marine refuge site, which is 21.4 km² (8.3 sq. mi), contributes towards [Canada's total marine conservation goals](#) of conserving 25% of marine and coastal areas by 2025 and 30% by 2030.

The Northern Shelf Bioregion is highly productive, and has unique ecological, oceanographic and seabed characteristics. The bioregion covers approximately 2/3 of the coast of BC, extending from the top of Vancouver Island, including Quadra Island and Bute Inlet, to the Canada-United States border at Alaska. Marine refuges are fisheries management measures, including closures under the Fisheries Act, that qualify as [Other Effective Area-Based Conservation Measures \(OECMs\)](#).

These protection measures provide benefits for biodiversity and are intended to be in place for the long-term. They make a lasting contribution to marine conservation.

A marine protected area network is a collection of individually protected sites that, taken together, protect biodiversity and important ecological features in the ocean.

"The establishment of the Gwa̓xdlala/Nal̓axdlala (Lull/Hoeya) marine refuge signified a key moment in providing protection and conservation to a very important ecosystem in our ocean. It also represents the collaboration that is required for true conservation," says Heather Brekke, Regional Manager, Marine Conservation, DFO.

Collaboration and capacity building

Through the support of DFO's [Oceans Management Contribution Program](#), collaboration in the Gwa̓xdlala/Nal̓axdlala marine refuge is ongoing and includes:

- monitoring and stewardship activities
- development of a management plan

This project will continue to contribute to capacity and knowledge building by the Mamalilikulla First Nation and DFO.

The project provides funding and training to Mamalilikulla First Nation Guardians who monitor the refuge. They look for any marine activity that could damage the sensitive underwater ecosystems. In this way, the project improves onsite monitoring capacity at this remote location.

It also provides the Mamalilikulla First Nation with the resources to manage and participate in underwater dive surveys of the Hoeya Sill. These surveys foster a better understanding of the area's unique biodiversity, such as the varieties of corals, sponges and aquatic species living there, and how they are changing over time.

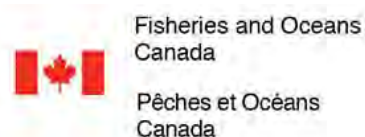
The data gathered through the dive surveys will also help identify sensitive areas and support the development of the refuge's management plan.

"This project is an opportunity to understand and support the government's regulations, standards and guidelines around marine protection. Under our ancient law of Aweenak'ola, we do not separate those things out, but working hand in hand with partners like DFO gives us the opportunity to learn about specific western methodologies while still practicing our own stewardship in the areas," says Chief Councillor Winidi. "... it means that we have some control over the environment and that the beings that live in it are going to be able to thrive in the future. This area is also a very significant origin area for our people, and we have a long history there that we want to reconnect with. It means that someday we can come back here and enjoy it in the same way our ancestors did."



A colourful juvenile Puget Sound King Crab resting on Pink Branching Hydrocoral, rare and not usually found in shallow waters. © Pauline Ridings, 2021

[Version française](#)



CNC-SCOR Early Career Ocean Scientist Award

The Early Career Ocean Scientist Award is presented to an early career oceanographer/marine scientist for an outstanding contribution to marine sciences (in the broadest sense) within Canada. The award can be based on a single work/paper that provides a seminal contribution to the field, or ongoing work at a sufficiently high level of excellence that provides an outstanding overall contribution.

The Award: The award winner will receive a plaque with the award, and will be provided the option to travel (with registration, abstract fee and travel provided from CNC-SCOR) to the upcoming CMOS congress to receive the award and present a paper.

The nomination **deadline** has been extended to **15 February**. Please send nominations by email to the CNC-SCOR secretary: davidgreenberg@alumni.uwaterloo.ca to be considered by the selection Committee.

More details can be found on the [CNC-SCOR website](#).



Prix du CNC du SCOR pour océanographe en début de carrière

Le prix pour océanographe en début de carrière est présenté à une personne océanographe ou spécialiste de la mer pour sa contribution exceptionnelle, en début de carrière, aux sciences de la mer (au sens large), au Canada. Le prix est octroyé soit pour un article ou une étude ponctuelle qui contribue de façon déterminante aux sciences marines, soit pour des travaux de longue haleine de haute qualité et qui apportent une contribution globale exceptionnelle.

Le prix : la personne lauréate recevra une plaque commémorative avec son prix et aura la possibilité de se rendre (avec inscription, frais de résumé et voyage fournis par le CNC-SCOR) au prochain Congrès de la SCMO pour recevoir son prix et présenter un article.

La **date limite** de nomination a été prolongée jusqu'au **15 février**. Merci d'adresser vos candidatures par courriel, au secrétaire du CNC-SCOR à davidgreenberg@alumni.uwaterloo.ca afin de pouvoir être considérées par le comité de sélection.

Vous trouverez plus de détails sur le [site Internet du CNC-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

CMOS Congress 2025

25-29 May 2025, Saskatoon



The Canadian Meteorological and Oceanographic Society (CMOS) 59th Congress and the Canadian Geophysical Union (CGU) Annual Meeting will be held jointly over a 5-day period, 25-29 May 2025. To serve as many diverse scientific communities as possible, this will be a hybrid conference. More detailed information will be posted as it becomes available on the [Congress website](#).

Abstract submissions are now open!

We are now soliciting oral and poster abstracts. Oral sessions (in-person or virtual) will consist of 15-minute allotments including Q&A, and poster sessions will be in-person only. We particularly encourage presenters from backgrounds historically under-represented in the earth science community, including but not limited to early career researchers, women, people of colour, Indigenous people, LGBTQ+, and individuals with differing abilities.

Abstract deadline 16 February 2025. [Abstract Submission](#)

CMOS Undergraduate Scholarships

The Canadian Meteorological and Oceanographic Society (CMOS) offers undergraduate scholarships to students in atmospheric sciences, meteorology, climate, oceanography and related fields (e.g., mathematics, hydrology, limnology).



The [ECCC-CMOS EDI Undergraduate Scholarships](#) - \$2,000 each (***NEW***)

The CMOS Undergraduate scholarships - \$2,000 each (***NEW values***)

The CMOS Daniel G. Wright Undergraduate Scholarship - \$2,000 (***NEW value***)

The CMOS - The Weather Network/MétéoMédia Scholarship - \$3,000 (***NEW value***).

Information about these scholarships and how to apply can be found at

<http://www.cmos.ca/site/activities/undergradscholarship>.

You do not have to be a member of the Society to receive a scholarship. (But note students get free membership.)

Application deadline March 15th, 2025.

Please send any questions and/or applications to awards-coord@cmos.ca.

CMOS AWARDS Nominations



Please take a moment to visit [Prizes and Awards](#) for a list of the eight awards, for instructions on how to make a nomination and then submit something on behalf of one of your colleagues or students.

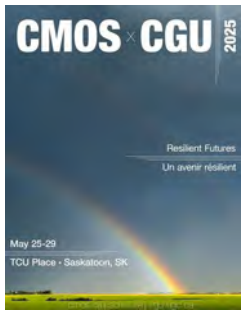
CMOS has a rich history recognizing deserving persons (members and non-members) through its awards programs. But regrettably, there are many deserving candidates who go unrewarded each year because we were too busy to work up a nomination. Don't wait - do it now!

Note that any inquiries and all nominations are to be forwarded to the CMOS Awards Coordinator at awards-coord@cmos.ca.

Deadline: Feb 15, 2025.

Congrès SCMO 2025

25 au 29 mai 2025, Saskatoon



Le 59e congrès de la Société canadienne de météorologie et d'océanographie (SCMO) et la réunion annuelle de l'Union géophysique canadienne (UGC) se tiendront conjointement sur une période de 5 jours, du 25 au 29 mai 2025. Afin de servir le plus grand nombre possible de communautés scientifiques, il s'agira d'une conférence hybride. De plus amples informations sur l'inscription, l'hébergement et la programmation seront publiées dès qu'elles seront disponibles sur le site [web du congrès](#).

Les soumissions de résumés sont maintenant ouvertes !

Nous sollicitons dès à présent des résumés de présentations orales et des affiches. Les sessions orales (en personne ou virtuelles) consisteront en des présentations de 15 minutes incluant Q&R et les sessions d'affiches se dérouleront uniquement en personne. Nous encourageons particulièrement les présentateurs issus de milieux historiquement sous-représentés dans la communauté des sciences de la terre, y compris, mais sans s'y limiter, les chercheurs en début de carrière, les femmes, les personnes de couleur, les autochtones, les LGBTQ+ et les personnes ayant des capacités différentes.

Date limite de soumission des résumés : 16 février 2025. [Site Web de soumission](#)

Bourse d'études de premier cycle de la SCMO - 2025

La Société canadienne de météorologie et d'océanographie (SCMO) offre des bourses d'études de premier cycle à des étudiants dans des programmes d'études en science de l'atmosphère, météorologie, climat, océanographie et sciences connexes (p.ex., mathématique, hydrologie, limnologie.)



Les bourses d'études de premier cycle de la [SCMO-ECCC pour l'équité, la diversité et l'inclusion](#) offre 2 000\$ chaque (*NOUVELLE*)

Les bourses d'étude de premier cycle de la SCMO offre 2 000\$ chaque (*NOUVELLE valeur*)

La bourse d'étude de premier cycle Daniel G. Wright - 2 000\$ (*NOUVELLE valeur*)

La bourse SCMO - MétéoMédia/The Weather Network - 3 000\$ (*NOUVELLE valeur*)

Vous trouverez tous les détails nécessaires en ligne au site

<https://scmo.ca/site/activities/undergradscholarship>

Date limite de candidature : 15 mars 2025. Veuillez envoyer toute question et/ou candidature à coord-honneurs@scmo.ca.

Nominations pour les Prix de la SCMO



Veuillez prendre quelques secondes pour visiter [les prix](#) pour la liste des huit prix et pour lire les instructions, puis prendre le temps de soumettre la nomination d'un de vos collègues ou étudiants.

La SCMO a une histoire qui souligne les personnes méritantes (membres et non-membres) par ses programmes de reconnaissance. Malheureusement, il y a beaucoup de personnes qui méritent d'être nommées qui ne le sont pas, parce qu'on est trop occupé. N'attendez pas : faites-le maintenant!

À noter que toutes enquêtes ainsi que toutes nominations doivent être soumises au Coordinateur des honneurs de la SCMO au coord-honneurs@scmo.ca.

Date limite : 15 février 2025.

Future-proofing surveys: integrating probability and non-probability methods in fisheries

29 September - 3 October 2025, Gullmarsstrand, Fiskebäckskil, Sweden

This symposium brings together scientists from across the globe to explore integration of probability and non-probability survey methods in fisheries to generate robust, efficient, and cost-effective data for decision-making.



In commercial and recreational fisheries surveys, integrating these two approaches has the potential to improve the spatiotemporal resolution, improve cost-effectiveness, and generate robust outcomes. However, the best strategies for integrating these methods in a fisheries context remain unclear.

The participants will have the opportunity to join the following theme sessions:

1. Surveys methods
2. Novel methods for data collection
3. Non-probability methods and analytical methods
4. Integrating probability and non-probability survey method
5. Future developments in survey design and opportunities they create

Abstract deadline 3 March 2025

[Details](#)

BACO-25: Busan IAMAS-IACS-IAPSO Joint Assembly 2025

20 - 25 July, 2025, Busan, Korea

BACO-25 will take place from July 20 to 25, 2025. Over these six days, colleagues from academia, government, and industry worldwide will engage in scientific presentations, discussions, information exchanges, and international cooperation in earth sciences. Participants will enjoy exceptional scientific programs, exhibitions, and exciting supporting events.



The Scientific Program Committee (SPC) has prepared the program consisting of regular symposia scoped by three associations, as well as the joint symposia prepared by the collaboration of different association members. The Scientific Program Committee has prepared the program consisting of regular symposia scoped by three associations (IAMAS, IAPSO and IACS), as well as the joint symposia prepared by the collaboration of different association members. The joint symposia proposed by two or three associations focus on themes related to interactions within our Earth systems. Please refer to the symposia list on our website and submit your valuable research!



[Abstract Submission](#) Deadline : Midnight KST - 15 Feb 2025

[Details](#)

*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

Professeure ou professeur, géologie marine, spécialisation sédimentologie

ISMER/UQAR, Rimouski QC

La personne choisie devra être spécialisée en sédimentologie marine. Les domaines d'expertise recherchés sont la dynamique sédimentaire, la stratigraphie du Quaternaire, la géochronologie, les risques naturels, la cartographie du fond marin, la géophysique et la géomorphologie marine, les propriétés physiques et chimiques des sédiments, la paléocéanographie, les changements environnementaux et climatiques, ou les impacts anthropiques sur la sédimentologie. La personne sélectionnée sera encouragée à développer son propre secteur de recherche et devra collaborer avec les scientifiques de l'ISMER et de l'UQAR. La personne retenue devra être en mesure de participer aux programmes de DESS (diplôme d'études supérieures spécialisées), maîtrise et de doctorat en océanographie par l'encadrement d'étudiantes et d'étudiants aux cycles supérieurs et par l'enseignement. La langue de travail est le français.



Lieu d'affectation : Institut des sciences de la mer, campus de Rimouski

[Plus d'informations](#)

Date limite : L'analyse des candidatures débutera le **2 mars 2025**

Postdoc: Biogeochemistry, climate change in sub-Arctic and boreal landscapes

Earth Sciences, Memorial University of Newfoundland

Postdoctoral researcher position within the Department of Earth Sciences: Starting as early as May 1st, 2025.

Our group investigates the biogeochemistry of both aquatic and terrestrial ecosystems in the important boreal and sub-Arctic region of the Northwest Atlantic. Specifically, we are contributing to the development of the understanding of how landscapes in this region are responding to climate change, including impacts on the cycling of organic matter and inorganic nutrients. Much of our work involves the use of biomarkers (chemical clues with unique source) and stable isotopes to track elements as they cycle through the environment. Those interested in this postdoctoral researcher position should have research experience, having completed a PhD in the natural sciences (e.g. biology, chemistry, physics, biochemistry, geology, earth, environmental, or marine sciences). Successful candidates will be expected to work independently and as part of our community including some student co-mentoring and co-supervision. This will include attending weekly research group meetings and providing feedback to members in the group.



[Details](#)

Open until filled. (Posted 9 January 2025)

Satellite Data Analyst

Royal Belgian Institute of Natural Sciences, Brussels, Belgium

The REMSEM (Remote Sensing and Ecosystem Monitoring) team, part of the Operational Directorate Natural Environment (OD Nature) at the Royal Belgian Institute of Natural Sciences (RBINS), specializes in satellite remote sensing of coastal waters providing valuable insights for marine ecosystem management.



The REMSEM team uses satellite data to measure parameters of environmental relevance such as the concentrations of chlorophyll a (phytoplankton) and suspended sediments in marine environments. A description of our remote sensing activities can be found at <http://odnature.naturalsciences.be/remsem/>.

The main tasks include:

- Development of ocean colour satellite applications including setting up and maintaining automated processing pipelines combining different software packages in a python environment.
- Development of new ocean colour algorithms including but not limited to chlorophyll-a concentration, turbidity, phytoplankton functional types, mapping of benthic vegetation, detection of floating objects (e.g. vegetation, foam, plastics, mammals).
- Investigate the potential of Machine Learning techniques in ocean colour applications.

...

[Details](#)

Deadline 07 Feb 2025

Tenure Track Scientist - Geology & Geophysics

WHOI Woods Hole, MA

The Department of Geology and Geophysics (G&G) at the Woods Hole Oceanographic Institution (WHOI) invites candidates to apply to the open full-time tenure track position on our scientific staff*. We seek to hire at the Assistant Scientist level, but exceptional candidates at more senior levels may be considered.

We seek applicants with expertise in the broad area of Coastal Systems, studying processes including coastal change, compound hazards, and adaptation. We seek candidates who would complement the existing strengths in G&G and other WHOI Departments. Research areas of interest include impacts of storms, climate change, and sea-level rise; geomorphology, sediment transport, and hydrodynamics; and tools such as modeling, remote sensing, and machine learning/big data. We welcome those working across a range of timescales and environments, including but not limited to the open coast, wetlands, deltas, barrier islands, coral reef environments, and the urban and built environment.

[Details](#)

Deadline February 15, 2025

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

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

GENERAL

GEOTRACES Student and Early Career Scientist Mailing List

**Students, early career scientists and supervisors:
please share this information with your colleagues!**

The [GEOTRACES Early Career Scientist \(ECS\) Committee](#) wishes to create a **mailing list** of GEOTRACES students (Master and PhD) and Early Career Scientists (be no more than 10 years from PhD completion - not counting time for career interruptions), to foster collaborations and promote activities within the framework of GEOTRACES science.



**Are you a GEOTRACES student or early career scientist? Would you like to be in?
Register here: <https://forms.gle/iSNWtQG58bMLrUBZ9>**

SCOR Large-Scale Ocean Research Projects

Beginning with the International Indian Ocean Expedition in the early 1960s, SCOR has been instrumental in planning and coordinating several large-scale ocean research projects. SCOR provides a mechanism for international scientists to develop and implement such projects. In recent years, SCOR has been joined by the International Geosphere-Biosphere Programme (IGBP), Intergovernmental Oceanographic Commission (IOC), and other organizations in promoting large-scale ocean research projects. The international versions of the Global Ocean Ecosystem Dynamics project, the Joint Global Ocean Flux Study, the Tropical Ocean-Global Atmosphere project, the World Ocean Circulation Experiment, and the Global Ecology and Oceanography of Harmful Algal Blooms program resulted from SCOR working groups or other subsidiary groups.

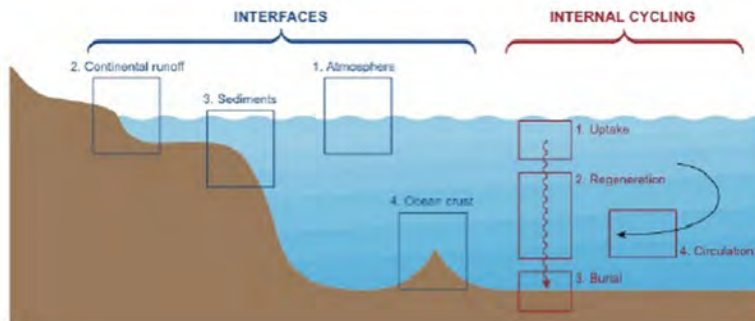


Current Projects

GEOTRACES - An International Study of the Marine Biogeochemical Cycles of Trace Elements and Isotopes



GEOTRACES mission is achieved through activities organized under three complementary themes: 1: Fluxes and processes at ocean interfaces, 2: Internal cycling and 3: Development of proxies for past change



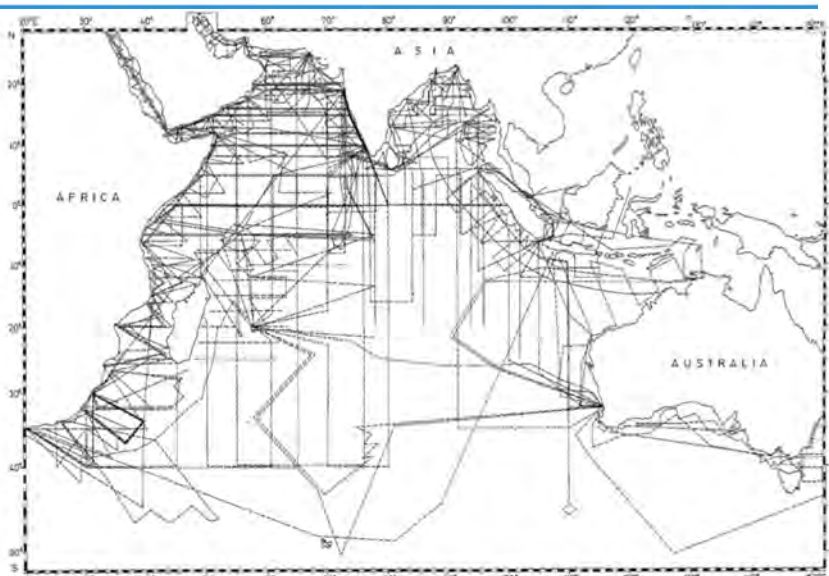
[GEOTRACES Website](#)

IIOE-2 Second International Indian Ocean Expedition.



The Second International Indian Ocean Expedition (IIOE-2) is a major global scientific program which will engage the international scientific community in collaborative oceanographic and atmospheric research from coastal environments to the deep sea over the period 2015-2025. [IOGOOS](#) the Indian Ocean Observing System of [GOOS](#) continues to play a major role in IIOE-2 data collection and dissemination. The IIOE-2's program will complement and harmonise with other regional programs underway and collectively the outcomes of IIOE-2 will be of huge benefit to individual and regional sustainable development.

[IIOE-2 Website](#)



Cruise tracks of research vessels during the International Indian Ocean Expedition. Based on information from the Office of Oceanography, UNESCO Paris

IMBeR Integrated Marine Biosphere Research



IMBeR is a large global research project which focuses on ocean sustainability in the context of global change. We want to understand past, present and future changes to the ocean. In particular, we want to know how we can achieve a sustainable ocean for the benefit of society. The Science Plan is now focussed around priority research objectives, under “Grand Challenges” 1. Understanding and quantifying the state and variability of marine ecosystems, 2. Improving scenarios, predictions and projections of future ocean-human systems at multiple scales and 3. Improving and achieving sustainable ocean governance.



[IMBeR Website](#)

IQOE - The International Quiet Ocean Experiment

IQOE is an international scientific program to promote research, observations, and modelling to improve understanding of ocean soundscapes and effects of sound on marine organisms.



Underlying the IQOE are five fundamental questions:

1. How have human activities affected the global ocean soundscape compared with natural changes over geologic time?
2. What are the current levels and distribution of sound in the ocean?
3. What are the trends in sound levels across the global ocean?
4. What are the current effects of anthropogenic sound on important marine animal populations?
5. What are the potential future effects of sound on marine life?

[IQOE Website](#)

SOLAS - Surface Ocean - Lower Atmosphere Study

Initiated with a first Open Science Conference in 2000 and formally launched in 2004, SOLAS research aims to understand the key biogeochemical-physical interactions and feedbacks between the ocean and atmosphere. Achievement of this goal is important to understand and quantify the role that ocean-atmosphere interactions play in the regulation of climate and global change.



The SOLAS science mission is organised around five core themes:

- 1: Greenhouse gases and the oceans
- 2: Air-sea interface and fluxes of mass and energy
- 3: Atmospheric deposition and ocean biogeochemistry
- 4: Interconnections between marine ecosystems, aerosols, and clouds
- 5: Ocean biogeochemical control on atmospheric chemistry

[SOLAS Website](#)

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 #141 will be distributed in **March 2025**.

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 la [SCMO](#).

Le Bulletin #141 sera distribué en **mars 2025**.

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

Abonnement et désabonnement

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

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

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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.

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