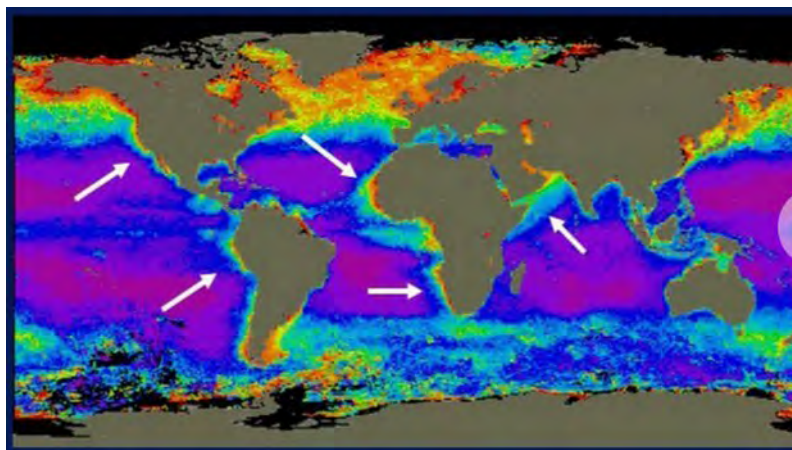


CANADIAN OCEAN SCIENCE NEWSLETTER
LE BULLETIN CANADIEN DES SCIENCES DE L'OcéAN

Newsletter Number 134, January 2024
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Guest Editor: *Guoqi Han*

[Atmosphere-Ocean](#) has just released a special issue featuring several modelling applications around Canada's coasts. The publication includes an editorial and several articles.

Editorial - Ocean Model Development and Application in Fisheries and Oceans Canada

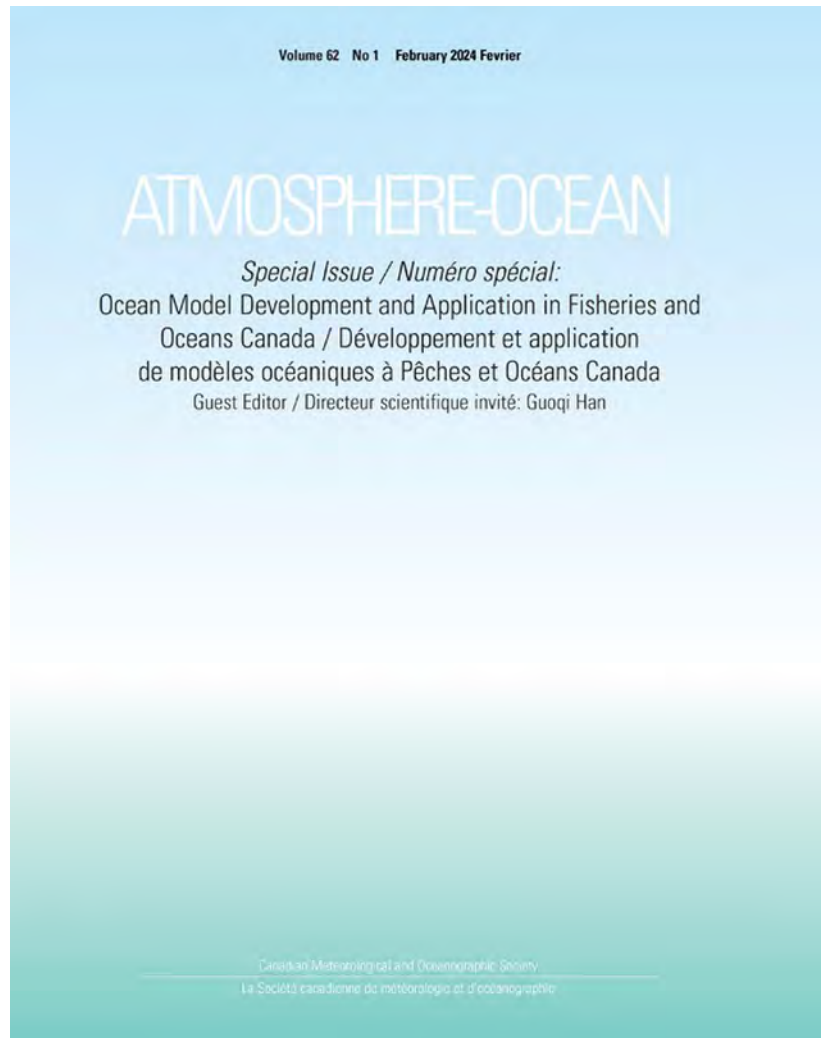
Guoqi Han

Ocean modelling is a key research programme in Fisheries and Oceans Canada (DFO) that supports research, advice, service, and decision-making. DFO ocean modelling has mainly focused on four themes: ocean climate modelling, short-term ocean forecasting, aquaculture-related modelling, and environmental quality (acoustic noise) modelling (Han et al., Citation2022).

Theme 1 Ocean climate modelling focuses on the development and application of regional ocean models. These models are used to produce hindcasts and future projections of physical and biogeochemical ocean conditions for Canada's Atlantic, Arctic, and Pacific oceans, in support of DFO management of ecosystems, fisheries, and coastal infrastructure. Theme 2 Short-term ocean forecasting develops and implements coastal and port models to predict ocean conditions within several days, for supporting ship navigation, search and rescue, and response to oil spills. Theme 3 Aquaculture-related modelling develops and applies nearshore ocean models, mainly to support DFO aquaculture regulatory programmes. Theme 4 Environmental quality modelling carries out numerical simulation of noise levels associated with large vessels, helping address DFO priority in marine conservation. The five papers in this special issue represent some of our recent research and applications in ocean climate modelling and aquaculture-related modelling.

Amid the United Nations Decade of Ocean Sciences for Sustainable Development, the DFO Ocean Modelling Community (MODCOM) continues to strengthen the coordination and collaboration in model development and application internally and externally. We work together to further enhance our ability and capacity in scientific innovation and service delivery.

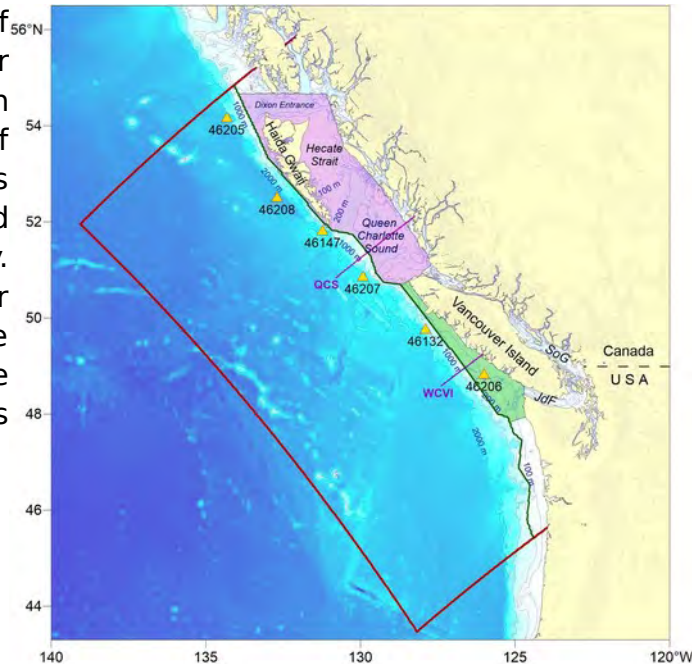
Reference: Han, Q., Bianucci, L., Chassé, J., Foreman, M., Holden, J., Horwitz, R., Holdsworth, A., Lambert, N., Lavoie, D., Le Corre, N. and Lu, Y., 2022. Status of DFO ocean modelling: A national



Future Physical and Biogeochemical Ocean Conditions under Climate Change along the British Columbia Continental Margin

M. Angelica Peña & Isaac Fine

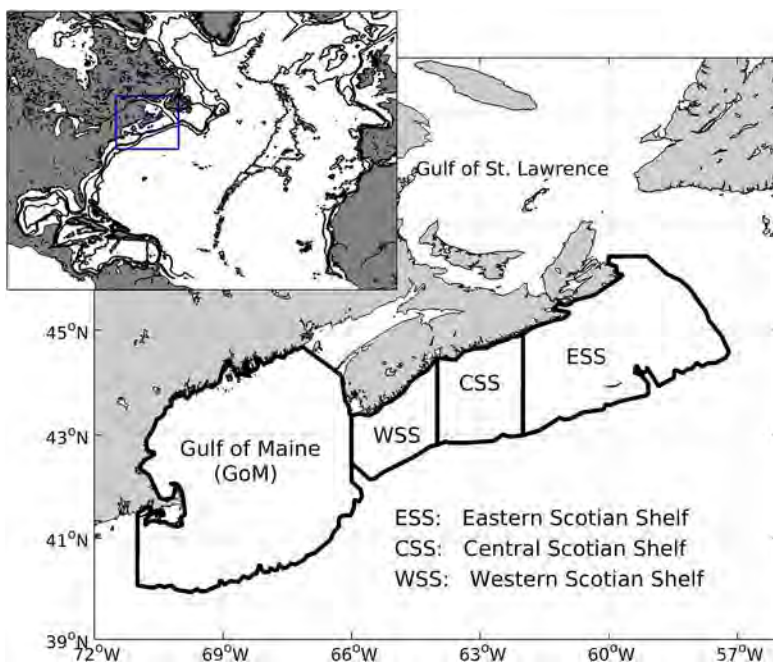
Fig. 1 Map of the British Columbia continental shelf showing the bathymetry. The red line shows the outer boundary of the British Columbia Continental Margin (BCCM) model, the green line the continental shelf boundary region, the purple and green shaded areas show the coastal regions: northern coast (NBC) and west coast of Vancouver Island (WCVI), respectively. The yellow triangle shows the location of the 6 weather buoys used in Fig. 3, and the magenta lines indicate the location of the transects used in and and the magenta lines indicate the location of the transects used in Figs 12 and 13.



Assessment of Ocean Temperature Trends for the Scotian Shelf and Gulf of Maine Using 22 CMIP6 Earth System Models

Zeliang Wang, David Brickman, Blair Greenan, James Christian, Brendan DeTracey & Denis Gilbert

Fig. 1 Map of research subareas. The outer edges of these areas are defined by the 200 m isobath. The inset at the top left shows the North Atlantic Ocean, and the location of the research region in this study (blue rectangle), and the solid lines indicate 200, 1000, 3000 m isobaths.



Seasonal Variability of the Ocean Circulation in Queen Charlotte Strait, British Columbia

Yuehua Lin & Laura Bianucci

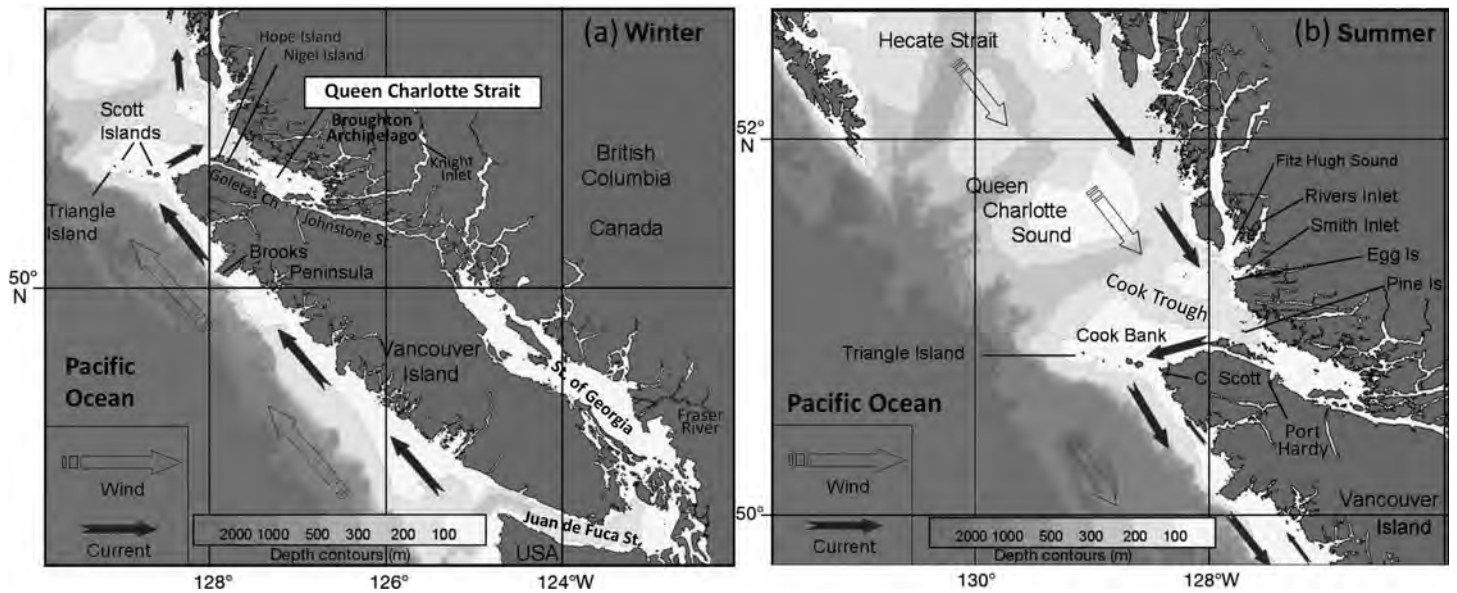
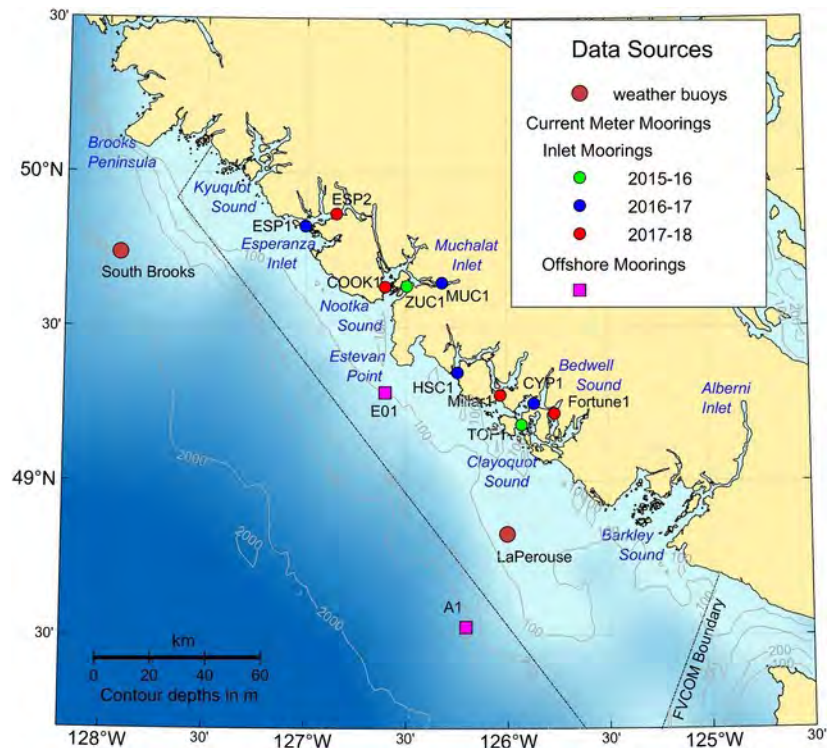


Fig. 1 Location of Queen Charlotte Strait (QCST) and general seasonal surface circulation in the region (Figure adapted from Borstad et al., 2011). Winds and surface currents off Vancouver Island are generally (a) southeasterly in the winter and (b) northwesterly in the summer. Ocean shading denotes water depths as indicated on the colour scale. The maps highlight geographic locations mentioned in the main text.

A Circulation Model for Inlets Along the Central West Coast of Vancouver Island

M.G.G. Foreman, P.C. Chandler, L. Bianucci, D. Wan, M.V. Krassovski, P. Thupaki, G. Cooper & Y. Lin

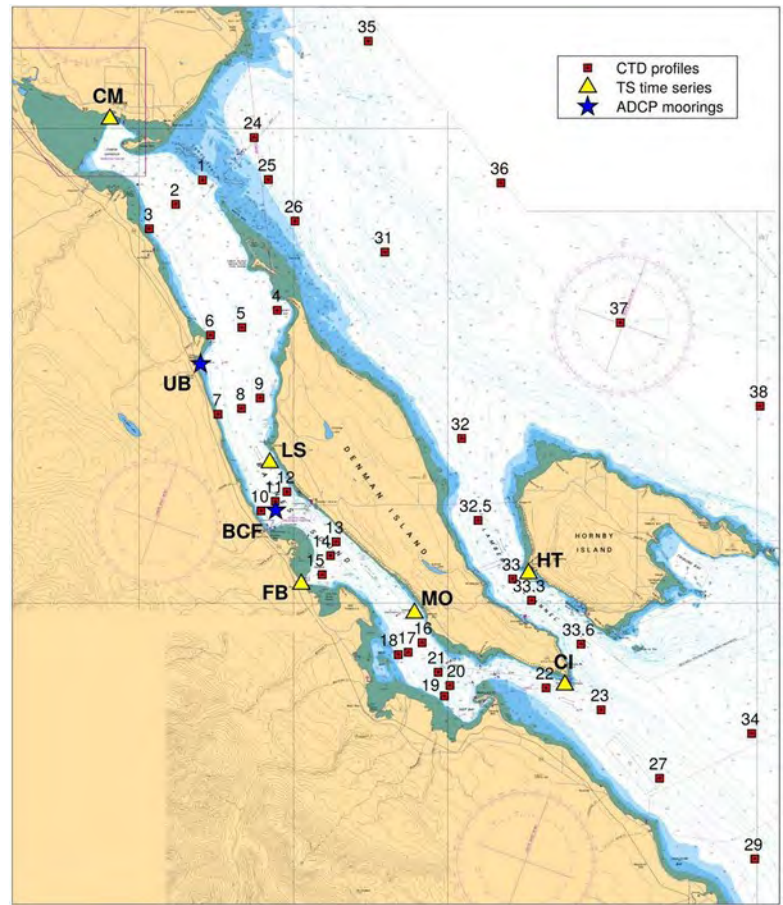
Fig. 1 Map of the central west coast of Vancouver Island showing relevant placenames, shelf bathymetry contours (metres), model boundary, offshore weather buoys, and ADCP moorings whose data are used this study.



A Circulation Model for Baynes Sound, British Columbia, Canada

Maxim V. Krassovski, Michael G.G. Foreman, Thomas Guyondet, Ramon Filgueira & Terri F. Sutherland

Fig. 1 Regional map of Baynes Sound showing CTD stations and locations of ADCP moorings (UB: Union Bay; BCF: BC Ferries) and temperature-salinity time series observations (CM: Comox Marina; LS: Lucky Seven; FB: Fanny Bay; MO: Mac's Oysters; CI: Chrome Island; HT: Hornby Terminal). The base map showing bathymetric contours (blue) and mudflat regions (green) was modified from the Canadian Hydrographic Service nautical chart #3527. CTD Stations 39 and 40 are outside of map coverage and are located east of Hornby Island roughly extending the line of Stations 35 to 38.



[Link](#) to Special Issue and all articles.

CMOS Awards

February 15th is the **deadline** for nominations for the **CMOS Prizes and Awards**. It may seem far away, but it always seems to arrive faster than we thought.

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.

CMOS
Canadian Meteorological and
Oceanographic Society



SCMO
Société canadienne de météorologie
et d'océanographie

Prix de la SCMO

Le 15 février est la **date limite** pour la soumission des mises en candidature pour **les prix et honneurs de la Société**. Cela semble peut-être loin, mais il semble toujours que la date arrive soudainement.

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

Récipiendaires des prix 2023 / Award recipients 2023

Prix du président / President's Prize *Alex Cannon*

Le Prix Dr. Andrew Thomson en météorologie appliquée / Andrew Thomson Prize in Applied Meteorology Not awarded / Pas décerné

Le prix François J. Saucier en océanographie appliquée / François J. Saucier Prize in Applied Oceanography *Gregory Smith*

La Médaille Neil J. Campbell pour service bénévole exceptionnel/ Neil J. Campbell Medal for Exceptional Volunteer Service *Karen Smith*

La Médaille Rube Hornstein en météorologie opérationnelle / The Rube Hornstein Medal in Operational Meteorology Not awarded / Pas décerné

La Médaille J.P. Tully en océanographie / J.P. Tully Medal in Oceanography *Rolf Lueck*

Le Prix Tertia M.C. Hughes pour étudiants diplômés / Tertia M.C. Hughes Memorial Graduate Student Prize *Andrew Grace*

Le Prix Roger Daley de publication post-doctorale / The Roger Daley Post-doctoral Publication Award *Jannes Koelling*

[Les Prix et les récipiendaires / Awards and recipients](#)



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 58

Virtual, June 3-6, 2024

Congress preparation is moving into high gear.



June 3-6, 2024 / 3-6 juin, 2024



Canadian
Meteorological and
Oceanographic Society
Société canadienne
de météorologie et
d'océanographie

58th Congress/58^e congrès
Extreme Events in a Changing Climate
Événements extrêmes dans un climat changeant

The Canadian Meteorological and Oceanographic Society (CMOS) 58th Congress is being co-hosted by the Winnipeg Centre and the BC Interior-Yukon Centre.

The Congress will be held during June 3-6, 2024. It will be fully virtual, making it more cost-effective for attendees, allowing for a broader range of contributions, as well as being environmentally friendly.

The theme of the Congress is “Extreme Events in a Changing Climate” and sessions will cover the latest science and solutions on the climate emergency, high impact weather, critical ocean challenges, the global water crisis, among others related to Earth system science.

The Congress will feature virtual plenary presentations by experts in their field. Science sessions will highlight top Canadian and international research contributions across a breadth of interests, as well as highlight the translation of science into services and policies that benefit society.

The Congress will provide a high level of virtual interaction among presenters and attendees for both oral and poster presentations, including sessions and engagement opportunities catered toward students and early career professionals.

Abstract submissions are now open! Please submit abstracts electronically on the [congress website](#) or via the [Abstract Submission link](#) by **15 February 2024**. You will be asked to select a specific theme or Session if possible. If you cannot find a relevant theme or session, please choose a "General" session and your paper will be assigned to a session with similar themed papers. Please indicate your preference for oral or poster presentation.

SCAR Open Science Conference 2024

Pucón, Chile, 19-23 August 2024

The SCAR Open Science Conference 2024 “Antarctic Science: Crossroads for a New Hope” will be held in Pucón, Chile from 19-23 August 2024. The conference will feature a comprehensive programme of plenary lectures, mini-symposia, parallel sessions, panel discussions, posters and various opportunities for social activities and excursions in and around beautiful Pucón.

The Open Science Conference, established over 20 years ago, has in many ways become the premier activity of SCAR that supports its mission to promote and facilitate international Antarctic and Southern Ocean science. These biennial meetings have become fertile ground for the exchange of the latest and highest profile Antarctic research outcomes and a place where future collaborations are born.



[Abstract submission](#) **deadline 4th March 2024, 23:59 UTC.**

Conference [website](#).

MTS Buoy Workshop

May 20 - 23, 2024, Sequim, WA, USA

Since the 1960s, these Buoy Workshops have covered the technology of oceanographic, weather, and other buoy systems. Originally based on the suggestion and support by the Office of Naval Research, buoy workshops have been organized and supported every two years since 1996 to foster communication and exchange between designers, assemblers, operators, and users of buoy systems.

Pre-Workshop Event: Mooring Design Seminar

What's needed is purpose-built software to make it easy to find parts, arrange, them, and adjust them into a design. ProteusDS Oceanographic Designer is a free purpose-built software tool for oceanographic mooring design. Join face to face or virtually for a Mooring Design Seminar with ProteusDS Oceanographic Designer in partnership with MTS and the Buoy Workshop. We'll cover the details of the design process and go through working with the software to put together basic mooring designs. Use the live training session to ask questions on software use and collaborate with others in the oceanographic mooring sector. Monday, May 20, 2024 2:00-4:00pm, 7 Cedars Casino, Room Cedar.



Opportunity runs deep™

May 22, 2024, Afternoon Site Tour: Pacific Northwest National Laboratory - requires preapproval paperwork.

Abstract **deadline March 22, 2024**

Workshop [website](#)

OCEANS 2024

Halifax, September 23-26, 2024

OCEANS is an annual event for global marine technologists, engineers, students, government officials, lawyers, and advocates. At OCEANS 2024 Halifax, industry thought leaders gather for four days to highlight relevant topics and current trends while creating a community of learners and influencers who consistently advance research, practices, and policies for the marine field.



A premier partner event presented by [The Marine Technology Society](#) and the [IEEE Oceanic Engineering Society](#).

The conference program at OCEANS 2024 Halifax will feature compelling speakers, a suite of technical sessions, panels, and special events on emerging topics such as sensing and automation in offshore wind energy, commercial shipping, carbon removal, aquaculture, and others. Co-located onsite will be several complementary science, policy, and entrepreneurship conferences, workshops, and meetings in the beautiful new Halifax Convention Centre, bringing even more people, action, and interaction to your visit to Halifax. Halifax is a blue economy hub in North America, known for warmth and hospitality. You can expect to feel at home while we meet colleagues old and new.



Abstract submission open early 2024.

Conference [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

Tenure-track assistant professors (Indigenous applicants)

University of Victoria, Victoria BC

The Faculty of Science is excited to invite Indigenous applicants for three faculty positions in any field of Science. The three available positions are at the tenure-track assistant professor level and are cross-posted across our six departments: Biochemistry & Microbiology, Biology, Chemistry, Earth & Ocean Sciences, Mathematics & Statistics, and Physics & Astronomy.



Qualified candidates will have:

- A PhD degree in either life sciences, natural sciences, mathematics, or related discipline; or expect to obtain that degree soon (“all but dissertation”).
- Potential to develop an impactful, independent research program as demonstrated for example through high-quality research shared through outlets such as academic publications, interdisciplinary projects, and community-based projects.
- A commitment to undergraduate and graduate education (such as supervision/mentorship) including
 - potential to develop and teach courses.
 - potential to implement new teaching initiatives.
 - potential to supervise diverse personnel effectively and create an equitable and inclusive working environment.
- Record of, or potential for excellence in teaching, mentoring and advising at both the undergraduate and graduate levels.
- ...

Application will be reviewed starting from **March 4th, 2024**. Applications will be accepted until all three positions are filled.

[Details](#)

Microbial Oceanographer

University of Hawai’i at Manoa

Tenure-Track Faculty Position: Microbial Oceanographer specializing in Pelagic Ecosystem Processes

The Department of Oceanography, University of Hawai’i at Mānoa (UHM) invites applications for a full-time, tenure-track, 9-month faculty position in Microbial Oceanography at the rank of assistant professor.

We seek a candidate who will expand the expertise of our department and integrate undergraduate and graduate education with cutting-edge research. Since its founding over half a century ago, the department has been a world leader in interdisciplinary oceanographic research and education, and we are excited to grow our dynamic, vibrant community with new colleagues to continue this legacy. UHM is the only recognized Native Hawaiian-serving R1 university and draws students from a diverse population including Hawaiian, Pacific Islander, and Asian ethnicities. The Department of Oceanography is committed to serving and affirming our unique community and culture in the center of the Pacific Ocean and to continued research excellence.



Review of applications will begin on **1 March 2024**.

[Details](#)

Bourse de doctorat Réduction du bruit des navires

ISMER/UQAR, Rimouski Québec

L'équipe de recherche en acoustique marine de l'Institut des sciences de la mer (ISMER) de l'Université du Québec à Rimouski (UQAR) offre une bourse d'études au doctorat en océanographie. La personne retenue participera à des projets multidisciplinaires liés à la mesure, la modélisation et la réduction du bruit sous-marin lié à la navigation. Elle s'intéressera aux effets combinés des mesures de réduction du bruit rayonné par les navires, sur l'exposition des animaux marins au bruit sous-marin, sur les émissions de gaz à effet de serre, et sur la chaîne d'approvisionnement maritime (temps de trajet, coûts ...).



Université du Québec à Rimouski
Institut des sciences de la mer de Rimouski

La personne recrutée intégrera une équipe multidisciplinaire dédiée à mesurer, comprendre, modéliser et atténuer le bruit sous-marin rayonné par les navires et leurs effets sur la faune marine. Elle s'intéressera à l'efficacité des méthodes de réduction du bruit des navires, ainsi qu'à leurs effets collatéraux sur les émissions de gaz à effets de serre les temps de trajet et les coûts d'opération des navires.

Les candidatures seront évaluées à partir du **1er mars 2024**.

[Détails](#)

Canada Research Chair Tier 1 in Digital Twin Engineering for Ocean Industries

Dalhousie University, Halifax, Nova Scotia

The Department of Industrial Engineering within the Faculty of Engineering at Dalhousie University in Halifax, Nova Scotia, Canada, invites applications for a Tier 1 NSERC Canada Research Chair (CRC) in "Digital Twin Engineering for Ocean Industries". The Canada Research Chair Program was established by the Government of Canada with the purpose of attracting outstanding researchers to the Canadian university system. Tier 1 Chairs, tenable for seven years and renewable once, are for outstanding researchers acknowledged by their peers as world leaders in their fields. More information on the CRC Program and eligibility can be found at www.chairs.gc.ca.



**DALHOUSIE
UNIVERSITY**

FACULTY OF ENGINEERING
Department of
Industrial Engineering

Dalhousie University is a world leader in ocean research, complementing a thriving ocean industry sector and research facilities in the region, including COVE, the PIER, and Ocean Supercluster. In particular, the Ocean Frontier Institute (OFI), established in 2015 and headquartered at Dalhousie University, is a global leader for innovative ocean research. OFI was recently awarded a \$155M+ award from the Canada Research Excellence Fund, for Transforming Climate Action (TCA), a major investigation into climate change and the ocean, with a focus on mitigation and adaptation solutions.

The Chair will perform cutting-edge research to develop advanced Decision Support Systems (DSS) to support sustainable human uses of ocean spaces. This will require new conceptual and technical research, advancing the state of the art in Digital Twin Engineering by applying operations research, systems engineering and simulation to offshore technologies, including those which help mitigate climate change such as offshore wind farms.

Closing date March 15 2024

[Details](#)

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

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

GENERAL

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**, by email to the CNC -SCOR secretary: davidgreenberg@alumni.uwaterloo.ca to be considered by the selection Committee.

More details can be found in the [November 2023 Newsletter](#).



Prix du CNC du SCOR pour océanographe en début de carrière

Le prix pour océanographe en début de carrière est présenté à un océanographe ou à un 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 : le lauréat 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 du CSRO) 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**, par courriel, au secrétaire du CNC du CSRO à davidgreenberg@alumni.uwaterloo.ca afin de pouvoir être considérées par le comité de sélection.

Plus de détails peuvent être trouvés dans le [bulletin de novembre 2023](#).

CMOS Undergraduate Scholarships

CMOS

Canadian Meteorological and
Oceanographic Society



SCMO

Société canadienne de météorologie
et d'océanographie

The Canadian Meteorological and Oceanographic Society (CMOS), the premier Society for atmospheric and oceanographic sciences in Canada, offers [undergraduate scholarships](#) to students in atmospheric sciences, meteorology, climate, oceanography and related fields (e.g., mathematics, hydrology, limnology).

The application **deadline** for the undergraduate scholarships is **March 15th, 2024**.

You do not have to be a member of CMOS to apply.

The **CMOS Undergraduate Scholarships** are awarded to students applying while in their penultimate undergraduate year at any Canadian University who, in their final year, will be taking four or more half courses in meteorology, oceanography, limnology, hydrology or climatology.

Two of these scholarships can be awarded each year. Each scholarship is \$2,000,

The **CMOS Daniel G. Wright Undergraduate Scholarship** is awarded to an undergraduate student applying while in the penultimate undergraduate year intending entering the final year of a B.Sc. Honours program in Mathematics and/or Physics or a related discipline, with interest in pursuing graduate work in physical oceanography. The scholarship is \$2,000.

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

SCMO bourses d'études de premier cycle

La Société canadienne de météorologie et d'océanographie (SCMO), la Société principale au Canada pour les sciences atmosphériques et océanographiques, 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.)

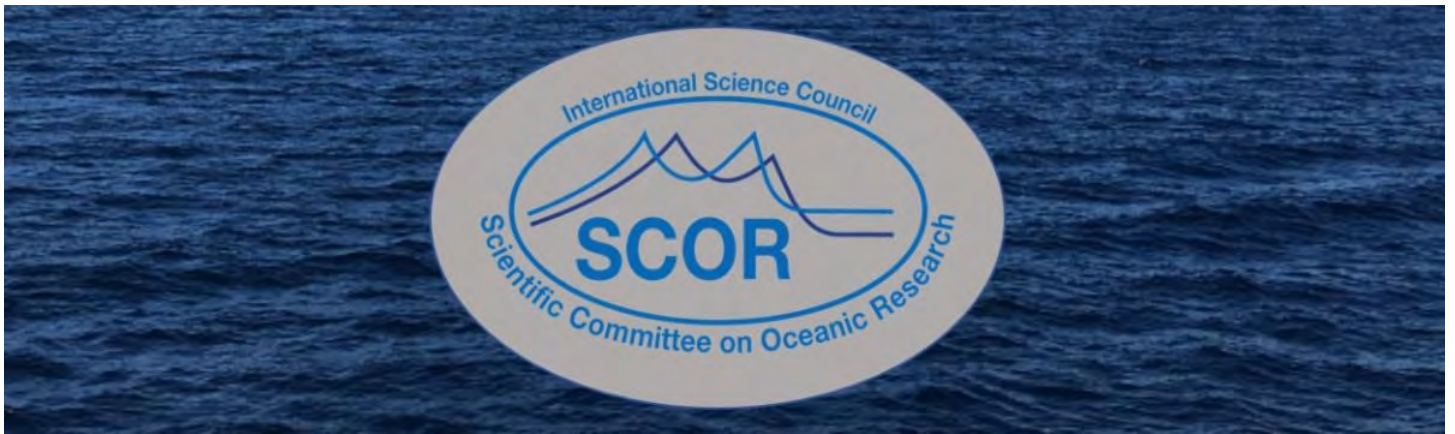
Le **15 février** est la **date limite** pour la soumissions des mises en candidature pour les prix et honneurs de la Société.

Les **Bourses d'étude de premier cycle SCMO** sont décernées chaque année à des étudiant(e)s dans leur avant-dernière année du premier cycle dans une université canadienne qui, dans leur dernière année suivront au moins quatre cours de 3 crédits chaque dans au moins un des domaines suivants : météorologie, océanographie, limnologie, hydrologie ou climatology

La **Bourse d'étude de premier cycle Daniel G. Wright** est décernée chaque année à un(e) étudiant(e) qui lors de la soumission de sa candidature est dans l'avant dernière année du premier cycle qui dans sa dernière année d'un programme du premier cycle poursuivra des études avec concentration en physique, en mathématique et/ou sciences connexes ,avec un intérêt à poursuivre des études de deuxième ou troisième cycle en océanographie physique.

Toutes nominations doivent être soumises au Coordinateur des honneurs de la SCMO au coord-honneurs@scmo.ca





The SCOR December Newsletter reports on the 2023 Annual Meeting recently held from 14-16 October in Guayaquil, Ecuador and issue an invitation to the upcoming meeting 16-18 October 2024 in Qingdao, China.

Three new Working Groups were approved at the SCOR 2023 Annual Meeting

The three working groups are currently finalizing their terms of reference and membership with SCOR based on feedback from the reviews:

SCOR WG 168, Coordinating the Development of Gridded Four-Dimensional Data Products from Biogeochemical-Argo Observations (4D-BGC): The WG will enhance access and utility of BGC-Argo observations through 4D-BGC products, and thus refine our understanding of ocean biogeochemistry, improve models and reanalysis products, and inform policy decisions

SCOR WG 169, Global Library of Underwater Sounds (GLUBS): This WG will collate underwater sounds and develop practices and AI tools for categorizing sounds.

SCOR WG 170, Physiology and Rates in Microbial Oceanography (PRIMO): This WG will develop a community and framework for co-designing physiological metrics as currency converters to link 'omics datasets and BGC models. *Note this WG was proposed under the acronym NEMOO

Each WG will have a page with more information on the [SCOR website](#).

Recipients of the 2023 POGO-SCOR Fellowships have been announced. POGO-SCOR Fellowships are provided to support training in oceanographic observations for developing country scientists. Applications are due annually in May. More information can be found [here](#).

There is **news from the Working Groups and Projects** and a list of new publications, including:



The Marine Ecosystem Assessment for the Southern Ocean (MEASO): Summary for Policymakers provides a timely update of scientific finding on the changes in the ecosystems of the Southern Ocean.

[Full Newsletter](#)

Ocean Sound Essential Ocean Variable Implementation Plan. The plan provides background for the importance of this EOVS and the steps required to implement it.



GEOTRACES Announces timeline of Fourth Intermediate Data Product

GEOTRACES' mission is to identify processes and quantify fluxes that control the distributions of [key trace elements and isotopes](#) in the ocean, and to establish the sensitivity of these distributions to changing environmental conditions.

The central component of GEOTRACES is a series of cruises spanning the global ocean ([see map](#)) and sampling the full water column. These dedicated GEOTRACES cruises collect water without contamination and particles for analysis of a wide range of trace element and isotopes. This strategy reflects the fact that more will be learned through simultaneous investigation of multiple elements than by studying single elements in isolation.



Process studies and modelling, together with comprehensive methods intercalibration and data management, complement the ocean section work that forms the core of the GEOTRACES programme.

A major effort is made to store program results into databases. The GEOTRACES Data Management Committee is pleased to announce the planned release of the fourth Intermediate Data Product (IDP) in November 2025. Because of the very large number of datasets that are being submitted for the IDP, we encourage submission of your datasets as soon as possible to improve the chances that they are included in the IDP. There is a considerable lead time. Deadline for guaranteed inclusion is 15 May 2024, with a strict cut off for possible inclusion with a final deadline of 15th of December 2024.

[Full Details](#)

Call for Applications for the GEOTRACES Early Career Scientists Committee

GEOTRACES (www.geotraces.org) is an international programme which aims to improve the understanding of biogeochemical cycles and large-scale distribution of trace elements and their isotopes in the marine environment. Scientists from approximately 35 nations have been involved in the programme, which is designed to study all major ocean basins.



GEOTRACES is seeking early career professionals to join a global Early Career Scientist (ECS) Committee. Early Career Scientists make up a significant portion of the GEOTRACES community and scientific capacity, and GEOTRACES would like to initiate the ECS Committee to better represent the unique insights, priorities, and concerns of this critical group at the international level. Requirements: Applicants should have completed their PhD, but be no more than 10 years from PhD (not counting time for career interruptions), and should possess knowledge and experience relevant to GEOTRACES. Candidates from developing countries, and backgrounds underrepresented in marine science, are encouraged to apply.

2021-2030 United Nations Decade of Ocean Science for Sustainable Development



Application and Review Process: The application form can be found [here](#).

Deadline for applications is **1st of April 2024**. The GEOTRACES Scientific Steering Committee will review and select candidates by end of May 2024.

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

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Newsletter #135 will be distributed in **DD 2024**.

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

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Le Bulletin #135 sera distribué en **EE 2024**.

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

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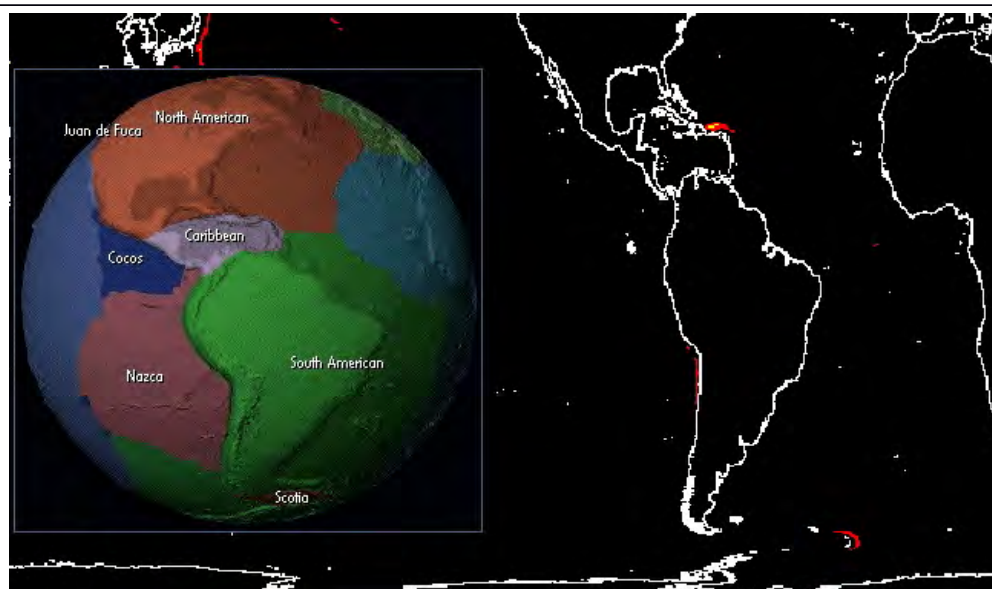
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Le Comité national canadien du Comité scientifique de la recherche océanographique (SCOR) favorise et facilite la coopération internationale. Il reflète la nature multidisciplinaire de la science océanique et de la technologie marine.

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