

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

Newsletter Number 112, May 2020
Bulletin numéro 112, mai 2020

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OCEAN SCIENCE NEWS

World Ocean Day June 8 2020

World Ocean Day is understandably a bit subdued this year, but there are still many interesting activities going on.

[The Official United Nations World Oceans Day Portal](#) The United Nations celebrates World Oceans Day every year on 8 June. Many countries have celebrated this special day since 1992, following the United Nations Conference on Environment and Development, held in Rio de Janeiro.

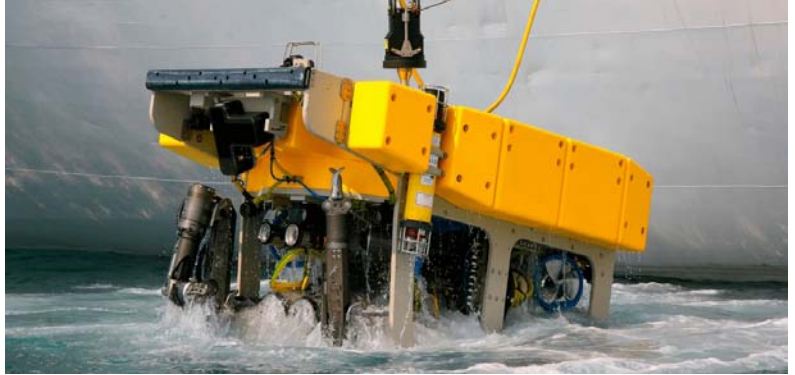
In 2008, the United Nations General Assembly decided that, as of 2009, 8 June would be designated by the United Nations as “World Oceans Day”.

Every 8 June, we have an opportunity to raise global awareness of the benefits humankind derives from the ocean and our individual and collective duty to use its resources sustainably. Future generations will also depend on the ocean for their livelihoods!

Aquariums, science centers and research institutions, NGOs, communities and governments all around the world mobilize millions of people around [events](#) big and small. This is your portal to finding which events are happening around the world and in your neighborhood.

The theme this year is [Innovation for a Sustainable Ocean](#)

[The Ocean Project](#) has been collaboratively growing [World Oceans Day](#) since 2002 as a way to raise the profile of the ocean on 8 June and rally the world for action in June, and expanding involvement in conservation campaigns year-round. Under their leadership, World Oceans Day has grown from a handful of events in a few countries before 2002 into a global celebration of our ocean with more than 2,000 events in 140 countries in 2019. They proactively engage year-round with groups in all sectors to help them get involved in celebrating our shared ocean that we all need to survive and thrive and providing meaningful ways, tools and resources for event organizers to promote individual and collective action for ocean conservation.



glas Kahle



[Twitter @WorldOceansDay](#) has interesting stories, pictures and short videos.

The official [World Ocean Day website](#) has events, youth programs and resources.

MEOPAR National Research Vessel Task Team

MEOPAR is pleased to announce that in late February, the National Research Vessel Task Team (NRVTT) held its first meeting of the full membership, led by its two co-chairs, Douglas Bancroft (CSSR-ROPOS) and Douglas Wallace (MEOPAR). The NRVTT is supported financially and logistically by MEOPAR as a broad-based community effort, linked to diverse entities and organisations that have interest in major seagoing research infrastructure.



It will examine needs and opportunities across the country and provide advice on ways forward. This is intended as a national dialogue where the interests, needs and capacities of different disciplines and sectors (industry, government, funding agencies and academia), and different parts of the country, can be considered together, and where new ways of providing and supporting this important research capacity can be discussed and evaluated.

At this time, the NRVTT is looking to expand its membership, and it will name a third co-chair in the near future. The NRVTT is working on a number of different projects at the moment, including development of the modular ocean research infrastructure (MORI) concept, researching the history of access to research vessels in Canada over the past decades and bringing fresh, new ideas for sharing of infrastructure to the table.

For more information, and to learn more about our membership and Terms of Reference, please visit the MEOPAR [webpage](#).



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,
david.greenberg@dfo-mpo.gc.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,
david.greenberg@dfo-mpo.gc.ca*

MEETINGS

CMOS Congress 2020 Online

May 26 - June 12

Arrangements for holding CMOS 2020 online have now been completed. See the May 20 announcement below. The program is available [here](#).



(le français suit)

Dear CMOS Members and friends,

We are pleased to announce that the online alternative to the 54th Congress of the Canadian Meteorological and Oceanographic Society (CMOS) is going ahead from Monday, May 25 to Wednesday, June 10, 2020.

After receiving enthusiastic support for moving the Congress online, we worked with convenors to create an online forum consisting of 16 virtual sessions spread out over three weeks. These sessions cover a broad range of topics related to the Congress theme of “Building Societal Resilience to Changing Weather, Climate, Oceans and Environment”.

The Congress website (https://www.cmos.ca/site/congress_home) has been reconfigured to support the new format, and the revised program and registration page can be found there. The sessions will be hosted by their convenors and will be live-streamed, primarily using Zoom. **There are no fees** associated with joining this online event, but **all participants must register** to obtain access to the virtual sessions.

We encourage you to share this announcement of online sessions with people who are not members of CMOS. There are many sessions of potential interest to the broad science and policy community.

*Update May 21: [The **Annual General Meeting scheduled for Monday, May 25, 2020 has been postponed**. It will be rescheduled during the fourth week of June. CMOS Council made this decision during today's meeting due to delays in receiving all information required to complete the audit of the financial statements for the year ending December 31, 2019. The postponement will allow the financial statements to be completed in the next couple of weeks. They will then be shared with you to give you an opportunity to review before our June meeting.]*

This online format is a new endeavour for CMOS, and we hope it will provide useful lessons for adding a virtual component to future Congresses. And although we will miss meeting old friends and new colleagues in Ottawa, we look forward to hearing about our community's scientific results and seeing many of you online in a few weeks!

If you have any questions, please contact Gordon Griffith at exec-dir@cmos.ca.

Best wishes,

Kimberly Strong, CMOS President

Bruce Angle, 2020 CMOS Congress LAC Chair

Leonard Barrie and Gordon McBean, 2020 CMOS Congress SPC Co-Chairs

Gordon Griffith, CMOS Executive Director

Cher(e)s membres et ami(e)s de la SCMO,

Nous sommes heureux d'annoncer que l'alternative en ligne au 54^e Congrès de la SCMO se déroulera du lundi 25 mai au mercredi 10 juin 2020.

Après avoir reçu un soutien enthousiaste pour la mise en ligne du Congrès, nous avons travaillé avec des organisateurs pour créer un forum en ligne composé de 16 sessions virtuelles réparties sur trois semaines. Ces sessions couvrent un large éventail de sujets liés au thème du Congrès "Renforcer la résilience de la société face aux changements météorologiques, climatiques, océaniques et environnementaux".

Le site Web https://www.cmos.ca/site/congress_home a été reconfiguré pour prendre en charge le nouveau format virtuel du Congrès. Le programme révisé et la page d'inscription s'y trouvent aussi. Les séances seront animées par l'organisateur de chacune et seront diffusées en direct, principalement à l'aide de Zoom. **La participation à cet événement en ligne est gratuite, mais les participants doivent s'inscrire pour accéder aux séances virtuelles.**

Nous vous encourageons à partager cette annonce avec les personnes qui ne sont pas membres de la SCMO. De nombreuses séances sont susceptibles d'intéresser l'ensemble des communautés liées aux sciences et aux politiques.

Mise à jour du 21 mai: [L'assemblée générale annuelle prévue pour le lundi 25 mai 2020 a été reportée. Elle aura lieu au cours de la quatrième semaine du mois de juin. Le Conseil d'administration de la SCMO a pris cette décision lors de la réunion d'aujourd'hui en raison de retards dans la réception de toutes les informations requises pour achever l'audit des états financiers de l'exercice se terminant le 31 décembre 2019. Le report permettra de terminer les états financiers au cours des deux prochaines semaines. Ils seront ensuite partagés avec vous pour vous donner l'occasion de les examiner avant notre réunion du mois de juin.]

Ce nouveau format en ligne, nous l'espérons, fournira des pistes de solution utiles pour ajouter une composante virtuelle aux futurs congrès. Et même si la rencontre d'anciens amis et de nouveaux collègues, qui avait été prévue à Ottawa, nous manquera, nous sommes impatients de connaître les résultats scientifiques de notre communauté et de vous voir nombreux en ligne dans quelques semaines!

Pour toute question, veuillez communiquer avec Gordon Griffith à l'adresse exec-dir@cmos.ca.

Amicalement,

Kimberly Strong, présidente de la SCMO

Bruce Angle, président du comité local d'organisation du Congrès 2020 de la SCMO

Leonard Barrie et Gordon McBean, coprésidents du comité du programme scientifique du Congrès 2020 de la SCMO

Gordon Griffith, directeur général de la SCMO



OCEANS 2020 Singapore to go Virtual

Oceans 2020, August 11-14 - Virtual
Oceans 2024, 15-18 April, Singapore

The May 16 Announcement:

OCEANS 2024 Singapore:

OCEANS 2024 is tentatively scheduled for 15-18 April 2024 at the same venue, Marina Bay Sands Expo and Convention Center. This opens up another opportunity to many of you who were really looking forward to take part in the OCEANS 2020 Singapore. We hope to showcase an even better conference in 2024 and look forward to meeting you all in person then.

OCEANS 2020 Singapore to go Virtual:

Many of you would have spent days in writing up your research works in preparation for presenting it at the conference. The LOC and OSC felt that our inability to host a physical conference should not stop your research work from going unnoticed. So, we are preparing to host a virtual conference. All the delegates would have by now received a feedback form from the Technical Chair requesting your interest to present your work in the virtual conference. Details on the technical programme, exhibitor opportunities and the registration fees for the delegates etc., will be posted on the [conference website](#) soon. Please check back regularly for updated information.



OCEANS 2020 Gulf Coast - assessing

October 19-22, 2020, Mississippi Coast Convention Center

COVID-19 UPDATE: IEEE, MTS and the OCEANS 2020 Local Organizing Committee has watched the development of COVID-19 with deep concern for those impacted. We are closely monitoring



the situation and reassessing health and safety measures to ensure a safe environment for everyone participating in the Oceans 2020 Conference & Expo to be held this October in Biloxi, MS. We are proceeding as planned. We will continue to monitor the situation and will heed official guidance from U.S. authorities and international healthcare organizations. We will provide updates to

this website as more information becomes available.

Global thought leaders and innovators in the areas of marine technology, engineering, science, research, and education will gather together to learn and experience cutting-edge technologies in the field of marine science, hear from industry experts and engineers regarding the latest research and innovations, discuss current environmental issues and policies affecting the field, and collaboratively work together to move the fields of marine technology and engineering forward.



Check the [conference website](#) for updates.

Please send meeting announcements to
David Greenberg,
david.greenberg@dfo-mpo.gc.ca

SVP faites parvenir vos annonces de réunion à
David Greenberg,
david.greenberg@dfo-mpo.gc.ca

POSITIONS AVAILABLE

Professeure ou professeur en physiologie cellulaire

UQAR, Rimouski, QC

L'Université du Québec à Rimouski, qui accueille annuellement environ 7000 étudiants principalement aux campus de Rimouski et de Lévis, désire engager une professeure ou un professeur régulier en physiologie cellulaire, rattaché(e) au Département de biologie, chimie et géographie au campus de Rimouski.

La personne recherchée doit détenir un doctorat en biologie ou dans une discipline pertinente au profil recherché.

La ou le professeur(e) devra posséder une expertise en biologie, écologie ou évolution des poissons. Ce ou cette professeur(e) s'intégrera une équipe de professeurs en biologie s'intéressant notamment à l'écologie animale, la physiologie évolutive, l'écologie moléculaire, les changements globaux en milieu marin et la paléontologie.

La personne retenue pourra également s'investir au sein du groupe de recherche Boréas sur les environnements nordiques.

La personne retenue devra participer à l'enseignement au 1er et/ou 2e cycles universitaires.

[Détails](#)

Date d'entrée en fonction : 1^{er} décembre 2020

Date limite 1^{er} août 2020 à 16 h 30



Postdoctoral Scientist: Salmon Population Risk Assessment

Pacific Climate Impacts Consortium (PCIC), University of Victoria

[PCIC](#) is seeking a Postdoctoral Scientist to study Salmon Population Risk Assessment. The Postdoctoral Scientist will undertake risk assessment and related research under climate change scenarios to characterize spatio-temporal risk levels at two life history stages (i.e. adult migration and egg-alevin incubation) for salmon conservation units in select BC drainages. This work will employ outputs of climate change projections of hydrological and thermal regimes to assess potential limits on the ability of salmon populations of wild- and hatchery-origin to sustain production or respond to restoration efforts among diverse BC watersheds. They will work at PCIC under the supervision of the Lead for the Hydrologic Impacts theme and will collaborate very closely with DFO scientists.

[Details](#)

Review of applicants will start **immediately** and continue until suitable candidates are found.



PhD Research Opportunities UBC

Department of Earth, Ocean and Atmospheric Sciences

The distribution and cycling of methane and nitrous oxide in oceanic oxygen minimum zones

Level: PhD

Start Date: September 2017

Supervisor: Philippe Tortell

Methane and nitrous oxide are potent greenhouse gases, with variable and poorly quantified oceanic sources. This research project will include extensive field based measurements of methane and nitrous oxide concentrations in the Subarctic Pacific Ocean and in the Canadian Arctic Archipelago, and experimental measurements of production / consumption rates using isotope-labelling experiments. The project involved close collaboration with Dr. Steven Hallam (UBC Microbiology Dept.).

Contact ptortell@eoas.ubc.ca

Probing the oceanic cycle of Dimethylsulfide

Level: PhD

Start Date: September 2017

Supervisor: Philippe Tortell

Dimethylsulfide (DMS) is a climate-active gas, which has been implicated as an important control on the atmospheric radiative balance.

This gas, along with several related sulfur compounds, is cycled rapidly through the marine food web. The complexity of the marine DMS cycle has thus far made it challenging to understand the controls on the oceanic production of this gas. Using novel, sea-going mass spectrometric methods, we are currently examining the spatial and temporal distribution of DMS concentrations in the NE Subarctic Pacific, and in coastal Antarctic waters, and we are developing isotope labelling experiments to quantify the rates of DMS production and consumption through various metabolic pathways. This project aims to continue the development and implementation of these methods to gain a better mechanistic understanding of the oceanic DMS cycle.

Contact ptortell@eoas.ubc.ca



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

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

GENERAL

Special issue JGR-Oceans - Arctic Research

Title: Uncovering the hidden links between dynamics, chemical, biogeochemical and biological processes under the changing Arctic

Catastrophic reduction of sea ice in the Arctic Ocean would exacerbate multi environmental stresses, including warming, acidification, and stratification. What are the missing links in oceanographic process (physical, chemical, biogeochemical and biological processes) with the rapid changes in the Arctic? In order to answer this question, Japanese and Korean national projects, Arctic Challenge in Sustainability (2015-2020) and the Korea-Arctic Ocean Observing System (2016-2020), and international projects, GEOTRACES, GO-SHIP and Pacific Arctic Group have tackled urgently and conducted the intensive survey. Various new findings, meso-scale eddies, changes in the lower trophic level organisms, specific functions of nitrogen cycle, influence of ocean acidification on calcifiers, and geochemical characteristics in the water column are reported. This special section of the Arctic would be of interest and beneficial to the oceanographic community of JGR-Oceans, and our national and international collaborative efforts will be timely manner and significantly promote further collaborative researches in near future.

exacerbate multi environmental stresses, including warming, acidification, and stratification. What are the missing links in

AGU
JGR
Oceans



Call for paper open: 1 Aug, 2020
Deadline of submission: 15 Dec, 2020

The Martin Bergmann Medal for Excellence in Arctic Leadership and Science

Established by the [Royal Canadian Geographical Society](#) in 2012, the [medal](#) recognizes achievement for “excellence in Arctic leadership and science”. It celebrates “Marty” Bergmann, a public servant with an outstanding talent for networking that led him to connect scientists with resources and technology, to inspire business leaders, explorers and innovators towards new goals and to consider and attempt to meet the challenges inherent in opening up the Arctic, whether these were related to logistics, safety, resources, people, knowledge or will.



The Martin Bergmann Medal is awarded for:

- distinguished accomplishments in Arctic leadership and science in the Canadian Arctic
- excellence for a recent outstanding achievement, or for a lifetime of achievement, both being equally eligible.

All nominations [must be made on-line](#) and received at the Society’s office by 11:59 pm EST on June 30.

OERA Request for Proposals

The OERA, in collaboration with the Nova Scotia Department of Energy and Mines, is seeking proposals from service companies, academic groups, or collaborative combinations thereof to provide fundamental advances and insights on the general geological factors that impact Nova Scotia's offshore petroleum resources through a reassessment of basic basin-forming and petroleum system-forming constraints and processes.



PaGeo2 projects will address the basic boundary conditions for basin formation and petroleum system evolution in offshore Nova Scotia. Proposals should emphasize how increased rigour, increased breadth, increased focus, or increased innovation have the potential to significantly advance the analysis of Nova Scotia's offshore hydrocarbon potential beyond that available in present models.

This RFP was released on May 21, 2020 and **will close on August 28, 2020** at 4 pm Atlantic Daylight Time.

[Details](#)

CNC-SCOR Review of Proposals

2020 Call for review of SCOR Working Group Proposals

Ten working group proposals were submitted to the SCOR Secretariat in response to the 2020 Call. These are available on the SCOR Web site. The proposals are:

1. [Analysing ocean turbulence observations to quantify mixing \(ATOMIX\)](#)
2. [TRACE element SAMplers and sensORS \(TRACESAMORS\)](#)
3. [Benthic Foraminifera as Ecological Sentinels of Marine Systems Health \(FORAM-ECO\)](#)
4. [Elucidating THreats tO Sandy beaches: a global synthesis \(ETHOS\)](#)
5. [Integration of international ocean acidification research at CO2 seeps \(InterSEEP\)](#)
6. [Mapping climate change refugia for marine conservation \(MarCCR\)](#)
7. [Respiration in the Mesopelagic Ocean \(ReMO\): Reconciling ecological, biogeochemical and model estimates](#)
8. [Are global indicators of COastal and Nearshore benthic fish assemblage status in agreement if derived from disparate visual CENSUS techniques? \(CoNCENSUS\)](#)
9. [Developing an Observing Air-Sea Interactions Strategy \(OASIS\)](#)
10. [Atmospheric aerosol deposition as forcing factor for microbial ecology and biogeochemistry in the ocean \(AEROS\)](#)

The 10 proposals for 2020 are available at

<https://scor-int.org/events/2020-scor-annual-meeting/>

One or two of these will be funded at the Annual SCOR meeting, to be held this fall. Comments from any interested scientist are welcomed. Comments can be sent to CNC-SCOR, either via the Chair (Paul Myers, pmyers@ualberta.ca) or the Secretary (David Greenberg, david.greenberg@dfo-mpo.gc.ca). Comments received by July 15, 2020 will be used to assist with the Canadian process of ranking the Working Group proposals.



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

Previous newsletters may be found on the [CNC/SCOR](#) web site.

Newsletter #113 will be distributed in July 2020.

Please send contributions to David Greenberg
david.greenberg@dfo-mpo.gc.ca

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

Les [bulletins](#) antérieurs se retrouvent sur le site web du [CNC/SCOR](#).

Le Bulletin #113 sera distribué en juillet 2020.

Veillez faire parvenir vos contributions à David Greenberg, david.greenberg@dfo-mpo.gc.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

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Paul Snelgrove (Memorial)
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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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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