

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

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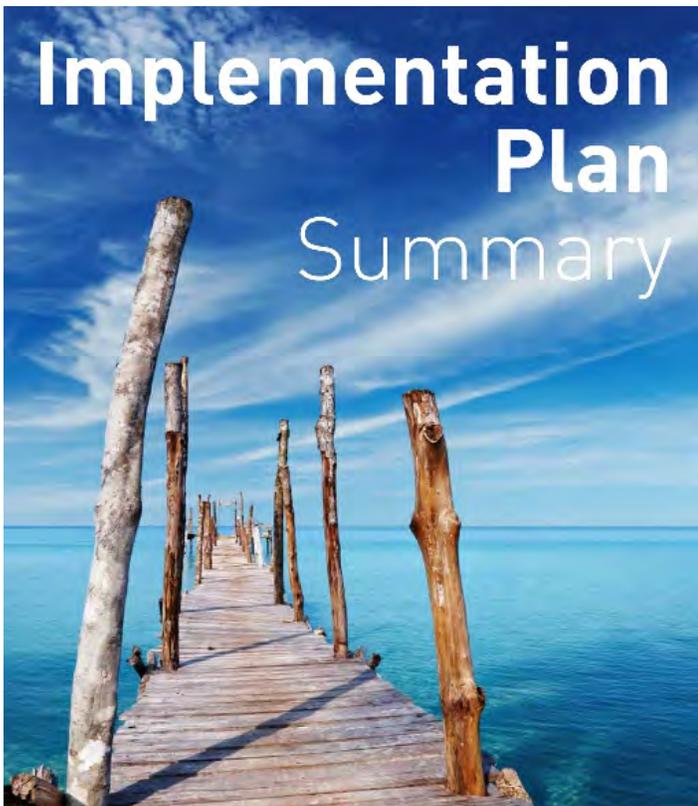


We introduced the [UN Decade of Ocean Science for Sustainable Development](#) in the May 2021 newsletter. The [Implementation Plan](#) has now been released.

The vision of the Ocean Decade is ‘the science we need for the ocean we want’.

The mission of the Ocean Decade is ‘to catalyse transformative ocean science solutions for sustainable development, connecting people and our ocean’.

The Ocean Decade will be implemented on a voluntary basis within the legal framework of the United Nations Convention on the Law of the Sea (UNCLOS). The Ocean Decade will facilitate the generation of data, information and knowledge needed to move from the ‘ocean we have’ to the ‘ocean we want’. Seven outcomes describe the ‘ocean we want’ at the end of the Ocean Decade:



1. A clean ocean where sources of pollution are identified and reduced or removed.
2. A healthy and resilient ocean where marine ecosystems are understood, protected, restored and managed.
3. A productive ocean supporting sustainable food supply and a sustainable ocean economy.
4. A predicted ocean where society understands and can respond to changing ocean conditions.
5. A safe ocean where life and livelihoods are protected from ocean-related hazards.
6. An accessible ocean with open and equitable access to data, information and technology and innovation.
7. An inspiring and engaging ocean where society understands and values the ocean in relation to human wellbeing and sustainable development.

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



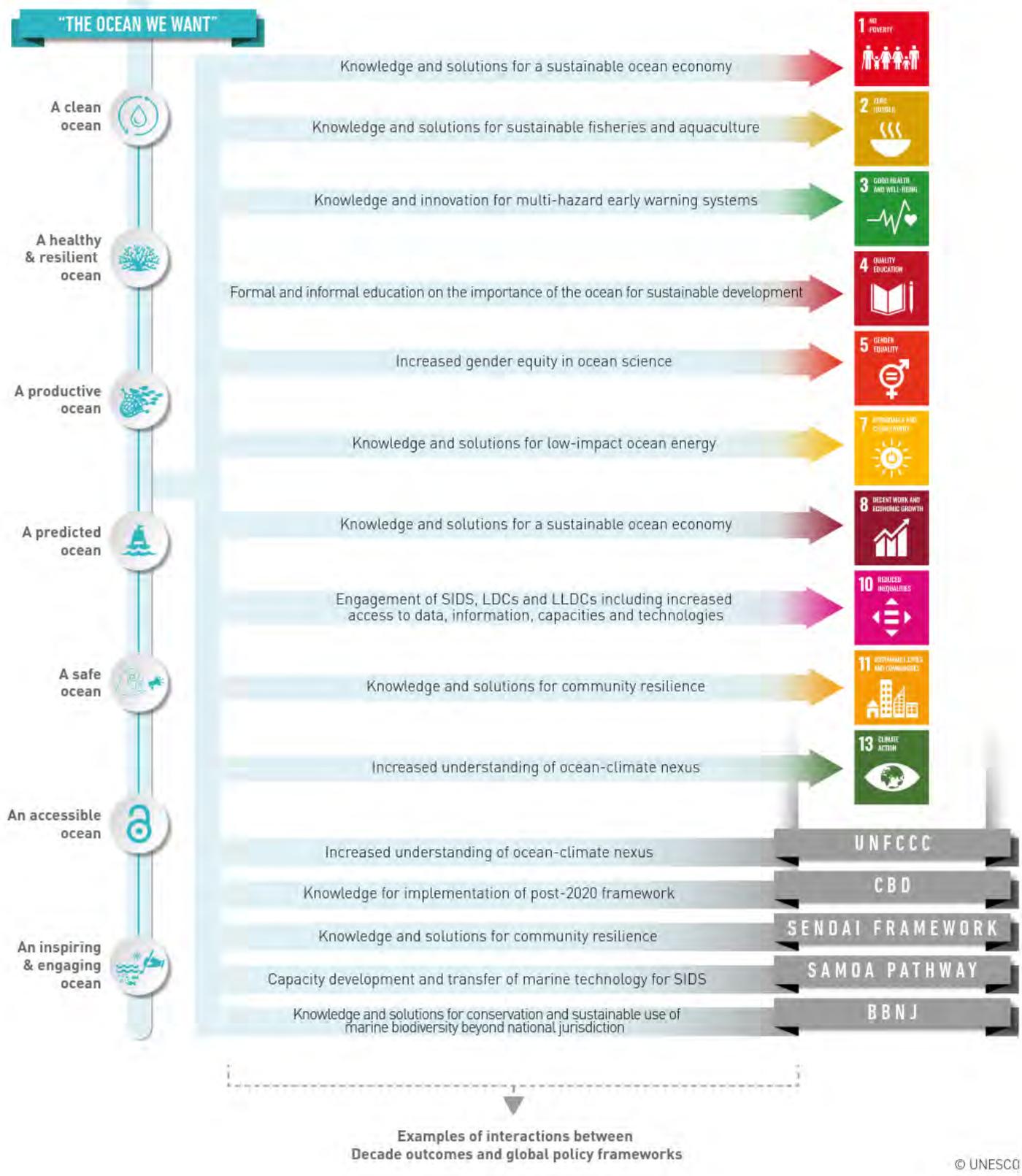
The ambition of the Ocean Decade is beyond the capacity of any single nation, any single stakeholder group, any single generation, or any single scientific discipline. The Ocean Decade will

convene a wide range of stakeholders to collectively align their research, investments and initiatives around a set of common priorities, so that the result of their shared efforts is exponentially greater than the sum of the parts.

Initiatives will grow and flourish at the local, national or regional scales according to specific contexts and priorities. Capacity development, including improved access to data and technology, increased ocean literacy, and the creation of an enabling environment that ensures broad inclusivity, including gender, generational and geographic diversity, will be essential elements at each stage of this process.

The Ocean Decade will not set ocean policy, but it will build scientific capacity and generate knowledge that will directly contribute to the goals of the 2030 Agenda for Sustainable

Development and other relevant global legal and policy frameworks as illustrated overleaf. The Ocean Decade will also support SDG17 - Partnerships for the goals, that seeks to strengthen global partnerships to achieve the ambitious targets of the 2030 Agenda.



How will the Ocean Decade be financed?

The Ocean Decade itself is not a funding mechanism, but it includes mechanisms and opportunities to increase funding available for ocean science and to bring together resource providers around common priorities.

Resources for ocean science come from a range of organisations including governments, philanthropic Foundations, and business and industry. To achieve the ambitions of the Ocean Decade, the amount and type of resources available for ocean science will need to increase significantly in coming years. Both financial support and in-kind support (e.g. use of research vessels, data, access to infrastructure) will be important to the success of the Ocean Decade.

The Ocean Decade Alliance will be an important mechanism for resource mobilisation. It will comprise a network of high-level supporters of the Ocean Decade who will lead by example to mobilise resources for Decade Actions. Alliance members will provide significant financial and in-kind support for Decade Actions, and will inspire action in other partners through networking and awareness raising.

Decade Actions will be financed in different ways. Proponents of Decade Actions can secure their own financing via traditional mechanisms, for example research grants. Via the Global Stakeholder Forum and the Ocean Decade Alliance, the Decade Coordination Unit will also create connections between Ocean Decade partners carrying out ocean science, and partners who can provide resources and thus become part of a collective, highly visible global effort to transform ocean science.

LEAD OR PARTICIPATE IN A DECADE ACTION

Decade Actions will be implemented by a wide range of proponents throughout the Decade. Regular Calls for Action will be issued and Actions that are submitted for endorsement will need to demonstrate how they meet the criteria described in the Implementation Plan.

ESTABLISH OR JOIN A VOLUNTARY STAKEHOLDER NETWORK

Decade stakeholder engagement networks convene ocean actors with common interests to facilitate connections and collaboration. All registered networks are members of the Global Stakeholder Forum.

HOW TO ENGAGE?

BECOME A MEMBER OF THE OCEAN DECADE ALLIANCE

The Ocean Decade Alliance is a key mechanism for resource mobilisation during the Decade and will act as a matchmaker between resource providers and proponents of Decade Actions – in line with the priorities of the Decade.

JOIN GENERATION OCEAN

It is Everyone's Decade! "Gen0" convenes all living and future generations to build a new kind of society by 2030, one in which all of humanity will use the best available science and knowledge to deliver the ocean we need for the future we want.

Ocean Decade [Website](#)

Ocean Decade [Resources](#)

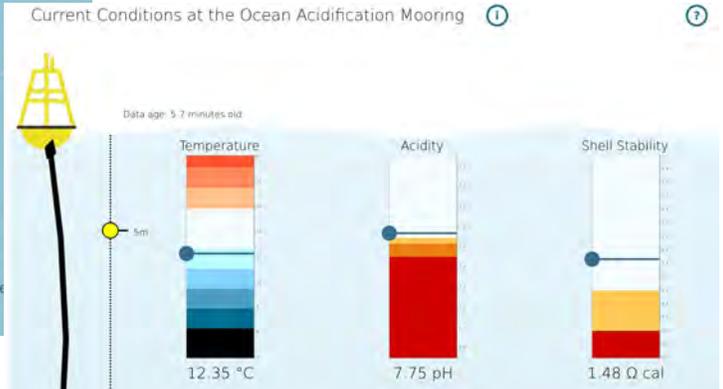
CIOOS Pacific

[CIOOS Pacific](#) is one of the three components of [Canadian CIOOS](#). Each of the component groups provide connections to their own expertise with links to real time and historical data. The Pacific groups expertise is highlighted in the examples on their [APPLIED DATA](#) page:



CIOOS PACIFIC
REGIONAL ASSOCIATION OF THE
CANADIAN INTEGRATED OCEAN OBSERVING SYSTEM

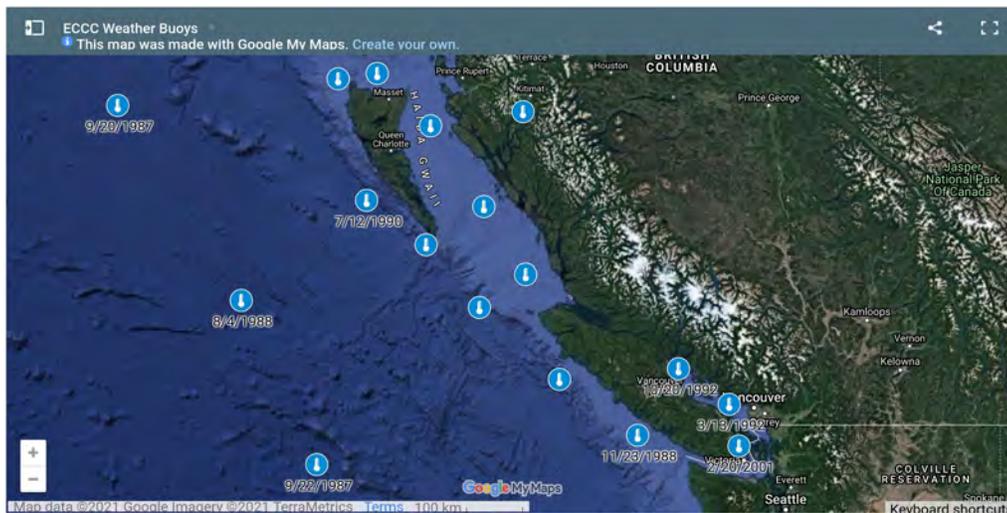
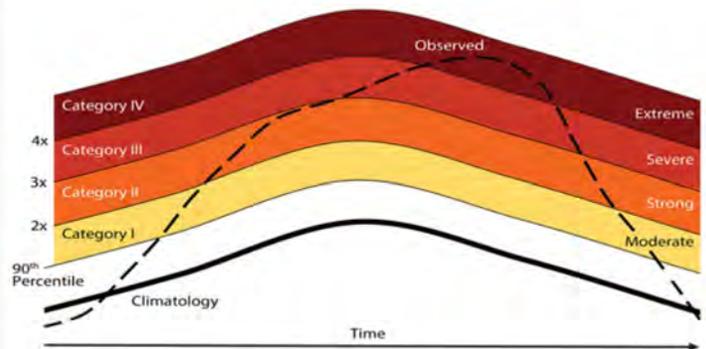
The [Baynes Sound Ocean Monitor](#) is still under development but you can now get real time information on physical and chemical properties important to the oyster aquaculture industry in the area.



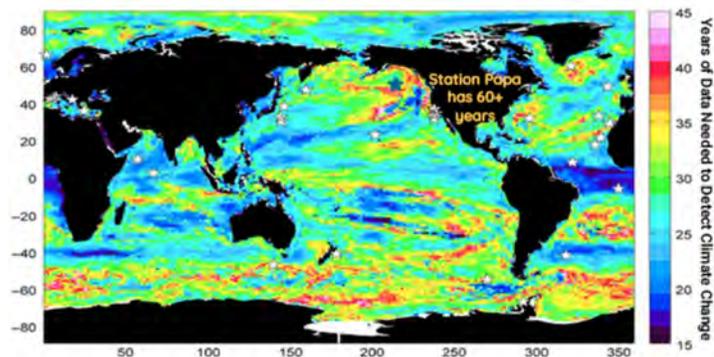
The [Marine Heatwave Monitor](#) links to a network of deep sea, shelf and near shore ECCC weather buoys.

How Is A Marine Heatwave Defined?

Just as on land, marine temperatures can go through extreme periods. Extreme differences from normal (or climatology) may occur any time of year, but when they are sufficiently different for a sustained period (five days or more) then heatwave conditions have been met. The more extreme the anomalous conditions, the more severe the heatwave category. A complete description of marine heatwaves may be found within Hobday et al. 2016 and Hobday et al. 2018.



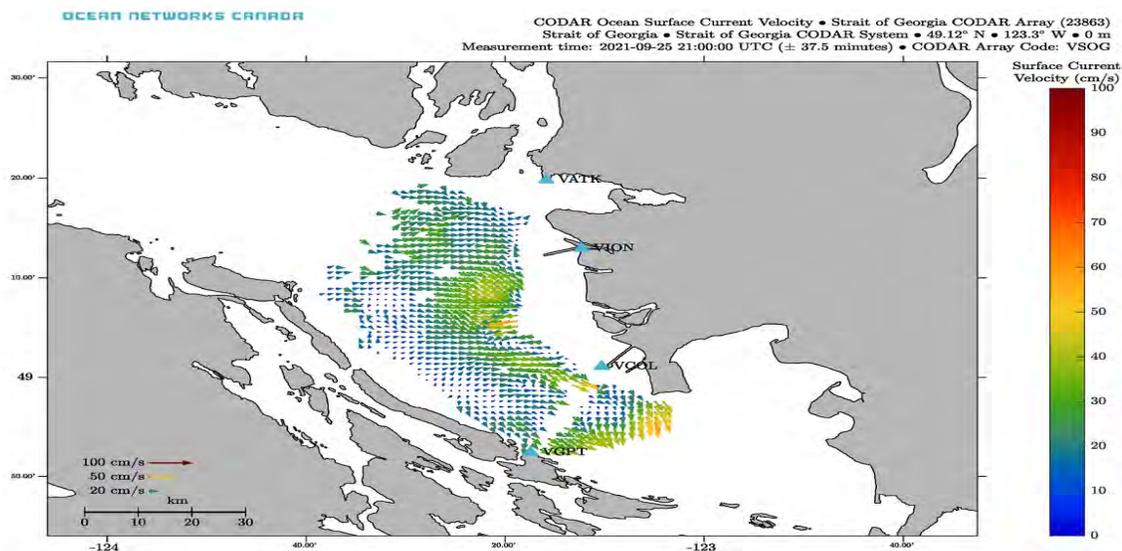
The [Ocean Climate](#) page emphasizes the importance of the long time series from Ocean Station Papa.



One Place We Know "Normal"

Station Papa looks like most anywhere else in the ocean when you're on a ship. But this place, at 50 °N 145 °W and 1,500 kilometres offshore, isn't just anywhere ... it's one of just a handful of places where we know what a "normal" actually looks like. We know this because over 60 years of data has been collected from this unassuming place, making it the longest ocean time series anywhere. Along the way, it's been precisely because this is not a special place that we have learned about processes that would have been too challenging to study elsewhere.

The system described in the [Strait of Georgia Currents](#) page is currently under development. It shows high resolution surface currents from an array of CODAR stations.



How Are These Observations Made?

A network of four land-based high frequency (HF) radar stations (see map) are operated by Ocean Networks Canada. These stations transmit and interpret radio waves that have been reflected and scattered off the ocean surface. By combining data from multiple stations, scientists are able to calculate the velocity of the surface current. These observations represent an average over the previous hour and are not representative of the immediate or future conditions. Mariners should use appropriate caution when considering this data.

For more information on CIOOS Pacific and its products, contact info@cioospacific.ca.

Honours

A.G. HUNTSMAN AWARD 2021

The A.G. Huntsman Foundation is pleased to announce that the 2021 A.G. Huntsman Medal will be awarded to **Shubha Sathyendranath** in recognition of her outstanding research achievements in the development of the use of optics and satellites in marine science as well as her dedication to developing international cooperation and capacity building in oceanography and ocean-colour remote sensing.

The 2021 award ceremony and distinguished lecture will be a livestream webcast on November 26th. Details, including specific times and a link to the ceremony will be provided at a later date.

Huntsman [Website](#)



ASLO 2021 Global Outreach Initiative Award Winners from BC



The Association for the Sciences of Limnology and Oceanography ([ASLO](#)) is pleased to announce the recipients of the 2021 [ASLO Global Outreach Initiative Awards](#). The ASLO Global Outreach Initiative provides mini-grants to ASLO members to conduct outreach projects in their own communities. This year's recipients include:

Interpreting Oil Spill Impacts: Integrating First Nations Knowledge with Aquatic Science for the Benefit of Coastal Communities (Victoria, Canada); **Sara Mynott**, University of Victoria, and **Raisha Lovindeer**, University of British Columbia.



Royal Society of Canada | class of 2021 Société Royale du Canada | Promotion 2021

New Fellows of the [RSC](#) from the marine science community

DYKE, Arthur | Geological Survey of Canada, Retired



Arthur Dyke has revolutionized our understanding of North American ice sheets and sea level change inspired by four decades of innovative mapping across Arctic Canada as a member of the Geological Survey of Canada. His prescient reconstructions of environmental change spanning the past 20,000 years are prominently recognized world-wide and continue to illuminate sister disciplines ranging from oceanography and geophysics to biology and archaeology, elevating Canada's international scientific legacy.

Comme membre de la Commission géologique du Canada, Arthur Dyke a révolutionné notre compréhension des calottes glaciaires d'Amérique du Nord et des changements du niveau de la mer en s'inspirant des quarante ans de cartographie de l'Arctique canadien. Ses reconstructions presciantes des changements de l'environnement s'étendant sur les 20 000 dernières années sont reconnues mondialement et continuent d'éclairer les disciplines diverses en passant de l'océanographie et de la géophysique à la biologie et à l'archéologie, contribuant ainsi grandement à l'héritage scientifique du Canada dans le monde entier.

LaROCHE, Julie | Department of Biology, Dalhousie University

Julie LaRoche est une microbiologiste marine qui utilise des approches de biologiémoléculaire pour élucider les facteurs qui contrôlent la productivité primaire dans l'océan. Elle a développé plusieurs approches de biologie moléculaire qui ont eu un impact durable sur notre compréhension de la limitation des nutriments dans le phytoplancton et microbes marins, particulièrement en ce qui concerne la limitation du fer, qui est importante dans de vastes zones océaniques.



Julie LaRoche is a marine microbiologist who uses biochemical and molecular biological approaches to unravel the factors that control primary productivity in the ocean. She has developed and applied several widely used molecular biological approaches that have had long-lasting impact on our understanding of nutrient limitation in phytoplankton and other marine microbes, especially with respect to iron limitation, which is prominent in large areas of the surface ocean.

WORM, Boris | Department of Biology, Dalhousie University



Boris Worm is an international leader in ocean biodiversity and conservation research. His work on the impacts of fishing, pollution, and climate change has raised public awareness of the perilous state of marine ecosystems and contributed towards science-based management solutions. As a founder of the Ocean School, developed in collaboration with the National Film Board of Canada, he also works to foster ocean literacy and engagement for youth around the world.

Boris Worm est un leader international dans le domaine de la biodiversité et la conservation des océans. Son travail axé sur les impacts de la pêche, de la pollution et du changement climatique a sensibilisé le public à l'état préoccupante des écosystèmes marins et a contribué au développement de solutions de gestion fondées sur la science. En tant que fondateur de l'École de l'Océan, développée en collaboration avec l'Office national du film du Canada, il travaille également à favoriser la connaissance des océans et l'engagement des jeunes à travers le monde.

STENSETH, Nils Chr. | Centre for Ecological and Evolutionary Synthesis, Department of Biosciences, University of Oslo

Nils Chr. Stenseth pioneered the integration of climatic drivers with population ecology to understand dynamical, evolutionary change in terrestrial and marine animal systems. His research breadth extends from organismal genomics and the evolutionary ecology of Canadian mammals and fishes to disease systems for plague, including COVID-19. Stenseth's intellectual versatility enabled him to break long-standing barriers and to contribute profoundly to inter-disciplinary thinking within the fields of ecology and evolutionary biology.



Nils Chr. Stenseth a été le premier à intégrer les facteurs climatiques à l'écologie des populations pour comprendre les changements dynamiques et évolutifs se produisant au sein des écosystèmes animaux terrestres et marins. Ses recherches s'étendent de la génomique des organismes et de l'écologie évolutive des mammifères et des poissons canadiens aux systèmes pathologiques des fléaux naturels, dont la COVID-19. La polyvalence intellectuelle du Prof. Stenseth lui a permis de casser les codes et de contribuer profondément à la réflexion interdisciplinaire dans les domaines de l'écologie et de la biologie évolutive.

BAN, Natalie | School of Environmental Studies, University of Victoria



Using innovative methodologies, Natalie Ban's uniquely interdisciplinary and applied research focuses on the connections between people and biodiversity in the marine environment in order to advance biodiversity conservation and resource management. Together with partners, Dr. Ban braids Indigenous knowledge systems and Western science, draws upon theories and methods from the natural and the social sciences, and is highly collaborative within and beyond academia.

À l'aide de méthodologies novatrices, Natalie Ban mène des travaux de recherche appliquée et interdisciplinaire qui explore les liens entre les humains et la biodiversité dans les environnements marins pour favoriser la préservation de la biodiversité et de la gestion des ressources. Mme Ban travail de concert avec ses partenaires pour intégrer les systèmes de connaissances autochtones et de science occidentale, pour s'inspirer des théories et des techniques des sciences naturelles et sociales et pour collaborer tant au sein qu'au-delà du milieu universitaire.

Nomination for the [Huntsman medal](#) is a two-step process with a maximum two page letter of intent **due by** March 31. The Selection Committee will invite the submission of complete dossiers from a short list of the letters-of-intent by April 30 and complete nomination dossier due May 31.



Nominations are [now being accepted](#) for the 2022 **ASLO Awards** as well as nominations and applications for **ASLO Fellows**. The **deadline** for  **Association for the Sciences of Limnology and Oceanography** nominations for both programs is Friday, 29 October 2021 at 11:59 PM CDT (GMT -05:00). Decisions for ASLO Awards are expected during December 2021, and all award nominators will be informed of the outcome of their efforts in January 2022.

The **nomination** period for the Class of 2022 **RSC Fellows** is now open. For information about nominating someone for different categories of recognition by the RSC, [click here](#). The **deadline** for submissions is December 1, 2021 at 8pm EST.



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

ArcticNet Annual Scientific Meeting

December 6 - 10, 2021, Online

Hosted entirely online December 6 - 10, 2021, the [ArcticNet Virtual Annual Scientific Meeting 2021 \(ASM2021\)](#) is a hub for Arctic research in Canada. The ASM2021 brings together researchers from the natural, health, and social sciences to meet the challenges and opportunities of a rapidly changing Arctic region, shaped by climate change and modernization. This conference will push the boundaries of our collective understanding of the Arctic and strengthen our ability to address the Arctic issues of today and tomorrow.



We need interdisciplinary, pan-Arctic, and pan-northern cooperation and knowledge sharing to meet the challenges and opportunities of a rapidly changing Arctic and Northern region shaped by climate change and modernization. As a hub for Arctic research in Canada, the ArcticNet Annual Scientific Meeting (ASM) brings together a broad range of research in and about the Arctic and northern regions of Canada and the world. The ASM advances our collective understanding of the Arctic and North, with an inclusive view of the Arctic spanning from Inuit Nunangat, across the Canadian territories, circumpolar Arctic regions, and more.

[Conference Website](#)

[A short video](#) (view it full screen)

[Registration](#)

International Workshop on Application of ocean science and technology for the practice of sustainable “Blue Economy” in developing countries

November 8-9 2021, Online

Organizers: The Centre for Science and Technology of the Non-Aligned & Other Developing Countries (NAM S&T Centre) based in New Delhi, and the Committee on Capacity Development of the Scientific Committee on Oceanic Research (SCOR).

Objective: To highlight the role of ocean science and technology in blue economic development. The Workshop will introduce current concepts in blue economy, followed by discussion of specific topics that include coastal marine resources of economic relevance, environmental threats that endanger blue economic goals, the importance of ocean observing systems and the need for



capacity development. By illuminating the use and misuse of Science and Technology in blue economies, the Workshop aims to help establish the foundation of scientific knowledge and ocean observations to support sustainable ocean development.

[Workshop information](#)

[Registration deadline:](#) 25 October 2021

Gordon Research Conferences and Seminars



Gordon Research
Conferences
Frontiers of Science

Gordon research Conferences (GRCs) and Seminars (GRSs) are starting to open up in the new year. Among the ocean related ones are:



Ocean Biogeochemistry (GRS) - Biogeochemical Processes Across Space and Time

Rey Don Jaime Grand Hotel, Castelldefels, Spain - **April 30 - May 1, 2022**

Ocean Biogeochemistry (GRC) - Biogeochemical Processes Across Space and Time

Rey Don Jaime Grand Hotel, Castelldefels, Spain - **May 1 - 6, 2022**

Ocean Mixing (GRS) - Ocean Mixing from the Smallest to the Largest Scales and its Impact on Ocean Dynamics, Biogeochemistry and the Climate System

Mount Holyoke College, South Hadley, MA - **June 4 - 5, 2022**

Ocean Mixing (GRC) - The Impact of Ocean Mixing on the Earth, Ocean and Atmosphere Systems, Climate and Society

Mount Holyoke College, South Hadley, MA - **June 5 - 10, 2022**

Ocean Global Change Biology (GRS) - Synthesizing Approaches to Predict Species Responses to Global Change

Waterville Valley, Waterville Valley, NH - **July 16 - 17, 2022**

Ocean Global Change Biology (GRC) - Integrating Environmental, Organismal and Community Complexity into Ocean Global Change Research

Waterville Valley, Waterville Valley, NH - **July 17 - 22, 2022**

GRC COVID [Policy and protocols.](#)

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

Assistant Professor in Chemical Oceanography/Marine Biogeochemistry

The Department of Earth, Ocean and Atmospheric Sciences, UBC

The Department of Earth, Ocean and Atmospheric Sciences ([EOAS](#)) at the University of British Columbia (UBC) invites applicants for a full-time, tenure-track Assistant Professorship in Chemical Oceanography / Marine Biogeochemistry. We seek a scholar who will conduct innovative research and contribute strongly to teaching programs addressing chemical reactions in the marine environment, and their role as regulators or tracers of oceanic processes. Research areas of interest include, but are not limited to, the marine carbon cycle, elemental speciation and bioavailability, isotope systematics, sediment chemistry and diagenesis, paleoceanography, nutrient cycling and exchange processes across ocean, ice, atmosphere, freshwater and sediment interfaces. We specifically seek candidates using experimental and/or analytical approaches to study chemical processes in natural environments.



The successful candidate will have a Ph.D. in Earth or marine sciences, environmental chemistry, or a related discipline at the time of appointment, and will have made, or show promise of making, impactful contributions to our knowledge of ocean chemistry. The candidate will be expected to develop a robust, externally-funded, and internationally-recognized research program, successfully supervise graduate students and postdoctoral fellows, effectively teach undergraduate and graduate courses in Chemical Oceanography and related fields and participate in departmental activities.

[Details](#)

Deadline November 7, 2021

Distinguished Postdoctoral Fellowships in Earth, Atmospheric & Planetary Sciences

Massachusetts Institute of Technology, Cambridge, MA

The Distinguished Postdoctoral Fellowship Program in the Department of Earth ([EAPS](#)), Atmospheric & Planetary Sciences supports exceptional early-career scientists with interests in the broad range of disciplines represented in the department.



Fellows are expected to pursue independent research, but also encouraged to collaborate with at least one faculty member in the department. Applicants are should contact prospective faculty hosts whose primary affiliation is in EAPS. MIT postdoctoral researchers receive mentoring and opportunities for career development throughout the postdoctoral period.



The program typically appoints two new fellows each year through a competitive process. Appointments are for two years. Each fellow receives an annual stipend of \$64,000, full coverage of premiums for affiliate health and basic dental and vision insurance, and an allowance of \$5,000 per year for research and relocation expenses.

[Details](#)

Deadline November 20, 2021

Assistant Professor - Earth & Planetary Science

UC Berkeley, Berkeley, CA

The [Department of Earth and Planetary Science](#) at the University of California, Berkeley invites applications for an Assistant Professor Faculty position. We seek candidates from all areas of earth and planetary science, with an emphasis on either (1) earth and/or planetary surface and sedimentary processes in the present or past; (2) climate science



including oceans, the cryosphere, and atmosphere on all time scales. Candidates whose research falls into one of these broad areas or their disciplinary interfaces are especially encouraged to apply. All candidates, regardless of the field in earth and planetary science, will be considered. The basic qualifications required to be considered for this position are a Ph.D. or equivalent international degree, or enrollment in a Ph.D. or equivalent international degree-granting program at the time of application

[Details](#)

Deadline Oct 14, 2021

Assistant Professor Coastal Geoscience

Old Dominion University, Norfolk, VA

The [Department of Ocean & Earth Sciences](#) at Old Dominion University (ODU) seeks candidates with research interests in coastal geoscience for a tenure track Assistant Professor position having an anticipated start date of July 2022. Within the broad area of coastal geoscience, research interests can include any of the following: geomorphology, analysis or projections of sea level change and its impact on coastal systems, geochronology, geohazards, and/or geospatial analytics. We are particularly interested in candidates using novel and interdisciplinary approaches to tackle these research challenges. The successful candidate will be expected to develop and maintain an externally-funded research program, contribute to teaching at the graduate and undergraduate levels, mentor graduate students, and contribute to ODU's interdisciplinary research activities focused on climate change and coastal dynamics, among them the [Institute for Coastal Adaptation and Resilience](#). The [Department of Ocean & Earth Sciences](#) has 25 faculty members with strengths across the oceanographic and terrestrial geoscience disciplines.



[Details](#)

Deadline Oct 18, 2021

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

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

GENERAL

RMets Master Classes

Oceans and Atmosphere: Maritime Meteorology and Climate

The [Royal Meteorological Society](#), in partnership with the [University of Reading](#), are delivering the third in the series of Meteorological Masterclasses in October 2021, which aim to discuss and explore the interactions between the ocean and the atmosphere.

Places to attend these events are FREE thanks to the generosity of our sponsor [FleetWeather](#), and aim to support continuing professional development (CPD) for practicing operational meteorologists and climate scientists.



This series will cover broad topics relevant to marine meteorology, such as tropical cyclone development; changes in Arctic Sea ice; and recent developments in atmosphere/ocean modelling and coupling in numerical weather prediction, across three webinars:

[Wednesday 6 October 2021: Sea Ice in the Climate System](#): Dr David Schroeder, Centre for Polar Observation and Modelling, University of Reading

[Wednesday 13 October 2021: Understanding the Marine Environment through Satellite Earth Observation and Numerical Modelling](#): Dr Samantha Lavender, Director of Pixalytics Ltd

[Wednesday 20 October 2021: Tropical Cyclones in the Climate System – Physical Processes and their Representation in Climate Models](#): Prof Pier Luigi Vidale, Climate System Science - University of Reading, Senior Scientist - Climate Directorate of the National Centre for Atmospheric Science

The masterclass events are recommended for professionals working in the production of services for shipping and offshore activities (drilling, wind, and tidal energy); catastrophe modelling and insurance; and naval operations such as search and rescue. The Masterclass series will provide a valuable update on the science of ocean-atmosphere interaction and its role in weather system development and climate change.

For anyone unable to join us or who may want to watch back, if you register your attendance, you can access the video recordings, which will be made available within a few days of the event. There will also be an option to ask the speakers questions via email for one week after the video goes live.

Autumn Series [website](#)

Register at the [RMets website](#).

NSERC Prizes - Science Promotion

The NSERC Awards for Science Promotion honour people and groups that are inspirational in the way they promote science to the general public. The Awards are an opportunity for Canada's science community to recognize, support and encourage outstanding science promoters. NSERC invites all Canadians with an interest in science, including teachers and university researchers, to contribute to the success of this annual effort by nominating the people who are making others aware of what science means to all of us.



The achievements of individual and group recipients of the NSERC Awards for Science Promotion will be celebrated at a public ceremony. Individual recipients will receive a \$10,000 award and group recipients a \$25,000 award. In both cases, the funds are to support further science promotion activities. Funds paid to winners of this prize are subject to the [PromoScience Grants Guide](#).

Nomination deadline: **November 25 before 8:00 p.m. (ET)**. If the deadline falls on a weekend or federal holiday, your nomination must reach NSERC before **8:00 p.m. (ET)** the following working day.

Science promotion activities with award potential could include activities such as:

- organizing science camps, fairs, clubs or mentorship programs with youth organizations;
- enhancing equity, diversity and inclusion in existing programming;
- creating new learning materials;
- sharing best practices for outreach in science and engineering;
- developing science and engineering-related co-op programs or job shadowing initiatives;
- arranging demonstrations, visits and lectures;
- writing books and articles;
- creating radio or television programs;
- generating public involvement through multi-media programs.

[Nomination Form](#); [Terms and Conditions Form for Nominees](#); [Terms and Conditions Form for Nominators](#)

2021 SCOR International Annual Meeting

Registration is open for the 2021 SCOR Annual Meeting! - Online

26-28 October 2021, 7:00-10:00 am (EDT) / 11:00-14:00 (UTC)

[SCOR](#) annual meetings are open to any participant and there is no registration fee.

Events

- 26th October 2021. Session 1: Opening, overview of SCOR budget, and discussion of new WG proposals
- 27th October 2021. Session 2: Reports/updates from current projects
- 28th October 2021. Session 3: Reports/updates from affiliated development activities, closing of meeting



The [Website for the meeting](#) contains a [link for registering](#), as well as other information related to the event including reports of activities from the SCOR Working Groups and Projects.

The purpose of the SCOR Annual Meetings is to make it possible for national SCOR committees and partner organizations to learn of SCOR accomplishments in the past year, to oversee the work of SCOR, and to approve new working groups and the SCOR budget for the coming year. SCOR meetings also provide an opportunity for international marine science projects and organizations to provide updates about their current work and plans for the future.

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 #121 will be distributed in **November 2021**.

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

Subscribing and Unsubscribing

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

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

Les [bulletins](#) antérieurs se retrouvent sur le site web du [CNC-SCOR](#). Le site du CNC-SCOR est hébergé par le [SCMO](#).

Le Bulletin #121 sera distribué en **novembre 2021**.

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

Abonnement et désabonnement

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

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

CNC-SCOR

Members/ Membres

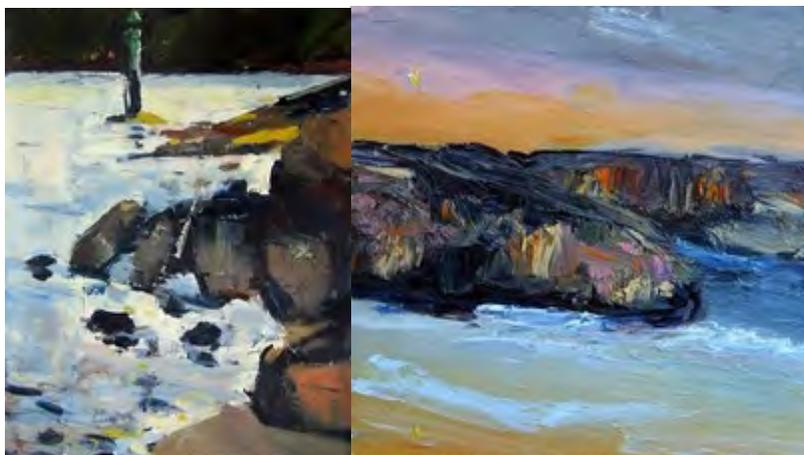
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Robie Macdonald - Past Chair (DFO-IOS)
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