

CMOS
Canadian Meteorological and
Oceanographic Society



SCMO
Société canadienne de météorologie
et d'océanographie

The New Wave

November 2025



Welcome to *The New Wave*—CMOS's revitalized newsletter!

Greetings, and thank you all for being a part of our community! In addition to some of our regular features, this month's edition kicks off our membership renewal drive. Yes, it is that time of year again when we encourage membership renewal, and hopefully welcome new members and past members back into the fold. In support of this, this edition is going to a much broader distribution list than current CMOS members who are automatically subscribed to *The New Wave*.

We are particularly pleased to welcome David Fissel as the co-editor of *The New Wave*. David is a Fellow of CMOS and currently serves on the Executive of the Canadian National Committee of the Scientific Committee on Ocean Research (CNC-SCOR). He joins co-editor Mike Crowe (CMOS Treasurer and retired

meteorologist) in bringing you this bi-monthly capsule of information related to Meteorology and Oceanography in Canada. Going forward we will strive to strike a balance between our two disciplines to ensure there is something of interest for everybody and hopefully spark some cross-interest as well.

Should you wish to opt out at any time, simply click the unsubscribe link at the bottom of the newsletter.

We would love to hear from you! Please send any suggestions, comments or constructive criticisms you may have to wave-comments@cmos.ca.

Membership

Membership Renewal

As the voice of Canada's weather, climate, and ocean science community, the Canadian Meteorological and Oceanographic Society (CMOS) brings together professionals, researchers, students, and enthusiasts who share a commitment to advancing atmospheric and oceanographic knowledge for the benefit of society. Membership in CMOS means being part of a vibrant national and international network that supports excellence in science, fosters collaboration across disciplines and sectors, while advocating for the critical role of environmental prediction in addressing the challenges of our changing planet.

Your membership helps sustain national and local conferences and seminars, publications, scholarships, and public outreach that promote Canadian leadership in meteorology and oceanography. It also ensures that our community continues to have a strong, unified voice in national and international discussions on weather, water, and climate. This year, we're making it easier than ever to stay connected — for the first time, members paying by credit card can opt in to automatic annual renewal, ensuring your membership never lapses.

We're also pleased to offer reciprocal membership benefits with the American Meteorological Society (AMS), including a reduced AMS membership fee for CMOS members. As our colleagues in the United States face significant funding cuts to science, CMOS stands in solidarity with the AMS and supports their mission to uphold scientific integrity and innovation. There are also reciprocal agreements in place with the Royal Meteorological Society and the Australian Meteorological and Oceanographic Society. Click [here](#) for a concise description of these and other benefits of membership.

We encourage current members to renew their membership today and continue shaping the future of CMOS. Past members are warmly invited to rejoin and reconnect with colleagues, research networks,

and professional development opportunities. And for those new to the field, now is the perfect time to get involved—student memberships are free, and early career professionals and retirees enjoy significantly reduced fees, making it easier than ever to be part of this dynamic national community.

Together, we can strengthen Canada's capacity to understand, predict, and respond to environmental change. **Join or renew your membership [here](#)** today and help keep CMOS strong, inclusive, and forward-looking.

Events

CMOS Congress 2026 - June 1-4, 2026

The 60th Conference of the Canadian Meteorological and Oceanographic Society (CMOS), “**Navigating Uncertainty,**” will be held in a fully virtual format. The call for sessions, currently underway, will close on November 28. The call for abstracts will be issued in early January 2026. In addition, until December 1, you are invited to participate in the 60th CMOS Conference poster contest, which will provide us with the background image for our official poster. Visit the [2026 Congress](#) page and start thinking about your proposal now.

This Congress marks an important step in defining future virtual events as we work to develop their format. Among the new features proposed are 60-minute oral blocks instead of 90-minute ones, one or two blocks of 5-minute flash oral presentations, and the search for a virtual platform capable of effectively showcasing scientific posters.

Recent Events

A look back at the latest happenings! From conferences, seminars, and publications to exciting international events, catch up on key moments, insights, and takeaways from recent events relevant to the CMOS community.

- Release of the **WMO Greenhouse Gas Bulletin - No. 21**. You can view the report [here](#). Key messages:
 - CO2 impacts climate today and for many centuries
 - Concerns mount about carbon sinks like forests and oceans
 - Rising temperatures are accompanied by more extreme weather
 - Strengthened monitoring is vital to inform action

- THE A.G. HUNTSMAN AWARD 2025 was awarded to **Dr. Karen Helen Wiltshire** in recognition of her innovative and interdisciplinary research in climate science, as well as her active engagement with international organizations that has helped build capacity and amplify new voices in marine sciences. On October 15, 2025, the medal presentation was made at the Nova Scotia Government House following a 2025 Distinguished Lecture by Dr. Wiltshire at the Bedford Institute of Oceanography. See <https://huntsmanaward.org/> for more information.



- In this [interview](#), Prof. Celeste Saulo, Secretary-General of WMO, explores how **Public Private Engagement** is reshaping meteorology and hydrology. Discover how working with businesses, academia, and civil society is enhancing the reach and effectiveness of global climate services.
- CMOS Ottawa Centre Talk - Climate Change: Hope Amid the Gloom - Mike Brklacich Oct 6, 2025. YouTube link to talk [here](#).
- **The WMO AI Conference:** AI for Weather Prediction, Advances, Challenges & Future Outlook was held in Abu Dhabi on September 9 and 10. You can access outcomes of the Conference [here](#).
- **Dr. Wendy Watson-Wright** was the [2025 recipient of the Compass Distinguished Achievement Award](#), presented by the Marine Technology Society at the Oceans 2025 Conference in Chicago USA, September 29 – October 2, 2025. The Compass Distinguished Achievement Award is presented to an individual who has sustained a career marked by achievements that have had significant impact on the fields of marine science and technology. Wendy Watson-Wright is Chair of the United Nations Joint Group of Experts on the Scientific Aspects of Marine Environmental Protection (GESAMP), a body established in 1969 to advise the UN system on marine



environmental issues. She was Executive Secretary and Assistant Director General of UNESCO's Intergovernmental Oceanographic Commission (IOC-UNESCO) in Paris (2010-2015) and prior to retiring in 2019, was the inaugural CEO of the Atlantic Canadian-led Ocean Frontier Institute (OFI). She is an invited member of the World Economic Forum's Friends of Ocean Action, a Director of the Canadian Scientific Submersible Facility (which operates ROPOS, the Remotely Operated Platform for Ocean Science) and an honorary lifetime member of the Prince Albert II of Monaco Foundation (Canada). She has evaluated numerous funding proposals for Canada's Ocean Supercluster, contributed to the MTS Journal and been an invited plenary speaker at both Oceanology International America and Oi China. Dr. Watson-Wright held various senior positions within Fisheries and Oceans Canada, including eight years as its Assistant Deputy Minister, Science. A Killam scholar, she holds a Ph.D. in Physiology from Dalhousie University in Canada.

Upcoming Events

- IEA Symposium (ICES) Copenhagen, November 17-18, 2025. **The All-Atlantic Integrated Ecosystem Assessment Symposium (IEA)** is hosted by DTU AQUA at Scandic Kødbyen in Copenhagen, Denmark. <https://www.aqua.dtu.dk/english/kalenderarkiv/2025/11/all-atlantic-integrated-ecosystem-assessment-symposium>.
- **AI and Meteorology Workshop** Nov. 20, 2025 11:00 - 2:00 EST: The workshop will feature presentations showcasing AI research and applications from the public sector, private industry, and academia, followed by a panel discussion focused on fostering collaboration and building cross-sector partnerships. In addition, participants will learn about funding sources and programs available to support AI research in meteorology. Register [here](#).
- NCOIS, Hyderabad, India, December 01-05, 2025. **The International Indian Ocean Science Conference 2025** (IIOSC-2025) aims to showcase the progress and scientific knowledge gained during the past decade of IIOE-2 (2015-2025). <https://iiosc2025.incois.gov.in/iiosc2025/>.
- CONVERGE CDR Forum. Halifax, NS. December 2-3. **Marine Carbon Dioxide Removal in Canada**. <https://www.ofi.ca/event/converge-cdr-forum-marine-carbon-dioxide-removal-in-canada>.
- [The 106th AMS Annual Meeting](#) 25-29 January 2026, Houston, TX and online
- **ArcticNet Annual Scientific Meeting (ASM)**, Calgary AB, December 15-18, 2025. Participate in an Arctic and northern research gathering, pushing the boundaries of our understanding of the North, and contributing to a solid foundation of knowledge to effectively address the Arctic issues of today. Website: <https://event.fourwaves.com/asm2025/pages>.
- **Climate and Cryosphere Open Science Conference**. Wellington NZ, February 9-12, 2026. The

Changing Cryosphere: Science, Impacts and Adaptation. <https://iasc.info/events/90-climate-and-cryosphere-open-science-conference-the-changing-cryosphere-science-impacts-and-adaptation>.

- **Ocean Sciences Meeting**, February 22-27, 2026 Glasgow Scotland. The Ocean Sciences Meeting (OSM) is the flagship conference for the ocean sciences and the larger ocean-connected community. <https://www.agu.org/ocean-sciences-meeting>.
- **World Ocean Summit & Expo**. Montreal, QC, March 4-5, 2026. <https://events.economist.com/world-ocean-summit/>.
- The **Canadian Risk and Hazards Network (CRHNet)** is proud to announce the return of its annual symposium. This year's theme "**Living the Lessons: From Impact to Insight**", bringing together practitioners, emerging professionals, researchers, policymakers, and community leaders dedicated to advancing resilience across Canada. The Symposium will take place from **May 12-14, 2026** at the **Northern Alberta Institute of Technology (NAIT)** in Edmonton, Alberta. **CMOS members are invited to submit a presentation proposal.** Further details at <https://crhnet.ca/call-for-proposals/>.

Previews & Updates

Bulletin & A-O Previews

One of the benefits of being a CMOS member is a subscription to the Society's scientific journal Atmosphere-Ocean. It publishes original research, survey papers, notes and comments in all fields of atmospheric, oceanographic and hydrologic sciences. The December issue of Atmosphere-Ocean features a mix of contributions spanning the journal's broad mandate:

Applied Research / Recherche appliquée

- "Global Sensitivity Analysis of the Future Land Carbon Sink" by Raj S. N. Deepak, Christian Seiler, and Adam H. Monahan

Fundamental Research / Recherche fondamentale

- "A Seasonal to Decadal Calibration of 1990–2100 Eastern Canadian Freshwater Discharge Simulations by Observations, Data Models, and Neural Networks" by Rick Danielson, Minghong Zhang, Joël Chassé, and Will Perrie
- "Large Mesoscale Eddy Properties and Dynamics in the Labrador Sea from Satellite Altimetry" by Chuanshuai Fu, Vasco Müller, and Paul G. Myers

- “Spatiotemporal Inhomogeneity of Trends in Dry and Moist Heatwave Across Northern Hemisphere: Regional Variability and Driving Mechanisms” by Linfeng Shi, Cheng Sun, Menghao Dong, Tian Wei, Zijing Guo, Wei Lou, and Zichen Song
- “Attribution of Changes in Canadian Precipitation” by Megan C. Kirchmeier-Young, Guilong Li, Xuebin Zhang, and Xiaolan L. Wang

Council & Executive Matters

CMOS Council and Executive Committee are the two governing bodies for CMOS. These two governing bodies along with all the other [standing committees](#) are populated by active volunteer members of CMOS. The following roles are vacant now and CMOS Council is seeking the next leaders to assume these roles:

- [Publications Director](#)
- [Chair of School and Public Education Committee](#)
- [Chair of Fellow Committee](#)

Please contact Gordon Griffith, Executive Director, at exec-dir@cmos.ca with your interest.

Centres' Updates

Retirement in Winnipeg

CMOS Winnipeg members recently attended the retirement party for meteorologist Albert Skiba. Albert joined the Meteorological Service of Canada in 1999. He was an operational forecaster, he trained DND meteorological technicians, and he finished career as the Head of the Winnipeg Storm Prediction Centre. (right: Emcee Brian Luzny).



Retiree coffee group celebrates 30 years

MSC staff reductions in the mid-1990s saw a large number of meteorologists and technical staff retire. In 1995, newly retired forecasters in Winnipeg started a monthly coffee meetup at the Army Navy Air Force Veterans in Canada facility in the west part of Winnipeg. On October 1, 2025, the 30th anniversary was held. A number of current and past CMOS members were in attendance. The monthly coffees will continue for the foreseeable future.





Resources

This section offers educational and/or general interest resources that are available to those individuals promoting weather, water and climate science to students, teachers and others.

- [Adopt-a-Float Canada](#) : Dr. Katja Fennel (Dalhousie U.) is leading this initiative, a cost-free, grade school program that allows classes to explore the ocean by tracking the progress of their own robotic float. Come explore the ocean by tracking the progress of a Biogeochemical-Argo (BGC-Argo) float from the laboratory to ocean. Along the way, you'll connect with scientists, learn about key ocean concepts, and realize what it means to be an oceanographer. There are currently seven floats up for adoption and 22 more are expected to be received in the next few months. Spread the word to grade school teachers and students.

News You Can Use

This section brings you curated articles on recent severe events, cutting-edge research, and ongoing developments over the past couple of months. Impacts of climate change featured heavily in the news over the past few months, as well as a number of developments in oceanic science.

- [COP30: What are the main issues and why do they matter?](#)

- [COP30 : qu'attendre des négociations climatiques des Nations unies au Brésil ? | Euronews](#)
- [From kelp to whales: marine heatwaves are reshaping ocean life](#)
- [Drought, fires and fossil fuels push CO2 emissions to a record high](#)
- [Les Autochtones sévèrement touchés par l'anxiété climatique](#)
- [Cost of Europe's extreme weather doubled this decade](#)
- [Developing the next generation of ocean scientists: The first cohort of the Centre of Excellence in Observational Oceanography program in Canada set to graduate this summer](#)
- [Les combustibles fossiles détériorent notre santé «du berceau à la tombe»](#)
- [Closure of Sentinel North on Aug. 31, 2025, Université Laval](#)
- [How common is severe climate change anxiety in Canada? Study offers a glimpse](#)
- [Anxiété climatique: 2,3 % des Canadiens éprouvent une détresse sévère](#)
- [Canada's Ocean Supercluster Announces \\$6M OCEANIC Digital Twin Maritime Autonomy Project](#)
- [The Long Quest to Uncover a Sea Star Killing Bacteria](#)
- [2025 a connu le troisième mois de septembre le plus chaud jamais mesuré](#)
- [New ocean research alliance to boost national collaboration](#)
- [50 years on board the RV John Strickland - key part of the University of Victoria's \(UVic\) biology and earth and ocean sciences departments](#)
- [Les décideurs sous-estiment l'appui à l'action climatique](#)
- [The Waters Speak: Indigenous Knowledge and Climate Change in the Maritimes](#)
- [What are climate tipping points?](#)
- [Earth enters a 'new reality' as coral decline tipping point reached](#)
- [Billions in federal buildings, roads and other assets at risk from climate change](#)

