



# The New Wave

March 2026



It has been an interesting winter in many parts of the country, with some areas receiving record-breaking snowfalls while other areas experienced wild temperature swings and the BC south coast appears to be on track for a snow-free (“ghost”) winter. We hope you are surviving if not actually enjoying this quintessential Canadian season, and we welcome you to our second edition of The New Wave for 2026.

We would like to acknowledge **International Women’s Day** that was held on March 8 this year. The Canadian Meteorological and Oceanographic Society recognizes the remarkable contributions of women across the atmospheric, oceanic, hydrologic, and climate sciences. From advancing research and operations, to teaching, mentoring, policy leadership, and community outreach, women play a vital role in our sciences. Their expertise strengthens the scientific foundation that underpins weather and ocean services, climate resilience, marine safety, and environmental stewardship in Canada and

beyond. As we celebrate their achievements, we also reaffirm our commitment to fostering equity, inclusion, and opportunity within our Society and the broader scientific community.

All CMOS members are automatically subscribed to **The New Wave**. However, if you wish to opt out at any time, simply click the unsubscribe link at the bottom of the newsletter. **We would like to hear from you!** Please send any suggestions, comments or constructive criticisms you may have to [wave-comments@cmos.ca](mailto:wave-comments@cmos.ca). Thank you for being part of our community!

## Events

### Recent Events

- A CMOS Ottawa Centre talk on [Two Years under Sail For Science](#) was presented by Igor Shkvorets on Jan 15<sup>th</sup> at Irene's Pub in Ottawa
- A virtual CMOS Toronto Centre talk on [The Changing El Niño in the 21st Century](#) was presented by Professor Jin-Yi Yu of the Department of Earth System Science, University of California, Irvine, USA on Feb 18<sup>th</sup>.
- A virtual CMOS Ottawa Centre talk on [Meteorological Monitoring in Times of Uncertainty](#) was presented by Neil Carson, Director General of Monitoring and Data Services of the Meteorological Service of Canada (MSC) on Feb 19<sup>th</sup>.
- The [106th American Meteorological Society Annual Meeting](#) was held Jan. 25-29 in Houston Texas. Recordings of the presentations and discussions will eventually be made available on the AMS website. Newsletter co-editor and CMOS Treasurer Michael Crowe attended the meeting this year, and a brief report is included below.

This year, **the 106<sup>th</sup> AMS Annual Meeting** was at The George R. Brown Convention Center in downtown Houston, TX from Jan 25-29. The conference was held in hybrid format for the many Sessions, Conferences and Symposia. It was a challenge to choose which presentation to attend most of the time, but recordings were made available to attendees immediately through a very functional mobile app.

Town Hall Meetings and Agency Updates were scheduled during lunch hours. The update on the **National Weather Service Transformation** presented by NWS Director Ken Graham was of particular interest. My rough notes...

- His theme – “Never been a more exciting time”
- They are hiring (after losing > 500 people in 2025 during the DOGE exercise...) and addressing workload burnout. Focus is on building a “nimble, flexible, mobile, eye-to-eye” workforce – collocating forecasters with FAA offices, EMOs, etc.
- They are rationalizing modeling activities and going to a unified approach, integrating AI/ML into ensemble members
- They are rationalizing monitoring networks and only keeping the observations that have the most value while investigating commercial data buys to complement traditional networks. Potentially \$10B will be invested in commercial buys over the next ten years
- “Moving away from copper” ... Weather Radio and weather radar modernization

There was also a Town Hall on breaking news regarding the **National Centre for Atmospheric research (NCAR)**. My rough notes...

- NCAR has been targeted by the current Administration for “wokeism” (they have stood down all DEI activities) and “climate alarmism”.
- The White House Office of Budget Management announced that NCAR would be dismantled and the National Science Foundation (funding agency for NCAR) issued a “Dear Colleague” letter seeking stakeholder input on how to restructure NCAR work
- NCAR leadership is casting this as “the opportunity” to have a say in their future

This reporter’s **main takeaways** from the meeting:

- In spite of a tough year for science in the US, the outlook is positive and the focus is on the science. “We may be down, but we’re not out!”
- AI/ML is becoming deeply ingrained in all steps of the meteorological service value chain
- Space weather is a growing concern given reliance on satellites and telecom

- Integration of physical and social sciences may provide more “bang for the buck” to improve disaster preparedness and response than improving model accuracy
- Integration of public, private, and academic players in the global weather enterprise is necessary to maintain service integrity in these challenging times
- Science communications skills more important now than ever

By the numbers: there were 6,000 attendees (not sure of the breakdown of in-person attendance vs virtual); 2,400 oral presentations; 1,200 poster presentations; and 90 exhibitors in the main exhibition hall

- The Executive Committee of the American Meteorological Society issued [A Response](#) to the decision to rescind EPA's 2009 Endangerment Finding which had concluded that greenhouse gas emissions harm health and well-being for current and future generations.
- Canada-Chile One Ocean Collaboration - In November 2025, a Canadian research delegation representing Pacific Marine Science Alliance (PMSA) and Pacific Rim Initiative for Sustainable Marine Systems (PRISMS) was hosted by the newly forming Chilean ocean consortium – see details in the Ocean Science News section of the [Canadian Ocean Science Newsletter](#).
- The [Green Municipal Fund](#) announced \$7.1M to support 80 municipalities in building climate resilience
- On 19 February 2026, the GEO Data and Knowledge Working Group convened "[In-situ, Satellite, Citizen Science: Interoperability in Practice](#)" bringing together experts and practitioners to explore how different types of Earth observation data can better work together. The conversation focused on connecting in-situ data, satellite observations, and citizen science contributions in a practical and coordinated way.

## Upcoming Events

- SCMO 2026 Congress: With submissions now closed, this virtual Congress will feature 254 abstracts, 90% of which will be oral presentations and nearly 35% of which were submitted by students. The "flash talk" format will be introduced modestly at this conference, chosen by 3% of authors, but is experiencing significant growth in the scientific community according to [this article](#). Remember that the 2026 Conference, with the theme "Navigating Uncertainty," will

- take place virtually from June 1-4. [Registration is now open.](#)
- [World Water Day](#) has been held on March 22 every year since 1993. World Water Day raises awareness of the 2.1 billion people living without access to fresh water and supports the achievement of the UN Sustainable Development Goal 6: water and sanitation for all by 2030. The theme this year is Water and Gender.
  - [World Meteorological Day](#) is held on March 23<sup>rd</sup> and commemorates the coming into force of the Convention establishing the World Meteorological Organization on 23 March 1950. The theme for World Meteorological Day 2026 is "Observing Today, Protecting Tomorrow."
  - [AI for fast and flexible climate modeling](#) will take place on March 18th, 2026 at 11:00 EDT. The author presents results from the open-source [Ai2 Climate Emulator \(ACE\)](#).
  - Upcoming AMS-sponsored webinars:
    - [Languages of the Sky and the First Internet of Weather](#) 26 March 7:00 pm ET
    - [Career Paths at the Intersection of Engineering and Atmospheric Science](#) 7 April 12:00 pm ET
    - [Modeling complexity in urban environments](#): Bridging physics-based and data-driven approaches 6 May 12:00 pm ET
  - The 37<sup>th</sup> AMS [Conference on Hurricanes and Tropical Meteorology](#) will be held from Mar 30<sup>th</sup> – Apr 3<sup>rd</sup> in San Diego/La Jolla CA and online
  - [Navigating Changes in Small Pelagic Fish and Forage Communities](#). La Paz, Mexico, May 4-8, 2026. The international symposium will be the third meeting in the Small Pelagic Fish Symposium series initiated in order to reunite a community of scientists and managers who work to improve the ecological understanding, management, and future status of SPF and other forage species populations in marine and inland systems.
  - [EGU 26](#) Vienna, Austria and Online, May 3-8, 2026. Every year around 20,000 researchers from the full spectrum of research fields covered by 22 scientific divisions and beyond come together in Vienna, Austria, and online to share and debate critical cutting edge scientific discoveries. The meeting covers a range of fields such as planetary exploration, Earth observation, polar science, climate change, pollution, and natural hazards.
  - Registration for the 2026 [Workshop for the Collaborative Platform for CanESM](#) (CP4C) is now open! The workshop will take place virtually on May 12th and 13th from 1 – 5 PM ET each day.
  - [Aquatic Confluence: ASLO-SIL 2026 Joint Meeting](#), Montréal Convention Centre, May 12-16, 2026. This congress will stimulate exchange of methodological approaches and learning across scales by bringing together scientists from freshwater and marine realms. Abstract submission closes 19 November 2025. Website:
  - [H<sub>2</sub>O Home To Overseas Conference](#). Halifax NS, June 8-10, 2026. One of Canada's premier events for the ocean technology sector that is attracting significant international participation.

- [Ocean Past Initiative XI](#). Victoria BC, June 15-19. The Oceans Past Initiative connects scholars and practitioners interested in documenting and understanding changes in marine systems and human-ocean interactions in past decades, centuries and millennia.
- [The Goldschmidt Conference](#) is the primary meeting worldwide for the presentation and exchange of scientific ideas in geochemistry. Montreal QC 12 – 17 July 2026.
- The 2026 [AMS Madison Summit](#) will be held Aug 3-7 in Madison WI and will include conferences on: Weather Analysis and Forecasting; Numerical Weather Prediction; Severe Local Storms; Planned and Inadvertent Weather Modification; Mountain Meteorology; Cloud Physics; and Weather Warnings and Communication.
- [1st IEEE Canadian Atlantic Ocean Symposium, July 20 - 22, 2026, Halifax, NS](#).
- [Estuarine Coastal Shelf Science ECSA 61. Brussels](#), Belgium, August 24-27, 2026. Bridging the gap between science and policy in estuarine and coastal marine biodiversity: the way forward.
- [World Congress of Marine Stations](#). Bamfield, BC, September 1-4, 2026.
- [Adaptation Canada 2026](#), September 22–24, 2026, Toronto, Ontario. Now in its third edition, Canada’s leading national conference on climate adaptation will bring together over 1,000 participants from diverse sectors and communities across Canadian sectors, communities, and regions
- [International Conference on Ocean Energy, ICOE 2026](#). The Hague, The Netherlands, Oct. 5-7, 2026. ICOE 2026 will focus on wave, tidal, and ocean current energy, as well as OTEC and salinity gradient technologies. The Hague, Netherlands, fall 2026.
- [PICES \(North Pacific Marine Sciences\)](#), Nanaimo, BC, October 24-30, 2026. Actionable Science for a Changing Ocean.
- [World Conference on Marine Biodiversity](#). Bruges, Belgium, November 17-20 2026. A high-level international meeting that focuses on the conservation and sustainable use of marine biodiversity.
- [Marine Renewables Canada 2026 Conference & Exhibition](#). Ottawa, ON, November 17-19, 2026.
- [2027 Ocean Decade Conference](#). Rio de Janeiro, Brazil, April 7-9, 2027. The conference will convene up to 2,000 participants for three days of high-level dialogue, partnership, and collaboration. It will be a milestone event of the UN Decade of Ocean Science for Sustainable Development (2021-2030).

## Previews & Updates

# Council & Executive Matters

## MOU with the American Meteorological Society

While at the AMS Annual Meeting, CMOS Treasurer Michael Crowe met with the Executive of AMS and signed [an MOU](#) on behalf of CMOS Council for future collaboration with the AMS. Areas for collaboration include: providing each other with discounted associate membership fees (we already do this); providing links to each other's websites; coordination of event calendars; and issuing joint statements and white papers on topics of interest. A meeting will be scheduled in the near future with our respective Executive members to explore concrete projects to pursue.



## Previews and Updates

### Atmosphere-Ocean

The upcoming issue of Atmosphere-Ocean features two new applied meteorological data sets, as well as fundamental papers in large scale oceanography and physical limnology. The editorial board is working on clarifying changes to the Open Access fees/policies since the landscape of institutional and super-institutional agreements is both dynamic and complex. A-O had a very good year in 2025 and we encourage the community to make 2026 even stronger in terms of breadth of topics and quality of submissions.

CMOS Executive Committee approved to standardize the *Atmosphere-Ocean* page charges to \$100 a page and offer CMOS student members a **50% reduction** on their first article.

### Bulletin

A Communications Working Group was formed as part of the [Strategic Plan implementation](#) activities for 2026. One of its identified tasks is to revitalize the CMOS Bulletin, and work has begun in this regard. A contractor has been hired to help the working group in designing the Bulletin, setting out its Terms of

Reference, determining the distribution method, etc. The Bulletin has historically been a vehicle for stories and reports about meteorological and oceanographic science and activities that have not undergone the academic rigour and peer review necessary for publishing in the Atmosphere-Ocean Journal. Your Council believes there is still a place for this genre of publication for our Society, and we look forward to getting it back on track in the coming weeks and months. Stay tuned!

## Resources

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#### **Apply for a complimentary registration to the Canadian Research & Hazards Network Symposium**

[The Canadian Research & Hazards Network Symposium](#) will be held this year in Edmonton May 12-14, 2026. CMOS has applied for a grant for one student or early career professional to attend this Symposium as part of our partnership with CRHNet. The attendee will be representing the CMOS School and Public Education Committee (SPEC) to explore areas where our Societies might collaborate. In particular, an [Extreme Event simulation lab](#) will be offering delegates the experience of how gaming can be a useful education tool, and potentially a tool for SPEC.

Interested CMOS members are invited to make a commitment to volunteer for SPEC and share a short BIO and paragraph why this opportunity is of interest. Please email expressions of interest to: [chair-spec@cmos.ca](mailto:chair-spec@cmos.ca)

#### **The educational benefits of a three-minute research talk**

At CMOS Congress 2025 in Saskatoon, an event was held where presenters were limited to three minutes to present their subject. Feedback on this event was positive, and there are plans to do something similar at the virtual Congress 2026 this coming June. Some interesting research and analysis into the educational benefits of the three-minute talk can be found [here](#).

## News You Can Use

# Medal Nominations

## Parsons Medal

The call is out from the Department of Fisheries and Oceans (DFO) for [nominations for this year's Parson's Medal](#). The Timothy R. Parsons Medal was established by DFO to recognize achievement in ocean sciences. It honours the outstanding contributions of the late Dr. Timothy R. Parsons (1932 to 2022) in this field, and is presented at the annual CMOS Congress

## Patterson Medal

The Meteorological Service of Canada (MSC) is pleased to launch the call for nominations for the 2025 Patterson Medal. Established in 1946 in honour of Dr. John Patterson, controller of the MSC from 1929 to 1946, the Patterson Medal is awarded to residents of Canada in recognition of excellence, distinguished service, and exceptional accomplishments in support of meteorology. Nominators are asked to prepare a short submission (maximum two pages) describing how the nominee has contributed to meteorology and meets the Patterson Medal criteria. Nominees may have made technical, operational, research-, service- or policy-related contributions. The deadline for submissions is end of day, Friday April 10th, 2026. Nomination forms can be found [here](#).

# News Items

This section brings you curated articles on recent severe events, cutting-edge research, and ongoing developments over the past couple of months. Environment Canada's announcement that the Weatheradio service would be discontinued provoked much reaction in the Canadian media, while reports on the impacts of the Trump Administration's attack on climate science were very prominent internationally over the past few months.

## Meteorology/Climatology

- [Environment Canada ending Weatheradio forecast service](#) - Toronto Sun
- [C'est la fin pour le service de la radio météo au Canada](#) - Zone911
- [Trump repeals landmark EPA climate finding](#) - USA Today
- [Economic danger of killing federal endangerment rule](#) - Forbes
- [L'horreur environnementale de Trump](#) - Journal de Montréal
- [Trump's EPA repeal could mean push for more diversification in Canada](#) - iPolitics

- [What Trump's US exit from UNFCCC and IPCC could mean for climate action](#) – Carbon Brief
- [Natural disasters cause \\$288B losses in 2025 | The Straits Times](#)
- [Canada will miss its climate targets: here's how we prepare](#) – McLeans
- [Bob Rae urges universities to remain climate change leaders](#) – University Affairs
- [La croissance avant le climat: un bilan de l'ère Legault en environnement](#) | Radio-Canada
- [Greenwashing de l'IA : les promesses climatiques des géants de la tech s'effondrent](#) | Euronews
- [AI Greenwashing: most of big tech's AI climate promises fall flat study finds](#) - Euronews
- [Canada's North is warming from the ground up, and our infrastructure isn't ready](#) – The Conversation
- [Scientists change how el nino is labelled to keep up with spike in temperature](#) - the Energy Mix
- [El nino may return this year and make the planet even hotter](#) - Euronews
- [El nino pourrait revenir et encore chauffer la planet](#) - Euronews
- [L'eau est en état de faillite mondiale estime un rapport de l'ONU](#) - Journal de Montréal
- [Era of global water bankruptcy is here UN report says](#) – the Guardian
- [Lac Érié : la surface gelée la plus importante en 23 ans | Radio-Canada](#)
- [Lake Erie January: most ice in 23 years](#) – CBC
- [Destination Earth moves into Phase Three](#)

## Oceanography

- [Government of Canada investing in aquatic invasive species prevention, monitoring, and management.](#) – Government of Canada
- [Le gouvernement du Canada investit dans la prévention, la surveillance, et la gestion des espèces aquatiques envahissantes](#) – Government of Canada
- [Ocean Frontiers Institute Announces the Transforming Climate Action \(TCA\) Opportunities Fund.](#) - Dalhousie
- [Most of the world just agreed on something: a new treaty to protect our oceans](#) – The Conversation
- [A new study of Projecting the future of Canada's ocean resources for a Blue Economy](#) – Science Direct
- [UN treaty to protect extraordinary marine life due to come into force](#) – Al Jazeera
- [Ocean set 'alarming' new temperature record in 2025](#) – Mongabay
- [Canada has launched a five-year Whalesafe Fishing Gear Strategy to reduce whale entanglements, expand ropeless fishing technology, and protect North Atlantic right whales](#) – Oceanographic

- [The 88-meter vessel CCGS Naalak Nappaaluk, Canada's new primary Offshore Oceanographic Science Vessel \(OOSV\), was delivered by Vancouver Shipyards in November 2025. She is currently in transit to the Bedford Institute of Oceanography in Dartmouth, Nova Scotia](#) – Trident
- [Arctic seas are getting louder as ice melts, posing risks – study shows how to better measure noise](#) – EurekAlert
- Canada's Ocean Supercluster Announces [\\$2.8M Arca Cybersecurity Platform Project](#).

