



The New Wave

April 2025



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

CMOS is excited to bring you bi-monthly updates directly to your inbox! We have re-imagined *The Wave* in a fresh, more dynamic format by transitioning to a new Made-in-Canada platform, Cyber Impact, to replace the previous newsletter. *The New Wave* is designed to deliver short, timely updates, helping you stay connected with the latest in meteorology and ocean science. Over time, we anticipate making this newsletter more interactive, so you can easily access and engage with the information that matters to you. Member engagement, by improving and communicating our value proposition, is an important priority for your Council.

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.

Thank you for being part of our community, and stay tuned!

Recent Events

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

- CMOS Toronto Centre Talk - [Data-driven techniques and artificial intelligence for weather prediction](#): The state of the art and ECCC's plans (**March 20, 2025**)
- CMOS Ottawa Talk - [Rivers in the Sky: A Down-to-Earth Analogy in Hydrometeorology](#) - Ruping Mo (**March 20, 2025**)

Upcoming Events

Mark your calendar! Stay informed about upcoming CMOS meetings, conferences, webinars, and community gatherings. Whether you're looking to network, learn, or engage, this section keeps you in the loop on what's ahead.

CMOS Ottawa Centre Talk

The Gulf of St. Lawrence, undergoing warming conditions and extreme events.

April 17, 2025 12:00-13:00 EDT

Registration Information

Registration for 2025 CMOS-CGU Congress is now open!

The 2025 CMOS-CGU Congress will be hosted in Saskatoon, SK, from May 25-29 with hybrid participation options.

Register before April 25 for the early bird rate.

Registration Information

[Hotel rooms must be booked by April 23 & April 25](#) (depending on hotel).

The Congress this year is co-hosted with the Canadian Geophysical Union, and is shaping up to be a stellar event. 387 abstracts have been received, with 150 coming from students. The program will include 70 posters and 60 oral blocks in parallel sessions.

There is also an excellent set of cross-cutting plenary speakers lined up:

- **Dr. Corinne Schuster-Wallace**, Executive Director of the Global Institute for Water at the University of Saskatchewan, on the "[2025 International Year of Glaciers' Preservation](#)"
- **Dr. Catherine Robin**, Acting Director of the Canadian Geodetic Survey, on the new spatial geodetic reference frame for Canada
- A joint CMOS/CGU session on Equity, Diversity, and Inclusion (EDI)
- **Dr. Rachel Chang**, Canada Research Chair in Atmospheric Science at Dalhousie

University, on ocean-atmosphere interactions and CO2 sinks

- **Dr. Geneviève Ali**, Associate Professor at McGill University, presenting the CGU Hydrology Woo Lecture
- **Dr. Doug Degenstein**, Engineering Physics undergraduate chair at the University of Saskatchewan, on space earth observations, including the key roles of the University of Saskatchewan and Canada in historical and upcoming space missions
- **Dr. Helen Baulch**, Associate Professor at the University of Saskatchewan, Eutrophication, algal, and environmental problem-solving

Hope to see you there!

Previews & Updates

Bulletin & A-O Previews

In future editions, get a sneak peek at the latest issues of the *CMOS Bulletin* and *Atmosphere-Ocean* journal. Explore featured research, editorial highlights, and must-read articles shaping the field of meteorology and oceanography.

Council & Executive Matters

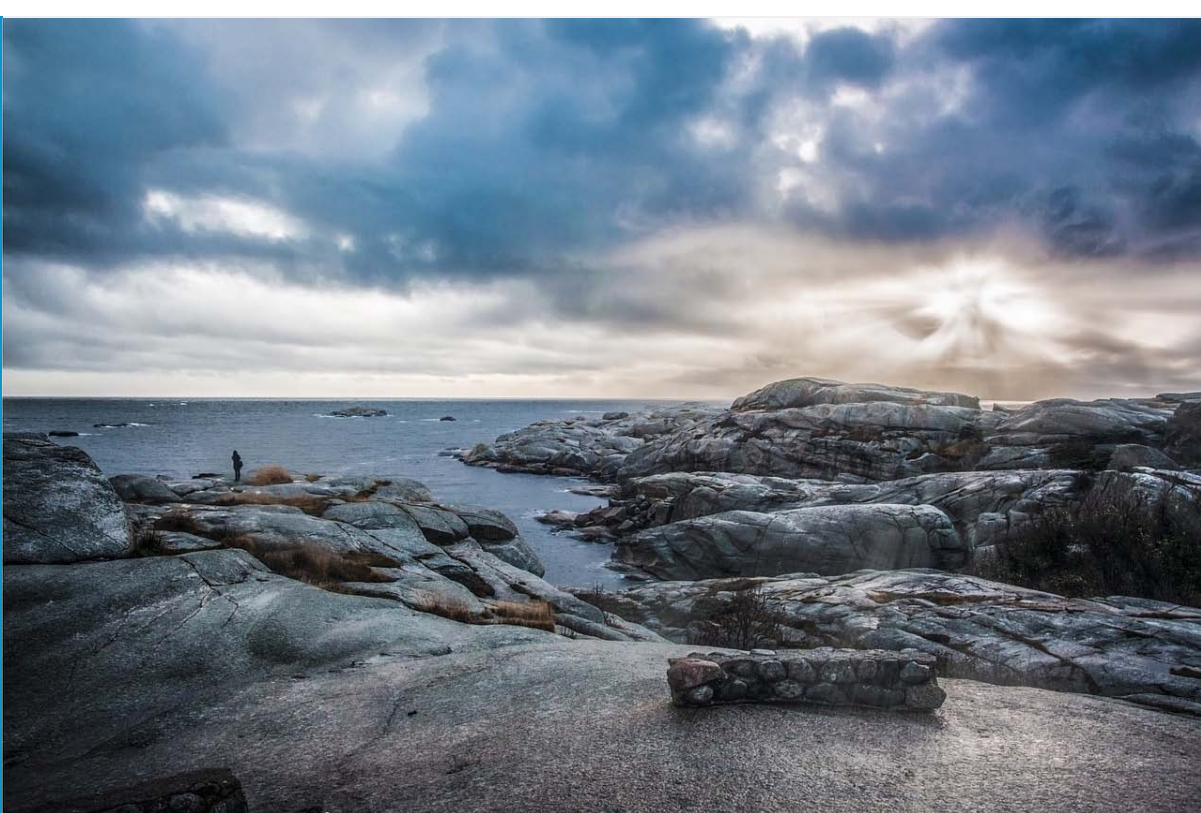
CMOS Council approved the [Strategic Plan 2025-2030](#) that sets the priorities for the Council for the next five years. An implementation plan for 2025/26 is in the works that details actions specific to each of the priorities. Future editions of *The New Wave* will dive into the details.

CMOS Council is committed to developing an action plan to address priorities identified in last year's [Impact Project](#). Council has formed several Working Groups to improve the value proposition of CMOS Membership:

- **Internal Communications:** Create this Newsletter as a first priority;
- **Centre Engagement:** Identify strategies to enable Centres to be active with a growing membership;
- **Students/Early Career Scientists:** Organize a Career Fair at Congress 2025 and develop a Mentorship initiative;
- **Government Engagement:** Identify strategies to increase membership from government scientists and improve the relationship between the Departments and CMOS.

Centres' Updates

In future editions, this space will be dedicated to updates from our Centres across the country, reporting on activities and events that keep members connected in their own part of the country.



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. Recent reports and reactions to the evolving NWS/NOAA situation have been front and centre.

- ECMWF's AI Forecasts become operational: <https://www.ecmwf.int/en/about/media-centre/news/2025/ecmwfs-ai-forecasts-become-operational>
- The US Weather Enterprise: A National Treasure at Risk: <https://blog.ametsoc.org/2025/03/03/the-u-s-weather-enterprise-a-national-treasure-at-risk/>
- The Meteorological Society of Japan issues a statement on recent reduction in capabilities in meteorology and atmospheric science in the United States: <https://www.metsoc.jp/en/2025/03/28/38305>
- Ambitious climate action could boost global 2040 GDP by 0.2%, says OECD study: <https://www.reuters.com/sustainability/climate-energy/ambitious-climate-action-could-boost-global-2040-gdp-by-02-says-oecd-study-2025-03-25/>
- Arctic sea ice hits record low for its usual peak growth period: <https://phys.org/news/2025-03-arctic-sea-ice-usual-peak.html>
- Arctic Ocean current could be at risk: research warns of global ripple effects: <https://www.rcinet.ca/eye-on-the-arctic/2025/03/31/arctic-ocean-current-could-be-at-risk-research-warns-of-global-ripple-effects/>
- The Council of Canadian Academies has appointed an expert panel to examine the future of meteorological and hydrological services in Canada: <https://www.cca-reports.ca/cca-appoints-expert-panel-to-examine-the-future-of-meteorological-and-hydrological-services-in-canada/>
- New research highlights net-zero solutions and benefits for rural, remote, and Indigenous communities: <https://environmentjournal.ca/new-research-highlights-net-zero-solutions-and-benefits-for-rural-remote-and-indigenous-communities/>
- Coupures à la NOAA: une agence aux multiples ramifications:

<https://www.sciencepresse.qc.ca/actualite/2025/03/03/coupures-noaa-agence-aux-multiples-ramifications>

- Glaciers: des centaines de milliards de tonnes en moins: <https://www.sciencepresse.qc.ca/actualite/2025/02/25/glaciers-centaines-milliards-tonnes-moins>

Of further note, the Council of Canadian Academies has appointed a panel chaired by CMOS Past President Jim Abraham to consider the future of meteorological and hydrological services in Canada.



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