

CMOS
Canadian Meteorological and
Oceanographic Society



SCMO
Société canadienne de météorologie
et d'océanographie

The New Wave

May 2026



Welcome to the last regular edition of *The New Wave* for 2025/26 before our summer break. Lots to look forward to in this edition, particularly a look ahead to Congress 2026! We take this opportunity to wish you the most excellent summer ahead wherever in our great country you reside and we hope you will find the time to recharge after a long cold winter and have quality time with family and friends.

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 love to hear from you!** Please send any suggestions, comments or constructive criticisms you may have to wave-comments@cmos.ca. Thank you for being part of our community!

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.

- CMOS was co-signatory to [a letter to Environment and Climate Change Canada Minister Julie Dabrusin](#) expressing concern over **the disbanding of the weather radar research group** within the Science and Technology Branch of ECCC. The letter was also signed by representatives from The Canadian Severe Storms Laboratory, The University of Manitoba, McGill University, Weatherlogics Inc., The Weather Network/ MétéoMédia, Catastrophe Indices and Quantification Inc., Instant Weather Inc., and The Secrets of Radar Museum, Concerned members can reinforce this by participating in a [letter campaign](#).
- The Executive Committee of CMOS issued a [Position Paper](#) on the Canadian Council of the Academies report on The Future of Hydrological and Meteorological Services in Canada.
- The American Meteorological Society issued a response to the National Science Foundation Regarding [the Future of the National Center for Atmospheric Research](#).
- 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 19th.
- The CMOS Toronto Centre hosted a talk by Concordia University's Ali Nazemi on March 18th entitled [More Is Less: Asymmetric Impacts of Snow Water Change in Canada](#).
- The annual CMOS Ottawa Student Talk was held at Irene's pub on April 2 and was also available by Zoom. Anna Brownlee, Masters candidate Department of Geography and Environmental Studies and Ehsan Adel Rastkhiz, PhD candidate Department of Systems and Computer Engineering, Carleton University, presented their work on [Stronger Stations, Sharper Forecasts: Advancing Weather Services in the Arctic](#).
- A CMOS webinar was held on Thursday 7th May 2026 entitled [Hurricane Fiona: Lessons Learned in PEI](#).
- [Nominations for the annual Patterson Medal](#) that recognizes excellence, distinguished service, and exceptional accomplishments in support of meteorology were opened on March 9th.

- [Nominations for the Timothy R. Parson's Medal](#) that recognizes distinguished accomplishments in multidisciplinary facets of ocean sciences while working for Canadian institutions or for the benefit of Canadian science were opened on March 9th.

Upcoming Events

- SCMO.CMOS 2026 Congress: [The 60th CMOS Congress](#) (Virtual: June 1–4, 2026) is fast approaching. If you plan to attend and have not yet registered, please do so in the coming days. The theme, "Navigating Uncertainty," promises high-quality scientific presentations: over 250 abstracts have been submitted, including 226 oral presentations. In keeping with this theme, the organizing committee has redesigned the format to make it more compact and reduce the screen fatigue inherent in virtual events, with significant changes compared to an in-person conference. You can register [here](#) for the CMOS premiere event of the year.
- June is a busy month with awareness events for many environmental domains including [World Reef Day](#), [Ocean Week Canada 2026](#), [World Environment Day](#), [World Oceans Day](#), and [Global Wind Day](#).
- A **film highlighting the role of meteorologists in the D-Day** battle will be released on 29th May, just before the 82nd anniversary on 06 June: Entitled Pressure, a trailer can be viewed [here](#). CMOS Centres may want to consider organizing a social event around this movie release!
- CMOS partner the [Canadian Water Resources Association will hold its annual National Conference](#) June 15 – June 19 in Winnipeg MB. This year's theme is Honouring the Spirit of Water - Bringing Together Diverse Knowledge Streams in a Climate of Change.
- [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.
- [H₂O Home To Overseas Conference](#). Halifax NS, June 8-10, 2026. One of Canada's premier events for the ocean technology sector and 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
- [Nature-Based Solutions for Coastal Resilience Conference](#), June 21-25, 2026 at St. Mary's University in Halifax NS.
- [The Goldschmidt Conference](#) is the primary meeting worldwide for the presentation and exchange of scientific ideas in geochemistry. Montreal QC 12 – 17 July 2026.
- [1st IEEE Canadian Atlantic Ocean Symposium, July 20 - 22, 2026, Halifax, NS](#).
- 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.
- [World Congress of Marine Stations](#). Bamfield, BC, September 1-4, 2026.
- [Ocean Optics XXVII](#) Conference, September 13-18. 2-26 om Ghent Belgium.
- [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.
- The 18th annual [Canadian Science Policy Conference](#) (CSPC) will be held from Nov 25th-27th, 2026 at the Fairmont Château Laurier, Ottawa under the theme Sovereignty by Design: Mobilizing Action to Reshape Canada's Science, Technology, and Innovation Capacity
- [AGU Fall Meeting](#), December 7-11, 2025, San Francisco CA USA.
- [Polar Marine Science Gordon Research Conference, The Polar Oceans as Global Lynchpins](#). March 21-26, 2027 in Pomona CA, USA.
- [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

The CMOS Annual General Meeting (AGM) is scheduled for June 17 this year and will be virtual. We invite all members to attend and hear about last year in review, as well as to look ahead and review and vote on the budget for 2027 and the slate of Candidates for Council. Check the CMOS [event calendar](#) for the draft agenda and further updates.

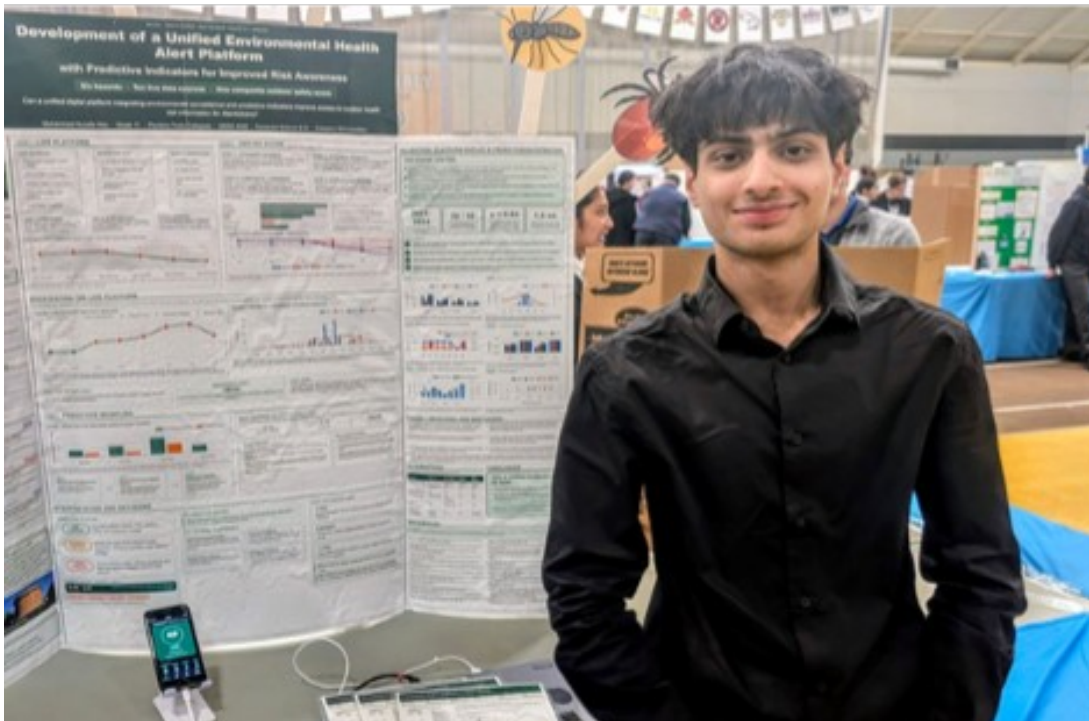
Centres

WINNIPEG CENTRE participated in the Manitoba science fair (MSSS), where CMOS gave out three awards:

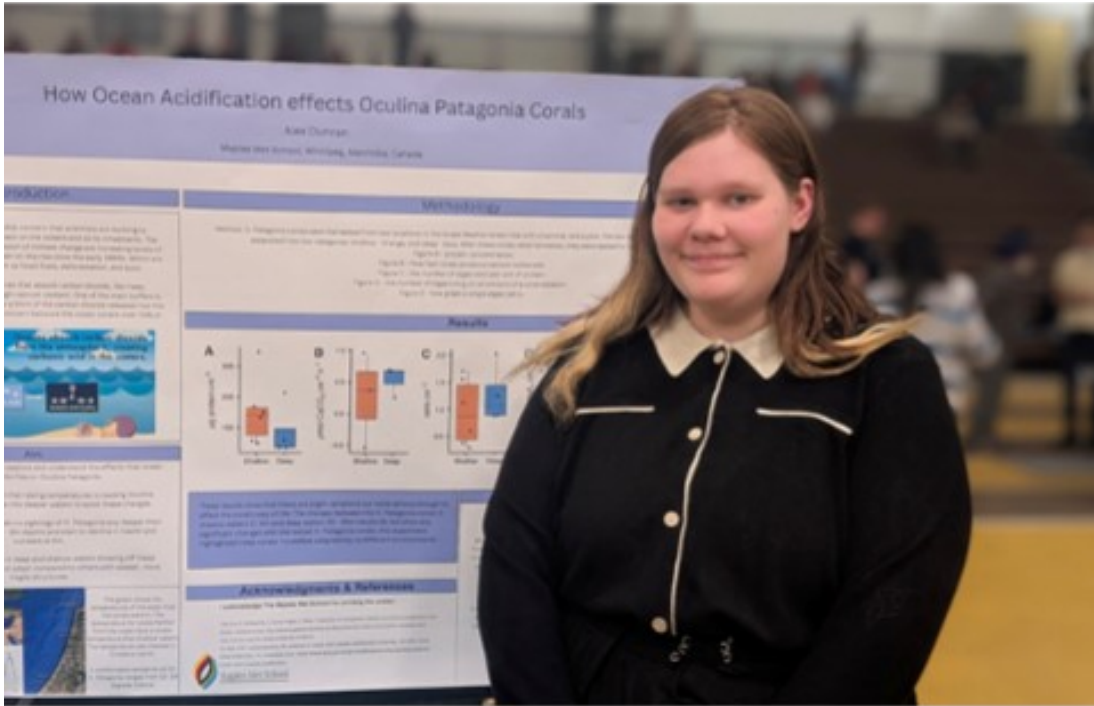
- **Kurlreet Kaur Gill**, Grade 5 (below), won the prize for Meteorology for her project *Cloud in a Bottle*



- **Muhammad Huzaifa Irfan**, Grade 11 (below), won the Natural Hazards prize for his project *Development of a Unified Environmental Alert Platform*

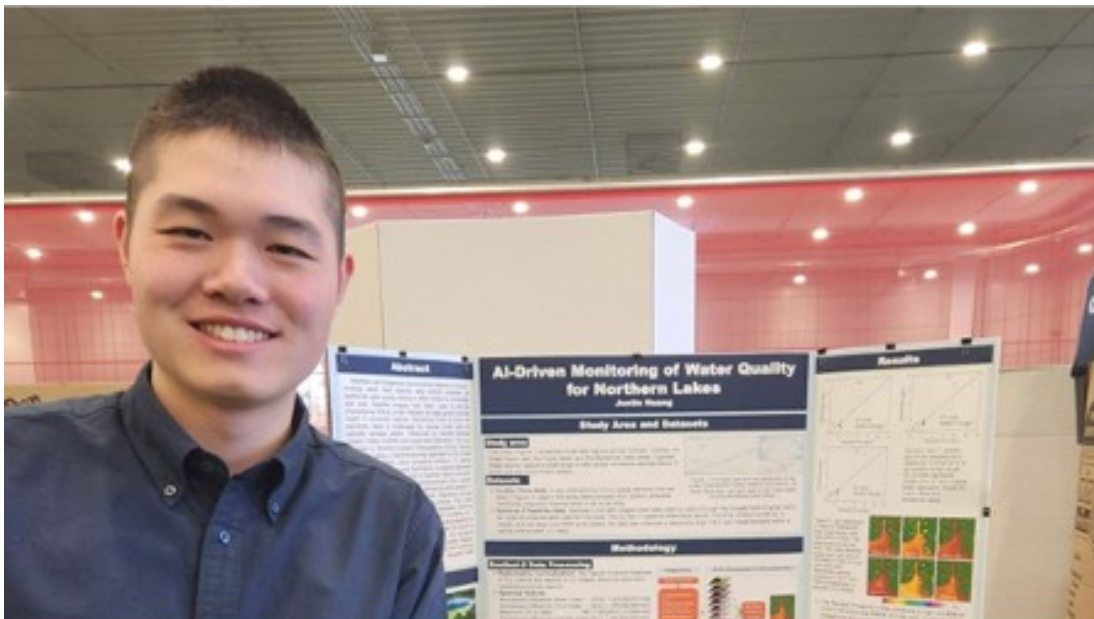


- **Allex Dundan**, Grade 10 (below), won the prize for Oceanography for her project *How Ocean Acidification Affects Oculina Patagonia Corals*



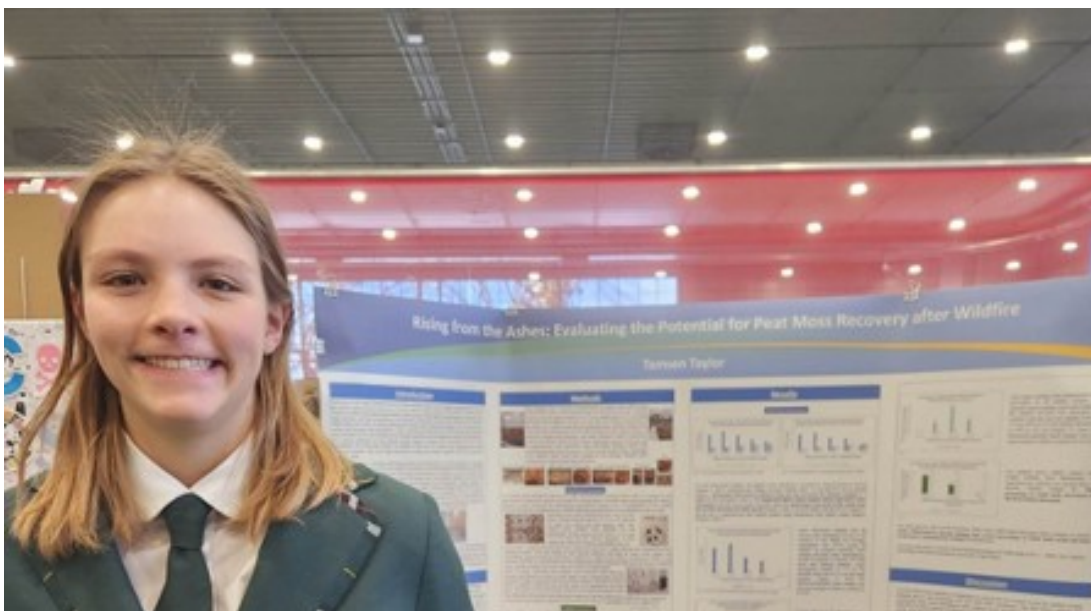
OTTAWA CENTRE has also handed out awards to outstanding students for local science fairs:

- At the Ottawa Regional Science Fair, Merivale High School student **Justin Huang** (below) won the First Prize for his project, *AI-Driven Monitoring of Water Quality for Northern Lakes*.



- **Tamsen Taylor** (below) won second prize for her project *Rising from the Ashes: Potential for*

Peat Moss Recovery after Wildfire.



More result information, including previous years can be found here:

https://cmosarchives.ca/Ottawa/ScienceFairs/ottawa_centre.html

At the **EXPO-Science Fair** regional final for the secondary/college level, the CMOS \$200 prize was awarded to **Mamou Kadiatou Bah**, 4th year of secondary school, polyvalente Le Carrefour for the project *Le prototype de Convertisseur*.

At the **Frontenac, Lennox, and Addington Science Fair**, the winners of the 2026 CMOS Special Awards were:

- *Potato-Starch Bioplastics: How Glycerol Concentrations Influences Tensile Strength*, by **Rawan Khoshafa** from Kingston Secondary School (\$200 for an intermediate / senior project)
- *Micro Pollution, Macro Problem: An Analysis of Microplastics in Lake Ontario*, by **Grace Wright** (\$100 for a primary / junior project)

TORONTO CENTRE participated in 3 science fairs:

Toronto Science Fair had the following CMOS Award winners:

- First place \$150 prize awarded to **Jacob Chowdhury** (below), a Grade 7 student, for his winning project *A Practical Way to Remove Carbon Dioxide from the Atmosphere*.



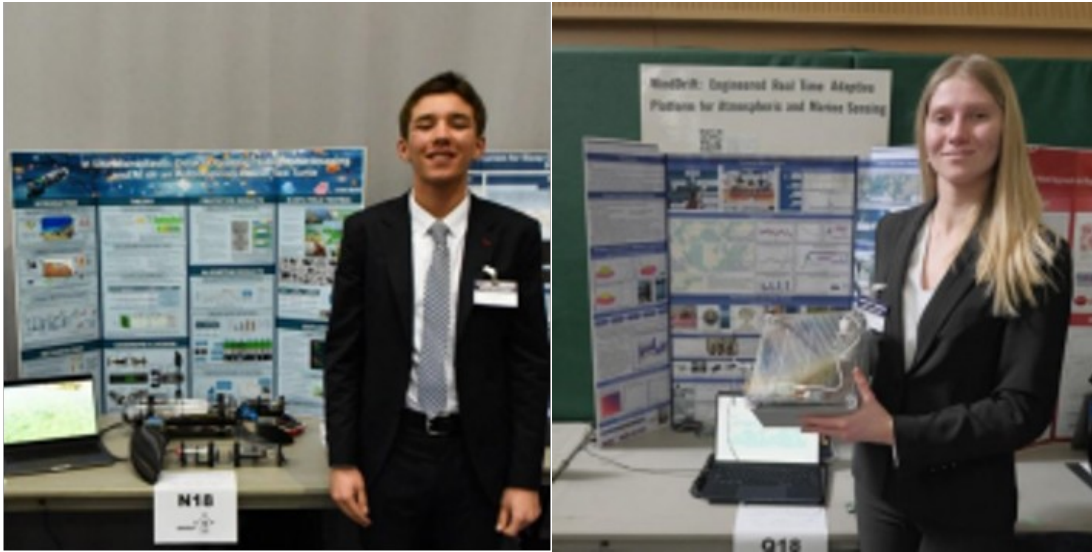
- Second place \$75 prize given to **Aryaman Tripathi** (below) for his project *Phoenix: Advanced Satellite Monitoring for Early Onset Holdover of Fire Detection*. Aryaman was also presented with the Fair's Silver Medal.



The 2026 **York Region Science and Technology Fair** took place at York University (Markham campus) on April 10 and April 11, 2026. Oscar Koren, a Toronto CMOS Centre Executive, judged projects at the

Fair. The CMOS Award winners were:

- First place \$150 prize to **Yan Xu** (below left), a Grade 11 student, for his project *CoastalRisk Analyzer*
- Second place \$75 prize winner was Sofiya Baksht (below right), a Grade 11 student, for her project *SaltSmart: An Engineered Approach to Reducing Chloride Sidewalk Waste One Driveway At a Time*



Other photos of the students receiving their CMOS Awards at the Fair's Awards Ceremony will be available at a later date.

MONTREAL CENTRE hosted a career event, where speakers shared their career paths, experiences and advice with the next generation of experts in atmospheric, climate and ocean sciences (below).



Previews and Updates

Atmosphere-Ocean

The Editors of Atmosphere-Ocean encourage all those presenting at the 2027 Congress to consider submitting their work to Atmosphere-Ocean. We note that to encourage CMOS student members to publish, the page charges for any paper for which the first author is a CMOS student member publishing for the first time in Atmosphere-Ocean, will be reduced by 50%.

This applies to the standard publishing track. Prospective authors interested in Open Access (OA) publication are encouraged to check their institutional participation in the Canadian Research Knowledge Network, as this can reduce OA fees significantly.

Bulletin

Volume 49, Edition 1 of the revitalized CMOS Bulletin was issued April 17! We hope you enjoyed the articles, and invite articles for upcoming editions, the next of which will be in October after our summer break. Submissions can be sent to bulletin@cmos.ca as well as any comments or suggestions you may have.

Resources

Resources

Terrestrial snow is an important component of Canada's climate, water resources, and ecosystems. The quantity, coverage, and duration of terrestrial snow vary with temperature, precipitation and climate cycles (for example, El Niño), which influence long term trends. Information on all 3 aspects of terrestrial snow is important for assessing long-term changes in climate in Canada. [Snow Cover](#) information released – Canada.ca

News You Can Use

News Items

This section brings you curated articles on recent severe events, cutting-edge research, and ongoing developments over the past couple of months. Of note, ECCC announced the launch of its new hybrid AI weather model. As well, there has been much media attention to the upcoming wildfire season and the forecasts of a “super-el Nino”.

Meteorology

- [Reverse the Loss of Severe Weather Radar Science at ECCC](#) - Action Network
- [Le Canada lancera un modèle météorologique hybride basé sur l'intelligence artificielle afin d'améliorer les prévisions en cas de temps violent](#)
- [Canada to launch hybrid AI weather model to strengthen forecasting for severe weather](#)
- [AI weather model to land in Canada, offering insurers a clearer risk view](#) - Insurance Business
- [What the National Center for Atmospheric Research Means to the Atmospheric Sciences](#) – Physics Today
- [Climate change poses greater risk to the north than military invasion researcher says](#) – The Yellowknifer
- [Climat: la Terre a accumulé une chaleur record en 2025](#) – le Journal de Montréal
- [Earth's climate swings increasingly out of balance](#) – WMO
- [Le climat de la Terre est de plus en plus déséquilibré](#) – OMM
- [”Laughable-ridiculous” environment committee engaging in junior high behaviour](#) – Donner

and Abreu Say in The Energy Mix

- [Mapped: How climate change affects extreme weather around the world](#) – CarbonBrief
- [Se préparer au verglas du futur](#) – Radio-Canada
- [Les cartes des zones inondables au pays jugées inadéquates](#) – La Presse
- [Canadian flood risk portal doesn't work yet and doesn't consider climate change](#)
- ["Every key indicator flashing red" warns UN's 2025 climate report](#) – Oceanography
- [Alaska's Wildfires Heat the Planet, but Canada's Cool It](#) – Eos
- [AI Supercharges Key NOAA Dataset, Ensuring Peak Accuracy](#) – NCEI
- [Are we in for a super El Niño this year?](#) – CBC News
- [Odds of a 'Super El Nino' growing, model shows. What that could mean](#) – The Hill
- [Le rythme de la fonte des glaciers de l'Himalaya a doublé depuis 2000](#) – le Journal de Montréal
- [Scientists race to decode data from Europe's vanishing glaciers](#) – National Observer
- [Wisconsin-sized chunk of Alaskan permafrost is thawing: Geoscientists say climate may never be the same](#) – Phys.org
- [Why this NASA climate scientist wants you to stay angry](#) – Grist
- [Incendies prévisions météo climat sécurité](#) – Radio-Canada
- [As another firefighting season nears, northern Manitoba mayors hope for more equipment](#) – CBC News
- [Lack of weather radar affects work of firefighters in northern Manitoba, emergency coordinator says](#) – CBC News
- [Saskatchewan more prepared than ever for 2026 wildfire season](#) – Leaderpost
- [New Brunswick fire season begins](#) – CBC News
- [La saison des feux de forêt pourrait être intense, le N.-B. s'y prépare](#) – Radio-Canada

Oceanography

- [Greenpeace to document overfishing and secure first High Seas MPA](#) – Oceanography

- [Study explains Antarctic sea ice growth and sudden decline](#) – Stanford School of Sustainability
- [10% of the ocean now protected. We have four years to triple it](#) – Oceanography
- [Scientists warn of greater uncertainty in future of Atlantic Current](#) – Oceanography
- [“It’s almost like a treasure hunt:” investigating deep sea corals off Newfoundland’s Grand Banks](#) – Canadian Geographic
- [Ocean Networks Canada Soundscape data provides baseline to protect the changing Arctic.](#) – Ocean Networks Canada
- [Unlock Ocean Mysteries: MEOPAR’s Knowledge Mobilization Fund](#) – MEOPAR
- [MEOPAR Announces 2026 Community-Led Research Seed Fund Recipients](#) – MEOPAR
- [Ocean Frontiers Institute Announces the Transforming Climate Action \(TCA\) Opportunities Fund.](#) – Ocean Frontier Institute Dalhousie U.
- [Canada’s Ocean Supercluster Launches New Ocean-based Climate Solutions Platform](#)

