



## Polar Climate and Ocean Model Working Group Winter Meeting

February 2026

**February 5, 2026**

\* All times are MST; **Speakers:** 15 min total: (12 min talk + 3 min for questions)

Time	Topic	Speakers
8:25am	Welcome - <i>Joint OMWG/PCWG</i> Focus: Wave-ice interactions <i>Convenors: Gustavo Marques, Alice DuVivier</i>	
8:30	Fracture of sea ice by ocean surface waves in CESM3	Lettie Roach (REMOTE)
8:45	Wave-ice interactions in CESM3: Model physics and results	Cecilia Bitz
9:00	Machine learning-based parameterization of floe perimeter for CESM	Diajeng Atmojo (REMOTE)
9:15	A new parameterization to describe the health of a sea ice floe and its potential to influence wave fracture	Geraint Webb
9:30	The Full Wave-Coupled Configuration of E3SMv3: Wave, Ocean, Atmosphere, Sea Ice Coupling	Erin Thomas
9:45	Modelling wave–ice–ocean interactions using ACCESS-OM3	Noah Day (REMOTE)
10:00	<u>Discussion Topics:</u> <ul style="list-style-type: none"><li>• Wave ice physics and future development</li><li>• Coordinated experiments and analysis, etc.</li><li>• Regional ice/ocean/wave modeling (CROCODILE)</li><li>• Anything else</li></ul>	
10:30	<b>Break (30 min)</b>	
11am	Understanding biases in Antarctic passive microwave sea ice concentration using ICESat-2 and adjoint-based data assimilation	Chris Horvat (REMOTE)
12-1:25	<b>Lunch (1 hr, 25 min)</b>	
1:25	Welcome - <i>Joint OMWG/PCWG</i> Focus: CESM3 <i>Convenors: Gustavo Marques, Ian Grooms, Alice DuVivier, David Bailey</i>	
1:30	Cross WG Session for June Workshop: Storytelling to craft climate science tools for communities	Laura Landrum, Mari Tye, James Done

1:35	CESM3 sea ice overview	Alice DuVivier and Dave Bailey
1:50	CESM3 ocean overview	Ian Grooms and Gustavo Marques
2:15-3:00	<p><u>Discussion Topics:</u></p> <ul style="list-style-type: none"> <li>• CESM3 release, CMIP7 plans, etc.</li> <li>• CESM3 planned manuscripts</li> <li>• Coordinated experiments and analysis, etc.</li> <li>• Regional ice/ocean/wave modeling (CROCODILE)</li> <li>• Anything else</li> </ul>	
3:00-3:15	<b>Break</b>	
3:15	Welcome - <i>PCWG only</i> Convenor: <i>David Bailey</i>	
3:15	FloeNet: a mass-conserving emulator of the GFDL sea ice model	Will Gregory (REMOTE)
3:30	Insights into the ice-ocean exchange and variability of Microplastics in the Arctic Ocean	Lingwei Li
3:45	Tropical Origins of High-Latitude Cyclones: Insights from ex-Typhoon Halong (2025)	Zhuo Wang (REMOTE)
4:00	Melt Ponds on Arctic Sea Ice	David Clemens-Sewall
4:15	Regional Discrepancies in Arctic Melt Pond Distribution of CMIP6 Models and CESM-LE with Satellite Observations	Alek Petty
4:30	<b>Adjourn</b>	

## February 6, 2026

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Time	Topic	Speakers
8:25	Welcome - <i>PCWG only</i> Convenor: <i>Alice DuVivier</i>	
8:30	Constraining and Evaluating the Impacts of Atmospheric Forcing Errors for Sea Ice Data Assimilation in Short-Range Forecasts	Hee-Sung Jung
8:45	Internal Variability Explains Much of the Observed–Model Discrepancy in Spring Arctic Amplification	Sky Gale
9:00	Cloud-based Arctic radiation management in idealized CESM simulations	Xia Li (REMOTE)
9:15	Local Arctic Ice Management: Evaluating model simulations of sea ice flooding at experimental scales	Molly Wieringa

9:30	Potential Impacts of Marine Cloud Brightening in the Arctic System and Beyond	David Clemens-Sewall, Courtney Payne, Claire Singer, Walker Lee
10:00	<b><i>Break (15 min)</i></b>	
10:15	Seasonal-to-Decadal Prediction of Arctic Sea Ice and Ocean Heat Transport	Jacob Cohen (REMOTE)
10:30	AABW Variability as a Driver of AMOC Strength: Insights from MESACLIP	Ilana Wainer
11:00	Decadal changes in the monthly variance and persistence of simulated Antarctic sea ice anomalies	Marika Holland
11:15	Antarctic Biophysical Connections	Alice DuVivier
11:30	Quantifying under-ice phytoplankton blooms in the changing Arctic and Southern Oceans	Courtney Payne
11:45	<u><i>Discussion:</i></u> <ul style="list-style-type: none"> <li>• ML enabled CESM</li> <li>• High resolution CESM</li> <li>• PCWG resource requests and community experiments and University large allocation requests (timeline, etc.)</li> <li>• CESM3 papers for standard runs</li> <li>• Anything else</li> </ul>	
12:30	<b><i>Adjourn</i></b>	