

## CESM POLAR CLIMATE WORKING GROUP WINTER WG MEETING

February 23-24, 2023

\* All times are MST; **Speakers:** please leave 5 min at the end of your slot for questions.

Time	Topic	Speakers
	<b>Joint LIWG / PCWG Session - Thursday, February 23</b>	
09:00	Welcome.	Co-chairs
09:10	Large effects of ocean circulation change on Greenland ice sheet mass loss under mid-of-the-road greenhouse gas scenario (Remote)	Miren Vizcaino
09:30	Response of the Greenland Ice Sheet to temperature overshoot scenarios (Remote)	Michele Petrini
09:50	High-resolution, fully-coupled simulations of the Greenland Ice Sheet in a future, strong warming scenario (In Person)	Ziqi Yin
10:10	Improved Bare Ice Albedo over the Greenland Ice Sheet using Physically Based Bare Ice Albedo Radiative Transfer Methods (Remote)	Chloe Whicker
10:30	<b>Break</b>	
11:00	Large-scale wind-driven Greenland melt influences sea-level rise projection uncertainties (Remote)	Daniel Topal
11:20	Identifying High Latitude Atmospheric Rivers with Machine Learning (In Person)	Christine Shields
11:40	Transformation of the Sea-Ice "Cover" in the New Arctic - Insights Into Melt Progression From ICESat-2 High-Resolution Data Analysis With the DDA-bifurcate-seaice (In Person)	Ute Herzfeld (or Huilin Han)
12:00	Adjourn for lunch.	
	<b>PCWG Afternoon Session - Observed Conditions</b>	
13:00	<b>Welcome</b>	Co-chairs
13:10	Record Arctic Cyclone of January 2022: characteristics, impacts, and predictability (Remote)	Ed Blanchard-Wrigglesworth
13:30	Lead fractions from SAR-derived sea ice divergence (In Person)	Louisa von Albedyll
13:50	Spatial scale of surface albedo and melt pond fraction during summertime in the Central Arctic Ocean (In Person)	Radiance Calmer

14:10	Break	
	<b>PCWG Afternoon Session - Climate Dynamics 1</b>	
14:30	Atmospheric drivers of temporal variability in melt pond coverage and albedo: A model-observation synthesis (Remote)	Melinda Webster
14:50	Arctic near surface air temperature is warmer in CESM2, is this a good thing? (Remote)	Elin McIlhattan
15:10	Large Scale Climate Modes as Drivers of Low-Frequency Regional Arctic Sea Ice Variability (In Person)	Chris Wyburn-Powell
15:30	Processes controlling the seasonally varying emergence of forced Arctic longwave radiation changes (In Person)	Jonah Shaw
15:50	<b>Adjourn for the day</b>	
	<b>PCWG Session Friday, Feb 24 - Model Development</b>	
09:00	<b>Welcome</b>	Co-chairs
09:10	On the design of sea ice thermodynamic parameterizations with machine learning (In Person)	Lorenzo Zampieri
09:30	Progress Towards an Icepack Model Case Study for the MOSAiC Expedition (In Person)	David Clemens-Sewall
09:50	Towards CESM3: Snow physics, waves, and fast ice, oh my. (In Person)	David Bailey
10:10	Break	
	<b>PCWG Session - Climate Dynamics 2</b>	
10:30	The role of ocean heat transport versus surface heat fluxes in driving Arctic warming and sea-ice decline (Remote)	Dylan Oldenburg
10:50	Understanding Arctic Precipitation: How and When Does it Change in CESM2? (In Person)	Sean Leister
11:10	Sea Ice Perturbations in CESM2 Aquaplanet Simulations: Isolating the Physical Climate Responses From Model Interventions (Remote)	Mark England
11:30	Discussion	
12:00	<b>ADJOURN</b>	