

**CESM Polar Climate Working Group Meeting**  
**6-7 February 2020**  
**National Center for Atmospheric research – Mesa Lab**  
**Boulder, Colorado**

Thursday, February 6

9:00	Welcome and logistics\	M.Holland & J.Kay
9:10	Fingerprints of internal drivers of Arctic sea ice loss in observations and model simulations	Q.Ding
9:30	Arctic Freshwater Storage and Export in CESM2-CAM6 and CESM2-WACCM6	H. Zanowski
9:50	Process scale observations of Arctic sea ice during MOSAiC	M. Smith
10:10	Break	
10:30	Antarctic sea ice in CMIP6	L.Roach
10:50	Observed and Modelling Evidences of Significant Impacts of Antarctic Sea Ice Anomalies on Southern Hemisphere Circulations	Q.Wu
11:10	Progress and Plans for Sea Ice Modeling in the CICE Consortium,	E.Hunke
11:30	Seasonal transitions of Arctic sea ice over the satellite era in CMIP6 models	A. Smith
11:50	Lunch (on your own)	
1:00	Contribution of tropical Pacific sea surface cooling to accelerated sea ice melt from 2007 to 2012	I. Baxter
1:20	Arctic and Antarctic sea ice state in CESM2 and the impact of clouds	A.DuVivier *
1:40	Changes in Arctic Sea Ice in the Community Earth System Model Version 2 (CESM2) over the 20th and 21st Centuries	P.DeRepentigny *
2:00	Arctic clouds in CESM2	J.Kay *
2:20	The influence of new sea ice physics in CESM2	D.Bailey *
2:40	Linking Satellite Data Analysis and Cryospheric Modeling via Auto-Adaptive Classification and Machine Learning: A Perspective for the Sea-Ice and Polar Climate Community.	U.Herzfeld
3:00	Coffee Break	
3:20	The Annual Cycle of Antarctic Sea ice Extent in CESM2 <b>(REMOTE)*</b>	M. Raphael
3:40	An Overview of Antarctic Sea Ice in the CESM2 <b>(REMOTE)*</b>	H.Singh
4:00	Sea ice variability across timescales in CESMx and observations <b>(REMOTE)*</b>	E.Blanchard-Wrigglesworth

To join the meeting remotely:

<https://ncar-cgd.zoom.us/j/659011908?pwd=WkQxeXhkYXNjcnpqOTZUVUFBbW8ydz09>

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- 4:20 Snow on Arctic sea ice in a warming climate (**REMOTE**)\* M. Webster
- 4:40 Discussion
- 5:00 Adjourn; Dinner and drinks at Under the Sun

Friday, Feb 7

CESM Project Updates

- 9:00 Welcome
- 9:10 CESM2 Project Updates M. Holland  
CESM2 Special Issue  
CESM2 Integrations
- 9:40 PAMIP Integrations and CESM2 LENS C. Deser
- 10:00 Break
- 10:30 Discussion  
Topic 1. Future activities of the PCWG.  
Model Developments  
Model Integrations
- Topic 2. Involvement in CMIP:  
\* What value do you see (or is there) in CESM's participation in the CMIP efforts?  
\* Relatedly, how have CESM CMIP simulations / experiments helped you advance your science?  
\* What fundamental science does the CESM's CMIP participation come at the expense of?
- 12:00 Adjourn

\* refers to talks that are showing results from CESM2 special issue papers  
(<http://www.cesm.ucar.edu/publications/?ref=nav>)

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