



NCAR
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**Community Earth
System Model**

**Earth System Prediction with CESM: Bridging Science and Real-World Applications
31st Annual CESM Workshop
June 17th, 2026**

Wednesday, June 17th, 8:30 am - 12 pm

** All times are MST; **Speakers:** 12 min talk. Please leave 1-2 min at the end of your slot for questions.*

Time	Topic	Speakers	Organization
8:30	Welcome and logistics	Steve, Dillon, Andy	
8:34	State-dependent predictability in subseasonal to seasonal forecasts over North America	Judith Berner	NSF NCAR
8:46	From the Ground Up: The Influence of Soil Moisture on S2S Temperature Predictability in CONUS	Meg Fowler	NSF NCAR
8:58	Seasonal precipitation skill in current climate models is due to initial tropical conditions alone	Matt Newman	NOAA
9:10	Interpretable AI-Optimized Model Analogs for Global Seasonal Precipitation	Kinya Toride	CIRES/NOAA
9:22	Shortcut to skill? Linear post-processing targeting ENSO predictions in CESM	Dan Amrhein	NSF NCAR
9:34	Potential Impacts of Marine Cloud Brightening in the Arctic System and Beyond	David Clemens-Sewall	NSF NCAR
10:00	Break		
10:30	Linking Internal Oceanic Variability to Decadal Hydroclimatic Stress Predictability	Samar Minallah	NSF NCAR
10:42	Kilometer-scale downscaling of CESM2 Large Ensemble simulations for modernizing extreme precipitation guidance for the nation	Alexander Thompson	University of Colorado / CIRES
10:54	Predictability of the Gulf Stream and associated ocean eddies: insights from High-Resolution Prediction System experiments	Justin Small	NSF NCAR
11:06	The Predictable Response to Strong Wintertime Aleutian Low Forcing	Evan Meeker	University of Wisconsin
11:18	Mechanisms driving Subpolar North Atlantic Upper Ocean Heat Content Predictability in CMIP6 Decadal Prediction Systems	Dylan Oldenburg	NSF NCAR
11:30	Skillful decadal predictions suggest near-future, ocean-driven Arctic sea ice loss	Jacob Cohen	University of Washington
11:42	A CIME-Based Workflow for Out-of-the-Box Data Assimilation in CESM	Helen Kershaw	NSF NCAR

11:54	Strongly-Coupled Data Assimilation for CESM Models with DART	Jeff Anderson	NSF NCAR
12:00	Lunch		

Posters

	Assessing Near-Term Climate Prediction Using Taiwan Earth System Model Initialized Hindcasts	Yu-heng Tseng	National Taiwan University
	High-Resolution CESM: Redefining Coastal Sea Level Memory	Melanie Becker	CNRS, France