NCAR OPERATED BY UCAR Community Earth System Model

Atmosphere Model Working Group Agenda
31st Annual CESM Workshop
June 15th, 2026

Monday, June 15th, 1:30-5 pm

** All times are MST; **Speakers**: 10 min talk. Please leave 2 min at the end of your slot for questions.*

Time	Topic	Speakers	Organization
1:30 – 1:36	Intro & Welcome	AMWG co-chairs	
Session 1: Dynamics, Numerics & Diagnostics			
1:36–1:48	The DCMIP-2025 mountain-generated mesoscale flow test case	Timothy Andrews	University of Michigan
1:48–2:00	Local and global energy conservation in the Community Atmosphere Model (CAM) (remote)	Thomas Toniazzo	NORCE
2:00–2:12	Design principles for stable and generalizable data-driven discretization	Antoine-Alexis Nasser	Princeton University
2:12–2:24	Next Generation of AMWG Diagnostics	Justin Richling	NCAR/CGD
2:24–2:36	Semi-automated, semi-final-touch tuning of CESM3	Vincent Larson	University of Wisconsin
2:36 – 2:48	Tropical precipitation improvement with CESM3 driven by deep-atmosphere MPAS	Hing Ong	
2:48 – 3:00	Analysis of stratospheric small-scale gravity waves in high and ultra-high resolution CAM7	Julio Bacmeister	NCAR
3:00 – 3:30	BREAK		
Session 2: Clouds, Microphysics, Convection, Aerosols & Phenomena			
3:30–3:42	Mixed-phase cloud thinning with prognostic mineral dust in CESM2	Paul Farron	ETH Zürich
3:42–3:54	Constraining Errors in Ice Microphysics Schemes with Perturbed Ensembles	Joseph Ko	Columbia University
3:54–4:06	New insights from a sectional cloud microphysical model (CARMA Cloud)	Cheng-Cheng Liu	CU Boulder
4:06–4:18	Impacts of Habit-Weighted Ice Microphysics on High-Latitude Cloud Properties	Hyun-Joon Sung	Pukyong National University
4:18–4:30	Simple model reveals complexity of diagnosing the LWP adjustment in CAM6	Brandon Duran	Scripps Institution of Oceanography
4:30–4:42	Deep Convection-Related Sensitivities to the Configuration Changes in CAM7	Rich Neale	NSF NCAR

4:42–4:54	Behind the Curtain of Coupled-Model Development: Evaluation of the El Nino Southern Oscillation in the Community Earth System Model version 3 (CESM3)	Meg Fowler	NSF NCAR
5:00	Closing / Adjourn		

Posters

	SCREAM with regional refinement down to 100 m resolution	Mark Taylor	Sandia National Laboratories
	Coupling and cross-component parameter effects on precipitation minus evapotranspiration (P−E) in CESM2	Vikrant Sapkota	University of Chicago
	Assessing Temporal Emission Variability Using MUSICAv0 and NASA TEMPO	Bianca Meotti	North Carolina State University
	Emergence of an Advective Boundary Layer in Monsoon Cross-Equatorial Flow: Observations, Scaling Theory, and CESM Aquaplanet Tests	Ashwin Seshadri	Indian Institute of Science
	Simple model reveals complexity of diagnosing the LWP adjustment in CAM6	Brandon Duran	Scripps Institution of Oceanography
	Moisture Source Attribution and Precipitation Recycling in the Southwestern North America (SWNA): Comparing WRF-WVT, iCAM6, and the Two-Layer Dynamic Recycling Model Move to another session or poster	Hadi Zanganeh Kia	University of Houston