



**NCAR**  
OPERATED BY UCAR

**Community Earth  
System Model**

## Atmosphere Model Working Group Winter Meeting

(note: AMWG meeting joint with CVCWG/ESPWG/WAWG/CCWG on February 2)

**February 4, 2026  
Main Seminar Room**

**February 4**

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

Time	Topic	Speakers
	<b>CESM/CAM model developments and usage</b>	
9:00	Atmospheric controls on marine heat waves in the Gulf of Guinea using CESM2 (work in progress)	Frédéric Koutéla
9:20	The next generation of the Norwegian Earth System Model - NorESM3	Ada Gjermundsen
9:40	Achieving local energy conservation in CAM	Thomas Toniazzo
	<b>Software developments and machine learning</b>	
10:00	A prototype automatically differentiable CAM-SE in python using Jax	Owen Hughes
10:20	Neurosymbolic Translation Pipeline of CLM-ml to JAX	Aya Lahlou
10:40	Utilizing CAM Fortran physics in the E3SM Atm. model in C++	Ren Stengel
11:00	<b>BREAK</b>	
11:30	Topography and SGH generation for ultra-high resolution grids	Mark Taylor
11:50	Nudging capability/software in CAM	Patrick Callaghan
12:10	Evaluating a Neural-Network Approach to Deep Convection in CAM6: Improvements and Remaining Challenges	Xavier Levine
	<b>LUNCH</b>	
	<b>Tuning &amp; high resolution CAM</b>	
1:10	Sensitivity to ZM convective parcel T properties in CAM7	Rich Neale
1:30	CAM7 high resolution (~25km)	Cecile Hannay
1:50	Not all regional biases are created equal	Vince Larson
2:10	Optimizing Objective Model Calibration approaches using Single Column Models	Pappu Paul
2:30	Leveraging observations and model experiments for constraints on tropical convection in CAM	Todd Emmenegger
2:50	Adjourn	

