

27<sup>th</sup> Annual CESM Workshop  
CCWG/WAWG 2022 joint session  
WORKING GROUP MEETING

Wednesday, June 15

\* All times are Mountain Time

Time	Topic / Title	Speaker
8:30	Welcome and logistics	Cochairs
	<b>Session 1: MUSICA</b>	
8:35	Recent developments in MUSICA	Louisa Emmons
8:45	Evaluations of Model Simulated Ozone and its Precursors in MUSICA-V0 Against In-situ and Airborne Measurements over the Continental US	Noribeth Mariscal
8:55	Comparing the regional-scale model variability of MUSICA with a regional model (WRF-Chem) over CONUS	Wenfu Tang
9:05	Influence of Asian Summer Monsoon Eastward Shedding Events on Upper Tropospheric Chemical Composition	Doug Kinnison/Jun Zhang
9:15	Evaluating the representation of the Asian summer monsoon UTLS composition in CESM using airborne in situ observations	Ren Smith
9:25	Q&A and discussion	
	<b>Session 2: Model development</b>	
9:35	Development of SC-WACCM with the Non-Hydrostatic MPAS-A Dynamical Core	Soudeh Kamali
9:45	The Parameterization Scheme of Thermospheric Gravity Waves in WACCM-X	Tao Wang
9:55	Spatio-temporal distribution of inorganic halogen sources and sinks in the troposphere: Evaluation of VSL chemistry between CESM1 and CESM2	Rafael Pedro Fernandez
10:05	GEOS-Chem as a chemistry module in CESM	Sebastian Eastham
10:15	Q&A and discussion	
10:25	<b>Session Break</b>	
	<b>Session 3: Science and model evaluation</b>	
10:40	Improvement of SOA representation in CAM to match radiation fields in full chemistry version	Duseong Jo

10:50	Two decades of carbon monoxide (CO) from space and surface in situ global network: evaluation of CAM-chem simulations	Benjamin Gaubert
11:00	Hunga-Tonga eruption: stratospheric aerosol evolution in a water-rich plume	Yunqian Zhu
11:10	Q&A and discussion	
	<b>Session 4: Future plans and discussion</b>	
11:20	Chemistry and Whole Atmosphere Development Plans for CESM3	Cochairs
11:35	Discussion	