

22nd Annual CESM Workshop POSTERS

Atmosphere Model Working Group (AMWG)

Poster #	Last Name	First Name	Institution	Poster Title
AMWG-1	Benedict	Jim	University of Miami	Aquaplanet hydrologic cycle sensitivities to model configuration in present and future climates
AMWG-2	Donahue	Aaron	LLNL	Impact of physics parameterization ordering in a global atmosphere model
AMWG-3	Herrington	Adam	Stony Brook University	A deterministic test of the response of CAM-SE to forcing scale
AMWG-4	Nair	Ram	NCAR	A split-explicit time integration scheme for element-based Galerkin nonhydrostatic models
AMWG-5	Chen	Xi	NOAA / GFDL	The unstaggered extension to GFDL's FV3 dynamical core
AMWG-6	Raeder	Kevin	NCAR	Integration of CESM2 and DART's "Manhattan" release
AMWG-7	Payne	Ashley	University of Michigan	Evaluation of convection in variable-resolution CESM over the Southern Great Plains
AMWG-8	Moncrieff	Mitch	NCAR	A new approach to organized convection parameterization for CAM
AMWG-9	Ullrich	Paul	UC – Davis	Project Hyperion: Understanding hydroclimate data with use-inspired metrics
AMWG-10	Nahas	Alberth	NCSU	Global air quality and climate modeling using the CESM: Evaluation using satellite retrievals and surface measurements
AMWG-11	Qin	Yi	Tsinghua University	A diagnostic PDF cloud scheme to improve subtropical low clouds in NCAR CAM5
AMWG-12	Lin	Yanluan	Tsinghua University	Improved marine low cloud simulation and its impact on double ITCZ problem in CESM
AMWG-13	Middlemas	Eleanor	RSMAS / U. Miami	The impact of cloud radiative effect on Pacific decadal variability
AMWG-14	Zhang	Yuying	LLNL	Validation of ACME simulated clouds and their sensitivity to model resolution with satellite simulators
AMWG-15	Zhao	Chuanfeng	Beijing Normal University	11-year statistical properties of non-precipitating Arctic thin low clouds
AMWG-16	Zhou	Linjong	Princeton University	Improve ten-day weather forecast using a single-moment six-class cloud microphysics
AMWG-17	Tang	Yanli	Chinese Academy of Sciences	Reducing the climate shift in a new coupled model
AMWG-18	Woelfle	Matthew	U. of Washington	Uncoupled precursors for tropical Pacific coupled biases
AMWG-19	Kuo	Yi-Hung	UCLA	Evaluating CAM and models from the MJO and model diagnostic task force ensembles for convective transition statistics
AMWG-20	Herman	Michael	UC – Berkeley	Key predictors of East Asian monsoon rainfall: CESM vs. observations
AMWG-21	Kwon	Young-Oh	WHOI	North Atlantic eddy-driven jet and blocking variability 11 in the CESM1 Large Ensemble simulations
AMWG-22	Chen	Jack	NCAR	Sensitivity of the QBO to ozone and CO2 in CAM5
AMWG-23	Wang	Yi-Chi	Academia Sinica	The current development of the Taiwan Earth System Model

Biogeochemistry Working Group (BGCWG)

Poster #	Last Name	First Name	Institution	Poster Title
BGCWG-1	Du	Zhenggang	U. Oklahoma	Matrix representation of vegetation nitrogen cycles in CLM4.5
BGCWG-2	Zhuang	Kelin	UT – Arlington	Release of marine dimethyl sulfide to atmosphere in CO2-forced climates
BGCWG-3	McNellis	Brandon	U. Idaho	Killing thirsty trees: Strategies for improving drought mortality in dynamic vegetation models

Chemistry Climate Working Group (ChemWG)

Poster #	Last Name	First Name	Institution	Poster Title
CCWG-1	Buchholz	Rebecca	NCAR	Linking the variability of atmospheric carbon monoxide to climate modes in the Southern Hemisphere
CCWG-2	Matsui	Hitoshi	Nagoya University	Development of a global aerosol model using a two-dimensional sectional methods
CCWG-3	Liu	Xiaohong	U. Wyoming	Dust simulations in CESM and impacts on clouds and climate
CCWG-4	Schwantes	Rebecca	NCAR	The impact of chemical mechanism design on simulated ozone in CAM-Chem
CCWG-5	Wu	Chenglai	U. Wyoming	Spatial and temporal variations of dust aerosol in CMIP5 models

Climate Variability and Change Working Group (CVCWG)

Poster #	Last Name	First Name	Institution	Poster Title
CVCWG-1	Deser, Phillips, Hurrell	Clara, Adam, Jim	NCAR	The role of the North Atlantic Oscillation in European climate projections
CVCWG-2	Rangel	Rafael	Federal University of Rio de Janeiro	Global catastrophic effects of increasing total solar irradiance on future climate: General circulation
CVCWG-3	Verma	Tarun	Texas A & M	Transient tropical Pacific response to anthropogenic sulfate aerosol forcing
CVCWG-4	Xie	Jinbo	Chinese Academy of Sciences	Role of internal variability in the North America 2014-15 extreme event
CVCWG-5	Xu	Yangyang	Texas A & M	Potential role of aerosols in causing the global warming hiatus through affecting Pacific SST: A test with NCAR climate model
CVCWG-6	Puy	Martin	University of Texas	Westerly wind events (WWE) evaluation in CESM1

Land Ice Working Group (LIWG)

Poster #	Last Name	First Name	Institution	Poster Title
LIWG-1	Trantow	Thomas	CU – Boulder	Numerical experiments of surge crevassing in the Bering Bagley Glacier System, Alaska, and comparisons to image analysis
LIWG-2	Kennedy	Joseph	Oak Ridge National Lab	Using the LIVVkit2 validation infrastructure

Land Model Working Group (LMWG)

Poster #	Last Name	First Name	Institution	Poster Title
LMWG-1	Bin	Liu	Chinese Academy of Sciences	A method to estimate the latent heat flux based on the minimum canopy resistance distribution
LMWG-2	Dagon	Katie	Harvard University	Regional climate variability under model simulations of solar geoengineering
LMWG-3	Fox	Andy	University of Arizona	Alternative carbon allocation models for the CLM: Testing with multiple data streams in temperate forests
LMWG-4	Huang	Maoyi	PNNL	The role of land use and land cover change in regulating hydrological extremes over the conterminous United States in a changing climate
LMWG-5	Li	Fang	Chinese Academy of Sciences	Global impact of fire aerosols on land, water, and energy budgets
LMWG-6	Ma	Hsi-Yen	LLNL	On the role of surface energy budget errors to the warm surface air temperature error over the central U.S.
LMWG-7	Xie	Zhipeng	Chinese Academy of Sciences	Simulation of snow over the Tibetan Plateau and advances in the land-blowing snow model coupling

Ocean Model Working Group (OMWG)

Poster #	Last Name	First Name	Institution	Poster Title
OMWG-1	Bardin	Ann	UC - Irvine	Dealing with interannual variability when using ocean transport matrices
OMWG-2	Hua	Lijuan	Chinese Academy of Meteorological Sciences	Comparison of ENSO feedback processes simulated with varying atmospheric resolution: A CGCM study
OMWG-3	Huang	Xing	National Supercomputing Center in WUXI	A highly efficient and automated parallel operator library for ocean model
OMWG-4	Misumi	Kazuhiro	CRIEPI	Marginal seas contribution to the west-east dissolved iron gradient in the North Pacific

Paleoclimate Working Group (PaleoWG)

Poster #	Last Name	First Name	Institution	Poster Title
PaleoWG-1	Coats	Sloan	NCAR	Characterizing North American drought under different forcings in the CESM LME
PaleoWG-2	Fasullo	John	NCAR	Volcanically driven global monsoon variability in the CESM LME
PaleoWG-3	Stevenson	Samantha	NCAR	Mitigation of megadrought by climate variability: From the last millennium to the 21 st century
PaleoWG-4	Jackson	Charles	UT – Austin	Novel mechanism for explaining abrupt transitions in tropical hydroclimates
PaleoWG-5	Zhang	Ming	Peking University	Impact of dust reduction on the mid-holocene climate
PaleoWG-6	Otto-Bliesner	Bette	NCAR	Coupled long-term evolution of climate and the Greenland Ice Sheet during past warm periods: A comparison for the Last Interglacial and the Late Pliocene
PaleoWG-7	Winguth	Arne	UT – Arlington	Eocene Hyperthermals – A CESM1.2 model study
PaleoWG-8	Nusbaumer	Jesse	NASA GISS	Water isotopes in CAM6: First results and a comparison to previous versions
PaleoWG-9	Niezgoda	Kyle	Oregon State U.	Characterizing the mid-holocene tropical hydrologic cycle using simulated water isotopes
PaleoWG-10	Tabor	Clay	NCAR	Interpreting speleotherm records from the Asian monsoon region with Icesm
PaleoWG-11	Feng	Ran	NCAR	Simulating mid-Piacenzian warm period with water isotope tracking enabled CESM
PaleoWG-12	Schroeder	Aaron	CU – Boulder	Assessing ocean circulation changes at the LGM using radiocarbon simulations with the iCESM

Polar Climate Working Group (PCWG)

Poster #	Last Name	First Name	Institution	Poster Title
PCWG-1	Ahlert	Abigail	CU – Boulder	Definitions matter: Arctic sea ice melt and freeze onset
PCWG-2	Hunke	Elizabeth	LANL	CICE Consortium: Accelerating sea ice model research, development, and transfer to operations
PCWG-3	Laiho	Rory	CU – Boulder	Detecting changes in the Arctic freshwater budget
PCWG-4	Urrego-Blanco	Jorge	Los Alamos National Laboratory	Study of sea ice sensitivity and causal relationships in the HiLAT coupled climate model