MIPs

CAM-chem, WACCM and MUSICA contributions to current and upcoming multi-model intercomparison (MIP) activities

Current & Upcoming model comparisons

Please let us know if you plan to contribute CAM-chem simulations, or are interested in collaborating with us on any of these activities.

CCMI-2

CCMI-2022

HTAP model intercomparison of fire impacts

In planning stage.

CAM-chem contacts: Wenfu Tang, Rebecca Buchholz, Louisa Emmons

ISA-MIP

Interactive Stratospheric Aerosol Model Intercomparison as part of the SPARC activity Stratospheric Sulfur and its Role in Climate: https://isamip.eu/home

CESM Contact: Simone Tilmes

TOAR-2: https://igacproject.org/activities/TOAR/TOAR-II

Working Group	CAM-chem lead	Additional collaborators
Chemical Reanalysis		
East Asia		
Global and Regional Models		
Ozone Deposition		
Ozone over the Oceans		
Ozone Precursors in the Tropics		
ROSTEES		
South Asia		
Tropospheric Ozone Precursors		
Urban Ozone		

Completed MIPs (model results available)

CMIP6

Full-chemistry simulations with CESM2(WACCM) (MOZART-TSMLT chemistry) were provided for CMIP6, for historical conditions and future scenarios, free-running and specified sea surface temperatures, and for many of the AerChemMIP experiments.

CESM website with details of each simulation

Official archive of CMIP6 output

WACCM output for CMIP6 experiments are available on casper (for those with NCAR supercomputer logins) in /glade/campaign/collections/cmip/CMIP6 /timeseries-cmip6/.

CCMI-1

IGAC/SPARC Chemistry Climate Model Initiative, phase 1: Overview paper: Morgenstern et al., ACP, 2017

Others

- Contributions to:

    - CCMVal2/3
    - GeoMIP
    - POLMIP
    - CMIP5
    - ACC-MIP
- Offline modeling in support of field campaigns (e.g., INTEX-B, POLARCAT)