

Benchmarks and Production

Information about where to find model output.

Available Output

| Case | Short Name | Description | Output Type and Location | Who |
|--|--|--|--|------------------|
| f.e22.FCnudged.f09_f09_mg17.cov_geosFPsn.001 | CAM-chem simulation of the 2020 lockdown | CESM2.2; 0.9x1.25 degree and 32 vertical layers | Description of the simulations and download available at https://doi.org/10.5065/cgg0-rr19 3 hourly outputs can be made available upon request. | Benjamin Gaubert |
| REANALYSIS | DART-CAM4-CESM1.2 | 2002-2013, 1.9x2.5 degree and 26 vertical layers. Ensemble (EAKF) assimilation of conventional meteorological observations and MOPITT retrievals of CO (6-hourly). | Model Reanalysis: ACCESS data here: https://rda.ucar.edu/datasets/ds342.0/ | Benjamin Gaubert |
| FINN_2002 | FINN-32L | 2002-2017, 1.25x0.9 degree and 32 vertical layers. FINN daily fire emissions, CMIP6 anthropogenic emissions with CO tags with dynamic nudged to MERRA2 (50 hours relaxation time). | Restart Files (Jan 1 and Oct 1 for all years) Boundary Conditions (6 hr instantaneous): (List of species) | Benjamin Gaubert |
| FINN_2002_56L | FINN_56L | 2002-2016, 1.25x0.9 degree simulation with FINN daily fire emissions, otherwise CMIP6 emissions and 56 vertical layers with CO tags and specified dynamics to MERRA2 (1% nudging). | Benchmark diagnostic images (2003-2012 compared to FINN-32L) Benchmark output (climatological average) | Rebecca Buchholz |
| fmerra.206.FCSD.1deg.longrun.chey171005 | Longrun_CESM2beta06 | 1975-1993, 1.25x0.9 degree simulation, CMIP6, 56 levels, MERRA2 (1% nudging). | Restart Files (yearly), ACCESS data here: NCAR HPSS: /home/buchholz/CESM206_CAMchem_longrun_fmerra | Rebecca Buchholz |
| fmerra.206.FCSD.1deg.longrun.chey171005.branchbase | Longrun_CESM2beta06_b | 1993-2015, 1.25x0.9 degree simulation, CMIP6, 56 levels, MERRA2 (0.5% nudging). | Restart Files (yearly), ACCESS data here: NCAR HPSS: /home/buchholz/CESM206_CAMchem_longrun_fmerra_branchbase | Rebecca Buchholz |
| fmerra.2.1003.FCSD.f09.qfedcmp.56L.001 | CESM2.1_QFED-56L | 2001-2017, 1.25x0.9 degree simulation with QFED daily fire emissions, otherwise CMIP6 emissions and 56 vertical layers, specified dynamics to MERRA2 (1% nudging / 50 h relaxation). | Benchmark diagnostic images Benchmark output (yearly and 2001-2014 climatological average) Restart Folders (6 monthly) CAM initialization files (monthly): CAM_initial_conditions folder Monthly h0 files (ACCESS data here: /glade/campaign/acom/acom-da/CAM_chem_output/fmerra.2.1003.FCSD.f09.qfedcmp.56L.001/atm/hist) Boundary Conditions: ACCESS data here: https://rda.ucar.edu/datasets/ds313.7/ subsetting: https://www.acom.ucar.edu/cam-chem/cam-chem.shtml | Rebecca Buchholz |