

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