

# Benchmarks and Production

Information about where to find model output.

## Available Output

Case	Short Name	Description	Output Type and Location	Who
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: <b>ACCESS data here:</b> <a href="https://rda.ucar.edu/datasets/ds342.0/">https://rda.ucar.edu/datasets/ds342.0/</a>	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): ( <a href="#">List of species</a> )	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).	<a href="#">Benchmark diagnostic images</a> (2003-2012 compared to FINN-32L) Benchmark output (climatological average)	Rebecca Buchholz
fmerra.206.FCSD.1deg.longrun.chey171005	Longrun_CESM2_beta06	1975-1993, 1.25x0.9 degree simulation, CMIP6, 56 levels, MERRA2 (1% nudging).	Restart Files (yearly), <b>ACCESS data here:</b> NCAR HPSS: /home/buchholz/CESM206_CAMchem_longrun_fmerra	Rebecca Buchholz
fmerra.206.FCSD.1deg.longrun.chey171005.branchbase	Longrun_CESM2_beta06_b	1993-2015, 1.25x0.9 degree simulation, CMIP6, 56 levels, MERRA2 (0.5% nudging).	Restart Files (yearly), <b>ACCESS data here:</b> NCAR HPSS: /home/buchholz/CESM206_CAMchem_longrun_fmerra_branchbase	Rebecca Buchholz
fmerra.2.1003.FCSD.f09.qfedcmip.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).	<a href="#">Benchmark diagnostic images</a> Benchmark output (yearly and 2001-2014 climatological average) Restart Folders (6 monthly) CAM initialization files (monthly) Monthly h0 files ( <b>ACCESS data here:</b> /glade/p/acom/acom-weather/camchem_merra2_cmipqfed_2001-2017/fmerra.2.1003.FCSD.f09.qfedcmip.56L.001/atm/hist) <b>Boundary Conditions + oxidants (6 hr instantaneous): ACCESS data here:</b> <a href="#">Globus</a> , ( <a href="#">List of species</a> )	Rebecca Buchholz

## Planned and Upcoming Runs

Case	Short Name	Description	Output Type and Location	Who
fmerra.2.1003.FCSD.f09.cmip.32L.001	CMIP6-32L	2000-2015, 1.25x0.9 degree simulation with CMIP6 emissions and 32 vertical layers specified dynamics to MERRA2 (1% nudging).		Rebecca Buchholz
	QFED-32L			Forrest Lacey
fmerra.2.1003.FCSD.f09.clmfire.32L.001	CLMFIRE-32L	2000-2015, 1.25x0.9 degree simulation with CLM interactive fire emissions, otherwise CMIP6 emissions and 32 vertical layers specified dynamics to MERRA2 (1% nudging).		Simone Tilmes