

Participant Call November 18

Participants: Roberto San Jose, Stefano Galmarini, Ranjeet Sokhi, Christian Hogrefe, Aura Lupascu, Donna Schwede, Saurabh Kumar, Ummugulsum Alyuz Ozdemir, Jesse Bash, Paul Makar

- Grid intercomparison (Activity 1)
 - Participant updates on postprocessing, data upload, and analysis
 - Summary of current upload status as of November 18 – see table on page 3
 - Ranjeet:
 - CMAQ 2009 upload will begin in ~3weeks; CMAQ 2010 ~4-6 after that.
 - WRF-Chem setup being tested. Will decide next week on how to proceed and provide timeline for WRF-Chem runs
 - Aura: found reason for scrambled fields for some meteorological variables for EU
 - Roberto: finished almost all uploads, will finish by next Monday.
 - Screening plots to check for spatial and seasonal patterns, data ranges
 - Christian continues to download new/updated files as they are uploaded by groups and create screening plots.
 - Receptor processing tool - email sent by Stefano on June 3, 2021:
 - Code and observational data were initially posted in early June - see email sent by Stefano on June 3 and June call minutes. The code and data are available to participants.
 - Christian has started to process concentration, meteorology, and wet deposition fields for NA domain and has uploaded extracted data files for hourly gas phase pollutants (O3, CO, SO2, NO, NO2, NOx, and Noy) and daily (Canada) and weekly (US) wet deposition / precipitation chemistry fields (SO4, NO3, NH4, precipitation) to the JRC sftp site. The data has been transferred to the ENSEMBLE server and resides along the gridded .ens.bz2 files provided by all groups
 - Reminder: data download from ENSEMBLE has changed - no longer user-specific passwords, just "hidden links" to directly download the data
- Point intercomparison (Activity 2)
 - No call since September 28, next call November 23.
 - 3 groups have uploaded results to the EPA GoAnywhere site
 - Jesse will present results at the next call
 - Discussions about potentially revising and resubmitting technical note 2 are still ongoing.
 - Group is also continuing to scope out technical manuscripts to be drafted
 - Discuss potential box model runs driven by grid model output. If proceeding, this would require Roberto, Paul, and Christian to extract a few more meteorological variables from their activity 1 runs.

- Manuscripts for special issue:
 - Ioannis will lead common analysis manuscript, including operational evaluation aspects
 - Stefano and Ioannis will meet soon to scope out analysis plan
 - The intent is to go beyond purely operational evaluation and include analysis of the deposition diagnostics
 - Paul: interested in multi-model critical loads exceedance calculations NA - EU
 - Started download of model data
 - Need to follow-up with groups doing critical load calculations
 - Manuscript will need to refer to evaluation of wet deposition and concentrations
 - Christian: CMAQ-M3DRY and CMAQ-STAGE comparison and analysis
 - Paul: may write GEM-MACH intercomparison
 - Ranjeet: interested in process-based diagnostic analysis
 - Expect several point-model-focused manuscripts (e.g. Olivia, Jesse)
- Next call December 16, 9:00 EST / 15:00 CET

Upload Status November 18, 2021:

	Continent / Year	001 (gases + aerosols)	002 (grid-scale wet and dry dep fluxes)	005 (meteorology)	012 – 122 (grid-scale dry dep diagnostics)	132 -442 (LU-specific dry dep diagnostics)	452 (NH3 bi-directional)	462 (AQMEII4 LU fractions)	462 (native LU fractions)
10700 (EPA CMAQ M3DRY)	NA 2010	x	x	x	x	x	x	x	x
	NA 2016	x	x	x	x	x	x	x	x
10701 (EPA CMAQ STAGE)	NA 2010	x	x	x	x	x	x	x	x
	NA 2016	x	x	x	x	x	x	x	x
10702 (IASS WRF-Chem)*	EU 2009	x	x	x	x	x		x	x
	EU 2010	x	x	x	x	x			
	NA 2010	x	x	x	x	x		x	x
	NA 2016	x	x	x	x	x		x	x
10703 (ECCC GEM-MACH BASE)	NA 2010	x	x	x	x	x	x	x	x
	NA 2016	x	x	x	x	x	x	x	x
10704 (ECCC GEM-MACH ZHANG)	NA 2010	x	x	x	x	x	x	x	x
	NA 2016	x	x	x	x	x	x	x	x
10705 (ECCC GEM-MACH OPS)	NA 2010	x	x	x	x	x		x	x
	NA 2016	x	x	x	x	x		x	x
10706 (TROPOS COSMO-MUSCAT)**	EU 2009	x	x						
	EU 2010	x	x						
10707 (TNO LOTOS-EUROS)	EU 2009	x	x	x		x		x	
	EU 2010	x	x	x		x		x	
10708 (UPM WRF-Chem)	EU 2009	x	x	x	x			x	x
	EU 2010	x	x	x	x	x		x	x
	NA 2016	x	x	x	x	x		x	x
10709 (UCAR WRF-Chem)	NA 2010	x	x	x	x			x	x
	NA 2016	x	x	x	x			x	x
10710 Hertfordshire CMAQ	EU 2009								
	EU2010								
10711 Hertfordshire WRF-Chem	EU2009								
	EU2010								

Browse uploaded files at <https://ensemble.jrc.ec.europa.eu/ensemble/pvt/aqmeii4/> - login required

* A few uploaded gridded fields for EU are scrambled

** Group discovered errors in wildfire emission processing that affected all model outputs. Group plans to rerun in spring 2022 but asks for currently uploaded fields to be excluded from the analysis.