

Participant Call July 14

Participants: Paul Makar, Roberto San Jose, Jon Pleim, Christian Hogrefe, Holly Nowell, Jesse Bash, Aura Lupascu, Ummugulsum Alyuz Özdemir, Chris Holmes

- Grid intercomparison (Activity 1)
 - Participant updates on reruns, postprocessing, data upload, and analysis – also see upload status table on page 3.
 - Aura: a few months ago, reprocessed and re-uploaded selected fields. The wet deposition fields for some runs still have unexplainable features but will not be updated any further. Use wet deposition fields from these simulations (model code 10702) with caution, or potentially don't use them at all.
 - Paul: started evaluation of GEM-MACH runs
 - Holly: GEOS-Chem runs for NA2010 and NA2016 both started. NA2010 results were checked for two months and looked good. Expect 1-1.5 months to finish NA2010 and 2-2.5 months to finish NA2016. Working on post-processing code now to prepare for when the runs are done.
 - Roberto: recalculated resistances for NA2016 case with revised MIN_POS values, uploaded results to sftp server. Christian will check, if o.k., Roberto's group will reprocess EU2009 and EU2010. Finished NA2010 simulation, started post-processing, expect to finish and upload data by October.
 - Ummugulsum: Completed EU2010 rerun, EU2009 is still running. Encountering some issues with post-processing, will set up meeting with Christian to troubleshoot.
 - Richard (update provided by email): working on identifying issues with some LU-specific diagnostics
 - No recent work on common analysis by Iannis, waiting for the availability of output from all simulations
 - Uploaded data is still available for direct download from <https://ensemble.jrc.ec.europa.eu/ensemble/pvt/aqmeii4/>
- Point intercomparison (Activity 2)
 - Revised input datasets for all sites except Auchencorth Moss and Easter Bush were distributed to modelers on May 24. Data for these two remaining sites were distributed on June 17.
 - Modelers are asked to upload their results by **Wednesday, July 20** and keep Olivia informed about progress and timelines
 - Paul: performed modeling with revised data (and several code bug fixes), expect to upload before July 20.
 - Roberto: trying to meet July 20 deadline.
 - Jesse: uploaded data for all STAGE runs
 - Jon: haven't started runs yet, will do so soon
 - Chris: haven't started runs yet, will do so soon

- Olivia, Donna, Stefano and Christian participated in a call with Leiming Zhang and Lisa Emberson on the interaction of the AQMEII4 and TOAR-II deposition workgroup efforts. The TOAR-II deposition workgroup will likely form a steering committee and invite 1-2 AQMEII4 representatives to the group (for the duration of AQMEII4, which likely will end before TOAR-II)
- Special issue
 - Stefano reached out to Copernicus and Joshua to extend the special issue submission deadline to August 2023. The extension was granted and has been implemented on the ACP website.
- Next call August 11, 9:00 EDT / 15:00 CEST

Upload Status July 14, 2022.

	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)	472 (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	*	*						
	EU 2010	*	*						
10707 (TNO LOTOS-EUROS)	EU 2009	x	x	x	x	x		x	
	EU 2010	x	x	x	x	x		x	
10708 (UPM WRF-Chem)	EU 2009	x	x	x	x	x		x	x
	EU 2010	x	x	x	x	x		x	x
	NA2010								
	NA 2016	x	x	x	x	x		x	x
10709 (UCAR WRF-Chem)	NA 2010	x	x	x	x	x		x	x
	NA 2016	x	x	x	x	x		x	x
10710 Hertfordshire CMAQ	EU 2009								
	EU2010								
10711 Hertfordshire WRF-Chem	EU2009								
	EU2010								
10712 FSU GeosChem	NA 2010								
	NA 2016								

Notes:

- 10702 (IASS WRF-Chem) occasional spikes and overall very low values of SO₄, NO₃, and NH₄ wet deposition fields. Likely will need to exclude these wet deposition fields from the common analysis.
- 10706 (TROPOS COSMO-MUSCAT) – uploaded partial fields are bad, no recent updates on potential new model simulations. Drop model from analysis
- 10707 (TNO LOTOS EUROS) questionable values for some LU-specific deposition diagnostics, Richard is still investigating
- 10708 (UPM WRF-Chem)
 - reprocessing diagnostic resistances for NA2016, EU2009, and EU2010, expect to upload revised files by middle of July
 - Finished simulations for NA2010 (not originally planned). Expect to upload results by end of October
- 10710 (Hertfordshire CMAQ STAGE) finished EU2010 reruns and running EU2009. Troubleshooting issues with post-processing.
- 10711 (Hertfordshire WRF-Chem) runs not initiated and no longer expected.
- 10712 (FSU GEOS-Chem) – Running both NA2010 and NA2016. Expect that it'll be several months before data will be uploaded, i.e. August - September

Until further notice: browse and download uploaded files and receptor extractions at <https://ensemble.jrc.ec.europa.eu/ensemble/pvt/aqmeii4/>
- no login required