

# Participant Call February 10, 2022

Participants: Richard Kranenburg, Donna Schwede, Jesse Bash, Christian Hogrefe, Rohit Mathur, Chris Holmes, Holly Nowell, Saurabh Kumar, Ummugulsum Alyuz Ozdemir, Olivia Clifton, Jon Pleim, Colleen Baublitz

## Grid intercomparison (Activity 1)

- Participant updates on postprocessing, data upload, and analysis
  - Ummugulsum and Saurabh: 2010 CMAQ run ongoing. 2009 extractions are being extracted and regridded. Enform code running will be next, then will do a test upload for some variables. WRF/Chem issues continue, no updates.
  - Paul: Reruns due to insufficient spin-up issue have started.
  - Richard: no updates since last call, all expected fields have been uploaded.
- ENSEMBLE server transitioning to private access only –all groups were encouraged to download what they need ASAP. Going forward, the sftp server will be used for data exchange - both upload and download. The ENSEMBLE server still will be used to store the data (the sftp server cannot hold all the data at once) and Stefano has access, so Stefano can always temporarily move files from the ENSEMBLE server to the sftp server for download.
- Plots of diagnostic variables:
  - Christian prepared and showed examples of the following plots during the call
    - Grid-scale Vd and effective conductance median diurnal cycles for January and July for all 12 pollutants, averaged over all non-water grid cells (data exists for these median diurnal cycles for all months)
    - Selected grid-scale inverted components resistance median diurnal cycles for January and July for all 12 pollutants, averaged over all non-water grid cells (data exists for these median diurnal cycles for all months)
    - Grid-scale effective flux monthly totals for all 12 pollutants, summed over all non-water grid cells
    - LU-specific Vd and effective conductance median diurnal cycles for January and July for all 12 pollutants, averaged over all non-water grid cells (data exists for these median diurnal cycles for all months)
    - Grid-scale Vd and effective conductance median diurnal cycles for January and July for all 12 pollutants extracted at the Borden Forest and Harvard Forest sites
    - Land-use fractions extracted at the Borden Forest and Harvard Forest sites
  - Not yet done - comparison of gridded land use fractions
  - Plots will be shared in the near future. Some apparent issues will be flagged in that email, but all groups will be asked to carefully review these plots to decide whether some diagnostic fields might have to be reprocessed.
- Plans for collective analyses (accounting for GEM-MACH reruns) and individual contributions:

- Stefano talked to Iannis who will lead the collective analysis/evaluation at receptor locations. He will have more time to work on this effort starting next week.

### **Point intercomparison (Activity 2)**

- Introduction/Overview paper
  - Olivia waiting for new data for the ECCC Zhang model run and several model descriptions
- Calls with observationalists to discuss initial results and answer site-specific questions have been scheduled for February 17 (Easter Bush, Auchencorth Moss, Borden, Bugacpuszta) and February 24 (remaining sites).

Next call March 10, 9:00 EST / 15:00 CET