

Participant Call March 10, 2022

Participants: Christian Hogrefe, Stefano Galmarini, Paul Makar, Holly Nowell, Ummugulsum Alyuz, Jesse Bash, Rohit Mathur, Chris Holmes, Colleen Baublitz, Olivia Clifton, Jon Pleim, Saurabh Kumar

- Grid intercomparison (Activity 1)
 - Participant updates on postprocessing, data upload, and analysis
 - Ummugulsum: post-processing WRF/CMAQ 2009 outputs and 2010 meteorology/emissions (2010 CMAQ runs are still ongoing), will share test files with Christian before starting bulk processing and upload; No updates on setup of WRF/Chem, runs have not started.
 - Paul: after fixing the model spin-up set up issue affecting precipitation in the earlier runs, encountered a bug in the meteorological model and had to restart the 2016 base case simulation. Hope to finish base case 2016 by the end of next week, then initiate runs for 2010 and other model configurations
 - Reminder to all groups: ENSEMBLE server transitioning to private access only – encourage all groups to download what they 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 were shared with participants February 11, feedback was requested:
 - Land-use fractions for GEM-MACH are time variant due to the interpretation of the “permanent snow/ice” category as transient snow cover in the GEM-MACH modeling system. This will have to be accounted for when comparing land use across models
 - Christian will send a reminder to modeling groups not on the call to please provide feedback on these plots, specifically on whether the results shown for their model match their expectations
 - Preliminary collective analyses:
 - Iannis Kioutsioukis prepared monthly time series, box plots, and rank histograms using the receptor extractions generated in December. These plots will be shared with participants and feedback will be requested.
 - Paul had discussions with collaborators on starting the critical load intercomparison analysis
- Point intercomparison (Activity 2)
 - Olivia provide a summary of the calls with observationalists that took place on February 17 (Easter Bush, Auchencorth Moss, Borden, Bugacpuszta) and February 24 (Ispra, Hyytiala,

Ramat Hanadiv, Harvard Forest). The calls were recorded, Donna took notes, and action items were determined in a follow-up call between Olivia and Donna. There will be some updates and additions to the data sets as a result of these discussions with observationalists.

- During the next monthly call, there will be a discussion on harmonizing some key assumptions (soil moisture, leaf wetness, etc.) across groups, then everyone will be asked to rerun their model for all sites.
 - The observed Auchencorth Moss seasonal cycle cannot be readily explained, so the group will either ask for data from more years or drop the site.
 - There is a need to address the potential issue of ozone titration / chemical interference affecting the winter flux measurements at Ispra and maybe Ramat - this will be addressed in future papers, not the overview paper.
 - The "base" model runs for the overview paper should not apply "tuning", e.g. adjust representation of LAI for different sites, this should be done in subsequent analyses.
 - The introduction/overview paper will use the reruns expected from all models
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- Next call April 7, 9:00 EDST / 15:00 CEST