

Participant Call March 11, 2021

Participants: Stefano Galmarini, Paul Makar, Christian Hogrefe, Richard Kranenburg, Rohit Mathur, Olivia Clifton, Jesse Bash, Roberto San Jose, Aura Lupascu, Jon Pleim, Lisa Emberson, Chris Holmes

- Grid intercomparison (Activity 1)
 - Participant updates on postprocessing and data upload
 - Paul: all uploads done
 - Richard: uploaded all deposition and concentrations, working on resistances and conductances, hopes to finish in the coming two weeks
 - Roberto: Had server access problems that were solved. How to check data that was uploaded? Christian: will provide information on how gridded data is shared and how lists of uploaded files can be viewed and downloaded in the minutes → see below. Roberto: BSC application for CPU resources for 4th simulation (NA 2010) was not approved, next round of proposal reviews is in May.
 - Aura: produced files for TSDs starting with 132 (LU specific deposition diagnostics), mistakenly uploaded files from "deform" instead of "enform", will redo. Now working on concentrations, emissions, etc. Cannot change password, Stefano will check into this (the common password does work).
 - Christian: updates from other groups: Alma is postprocessing 2016 NA run, running 2010 NA now. Ranjeet Sokhi's group is about to start CMAQ runs. Ralf Wolke will provide an update on data upload status next week. No recent updates from Johannes and Marta.
 - Christian: tested download of gridded files, experienced slow download speeds, needed to use parallel wget download with perl script developed by Roberto Bianconi to achieve reasonable download speeds (~1 day per year for one model run and one domain using four parallel downloads)
 - New page on github page with overview and example download scripts:
<https://github.com/AQMEII4/Activity-1-AQMEII-style-runs/blob/master/DataSharing/README.md>
 - Stefano: Should we set a deadline for data uploads so that the common analysis can start? Goal: Submit collective analysis manuscripts to the special issue before submitting individual contributions. Proposal: have all data for collective analysis available by the beginning of June.
- Preparation of receptor case TSDs:
 - Call held with Roberto, Stefano, Paul, Christian. Roberto will develop a new processing tool suite consisting of two modules to pair data from already generated gridded ensemble format files with observations at a list of stations. This module will be written in perl. Observational data will be distributed along with the code. Testing of a prototype is expected to start within the next month.
- Point intercomparison (Activity 2)
 - Lisa: include photosynthesis-based dose model in the analysis?

- Chris: yes, this would be of interest for the point intercomparison analysis.
- Olivia: data exists for forest and grassland sites
- Olivia: Sam, Olivia, and Chris worked on determining the best approach for handling dataflags and outliers for the eight sites used in the analysis, this will be documented in the technical note for this activity. Olivia showed example plots of seasonal and diel cycles for ozone deposition velocities.
- Jesse: were the data updated? Olivia: Not so far, it's a line of code that applies the handling of data flags and outliers which could be added to the fortran wrapper. Will think about the best way to handle this (i.e. revise datasets or handle at processing stage)
- Should activity 2 include an aerosol deposition component? Chris will follow up with Paul, Olivia and Donna.
- Last call was held on February 16, notes are posted on github
- Technical notes
 - Work is still progressing on both technical notes for the grid and point intercomparisons with the goal of submitting the note for Activity 1 in March.
 - Stefano reached out to the SI editors - Joshua Fu and Alex Guenther - for guidance on submission. Neither "technical note" nor "overview paper" as defined by ACP is a perfect fit. Stefano shared the current activity 1 TN draft with Alex and Joshua to get their final guidance.
 - Activity 1 technical note. EPA internal reviewer comments reviewed and addressed. ECCC internal review comments expected soon. Paul will rework diagrams for consistency and clarity.
 - Point intercomparison / Activity 2 technical note: Chris: a mature draft exists, figures shown by Olivia will be added.
- Upcoming meetings:
 - The 38th International Technical Meeting on Air Pollution Modelling and its Application (ITM) is scheduled to take place 18 – 22 October 2021 in Barcelona, Spain. Abstracts deadline extended to April 15, 2021.
 - MAC-MAQ September 15-17, UC Davis..
- Next call April 8, 9:00 EDST / 15:00 CEST