

Participant Call October 10

Participants: Paul Makar, Metin Baykara, Richard Kranenburg, Aura Lupascu, Chris Holmes, Sam Silva, Roberto San Jose, Christian Hogrefe, Jon Pleim, Rohit Mathur, Alper Unal

1. Paul and Christian provided a recap of the FAQ document developed by Paul following the Hamburg meeting. During that recap, two updates regarding the ECMWF CAMS fields were shared with participants:
 - a. Boundary conditions for spin-up period: ECMWF will provide CAMS global fields to prepare boundary conditions for the spin-up period, i.e. the month of December preceding the years to be simulated (December 2008 for EU and December 2009 and 2015 for NA)
 - b. Incomplete CAMS files for two months in 2016 for NA: ECMWF has regenerated the AER_* files for the NA domain for March and October 2016 that were missing a few time steps at the end of the month. The updated files are already available on the ECMWF ftp site. They will also be posted to the CMAS data warehouse site once the CAMS fields for the spin-up period also become available

There were no questions or updates regarding FAQs 2-4. The coordination of input processing, model updating, and postprocessing efforts between groups using the same model was encouraged.

2. A question was raised whether models that have the capability to calculate in-line lightning emissions can use those emissions instead of the GEIA-based emissions distributed to all participants. The answer was that groups are strongly encouraged to use the common emission dataset. The use of model calculated lightning emissions could be an interesting sensitivity study some groups may wish to perform. For the vertical allocation of the GEIA emissions, participants were advised to use the “midlatitude” reference profile contained in the “README_Lightning” document posted along with the emissions at https://drive.google.com/drive/folders/1R83HYZgn6qd0L01UN_u5nHeQ5swbMCYj. The profile contains fractional allocations in 1 km increments, it is recommended to uniformly split emissions across multiple model layers that may occur in a given 1 km increment and aggregate emissions if a given vertical layer is thicker than 1 km. Users are also encouraged to share code for the preparation of model-ready lightning emission files between groups using the same model. This question and answer will be added to the FAQ document.
3. Regarding the temporal allocation of EU emissions and other potential issues related to EU anthropogenic emissions processing, Richard Kranenburg will work with his colleagues at TNO to post SNAP-level reference temporal profiles to the same TNO ftp site where the emissions are stored. Richard and his TNO colleagues will also set up a call or group email for EU modeling groups to resolve issues related to emissions processing with the goal to harmonize the processing as much as possible. Christian will send a list of EU groups to Richard.
4. Paul and Christian also provided a recap of the tentative timeline for the activity. No questions were asked.

5. Stefano, Christian and Paul will approach ACP to learn more about the logistics of a potential AQMEII4 ACP special issue (process to request a special issue, required time to request and open a special issue, required number of guest editors, time the special issue can remain open, etc.)
6. Next calls: Christian will send out a Doodle poll to schedule the November and December calls.