

Participant Call December 3, 2019

Participants: Paul Makar, Donna Schwede, Christian Hogrefe, Aura Lupascu, Ana Ascenso, Richard Kranenburg, Chris Holmes, Ralf Wolke, Rohit Mathur, Jon Pleim

- EU emission temporal and height profile
 - Obtained from TNO
 - Shared with participants - Aura, Ralf, Ana: yes
- ECMWF CAMS fields for larger NA domain requested by ECCC, new files are being generated
 - Only needed by ECCC - yes
 - Will not be downloaded by EPA and copied to CMAS data warehouse? - confirmed
 - Any other problems with CAMS?
 - Aura did not start yet - looking for approaches to map aerosols from CAMS to WRF-Chem (sectional approach)
 - Paul can share approach for mapping CAMS to GEM-MACH sectional aerosol representation
 - Ana's group also has not done this step yet
 - Ralf's group has completed this step
- Ralf: Implementation of lightning emissions is a problem for COSMO-MUSCAT - does not currently allow emissions in upper layers. Would require modifications to code, may not finish before Christmas when the group would like to start their simulations.
 - Christian could share monthly (rather than hourly) gridded files and ASCII file with diurnal profiles
 - Ralf will continue to try to implement these emissions in COSMO-MUSCAT
- CMAQ coordination (U.S. EPA, Helmholtz, Istanbul Technical University, University of Hertfordshire) to continue
 - CAMS boundary condition processing - identified inconsistency in third moment calculations between existing utility code and CMAQ, waiting for model developers for guidance on resolving them
 - Modification of STAGE code to generate requested variables and aggregate land use inline (expected end of year or early next year)
 - Development of M3DRY "MOSAIC" post-processing utility to generate requested variables by land use type offline
- GEM-MACH updates - see slides
 - <https://github.com/AQMEII4/Activity-1-AQMEII-style-runs/blob/master/OverarchingDocuments/Activity1.md#appendix-3>
 - Share similar plots from other models / groups? GitHub? Done – see <https://github.com/AQMEII4/Activity-1-AQMEII-style-runs/blob/master/OverarchingDocuments/Activity1.md#appendix-3>
 - Expect to perform short 1-month test runs for model evaluation shortly
 - Start full runs early next year
- EGU conference May 2020: session on acid deposition (M. Kanakidou) - participation from AQMEII groups? Abstracts are due in January (?)
- Box model intercomparison update (Donna)
 - Data providers confirmed:
 - Ramat Hanadiv (Israel) (shrub)

- Ispra (Italy) (mediterranean forest)
- Hyytiälä (Finland) (boreal coniferous forest)
- Grignon (France) (agriculture)
- Borden Forest (Canada) (mixed deciduous forest)
- Also requested:
 - Bugacpuszta (Hungary) (grassland)
 - Amazon Tall Tower Observatory (ATTO) (Brazil) (tropical forest)
 - Harvard Forest (USA) (temperate deciduous forest)
 - Auchencorth Moss (Scotland) (peatland)
- Developed data format (csv) and list of requested variables when contacting observation groups
- Data sharing via EPA GoAnywhere site
- Develop driver to provide model-ready obs data data to box models
- Hope to be ready for modeling by spring