AQMEII4 Activity 3 Participant Call July 28, 2020

Attendees: Jesse Bash, Roberto San Jose, Olivia Clifton, Christian Hogrefe, Jon Pleim, Paul Makar, Donna Schwede

- Update on data files
  - All changes to data sets are logged
    - /AQMEII4/Flux Datasets/Flux_Dataset_Change_Log.txt file
    - Miscellaneous corrections and additions (see below)
    - Corrected issues with the data that have been reported
    - Added some additional data to files
    - File formats changed to remove date/time strings so we don't need 2 versions of the files
    - Headers added to all files so all have a 2 line header now
  - Old versions of files have been left on the data site for now; please check dates
    - Older versions will be deleted next week
  - Still waiting on some data updates
- Fortran script changes for data updates
  - /AQMEII4/Fortran Wrapper and Script
- Updates on model runs (table below)
- Additional Issues – none
- Timeline
  - Not under a strict timeline
- Special issue
  - ACP has approved the AQMEII-4 special issue; not open yet; will be open for two years
  - Be sure to select the AQMEII-4 special issue when submitting
  - Once paper is accepted; it is published online
  - A technical note on the background will be developed soon and submitted so that subsequent papers can reference it for terms and procedures

Updates on Model runs

Name	Organization	Model	Status
Jesse Bash	US EPA	CMAQ-STAGE	Rerunning with updated data; helpful to have latent heat flux; flux to the soil is overpredicted with most sites; Auchencorth Moss is a very organic site and model parameters are not well set up for this; post-processors to share - can put on repo; results next meeting

Paul Makar	ECCC	GEM-MACH - Robichaud	No progress this month.
Paul Makar	ECCC	GEM-MACH - Zhang	No progress this month.
Jon Pleim	US EPA	CMAQ-M3DRY	No progress this month
Jon Pleim	US EPA	Photosynthesis model	No progress this month
Roberto San Jose	Tech Univ of Madrid	WRF/Chem - Wesely (basically)	- We have extracted an independent FORTRAN deposition Wesely model code from WRF/chem model. - We are working with the data from the Borden Forest case (Canada) by executing the R deposition model which is found in the repository and also our Wesely-WRF/chem model to compare both. This week we will have the comparison plots.

Data changes since the last call

7/16/2020

- Auchencorth Moss
    - data/time string deleted to make Fortran read easier
    - 2nd header line added with units
- Borden Forest
    - NA values in file from 7/1 were replaced with -999.99
    - 2nd header line added with units
- Bugacpuszta
    - removed time string that was in hh:mm format since these values are included as separate values
    - where no value was given for a flag, a 0 was entered for
- Harvard Forest
    - added water vapor flux to the data file
    - 2nd header line added with units
    - "filled" leaf wetness values were added where the leaf is wet if the RH > 85% (similar to other sites)
- Ramat Hanadiv
    - "filled" leaf wetness values were added where the leaf is wet if the RH > 85% (similar to other sites)

7/15/2020

- Ramat Hanadiv
    - latent heat flux values and additional soil temperature values have been added

7/1/2020

- Borden Forest
    - fixed date/time issue

6/29/2020

- Easter Bush
    - corrected some date-time issues

6/27/2020

- Auchencorth Moss
    - corrected date-time issues
    - replaced blank cells with -999.99

6/26/2020

- Borden Forest
    - added latent heat flux