

AQMEII-4 Activity 3 Participant Call – May 25, 2021

Attendees: Christian, Sam, Jesse, Lisa, Johannes, Olivia, Chris, Jon, Donna

1. Technical note
 - a. Point intercomparison
 - i. In EPA review (1 review received; other expected by 5/28)
 - ii. PNNL - can go ahead and submit
 - b. Grid modeling - in journal review
2. Paul presented an overview on AQMEII-4 at the Spring NADP Total Deposition Science Committee meeting
3. Data issues
 - a. The files have been updated to properly represent the outlier filtering, and metadata for units that were previously removed were added back in, as requested.
 - b. The ozone deposition velocities for Ramat Hanadiv are also updated. After Sam found a strange bimodal distribution of the data, we alerted the PIs and they found a processing error in the creation of their file. Now fixed.
 - c. Current data sets
 - Auchencorth Moss: halfhourly_auchencorth_moss_aqmeii_05242021.csv
 - Borden Forest (ozone): Borden_Data_AQMEII4_2021-05-24.csv
 - Borden Forest (so2): Borden_Data_AQMEII4_2021-05-24_so2_filter.csv
 - Bugac: Bugacpuszta-2021-05-24.csv
 - Easter Bush: halfhourly_easter_bush_aqmeii_05242021.csv
 - Harvard Forest: hourly_harvard_forest_aqmeii_05242021.csv
 - Hyytiala: FI-Hyy_O3flux_2002_2012_05242021.csv
 - Ispra: IT-ISP_2012-2015_AQMEII4_Data_2021-05-24.csv
 - Ramat Hanadiv: New_RMNTNDV_data_2021-05-24.csv
 - d. Data discussion
 - i. Ispra file seems to be corrupted
 - ii. AQMEII flag
 1. Values -999, 1; use only values that have a 1
 - iii. dv was deleted from previous versions as it was a working column and not in original data
 - iv. Ramat Hanadiv - are the units correct? Vd's seem high for them to be in m/s (Johannes); Olivia will check processing on this data set
4. Wrapper update - this week hopefully
5. Modeling updates - none
6. Output from regional models to drive point models
 - a. e.g. Use WRF data for sites in place of onsite met
 - i. Modeled met will be for AQMEII years and not the same as onsite data
 - b. Lacking
 - i. CO2 conc
 - c. How to specify surface properties?
 - i. e.g. Canopy height - grid model may have multiple land use types in the grid cell; what should be used
 - ii. Option could be use the meteorology from the grid and not the surface characteristics

- d. Christian uploaded an example ENSEMBLE extraction to the GoAnywhere site using an extraction tool for the AQMEII data; other grid modelers could use the same tool; script would need to be written to make the data ready for the wrapper or box models
 - i. Would be helpful to define the AQMEII land use types for each location for the grid modelers
- e. Could also ask for O₃ concentration in the lowest model layer (and layer thickness) to be able to look at fluxes - would have this at hourly interval; effective conductances would be at the monthly scale in ENSEMBLE