AQMEII-4 Activity 3 Participant Call – June 22, 2021

Attendees: Jon, Jesse, Bin, Chris, Olivia, Christian, Paul, Sam

- Technical Note update
  - Activity 1
    - https://acp.copernicus.org/preprints/acp-2021-313/#discussion
    - 2 reviewer comments posted
  - Activity 2/3
    - Still working on reviewer assignments
- Data/wrapper updates
  - Data files are close to being ready for re-posting
    - LAI - single sided vs double sided - which do models expect?
      - Some data sets are single-sided and some are double-sided
        - Single-sided: Hyytiala, Ispra, Bugac, Ramat
        - Double-sided: Auchencorth and Easter
        - Unknown: Borden and Harvard (Olivia thinks single)
      - Modify data files to be consistent
      - Models expect double sided (at least M3DRY and STAGE)
    - Precip - rate vs amount for the period
      - We asked for rate - would need to know time step of data to convert to amount - what do modelers need?
      - Make sure all are in rate
    - RH - should I convert all to fraction before posting - all should be fraction
  - Any other issues?
    - Older versions of the data files will be archived
    - Donna, Sam, Olivia will create one program that takes the data from the observationalists to final version for modeling
- Modeling updates
  - Jesse: AQMEII flag is helpful but there are instances where there is still bad data (bc not related to vd or flux) - so some models may be run for hours that others may not be run for depending on model needs
  - Model output should be a continuous time series with -999.99 for an hour that was not modeled.
  - Be sure to check the site-specific QA flags when running the model
- Publication plans
  - Individual modelers can publish their evaluation
  - Intercomparison study - who will lead? Chris Holmes hopefully
  - Timeline
    - Sept 1, 2021 for model runs to be done
      - M3DRY
      - STAGE
      - WRF-Chem - Wesely

- GEOS-Chem
- Zhang
- Robichaud
- CIFS deposition scheme
- EMEP
- STAGE + Alapaty Ra
- Driving point models with grid data
  - Brought proposal to Activity 1 participants
  - Updating TSD is the preferred method to obtaining needed data from grid models
    - Some data may not have been archived and may need to be filled with obs data
    - Develop a script to convert data and merge data as needed to create a file for model input
- Sensitivity tests
  - Still need a wrapper for this - start with this for next meeting