# AQMEII-4 Activity 3 Participant Call – August 23, 2021

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

- Activity 1 update (Christian)
    - Response to journal review of technical note is underway
    - Most groups have submitted their data
- Point intercomparison technical note
    - September 15 is the target for modelers to submit their model results; see copy of Olivia's email below for details on format, etc
    - Reviewers rejected the original version as it didn't contain any analyses; the extent of the analyses that need to be added is uncertain
    - Chris - we could show similar summary analyses for models as was included for the observations
    - Olivia - that could be more work than it seems as the models need to be documented
    - The analysis of effective conductances is going to be interesting - do we include that in the technical note or as a standalone paper? Could include some examples of effective conductance analyses.
    - What is we didn't document the models in the TN and just cited references?
    - Could limit the analysis for the TN to just the models that are described in TN 1 as they are documented in the supplemental.
    - Does TN2 duplicate the Hardacre et al paper? Somewhat, but the TN outlines the method to further investigate the differences.
    - Donna will set up a call with Joshua Fu to discuss our planned response and the path forward
- Robichaud scheme early results (Paul)
- Other
    - There is some ambiguity in the data and modelers will adapt the data to their models. This will contribute to model differences and needs to be documented.

**Copy of email for modelers on data submission**

*Hi everyone!*

*Modelers, **please submit your time series of your simulated ozone deposition velocities and effective conductances for all the sites by Sept 15**. Please load the model datasets to the folder 'Box Model Results' on the Go Anywhere site (you all should have access to this; if not, contact Donna). We need to incorporate the simulated values into the Technical Note for the single-point activity in order to address reviewer concerns (you will be added as co-authors if you contribute!). Please use the forcing data files dated 8/10/2021 to drive your single point models.*

*For directions on how to calculate the effective conductances (which should sum to the deposition velocity), please see Stefano's Technical Note in ACPD (https://doi.org/10.5194/acp-2021-313).*

*The format of the file with simulated values should be a CSV. Please include all the variables in Table 4 of Stefano's Technical Note (excluding the post-processing flux fields) in your file, in the order they are in the table. Conductances should be in cm/s and resistances should be in s/cm.* ***Model output files should be continuous time series*** *with missing values for half hours (hours for Harvard) where the forcing data is insufficient to calculate the deposition. Missing values should be denoted as -999.99. The time period covered should be exactly the same as the forcing files. Please include time as the first variables in your file (year — YYYY, month — MM, day — DD, hour – HH, seconds — SS). The title of your file should be SITE_MODEL.csv with MODEL denoting whatever name you chose for your model.*

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*As always, if you see strange values in the forcing data, please let us know. For now, just calculate the simulated deposition velocities and effective conductances for every instance that there is non-missing driving data (again, model output files should be continuous time series with missing values denoted as -999.99). We can always filter the simulated values corresponding to weird forcing data out later on.*

*We also need full descriptions of your parameterizations in the Technical Note for this activity (please also load to the folder 'Box Model Code' on GoAnywhere with the site MODEL_description where model denotes the name of your model). In a Microsoft Word document, please include equations and a written description of the resistance network (see Galmarini et al. ACPD for a definition) and each resistance, details on what you do for wet, dry, snow-covered, cold surfaces, etcs. We also need a list of all the parameters defined for a given site (where/how the parameters are used should also be clear from your description/equations). At this point we just need to know what happens for ozone.*

*Please let me know if you have any questions.*
*Thanks,*
*Olivia*