Activity 2 Participant Call January 3, 2023

Participants: Olivia Clifton, Christian Hogrefe, Chris Holmes, Susie Sun, Laurens Ganzeveld, Paul Makar, Jon Pleim, Limei Ran

Olivia will have talk on January 9 at the AMS conference. The talk will be capped at 11 minutes, with 2 additional minutes for Q&A and 2 minutes for transition. The link to the three sessions on "Air-Surface Exchange, Atmospheric Deposition, and Ecosystem Impact" can be found here:

- https://ams.confex.com/ams/103ANNUAL/meetingapp.cgi/Session/61722
- https://ams.confex.com/ams/103ANNUAL/meetingapp.cgi/Session/63522
- https://ams.confex.com/ams/103ANNUAL/meetingapp.cgi/Session/63523

Olivia was working on finalizing the talk and did not provide a dry run during the call, but shared some figures she plans on presenting.

Call participants discussed suggestions on what points to focus on given the very limited amount of time available for presentation.

Olivia shared that her abstract on the point intercomparison submitted to the International Technical Meeting on Air Pollution Modeling and its Application (ITM) in May was accepted as a keynote presentation with a 40 minute time slot, so this will be an opportunity to provide much more detailed results.

Olivia also shared that she has started to work with a Ph.D. student from the University of Wisconsin Madison who is interested in ozone dry deposition modeling for the third chapter of her PhD. The student's name is Anam Khan and she is doing growth chamber experiments testing ozone impacts on plants and measuring ozone fluxes in the field. She is very excited at the possibility of analyzing the AQMEII Activity 2 data, and expanding on the analysis presented in Olivia's Activity 2 introduction manuscript. She's particularly interested in the stomatal uptake aspect, exploring differences among the models and thinking about how they can better represent uptake through this pathway. She is also interested in joining our calls and learning from the AQ community, as she is an ecologist.

To avoid potential overlap with future analyses other Activity 2 participants may be planning, Olivia and the student will prepare an outline of their plans and present it at the February call.

While discussing the work to be presented at AMS and thinking about future work, the group also noted that it would be desirable if similar analyses could be performed for other emerging flux data sets in the Amazon region and Asia. These flux data sets may not yet be available, but Laurens shared a link to the Amazon project (ATTO, https://www.attoproject.org/) and Olivia shared a link to a manuscript describing the flux data set in Asia (https://www.sciencedirect.com/science/article/pii/S0048969721034094)

Next call Tuesday February 7, 2023.