

Ozone dry deposition through plant stomata: Multi-model comparison with flux observations and the role of water stress as part of AQMEII4 Activity 2

Khan et al., EGU sphere [preprint], <https://doi.org/10.5194/egusphere-2024-3038>

General comments

I reviewed the original manuscript (Reviewer 2). The author response and the changes made to the manuscript have addressed the points raised in my review. I therefore recommend that the revised manuscript can be accepted as is.

Specific Comments

1. Dry deposition schemes: Additional information has been provided on the deposition schemes.
2. Comparison to observations and/or observation-derived parameters: The authors have clarified that ozone flux measurements are needed and this limits the number of sites that can be used.
4. Performance of deposition schemes and O₃ vegetation damage: While the authors do not make any specific recommendations about the relative merits or performance of the different types of deposition schemes (i.e. NP:SM/VPD/RH, J:SM/VPD/RH, J: VPD and J:NoSM/VPD/RH), they have added text on this point. The authors identify the need to account for soil moisture stress, at least, to improve the performance of these ozone deposition schemes.

The authors have amended the text on O₃ vegetation damage and added relevant references.