Atmospheric Measurement Techniques Discussions

Atmos. Meas. Tech. Discuss., author comment AC1
https://doi.org/10.5194/amt-2021-108-AC1, 2021

Reply on RC1

Jack M. Choczynski et al.

Author comment on "A dual-droplet approach for measuring the hygroscopicity of aqueous aerosol" by Jack M. Choczynski et al., Atmos. Meas. Tech. Discuss., https://doi.org/10.5194/amt-2021-108-AC1, 2021

We thank the reviewer for their comments and constructive suggestions. We will address these fully in the revision.

In response to the reviewer's comment regarding the temperature of the chamber - we set the temperature of the water bath and the chamber to be slightly lower than ambient (1-2 K). This is a technical detail, and we have found this prevents accumulation of water droplets in the lines that can impact measurements if they are swept into the chamber. In the supply lines at ambient temperature, the RH drops thus avoiding condensation. When enterering the chamber, the RH increases again to what the leviated particles experience.