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Comment on acp-2020-1324

Robin Wollesen de Jonge et al.

Author comment on "Secondary aerosol formation from dimethyl sulfide – improved mechanistic understanding based on smog chamber experiments and modelling" by Robin Wollesen de Jonge et al., Atmos. Chem. Phys. Discuss.,
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We are glad to announce that the accompanying paper Rosati et al. was recently published in ACS Space and Earth Chemistry (doi: 10.1021/acsearthspacechem.0c00333). In relation to Rosati et al. 2021 there are a few aspects, which we would like to clarify.

- Wollesen de Jonge et al. (2021) also includes additional experimental datasets to those published in Rosati et al. (2021) from experiments performed under humid conditions. This will be made clear in the revised version of the manuscript.
- Some ADCHAM model results were already presented in Rosati et al. (2021) (dry conditions). After submission of the Rosati et al. (2021) manuscript the ADCHAM model was further modified based on an expanded experimental dataset and the model used in Wollesen de Jonge et al. is slightly modified compared to the model used in Rosati et al. (2021). This means that some figures in Wollesen de Jonge et al. (2021) are similar in format to figures in Rosati et al. (2021) but with different model results and AMS mass concentrations corrected using SMPS data. This will be stated explicitly in the revised manuscript and we aim to add a short section to Wollesen de Jonge et al. (2021) which explains the differences (mainly chamber wall effects) between the two model setups.