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Atmospheric Chemistry and Physics Discussions

Interactive comment on "Prompt deliquescence and efflorescence of aerosol nanoparticles" *by* G. Biskos et al.

G. Biskos et al.

Received and published: 29 September 2006

Below is our response to Cubison's comment.

Further to comment 4) of Hämeri and Laaksonen, it is noted that the University of Manchester constructed an HTDMA with fast RH response which was described by Cubison et al (2005); the modified HTDMA instrument included automatic valves which could switch out the sheath humidification system after a large step change in RH, such that an equilibrium could be achieved between the aerosol and sheath (ie, DMA) RH values. Would the authors please consider referencing this study and following the suggestion in the previous comment of this thread that a discussion of the possible effects of any RH discrepancy be included in the revised paper. A modified hygroscopic tandem DMA and a data retrieval method based on optimal estimation. M.J.Cubison, M.Gysel and H.Coe,

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Interactive Discussion
Discussion Paper

J Aero.Sci., 36(7), p846-865 (2005)

We thank the Dr. Cubison for bringing to our attention his recent work. We have included the reference in the updated manuscript.

Interactive comment on Atmos. Chem. Phys. Discuss., 6, 7051, 2006.