

Interactive comment on “LACIS-measurements and parameterization of sea-salt particle hygroscopic growth and activation” by D. Niedermeier et al.

Anonymous Referee #1

Received and published: 28 August 2007

The work is of high quality. The following points would improve the accessibility.

General: These particles are generated artificially. It would be helpful to find some literature that compares the properties of natural sea salt aerosol particles with those generated by such an atomizer. The morphology, of course, is particularly important. While aerodynamic measurements were made to infer something about the shapes (page 3), these are indirect. It would be relatively simple to do electron microscopy measurements on the particles to see the morphology directly. This would also address the first point above - the difference (if any) between the natural particles and those generated by the atomizer. The importance of this point is underlined by the fact that

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the paper proposes to produce parameters to be used in a model that will be applied to real sea salt aerosols in the atmosphere.

In Section 5.1 and figure 2, reference is made to a calibration with ammonium sulfate. Not enough information is given about this calibration. What was done? If what was done in this case is explained in (Wex et al 2006), a reference should be inserted here. In any case, a brief explanation should be given as well. This is especially important in view of the different deliquescence RHs of NaCl and ammonium sulfate.

Interactive comment on Atmos. Chem. Phys. Discuss., 7, 11511, 2007.

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