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Atmospheric Chemistry and Physics Discussions

Interactive comment on "Uptake of HNO_3 to deliquescent sea-salt particles" *by* C. Guimbaud et al.

Anonymous Referee #1

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This paper describes new laboratory measurements of the uptake of HNO3 to deliquescent sea-salt particles. The advantage of the experiments described here is that the measurements are done in the presence of airborne aerosols. The paper clearly constitute a relevant contribution to the subject area.

I have only a few relatively minor comments on the manuscript:

(I) The end of paragraph 2.1: I miss a detailed estimation of the maximum of a possible formation of N2O5 from O3 and NO2. May be there are complications by an additional uptake of N2O5 falsifying the uptake of HNO3. (II) Page 744 2nd section and fig. 2: It would be useful to compare figure 2 to former literature describing the hysteresis phenomena of the water content for pure NaCl aerosol e.g. Tang et al. (J. Aerosol Sci. 1977, Vol. 8, pp. 149 to 159).

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Interactive Comment