

Interactive comment on “Effect of humidity on nitric acid uptake to mineral dust aerosol particles” by A. Vlasenko et al.

A. Vlasenko et al.

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We appreciate the positive general comment on our manuscript

We would like to thank for the update on the most recent publications. The references will be added with a discussion. The application of single particle techniques demonstrated the ability of Ca-rich dust particles to react with HNO₃. This property seems to be universal for the dust collected in various parts of the world (Asia, Middle East). The study of Umann et al. (2005) is perhaps the first field report on the uptake coefficient of mineral dust reacting with nitric acid. Although, the authors reported no RH-dependence of the uptake coefficient, the absolute values are in surprising agreement with the values of our study for the corresponding humidity range.

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Matsuki et al., GRL 32 (22): Art.No. L22806, 2005 Hwang and Ro, JGR 110 (D23):
Art. No. D23201, 2005 Laskin et al. Faraday Discussions 130: 453-468, 2005 Umann
et al., JGR Vol. 110, No. D22, D22306, 2005

Interactive comment on Atmos. Chem. Phys. Discuss., 5, 11821, 2005.

ACPD

5, S5478–S5479, 2005

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