

Interactive comment on “Chlorine Nitrate in the Atmosphere” by Thomas von Clarmann and Sören Johansson

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Received and published: 6 July 2018

The authors provided a nice overview of heterogeneous reactions of ClONO₂ in Section 5.2. May I draw their attentions to my work in which heterogeneous reactions of ClONO₂ with TiO₂ and SiO₂ aerosol particles were studied (Tang et al., 2016)? In addition, a previous study (Molina et al., 1997) explored heterogeneous reaction of ClONO₂ with aluminium oxide.

Molina, M. J., Molina, L. T., Zhang, R. Y., Meads, R. F., and Spencer, D. D.: The reaction of ClONO₂ with HCl on aluminum oxide, *Geophys. Res. Lett.*, 24, 1619–1622, 1997.

Tang, M. J., Keeble, J., Telford, P. J., Pope, F. D., Braesicke, P., Griffiths, P. T., Abraham, N. L., McGregor, J., Watson, I. M., Cox, R. A., Pyle, J. A., and Kalberer, M.:

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Heterogeneous reaction of ClONO₂ with TiO₂ and SiO₂ aerosol particles: implications for stratospheric particle injection for climate engineering, *Atmos. Chem. Phys.*, 16, 15397-15412, 2016.

Interactive comment on Atmos. Chem. Phys. Discuss., <https://doi.org/10.5194/acp-2018-577>, 2018.

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