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Atmospheric Chemistry and Physics Discussions

Interactive comment on "Chlorine Nitrate in the Atmosphere" *by* Thomas von Clarmann and Sören Johansson

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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 alumium 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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Discussion paper

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