

Interactive  
Comment

## ***Interactive comment on “The HNO<sub>3</sub> forming branch of the HO<sub>2</sub>***

***+NO reaction : pre – industrial – to –***

***present trends in atmospheric species and radiative forcings” by O. A. Søvde et al.***

**O. A. Søvde et al.**

asovde@cicero.uio.no

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We appreciate this helpful comment. The H<sub>2</sub>O effect is clearly interesting, and should be tested in global models, but only after it has been measured for the temperature and pressure range relevant to the troposphere and lower stratosphere. At the current stage, as the parameterisation is only valid for conditions near the Earth’s surface, we therefore leave the H<sub>2</sub>O effect for later modelling studies.

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Interactive comment on Atmos. Chem. Phys. Discuss., 11, 14801, 2011.

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Discussion Paper