Response to Comment by C. Fittschen

We would like to thank the Dr. Fittschen for the helpful comments on our manuscript. Below is our response (in italics).

The authors discuss in the introduction the possibility of HONO formation from excited NO₂ with H₂O, as reported by Li et al (2008). Even though the authors exclude themselves this reaction as a major source of the observed HONO, we would point out our recent work showing clearly, that the observed OH radicals in the work of Li et al originate from a process involving at least 2 photons: Direct observation

Therefore this reaction is of no importance for the atmosphere.

*The comments are well-taken. We have included this study in our paper. The sentence “Recent laboratory study by Amedro et al. (2011) also found that this reaction is not important in daytime HONO formation.” was added to the text.*


Interactive comment on Atmos. Chem. Phys. Discuss., 11, 24365, 2011.