

Interactive comment on “Key chemical NO_x sink uncertainties and how they influence top-down emissions of nitrogen oxides” by T. Stavrou et al.

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We did a similar sensitivity study, but restricted to the HNO₃-forming channel of the HO₂ + NO reaction (see www.atmos-chem-phys.net/13/3003/2013/). OH mixing ratios are strongly affected this reaction and it would be interesting to see some absolute values (e.g. global mean OH concentration) for the different simulations of Stavrou et al. for comparison. Comparing modelled OH to observation based estimates might also provide an additional test for the various modifications to the chemical mechanism.

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