

***Interactive comment on “Vertical profile of peroxyacetyl nitrate (PAN) from MIPAS-STR measurements over Brazil in February 2005 and the role of PAN in the UT tropical NO<sub>y</sub> partitioning” by C. Keim et al.***

**C. Keim et al.**

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Since the submission of the manuscript, we retrieved the profile of HO<sub>2</sub>NO<sub>2</sub> from the MIPAS-STR-spectra as described in [Stiller et al., J. Geophys. Res., doi:10.1029/2006JD007212, 2007]. Resulting maximum tropospheric HO<sub>2</sub>NO<sub>2</sub> values are 0.05 ppbv (at 10 km altitude). Thus, additional consideration of HO<sub>2</sub>NO<sub>2</sub> in the NO<sub>y</sub> budget (Fig. 13) does not resolve the discrepancy between the in situ measured NO<sub>y</sub> amount and the sum of all individual constituents of NO<sub>y</sub>. For the revised version, we will change the related paragraphs and Figures.

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