

Interactive comment on “Vertical profiles of lightning-produced NO₂ enhancements in the upper troposphere observed by OSIRIS” by C. E. Sioris et al.

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The possibility of upper tropospheric NO₂ profiles from MIPAS is exciting. Our statement was based on the peer-reviewed publications pertaining to MIPAS. We are not aware of any peer-reviewed papers that support your claim, reasonable as it may seem. Our experience is that measurements are rarely able to achieve the theoretical precision determined from simulations, because of neglected atmospheric and instrumental effects. We encourage the MIPAS community to examine the potential of retrieving upper tropospheric NO₂ from their instrument with the required "specialized retrieval algorithm".

Interactive comment on Atmos. Chem. Phys. Discuss., 7, 5013, 2007.