Corrigendum to “Differences in ozone retrieval in MIPAS channels A and AB: a spectroscopic issue” published in Atmos. Meas. Tech., 11, 4707–4723, 2018

Norbert Glatthor¹, Thomas von Clarmann¹, Gabriele P. Stiller¹, Michael Kiefer¹, Alexandra Laeng¹, Bianca M. Dinelli², Gerald Wetzel¹, and Johannes Orphal¹

¹Karlsruhe Institute of Technology, Institute of Meteorology and Climate Research, Karlsruhe, Germany
²National Research Council of Italy, Institute of Atmospheric Sciences and Climate, Bologna, Italy

Correspondence: Norbert Glatthor (norbert.glatthor@kit.edu)

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Contrary to our reply to referee 2 (p C5/C6) we forgot to mention the study of Janssen et al. (2016) in our updated manuscript and to emphasise their similar findings with respect to changes in the air-broadening coefficients.

Thus, we would like to add the following sentences to the end of Sect. 8 (Additional investigations) of our paper:

“Thus, the larger $\gamma_{\text{air},0}$ parameter would result in a retrieval of lower ozone VMRs at 30 km in altitude. A similar effect has already been shown by Janssen et al. (2016), who demonstrated that – contrary to what they found for the ozone lines of weaker bands in the 10 $\mu$m spectral region – an increase in the air-broadening coefficients of the lines of the $\nu_3$ band leads to a retrieval of lower ozone column amounts.”

In this context we would like to point out that Janssen et al. (2016) give a comprehensive review of recent investigations of the differences between ozone measurements in the UV, 5 and 10 $\mu$m spectral regions. Further, their work has strong methodological links to our analysis, because they performed a detailed intercomparison of ozone line data (intensities, air-broadening coefficients, temperature dependence of air-broadening coefficients) and retrieval results in the 5 and 10 $\mu$m bands using the HITRAN-2012, GEISA-2011 and S&MPO (Spectroscopy & Molecular Properties of Ozone) databases. Among other things, they also investigated the effects of scaling or replacing spectroscopic parameters on retrieved ozone column amounts.

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References