

Interactive comment on “Precision validation of MIPAS-Envisat products” by C. Piccolo and A. Dudhia

Anonymous Referee #1

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Review:

-> 3. Especially at higher altitudes (at least for O₃) photochemically induced day-night variability might increase the derived variability because the selected matches are from ascending and descending i.e. night- and daytime parts of the orbit.

Replies to referee 1:

We think that the day/night variability in O₃ would show up more in the bias than in the SD. Most of the time the polar comparisons are day v day or ngt v ngt unless for equinoxes and solstices, so there is no diurnal O₃ variability unless an increase at equinoxes and solstices.

Reply by referee 1:

However, in Figure 7 data over the whole year down to mid-latitudes are displayed. To be able to do so within the match criteria many day-night comparisons must have been used. I would be happy if the authors could prove their statement by excluding all day-night pairs from the Figure.

Interactive comment on Atmos. Chem. Phys. Discuss., 7, 911, 2007.

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Interactive Discussion

Discussion Paper