

***Interactive comment on “Evaluation of
ozonesondes, HALOE, SAGE II and III,
Odin-OSIRIS and SMR, and ENVISAT-GOMOS,
-SCIAMACHY and -MIPAS ozone profiles in the
tropics from SAOZ long duration balloon
measurements in 2003 and 2004” by F. Borchì and
J.-P. Pommereau***

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As stated in Sections 3.9 and 3.9.1, the authors evaluate ESA level-2 near-real time MIPAS ozone profiles version 4.61. However, they refer to error estimates given by Glatthor et al. (2005). These error estimates, as stated in the cited paper, refer to ozone profiles generated at IMK with a data processor completely independent from

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the ESA level-2 data processing. Thus they cannot be used to characterize the ESA version 4.61 data product, nor can the ESA data product be used to verify the error estimates given by Glatthor et al. (2005). The authors should refer to error estimates of the ESA ozone data product instead.

Further, the relative bias between MIPAS, SCIAMACHY and GOMOS, reported by Bracher et al. (2005), also refers to the IMK version V2_O3_2 ozone data and is irrelevant and misleading in the context of an assessment of ESA version 4.61 data.

In consequence, we consider the statement in Section 3.9.2: "However, the precision of 8.5% ... is significantly larger than the 2-4% found by Glatthor et al.(2005)" misleading, because it suggests that Glatthor et al. might have underestimated their ozone errors. This conclusion is not supported by the analysis of Borch and Pommerehne, who obviously have analyzed another data set.

Interactive comment on Atmos. Chem. Phys. Discuss., 6, 10087, 2006.

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