Atmospheric Measurement Techniques Discussions

Interactive comment on "Global and long-term comparison of SCIAMACHY limb ozone profiles with correlative satellite data (2002–2008)" *by* S. Mieruch et al.

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We agree with the reviewer that reducing the sampling sizes by subcategories (e.g SZA, season etc.) will skew the statistics. However, limb data are not as sparse as the reviewer thinks.

In an upcoming paper about validating a version update, comparisons with other available satellite data like MIPAS, GOMOS, and ODIN will certainly be included. This is mentioned in the conclusion.

To make it more clear that the negative trends observed by SCIAMACHY are instru-

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mental effects, we modified the last sentence of the abstract "point at some remaining instrumental artifact which is related to residual errors in the tangent height registration of SCIAMACHY."

We removed statements with regard to the computational load for collocation calculations.

Regarding the color scale, we believe, it is not useful to limit the difference scales to plus minus 15

Regarding the selection of 400 km and 4 hr as coincidence criteria, we added the following statement in the paper: "These coincidence criteria provided the best compromise for obtaining close coincidences and sufficiently high numbers of collocations."

Interactive comment on Atmos. Meas. Tech. Discuss., 4, 4867, 2011.