

Interactive comment on “Synergetic cloud fraction determination for SCIAMACHY using MERIS” by C. Schlundt et al.

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h) We will mention Figure 10c-f in the text.

i) We will replace all histograms by difference histograms: x-axis: MICROS - the other cloud fraction y-axis: Frequency Density [%].

We will replace all plots in Figure 8, 9 and 10, since MICROS has been processed for the whole data set available at IUP. The new processed MICROS cloud fractions do not exhibit the artificial behavior at 0.17, 0.32 and 0.5. There was a bug in the GTOPO subroutine, which was most probably responsible for that behavior.

We also would like to exchange OCRAiup cloud fraction by the official OCRA
C1771

cloud fraction used in the SCIAMACHY Level 2 Processing (V3.01), since it is widely used by the scientific community. Accordingly we will change the text in subsection 4.2.

Please also note the supplement to this comment:

<http://www.atmos-meas-tech-discuss.net/3/C1771/2010/amtd-3-C1771-2010-supplement.zip>

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