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Atmospheric Chemistry and Physics Discussions

Interactive comment on "Quality assurance of the Brewer UV measurements in Finland" *by* K. Lakkala et al.

K. Lakkala et al.

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Answer to the short comment by Germar Bernhard:

We thank Dr. Bernhard for his short comment. Please find here below the Authors' answer.

A: The distance between the lamp and the centre of the diffuser was 90 cm. We agree that it is very important to keep the distance exactly the same for all measurement angles. We also agree that the distance should be measured from the most sensitive part of the diffuser. This was the reason for first characterizing the diffuser before the characterization of the angular response. Our results showed that, for both Brewers, the centre of the diffuser was within the most sensitive area of the diffuser at the measured wavelengths, 306 nm, 310 nm, 313 nm, 317 nm and 320 nm. The figure in the

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manuscript, representing the measurement at 310 nm, actually showed the situation for the wavelength, at which the most sensitive part is situated most nonsymmetrically around the centre of the diffuser. Even so, within measurement uncertainties, the centre can still be considered to be within the most sensitive area. In order to avoid misinterpretation, Figure 1 of the manuscript has been changed to show the sensitivity of the diffuser at 313 nm.

The spelling mistakes in the reference Booth et al., 2001 have been corrected.

Interactive comment on Atmos. Chem. Phys. Discuss., 8, 1415, 2008.