Atmos. Chem. Phys. Discuss., 8, S2543–S2544, 2008
www.atmos-chem-phys-discuss.net/8/S2543/2008/

Atmospheric Chemistry and Physics Discussions

Interactive comment on "Study of suitability of cheap AvaSpec array spectrometer for solar UV field measurements" *by* I. Ansko et al.

I. Ansko et al.

Received and published: 12 May 2008

The improvements of language have been done considering the comments of both referees. Here the comments concerning the contents are replied.

A. In the comparisons with LibRadtran model the local measured values of input parameters have been used. AOD from the AERONET (within 200 m from radiation measurement locations), total ozone from the MICROTOPS or OMI Aura satellite. About the agreement of both is mentioned in the manuscript. Daily data for albedo (snow or vegetation) are detected at the local meteorological station. The results of calculation depend also on the vertical distribution of atmospheric constituents and characteristics (temperature, ozone, aerosol). A more detailed analysis of the measurement results is undertaken and the analysis of influence of the atmospheric and model uncertainties will be considered there.

Full Screen / Esc
Printer-friendly Version
Interactive Discussion
Discussion Paper

B. The daily doses of UV-SET and AvaSpec for clear and overcast conditions are compared in Fig. 5.

The FWHM based on the producers data is added to the entrance slit width.

Sorry for the "longwave radiation";.

The Ångstöm law was used with the 440-870 nm range average exponent value, which was close to 1. The detected daily values, taken from the AERONET homepage vary significantly but tend in most cases to be close to the average. In such case the proportionality also takes place.

Interactive comment on Atmos. Chem. Phys. Discuss., 8, 4199, 2008.

ACPD

8, S2543–S2544, 2008