

Interactive comment on “Aerosol Single Scattering Albedo retrieved from ground-based measurements in the UV-visible” by V. Buchard et al.

Anonymous Referee #2

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The authors describe a method to derive spectral SSA information from measurements with ground based scanning photometers. Results are compared to measurements from the aeronet network. Knowledge of (optical) properties of aerosols are important to understand their role in the radiation balance of the atmosphere. The manuscript is well written and therefore I recommend publication in AMT after minor revision, taking into account following remarks.

Are there particular reasons to limit the study to 2003 and 2005-2006, or can the time period be extended. This would be interesting to get a better impression of possible

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annual cycles, year to year variability etc.

P3182-3183: As the scans for global and diffuse irradiation are alternating, it is necessary to be sure that there are no changes in the sky conditions in between. An explanation on how this was achieved would be very interesting (rapid changing clouds, changing solar position).

Please use VdA consequently after introducing it at the first appearance.

Figures:

Figures 3a, 3c, 4a and 4c can be combined in one by using different symbols for the different spectra and different colors for the two days. The scale should be adapted to the range of the data. Similarly, figures 3b, 3d, 4b and 4d can be combined.

Interactive comment on Atmos. Meas. Tech. Discuss., 3, 3179, 2010.

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