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Atmospheric Measurement Techniques Discussions

Interactive comment on "Statistically optimized inversion algorithm for enhanced retrieval of aerosol properties from spectral multi-angle polarimetric satellite observations" *by* O. Dubovik et al.

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We thank Dr. King for his very encouraging and valuable comments. Also, we would like to acknowledge in particular the kind help of Dr. King with the editing of the text of the paper.

We have carefully addressed all the comments and suggestions both posted as a part of AMT interactive discussion and those sent directly to us:

1. All suggestions for improving the written style of the paper were included.

2. All identified errors and typos in the equations and figures were corrected.

3. As suggested, we have added sentences (in Sections 3, 5 and 6) clarifying that the aerosol optical thickness and single scattering albedo are not ones of the retrieved variables but they can be calculated using the retrieved aerosol optical properties (aerosol concentration, particle size distribution shape, complex refractive index and fraction of spherical particles).

Interactive comment on Atmos. Meas. Tech. Discuss., 3, 4967, 2010.