

Interactive comment on “Determination of particulate matter vertical columns using satellite observations” by A. A. Kokhanovsky et al.

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This paper is aimed at the determination of the particulate matter vertical columns using satellite – derived spectral AOT. A similar approach has been applied to MODIS data before, albeit with a priori assumptions on the size of aerosol particles. In this paper, the size of particles is derived from spectral AOT measurements. This constitutes a major difference from the MODIS approach.

Several corrections as advised by a reviewer have already been implemented in the text of the posted paper and they are not addressed in this reply.

In addition we would like to mention: 1). Dust particles are so large that our technique can not be used for them. 2). Our assumptions are verified using Figs. 10 and 11.

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