

Interactive comment on “Validation of an AOT product over land at the 0.6 μm channel of the SEVIRI sensor onboard MSG” by E. Bernard et al.

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Recently it has been reported that SEVIRI 0.6- μm radiance measurements may have 6~7% of low bias against MODIS measurements (Ham and Sohn, 2011; Doelling et al., 2004). This low bias of SEVIRI radiances could partly contribute to differences between SEVIRI and MODIS AOTs (Figs. 8 and 12). Moreover, in Fig. 4, except cloud contamination, many points are located below one-to-one line (SEVIRI AOT < AERONET AOT), which may be related to low bias of SEVIRI radiance measurements. Authors should address the possible impact of SEVIRI calibration errors on their results.

References:

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Doelling, D., Nguyen, L., and Minnis, P.: Calibration comparisons between SEVIRI, MODIS, and GOES data, EUMETSAT Meteorological Satellite Conference, Prague, Czech Republic, 77–83, 2004.

Ham, S. H. and Sohn, B. J.: Assessment of the calibration performance of satellite visible channels using cloud targets: application to Meteosat-8/9 and MTSAT-1R, Atmos. Chem. Phys., 10, 11131–11149, 2010.

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