

Interactive comment on “SAWA experiment – properties of mineral dust aerosol as seen by synergic lidar and sun-photometer measurements” by A. E. Kardas et al.

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The SAWA experiment was organised in the emerging aerosol/radiative transfer laboratory of Warsaw University. The gathered instruments did not allow chemical analysis of aerosols.

Indeed, the combination of lidar and photometer measurements has been used before, as mentioned in our manuscript. We modify the standard method by dividing the atmosphere into several layers and performing separate calculations for each of them. Our proposition concerns also the specific combination of measured parameters, the chosen aerosol model and the procedure of determining the size and shape representative for the observed particles. We can state it more clearly in the revised version of

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the paper, accounting for more references to similar studies.

The SAWA observations are consistent with the measurements taken in Belsk AERONET station (about 50 km south from Warsaw). Appropriate graphs can be added to the revised version of the article. The dust plum source attribution can be supported with the HYSPLIT back trajectories calculated for the measurement days.

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