

Interactive comment on “Optical-microphysical properties of Saharan dust aerosols and composition relationship using a multi-wavelength Raman lidar, in situ sensors and modelling: a case study analysis” by A. Papayannis et al.

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This is true, the authors fully agree with the fact that MODIS cannot distinguish between spherical and non-spherical dust particles from its radiance measurements.

The MODIS retrievals in our study are used only to evaluate the spatial distribution of the DREAM model simulation of the dust event (not shown in the paper). Before doing that, collocated MODIS retrievals with our AERONET station in Athens are evaluated, and the good agreement found justifies the MODIS retrieval for the day under study.

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The scattering angle of the MODIS observation used for comparison with AERONET on the 2nd of April, was 133.26, and the aerosol type retrieved over land was equal to 2.

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