

Interactive comment on “Radiative budget in the presence of multi-layered aerosol structures in the framework of AMMA SOP-0” by J.-C. Raut and P. Chazette

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This is a comprehensive study which reports on the optical properties of mineral dust (MD) and biomass burning (BB) aerosols. Radiative effects were computed for a layered atmosphere of BB aerosol and MD. The results are very interesting.

The authors state that particle measurements are limited. While rather sub-micronic particles were observed in the BB aerosol layers, MD may consist of super-micronic particles. Unfortunately, the latter could not be measured, that is, particles with diameters larger than $\sim 3 \mu\text{m}$. Did the authors perform sensitivity studies with respect to the influence of these coarse MD particles on the optical properties and radiative effects?

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Interactive comment on Atmos. Chem. Phys. Discuss., 8, 12461, 2008.

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