

## ***Interactive comment on “Atmospheric radiative effects of an in-situ measured Saharan dust plume and the role of large particles” by S. Otto et al.***

**S. Otto et al.**

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We thank the referee for his comments. We discussed all of them and tried to consider them in the revised version of the paper for submission to ACP.

- 1) The vertical structure in figures 9 to 14 is caused by variabilities in the input data (figures 1/2 now 2/3) of the vertical profile of the dust number concentration.
- 2) Instead of "above" and "below" in all figures, the terms "top" and "bottom" are used.
- 3) Section 4.2.6 is part of the sensitivity studies using the measured dust number size distributions as input. It demonstrates the big radiative effect of large particles. However, the consideration in Section 4.3 starts with column volume size distributions, which are usually retrieved by remote sensing techniques. So, we want to emphasise the effects of different large particle fractions on the columnar radiation budget in this

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separate section.

4) All technical corrections were considered.

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