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Comment

Interactive comment on “Estimation of mineral dust longwave radiative forcing: sensitivity study to particle properties and application to real cases over Barcelona” by M. Sicard et al.

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I suggest some specifications and additional comments in the manuscript:

Section 2.2 and Fig. 3: Isn't it assumed that mineral dust aerosol size distributions are made of lognormal modes? If this is the case you might specify it and also that sigma is then a "geometric" standard deviation.

Section 4, p.8546 and Fig. 7d: you probably assume that the (geometric ?) standard deviation of the size distribution is kept constant and might specify it.

Section 5, top of p.8548: the cases summarized in this table would deserve some

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comments when the Table 3 is cited.

Section 5, middle of p. 8550: you might comment why those particular cases result in such a low forcing.

End of section Section 5: you might comment why those two cases are specific.

Interactive comment on Atmos. Chem. Phys. Discuss., 14, 8533, 2014.

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