

Interactive comment on “Optical properties of Saharan dust aerosol and contribution from the coarse mode as measured during the Fennec 2011 aircraft campaign” by C. L. Ryder et al.

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The authors would like to thank Dr. Otto for his comments on the article, and we are pleased that he considers them important and critically discussed.

We agree that the measurements over the Canary Islands will reveal more about the nature of transport of coarse dust particles, and would like to note that an article comparing this data with fresh and aged dust over the Sahara is in preparation.

Regarding remote sensing products such as AERONET, which are able to retrieve SSA, we agree that the problems described could be important. As part of Fennec and related work, dust properties measured by the aircraft, satellite, and ground-based sites

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(particularly the Fennec supersite of Zouerate) will be compared in future publications.

Regarding equation 1, the base of the logarithm used is base 10. This is now specified in the article.

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