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Interactive comment on “Characterization of long-range transported Saharan dust at the Caribbean by dual-wavelength depolarization Raman lidar measurements” by S. Groß et al.

Anonymous Referee #2

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This paper presents aerosol optical properties derived from high quality lidar observations during SALTRACE, the Saharan Aerosol Long-range Transport and Aerosol-Cloud interaction Experiment. Detailed presentation of several Saharan dust intrusions cases including the particle linear depolarization ratio at both wavelengths is well done. I found very useful the analysis of the active dust sources relevant for the four investigated case studies and I appreciate as an important issue the presentation of the profiles and RCS in all four cases. I think the paper is a substantial contribution to scientific progress within the scope of Atmospheric Chemistry and Physics. The description of experiments and calculations is sufficiently complete and precise to allow

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their reproduction by other scientists. The results are discussed in an appropriate and balanced way. The authors give proper credit to related work and clearly indicate their own contribution. I am suggesting only few minor changes as follows: -Figure 1- Please provide a technical drawing instead of the picture of the instrument. -In the abstract- please rephrase “long-range transported Saharan dust at the end of its way across the Atlantic”- this one sounds like you have a proof the dust get deposited in Barbados or somehow vanished after crossing the Atlantic -Please rephrase also this statement “Our study includes the general aerosol situation during our measurement period as well”- I am not sure what you meant by “general aerosol situation”.

Interactive comment on Atmos. Chem. Phys. Discuss., 15, 19325, 2015.

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