

Interactive comment on “Statistical analysis of the long-range transport of the 2015 Calbuco volcanic eruption from ground-based and space-borne observations” by Nelson Bègue et al.

Anonymous Referee #1

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The papers covers the statistical analysis on the optical properties of the "plumes" generated after the Calbuco Eruption event and describes how it developed on its way from South America towards the South African Continent. The data provided by CALIPSO, OMI and MODIS satellites and other model analysis were used to enhance the quality of this study. At some point on its trajectories the plumes could be probed by ground based stations namely sunphotometers and lidars were used to characterize the geometrical and/or optical properties. As a wrap-up procedures the data can be used as input to regional models such as MIMOSA. The quality of presentation is very clear and well performed. In this sense I would accept the paper in its present form with the only suggestion to use the acronym "LiDAR" as a noun "lidar" similarly to the

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word radar. But this is up to the authors to consider.

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