Response to comments #3

We would like to thank to the editor Dr. Dulac for their constructive and useful comments. This document contains the authors' responses to comments from the editor. Each comment is discussed separately with the following typesetting:

***Reviewer's comment

Author's response

Changes in the manuscript.

*I encourage a revision that carefully addresses reviewers comments, especially the strong criticisms raised by referee #1.

Technical corrections:

*In the conclusion, specifiy "complete lidar overlap range" in the begining of line 4

We add (section 5, page 10, line 31): Data from a second photometer at 1.2 km above the lidar system are also used, in this way avoid problems due to incomplete overlap.

*Check uodated reference for Torres et al. paper submitted to ACP, which is now in press;

The reference for Torres et. al. (2016) submitted to AMT is what we have in the manuscript. We changed this reference by the following:

Torres, B., Dubovik, O., Fuertes, D., Schuster, G., Cachorro, V. E., Lapionak, T., Goloub, P., Blarel, L., Barreto, A., Mallet, M., Toledano, C., and Tanré, D.: Advanced characterization of aerosol properties from measurements of spectral optical depth using the GRASP algorithm, Atmos. Meas. Tech., Accepted. 2017.

*Please use larger characters and bold style in order to improve the readability of axes legends and box legends in figures 2-4.

We improved the readability of the figures and modified them in the revised manuscript.