

Interactive comment on “Assessment of the CALIPSO Lidar 532 nm version 3 lidar ratio models using a ground-based lidar and AERONET sun photometers in Brazil” by F. J. S. Lopes et al.

F. J. S. Lopes et al.

fabiolopes@usp.br

Received and published: 5 April 2013

After all comments and suggestions made by the referees, we would like to acknowledge all the careful work done by them and all the remarks regarding the manuscript. In addition, we are confident that all addressed points will be substantial to improve the quality of the manuscript.

We realize that all referees pointed out the same major concern, according to them the vertical inhomogeneity of aerosol layers might impair our methodology and results, and also the retrieved columnar AOD from AERONET would not be suitable in the case of the presence of multilayer(s) detected by CALIOP.

C512

Based on these comments we intend to address more carefully the discussion about the inhomogeneity of multi-layers of aerosols and introduce a section or subsection into the manuscript discussing the vertical inhomogeneity vs. aerosol multi-layers issue.

We also intend to answer each points raised by each referee. We expect that in the coming weeks to submit a new manuscript's version with all comments and suggestions included when appropriate.

Interactive comment on Atmos. Meas. Tech. Discuss., 6, 1143, 2013.