

Interactive comment on “One year of CNR-IMAA multi-wavelength Raman lidar measurements in correspondence of CALIPSO overpass: Level 1 products comparison” by L. Mona et al.

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On behalf of all authors, I would like to thank Prof. Alexandros D. Papayannis for his comments. In the following, the referee comments are repeated first (in italic type) and we reply to the respective statements.

» The paper presents systematic (1-year) correlative aerosol lidar measurements between the PEARL multi-wavelength Raman lidar and the CALIOP lidar. The authors state in several places (abstract, main text, etc) that this is done for the first time; however, they should stress out that this is done thanks to their SYSTEMATIC (very high number of correlative) measurements. On the other hand the authors should cite rel-

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evant work of other authors who already published systematic (but with lower number of total measurements) correlative aerosol lidar measurements between ground-based multi-wavelength Raman and the CALIOP lidars. Such work by Mamouri et al., (2009) was recently published at the Atmos. Meas. Tech. Discuss., 2, 561–587, 2009.

Citation to this paper is added in Conclusion section.

» Some additional comments. 1) Fig. 1 could show also all EARLINET lidar sites to give the reader a full overview of the existing lidar sites which are currently used to validate the CALIOP data

Even if the CALIPSO validation activities are performed within EARLINET this is a paper concerning only CNR-IMAA validation efforts. In addition showing all EARLINET sites in Figure 1 the differences between the 2 CALIPSO overpasses could be not clear.

2) In the same figure the red lines (discussed in the legend) are missing

In the pdf file downloaded from the ACPD web site, the red lines are visible.

Interactive comment on Atmos. Chem. Phys. Discuss., 9, 8429, 2009.