

Interactive comment on “Cloud screening and quality control algorithm for star photometer data: assessment with lidar measurements and with all-sky-images” by D. Pérez-Ramírez et al.

Anonymous Referee #2

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The paper presents a cloud screening and quality control algorithm to be applied operationally to star-photometer data. It uses the AERONET heritage and expands the ability of screened AOD measurements also during nighttime. The algorithms are successfully verified with independent high quality data (lidar and sky-images) under various atmospheric conditions. It is well written and structured and particularly fits to the scope of AMT. Therefore it should be accepted for publication with few minor comments.

Minor comments:

Page 1663, Line 20: The authors mention TOMS satellite. Obviously the mean OMI, since TOMS is not existing anymore.

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Page 1663, Line 22: The authors use a model atmosphere value for columnar NO₂. There are now plenty of satellites (e.g. GOME-2, OMI), which provide measurements. Eventually the authors should consider adopting more realistic NO₂ estimates

Interactive comment on Atmos. Meas. Tech. Discuss., 5, 1657, 2012.

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