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Atmospheric Measurement Techniques Discussions

Interactive comment on "Relevance of a kite-based calibration for a water vapour Raman lidar" *by* J. Totems and P. Chazette

Anonymous Referee #2

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As a follow on to my previous comment, may I suggest that the authors have a look at the following publications and references therein, in order that they can attempt to comment the result on the -28% bias of Aeronet within context? It is true that studying Aeronet was not the authors' initial goal, but as they have found a bias I believe that it could be worth it to put this result into a wider context.

Ortiz de Galisteo, Toledano, Cachorro and Torres, Improvement in PWV estimation from GPS due to the absolute calibration of antenna phase center variations, GPS Solut, 14,389-14,395, 2010, DOI 10.1007/s10291-010-0163-y.

Mavromatakis, Gueymard, and Franghiadakis, Technical Note: Improved total atmospheric water vapour amount determination from near-infrared filter measurements with sun photometers, Atmos. Chem. Phys., 7, 4613-4623, 2007.

Martinez-Lozano, Estelles, Molero, Gomez-Amo, Utrillas, Pujadas, Fortea, and Guanter, Atmospheric Components Determination From Ground-Level Measurements During the Spectra Barax Campaigns (SPARC) Field Campaigns, IEEE Trans. Geosci. Rem. Sens., 45, 2778-2793, 2007.

Estelles, Martinez-Lozano, Utrillas, and Campanelli, Columnar aerosol properties in Valencia (Spain) by ground-based Sun photometry, J. Geophys. Res., 112, D11201, doi:10.1029/2006JD008167, 2007.

Torres, Cachorro, Toledano, Ortiz de Galisteo, Berjon, and de Frutos, Integrated water vapor (IWV) climatology with RIMA-AERONET sunphotometers, GPS and Radiosondes in the Southwestern of Spain, European Aerosol Conference 2009, Karlsruhe, Abstract T094A07, 2009.

All the best.

Interactive comment on Atmos. Meas. Tech. Discuss., 8, 10577, 2015.