

Interactive comment on “Comparison of AERONET and SKYRAD4.2 inversion products retrieved from a Cimel CE318 sunphotometer” by V. Estellés et al.

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Received and published: 13 January 2012

This paper compares the algorithms used by AERONET and SKYRAD4.2 to retrieve aerosol properties from sunphotometer observations. The comparison is strictly between the algorithms as a single observations dataset is used for the study. This is a useful undertaking, as comparison between output from the AERONET and SKYNET networks is unreliable unless it has been shown that the two networks process observations in a mutually consistent manner. This paper demonstrates that, especially for cases of high aerosol loading, the two algorithms produce similar results. This paper

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is suited for publication in AMT.

Just one comment on the science:

It would have been nice if the intercomparison dataset was longer than just one month. The dataset used contains just one episode of high aerosol loading. A longer dataset would presumably have more cases of high pollution. But, while it would have been preferable to have more data, this paper is still useful with the month long dataset.

Detailed comments:

This is a list of typos. Although not important to the science in the paper, correcting these might make it easier to read.

P6884, L22: change "it is upmost important" to "it is of the utmost importance" P6884, L25: change "consist on" to "consist of" P6885, L17: change "focus" to "focuses" P6886, L01: change "On turn" to "In turn" P6887, L06: change "humidity during all year" to "humidity all year" P6887, L10: change "measure" to "measures" P6887, L20: change "antycyclonic" to "anticyclonic" P6888, L11: change "This means to deploy the field instrument co-located" to "This requires the field instrument to be deployed co-located" P6889, L17: change "On turn" to "In turn" P6889, L21: change "being DeltaOmega" to "OmegaDelta being" P6890, L05: change "afected" to "affected" P6891, L18: change "sphericity" to "non-sphericity" P6892, L09: change "Eq. (7)" to "Eq. (4)" P6893, L18: change "largers" to "larger" P6894, L20: change "On turn" to "In turn" P6894, L24: change "simmetry" to "symmetry" P6895, L19: change "data was" to "data were" P6897, L03: change "Based on Estelles et al. (2007a) study, February" to either "Based on Estelles et al. (2007a), February" or "Based on the Estelles et al. (2007a) study, February" P6898, L05: change "differs" to "differ" P6898, L12: change "and a 5%" to "and 5%" P6898, L19: change "must bore in" to "must bear in" P6899, L02: change "pointed out at the" to "poited out the" P6900, L27: change "interested on the" to "interested in the" P6901, L02: change "Even more" to "Also" P6901, L17: "looks sensitive" doesn't really make any sense, perhaps change to "looks plau-

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sible" P6901, L29: change "can not" to "cannot" P6902, L01: change "sphericity" to "non-sphericity" P6902, L11: change "can not" to "cannot" P6902, L12: change "points out at the" to "point out the" P6902, L21: change "simmetry" to "symmetry" P6903, L03: change "over passing" to "surpassing" P6903, L13: change "coherent" to "consistent" P6903: L19: change "diminished the deviations to" to "deviations diminished to" P6903, L26: change "In the other hand" to "On the other hand" P6904, L01: change "correspondent" to "corresponding" P6904, L05: change "appeared" to "appear"

Interactive comment on Atmos. Meas. Tech. Discuss., 4, 6883, 2011.