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Geoscientific Instrumentation Methods and Data Systems Discussions

Interactive comment on "Day- and night-time aerosol optical depth implementation in CÆLIS" *by* Ramiro González et al.

Anonymous Referee #1

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I found this infrastructural contribution very useful for the photometry community, as it is open to CIMEL instruments not fitting all the AERONET requirements, but hopefully also to instrument of different type in the near future.

From my point of view, this can be considered a real research tool, besides being also operational.

It is very well written and clear. I have only two small comments:

- at page 4, lines 8-15. Here you talk about ancillary data such as meteo and gas content. But the text seems to explain only about meteorological parameters, having the 3 options. This is confirmed by the fact that the only option for the gases is the climatology (sect. 2.3.3). Maybe you can adjust the paragraph.

- in Eq 1, the term R2, as defined by you, shouldn't be at the denominator? Please comment.

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