Atmos. Chem. Phys. Discuss.,
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Atmospheric Chemistry and Physics Discussions

Interactive comment on "Results from the 4th WMO Filter Radiometer Comparison for aerosol optical depth measurements" *by* Stelios Kazadzis et al.

Anonymous Referee #3

Received and published: 5 January 2018

General comments:

This manuscript well illustrates the great significance of aerosol optical depth and comparison results among 30 participated instruments from 12 countries in the 4th FRC. The high accuracy of reference aerosol network instruments demonstrated a promising framework to achieve homogeneity of AOD measurements on a global scale among the different spectral AOD networks in the near-future, which is interesting and attractive worldwide. It is scientifically well written and concise. I recommend to publish for ACP after minor revisions as followed.

Specific comments:

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Discussion paper

1. Line 50, it's better to change "ground based" to "ground-based". 2. Line 65, please don't use acronym when it first come across (i.e. UVA, NIR). 3. Line 154-155, Please check the English grammar. 4. Line 161, the unit "40 C" is incorrect, please check. 5. Line 175, Please check the English grammar "These types of comparisons are essential to moving. . ." 6. Line 528, delete the "s" at the end of "demonstrates". 7. Line 544, I suppose it should be "too much conservative cloud screening".

Interactive comment on Atmos. Chem. Phys. Discuss., https://doi.org/10.5194/acp-2017-1105, 2017.

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