

***Interactive comment on* “Trend analysis of the Aerosol Optical Thickness and Ångström Exponent derived from the global AERONET spectral observations” by J. Yoon et al.**

J. Yoon et al.

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Dear anonymous referee,

Thanks for your suggestions and comments to improve this discussion paper. As for all your specific comments, we will try to improve and modify the paper.

Major Comments

Q1. The citations are too long for several cases with one focus. It is not necessary to cite so many references to approve one argument, but several important references

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are enough. If it is on the different agreements, it is better to separate those citations into sub-groups.

A: As you mention, we will sort out some references or separate some of them for another argument.

Q2. Another question is that most time, AOTs at 550nm are used. But AOTs at 440nm was used in the manuscript. Any specific reason?

A: AERONET usually provides the AOTs at main four wavelengths, 440, 675, 870, and 1020 nm. Clearly, the AOT at 550 nm could be derived using Ångström Exponent, which is from the main AOTs. However, as shown in the manuscript, Ångström Exponent cannot describe perfectly the spectral dependency of AOTs. This is the reason why we just used the four spectral AOTs for the analysis.

Specific Comments

As for all your specific comments, we will try to improve and modify the paper.

Interactive comment on Atmos. Meas. Tech. Discuss., 4, 5325, 2011.

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