

Interactive comment on “Comparing multiple model-derived aerosol optical properties to collocated ground-based and satellite measurements” by Ilissa B. Ocko and Paul A. Ginoux

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Received and published: 25 January 2017

We thank the author for reading our manuscript and providing valuable feedback. The author is correct in that the collocation we are referring to is spatial. We have revised the manuscript to more clearly define this and accompanied our use of the word collocated with the word spatial, and have added text to address the temporal collocation implications as well. We thank the author for providing this reference. The added text (lines 6.9-6.11) reads: “While the data we use from CALIOP is spatially collocated with the AERONET stations and model data, it is not temporally collocated. A recent

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study has shown that temporal collocation can be significant and sampling errors are introduced when it is not considered (Schutgens et al., 2016).“

We have also suggested accounting for temporal collocation as a future research direction.

Interactive comment on Atmos. Chem. Phys. Discuss., doi:10.5194/acp-2016-790, 2016.

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