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Atmospheric Chemistry and Physics Discussions

Interactive comment on "Revised estimate of particulate emissions from Indonesian peat fires in 2015" *by* Laura Kiely et al.

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A paper published just last week in JGR appears to be relevant to your study.

Eck, T. F., Holben, B. N., Giles, D. M., Slutsker, I., Sinyuk, A., Schafer, J. S., et al. (2019). AERONET remotely sensed measurements and retrievals of biomass burning aerosol optical properties during the 2015 Indonesian burning season. Journal of Geophysical Research: Atmospheres, 124. https://doi.org/10.1029/2018JD030182

https://agupubs.onlinelibrary.wiley.com/doi/10.1029/2018JD030182

In particular, very high mid-visible AOD levels (~11 to 13 at 550 nm) were estimated from extrapolation of near-infrared measurements. These values are very similar to those of some of your model estimates as shown in your ACPD Figure 6.

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Discussion paper

Additionally the estimated percentage contribution of peat to AOD in Palangkaraya, Indonesia was found to be ∼80% to 85% from AERONET aerosol absorption retrievals in our study, very similar to the values you show for this region in your ACPD paper Figure 8 for PM2.5.

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