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Atmospheric Chemistry and Physics Discussions

Interactive comment on "How should we aggregate data? Methods accounting for the numerical distributions, with an assessment of aerosol optical depth" *by* Andrew M. Sayer and Kirk D. Knobelspiesse

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I enjoyed reading the manuscript. This study presents interesting results on AOD distributions in grid, and how to reprocess the data. I was very surprised that bimodal distribution (Figure 5) can also be fit as Lognormality. This method is really useful for me! We published a paper about cloud optical depth distribution patterns recently. Maybe the authors want to consider referencing: Chen YL, Chong KZ, Fu YF. 2019. Impacts of distribution patterns of cloud optical depth on the calculation of radiative forcing. Atmos. Res. 218: 70-77. doi: 10.1016/j.atmosres.2018.11.007

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Discussion paper

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