

Supplement of Atmos. Chem. Phys., 19, 8879–8896, 2019
<https://doi.org/10.5194/acp-19-8879-2019-supplement>
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Supplement of

Is positive correlation between cloud droplet effective radius and aerosol optical depth over land due to retrieval artifacts or real physical processes?

Hailing Jia et al.

Correspondence to: Xiaoyan Ma (xma@nuist.edu.cn)

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Figure List

Figure S1. Cloud effective radius (CER) as a function of aerosol optical depth (AOD) over (a) EC, and (b) EU, (c) WE, and aerosol index (AI) over (d) ECO, (e) EUO, and (f) WEO. The dots show the mean CER at each AOD/AI bin of 0.02. The slopes on log-log scale and the least-square fits for $AI < 0.3$ (blue) and $AI > 0.3$ (red), respectively, are provided in panel (d), (e), and (f).

Figure S2. The number of samples for each LWP (x axis) and CF (y axis) bin over (a) EC, (b) EU, (c) WE, (d) ECO, (e) EUO, and (f) WEO.

Figure S3. The number of samples for each LWP bin over (a) EC, (b) EU, (c) WE, (d) ECO, (e) EUO, and (f) WEO.

Figure S1

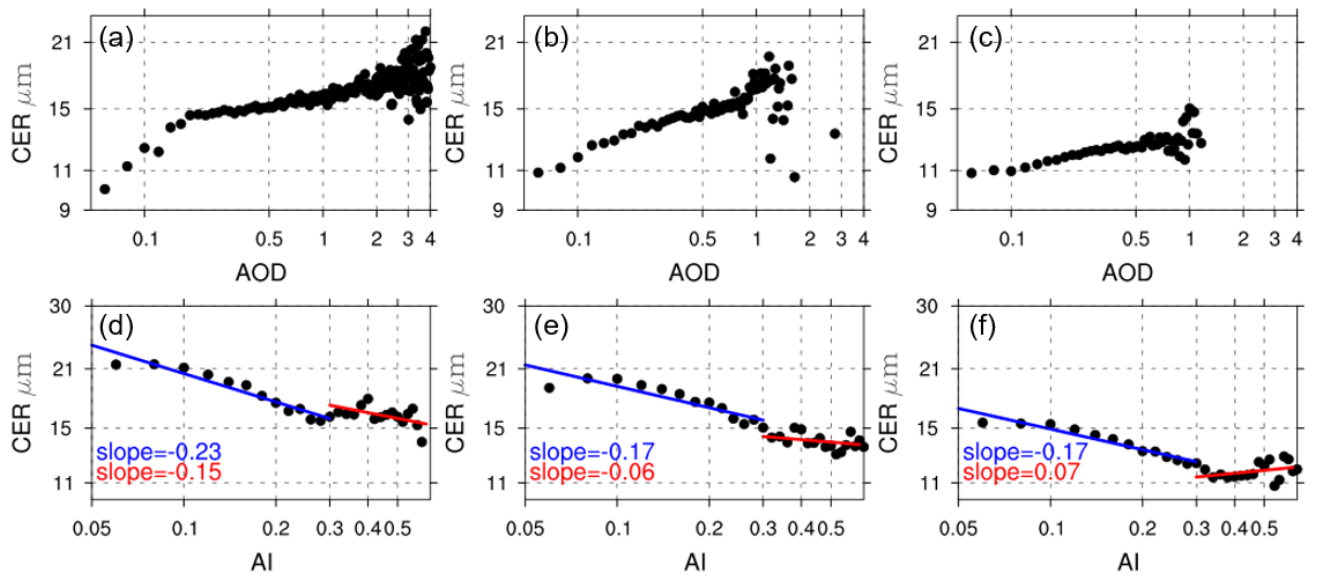


Figure S2

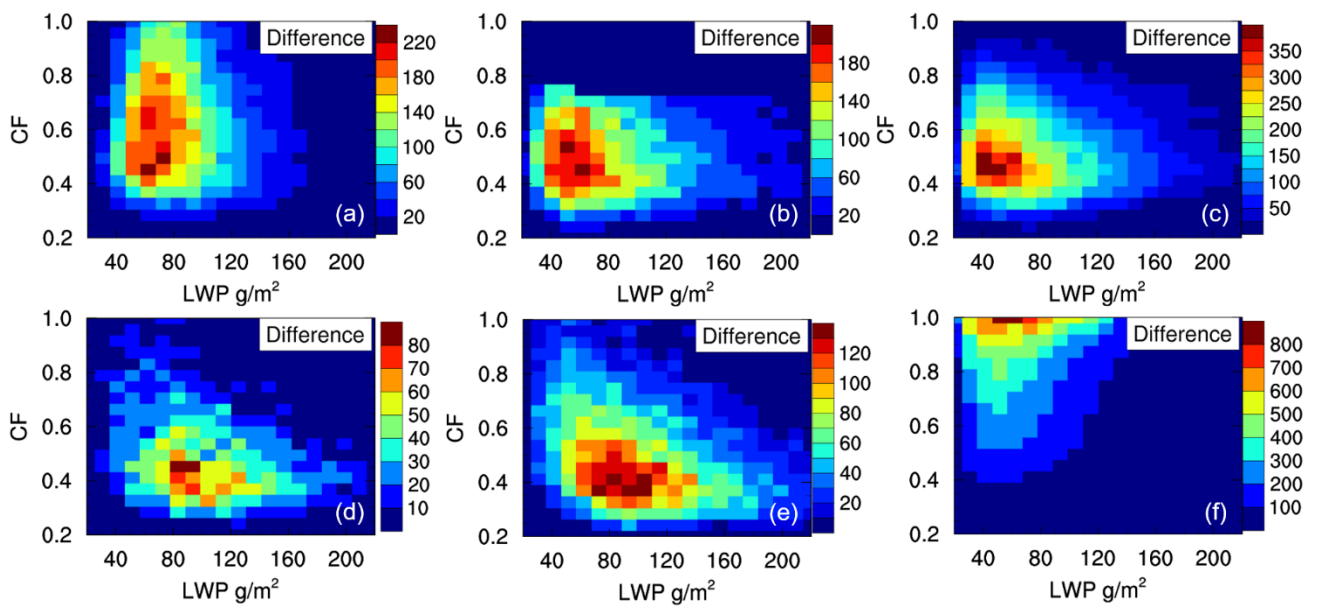


Figure S3

