

Interactive comment on “Relationship between low-cloud presence and the amount of overlying aerosols” by C. E. Chung et al.

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Received and published: 28 February 2016

We thank the reviewer for finding our paper interesting. We thank the reviewer for giving many valuable references. We will study these references and enhance the paper during the revision.

1. When we stated “the nearby clear sky”, we were referring to the clear-sky portion in a gridcell. We were not referring to nearby clear sky gridcells. We will make this clearer during the revision.

2. The reviewer says “there are some studies indicate that the CALIPSO derived above-cloud AOD are lower than other satellites sensors in the A-Train”. We are aware of potential CALIPSO data bias and will strengthen the discussion in this regard. However, to our knowledge, CALIPSO gives AOD for aerosols above cloud and no other

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satellite gives such data. Other satellite sensors (such as MODIS) give clear-sky column average AOD. What satellites give the AOD for aerosols above cloud other than CALIPSO?

Interactive comment on Atmos. Chem. Phys. Discuss., doi:10.5194/acp-2016-127, 2016.

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