

We would like to thank the reviewer for their comments below (shown in green). All edits were included within the final revision of the manuscript. In addition the following reference was included in the introduction as “in press”:

Bellouin, N., Quaas, J., Gryspeerdt, E., Kinne, S., Stier, P., Watson-Parris, D., Boucher, O., Carslaw, K., Christensen, M., Daniau, A.-L.,
Dufresne, J.-L., Feingold, G., Fiedler, S., Forster, P., Gettelman, A., Haywood, J., Lohmann, U., Malavelle, F., Mauritsen, T., McCoy, D.,
Myhre, G., Mülmenstädt, J., Neubauer, D., Possner, A., Rugenstein, M., Sato, Y., Schulz, M., Schwartz, S., Sourdeval, O., Storelvmo, T., Toll, V., Winker, D., and Stevens, B.: Bounding global aerosol radiative forcing of climate change, *Reviews of Geophysics*, in press, <https://doi.org/10.1029/2019RG000660>, 2019.

Review of the manuscript numbered ACP-2019-833

Title: "Deconvolution of Boundary Layer Depth and Aerosol Constraints on Cloud Water Path in Subtropical Stratocumulus Decks" written by Anna Possner et al.

Manuscript number: “acp-2019-833”.

Decision: “Accept after very minor revision”

The authors have done a comprehensive job responding to my concerns and comments from another reviewer. The manuscript is much better than the previous version. So, I think that the manuscript can be accepted after some minor revisions shown below.

Minor or technical Comment:

Line 49: "effect" should be added after “Twomey”.

Line 67: Muhlbauer et al. (2014)'s PDF

Line 127: Eq. 3 should be Eq. 2. (I cannot find Eq. 3)

Line 174: "(Fig. S3)" after the sentence "Yet, Nd primarily decrease with HBL in non-precipitating BLs" is useful for readers.

Title of Section 5: I think "Conclusions and discussions" is better, because the authors discuss the difference between this study and previous studies.