

Response to Editor

Dear Editor, we appreciate your time and effort for the additional check of our manuscript. We are truly grateful for your suggestions on the technical corrections. We have revised the manuscript based on your comments. In the response below, your comments are in black text, and our responses are in blue text.

I think the manuscript will be ready for publication after some technical corrections listed below:

- line 57: Remove "have to" so that "... aerosol intrusions ... have been found to lower the efficiency..."

Corrected.

- line 57: "collision-coalescence-induced" is not a noun so "the efficiency of collision-coalescence-induced which results in..." is grammatically wrong. I guess "-induced" should be removed???

Corrected.

- line 262: "profiles which aerosols and cloud layer are separated" should be "profiles in which aerosols and cloud layer are separated"

Corrected.

- line 305: FT is not defined yet. Or since FT is used at only 4 locations, use either "free troposphere" (noun) or "free tropospheric" (adjective), e.g., free tropospheric aerosol.

We have changed all the FT to "free troposphere" or "free tropospheric".

- line 314: "Figure 1a and 1d reveals" => "Figures 1a and 1d reveal"

Corrected.