

Dear Editor,

Please find enclosed the new version of the manuscript and our response to the last round of Reviewer's comments. Before anything we would like to thank you and the Reviewers for the careful reviews, which clearly improved our work in form and in content.

Our answers are provided on a point-by-point basis and the following convention for text fonts is used:

- Reviews comment in black color
- Our answer in blue color

Comments on Sanogo et al. 2024, revised version

1. Abstract, line 3: Unfortunately, the name of the MOZAIC programme is still incorrect, as "airCraft" and "In-service" need to be switched.

Corrected

2. Line 131: Please remove "non-persistent". What you describe, is the condition for contrail formation in general, both, persistent AND non-persistent contrails.

Done

3. Line 133: Please move the sentence "Contrails are persistent if RHi is above 100% (See Fig. 3 in Schumann, 1996)." to the end of the paragraph, as this does not belong to the Schmidt-Appleman criterion. The SAc has nothing to do with persistence.

Done

4. Figure 3, caption: "number density" is missing after "ice crystal".

Done

5. Line 212f: This seems to be exactly the other way.

Done

6. Figure 5, key: "LT" -> "LS"

Corrected

7. Line 251f: The references to the two figures need to be switched.

Done

8. Line 273f: This makes no sense. Please remove "with RHi" two times in this sentence.

Done

9. Line 339: "The contrail plume..." -> "At higher ambient temperatures, the contrail plume..."

Done

10. Line 340: "In such conditions, ..." -> "Therefore, ..."

Done