

1. P2, L46-47. “often exceeding 10^4 cm^{-3} compared to typical natural cirrus values of 10-100 cm^{-3} ”. Please double check the two numbers given here. Based on Figure 1 of Schumann et al., Nice is generally below 10^4 cm^{-3} . Are you sure typical natural cirrus values of 10-100 cm^{-3} ? These numbers contrast those you show in Fig. 4 of this manuscript.

Thank you for catching this error. This was due to a unit mix-up. We now use consistent cm^{-3} values and revised in the manuscript as follows:

‘often exceeding 10^2 cm^{-3} compared to typical natural cirrus values of 10^{-4} - 10^{-2} cm^{-3}

2. P2, L56-58. The year citation format differs from other places.

Thank you for pointing this out, we have now corrected it in the revised manuscript:

‘(e.g. Lewellen, 2014; Unterstrasser, 2016; Schumann, 2012; Lottermoser and Unterstrasser, 2025), while numerical weather prediction and climate models capture large-scale properties and rapid atmospheric adjustments (e.g. Chen and Gettelman, 2013; Bock and Burkhardt, 2016a)’

3. Figure 3. X-axis and caption: Use unit of percentage for RHice to be consistent with the discussion in the text and general tradition in the field.

As suggested, we have now changed the units of the X-axis in Fig. 3 from fraction to ‘%’.

4. P13, L316. Unit inconsistency with the revised Fig 6b. Please double check other places to ensure consistency.

Thank you for pointing this out. We have now changed to a consistent use of cm^{-3} in the revised manuscript, rather than kg^{-1} .

5. Fig6b caption. A typo in the unit.

Thank you. We have now corrected it from cm^{-1} to cm^{-3} in the revised manuscript.

6. Data availability. “Data for reproducing the figures in this paper will be accessible via Zenodo.” Please update this with a link to Zenodo.

This has now been updated as:

'AEDT inventory for reproducing Fig. 1 is available upon request at <https://aedt.faa.gov/>. COLI dataset for reproducing Fig. 2 is available in the supplement of Schumann et al. (2017) (<https://acp.copernicus.org/articles/17/403/2017/>). Data for all remaining figures are available at <https://doi.org/10.5281/zenodo.17203286>.'

We have updated Fig. 7b to convert the unit to cm^{-3} for consistency with the other figures in the manuscript. We also corrected typos in the caption of Fig. 7.

We have now also added in Acknowledgements a sentence to thank the editor and the two reviewers for their careful revision and useful suggestions.