Atmospheric Chemistry and Physics Discussions

Atmos. Chem. Phys. Discuss., author comment AC1
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Comment on acp-2022-395

Andreas Marsing et al.

Author comment on "Investigating the radiative effect of Arctic cirrus measured in situ during the winter 2015–2016" by Andreas Marsing et al., Atmos. Chem. Phys. Discuss., https://doi.org/10.5194/acp-2022-395-AC1, 2022

Dear reviewers and dear editor,

We thank all reviewers for their careful assessment of the manuscript. The comments raised several important open questions and greatly helped in streamlining the overall analysis, presentation and findings of our study.

Attached you find **part** of our authors' answers to the reviews. The reason why this is not complete at this point is twofold: First, as we checked several results of the radiative transfer calculations using the DISORT solver instead of two-stream (used before), we originally did not notice much difference. However, in the last few days, we found that deviations are stronger and more prevalent than thought, leading us to redo all RT calculations. We would like to be consistent and careful here. This has been taking some time, especially to transfer the results to all figures and to adapt all text and answers. Second, just now we stepped into some technical issues due to maintenance work on our instute network, which renders access to all necessary files quite difficult.

Therefore, we would like to hand in the completed answers and the revised manuscript in the course of the next week. We hope and ask for your generous understanding to the delay. This has also been announced beforehand to the editor.

Yours sincerely,

Andreas Marsing, on behalf of all authors

Please also note the supplement to this comment:
https://acp.copernicus.org/preprints/acp-2022-395/acp-2022-395-AC1-supplement.pdf