

Dear Authors

Thank you for your revised version of 17 July. I appreciate your detailed response to the reviewer. It is my impression that (1) you benefited from a very detailed and competent review; (2) you have made significant changes that improve your manuscript and adequately address most of the reviewer's constructive objections. Your work appears to contain a lot of innovation and in my opinion will improve our quantitative understanding of thermal processes in dry avalanches. I am fully aware of remaining imperfections, but given the difficulty of conducting this type of field studies, your work obviously constitutes a significant advance.

In principle, I am therefore inclined to accept your paper for publication in *The Cryosphere*. However, some of your responses to the reviewer, which may also be useful to readers, do not seem to have been incorporated in the text. This is the case for your answers AC12, AC13, the last sentence of AC21 and the last part of AC24.

I would therefore like you to consider either to include these responses in the paper, or to add as supplementary material a short text detailing some aspects of methods and results which you think may not be critical to your paper but nevertheless useful to a few avalanche specialists. If you opt for the supplementary material option, please feel free to add pictures such as additional Figures B and C which may not fit into a paper but be acceptable as supplementary material.

Finally, I request that you think seriously about the actual usefulness of your comparison to cirrus clouds (line 660). My feeling is that this may rather encourage unnecessary discussions and arguments, which may not be very productive.

Lastly, I am certain that you appreciate the time that both referees, and especially the referee who performed the review of your revised manuscript, devoted to your paper. You may therefore consider mentioning the input of the anonymous reviewers in your acknowledgements.

Thank you for submitting your paper to *The Cryosphere*.

Best regards,

Florent Domine