

AUTHOR'S RESPONSE

In the Manuscript you can find the new version, with highlighted, all the major modifications.

Here we reported a list of the section describing principal improvings inside of those:

GENERAL DESCRIPTION:

- We made major modifications in order to formulate and demonstrate our novel scientific contributions. We introduce a new methodology which is, totally automatic and easy to use for retrieving snow depth. We demonstrated our methodology successfully in 3 different case studies. Our methodology will be very useful for many applications including scientific research where the snow depth retrieval is needed where the AWS station installation is too dangerous or impossible. In this manuscript, we also showed that our methodology on the retrieval of snow depth can be more practical and accurate at the test sites, where configurations such as stake and camera positions were not planned, just using the existing configurations.
 - Shortened and focused the “Introduction” section,
 - Reshaped the “Methodology” section,
 - Reported first “Methodology” and then “Case studies”,
 - Shortened the “Case study” description,
 - Separate sections for “Results” and “Discussion”
- In the revised version of the manuscript, we have improved its readability.

INTRODUCTION:

- We rewrote this part taken into considerations all reviewers' comments:
- In the revised version of the manuscript, we have condensed the introduction, we focused on snow depth, and time-lapse photography.
 - We modified the introduction section where the current status of snow depth retrieval by digital camera and recent research on snow depth retrieval and gaps are clearly visible.
 - We have re-formulated the Introduction section, focusing the attention to time-lapse photography and the open questions.

METHOD:

We reorganized and structured Method chapter with the comments from reviewers.

- In the revised version of the manuscript, we have reformulated the methodology into more scientific presentation. We also rewrote the results more clearly underlining take home messages and new findings for readers.
- We have removed the subchapter “FMIPROT” and mentioned it in the chapter in the beginning.
- The procedure on how to use FMIPROT to estimate the snow depth is removed, as it does not provide any scientific value, but rather shows the usage of the software.

CASE STUDIES

We reorganized and restructured this chapter with the comments from reviewers.

We have shortened the description of case studies. We have used cm rather than 10^x m, throughout the manuscript.

RESULTS

We reorganized and restructured this chapter with the comments from reviewers.

- Subchapters of causes of failures and configuration design suggestions are moved to the new chapter, Discussion.
- Relevant items in the chapter are moved to the new chapter, Discussion.

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DISCUSSION

New chapter added based the comments from reviewers.

In the revised version of the manuscript, we have distinguished “Results” section from “Discussion” where we report lessons learned and implications for the future investigations.