

Interactive comment on “Measuring the snowpack depth with Unmanned Aerial System photogrammetry: comparison with manual probing and a 3D laser scanning over a sample plot” by Francesco Avanzi et al.

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We thank Referee 3 for these useful comments on the manuscript. Please find below our reply to your concerns and our prospective changes in the manuscript.

Comment: “General comments I’m building my evaluation on the current form of the manuscript, but also accounting for the comments/replies raised during the discussion. In my opinion the manuscript is clearly written, has a good structure and presents a compact study. I fully support the decision of authors to include results from an

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additional campaign in the revised version of the manuscript. This will for sure add and increase the scientific contribution of the work.”

Reply: We thank the Referee for this kind and positive general comment.

Comment: “Additionally to the comments already raised in previous reviews, I have only one additional suggestion to be considered in the revision. In my opinion, the discussion can include a separate part related to the lessons learned. This part might include not only discussion of some technical points, like challenges/advices related to the selection of study area, date of observations, meteorological conditions, but also some advices on how to organise such measurements and validations in larger areas. I would like also to see some more comments on the range of the overlaps needed and the sensitivity of the final accuracy in relation to the overlaps. This might be crucial for considering such techniques for snow monitoring in larger areas.”

Reply: Many thanks for this comment. We fully support the suggestion. In the revised version of the manuscript we will introduce a separate part where we report the lessons learned.

Interactive comment on The Cryosphere Discuss., <https://doi.org/10.5194/tc-2017-57>, 2017.

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