

The Cryosphere Discuss., author comment AC1
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Reply on CC1

Pirmin Philipp Ebner et al.

Author comment on "Evaluating a prediction system for snow management" by Pirmin Philipp Ebner et al., The Cryosphere Discuss., <https://doi.org/10.5194/tc-2021-56-AC1>, 2021

Dear Mr. Marty

Thank you for your positive feedback, constructive comments and suggestions. In the revised manuscript we will include a clear statement in the abstract and conclusion about the impact of SRUs with different spatial resolution.

To your minor comments:

Comment #1: L15: This sentence is very hard to understand. Please, rephrase:

[Answer] We will rephrase the sentence:

"This calls for an assessment of potential limitations in snowpack simulations describing the managed snow. Further, the impacts from meteorological station measurements and their interpolations in the ski resorts for the snow management practices is needed.

Comment #2: L187: CM is not used anymore later!

[Answer] We will delete 'CM' in the revised manuscript

Comment #3: L273: elevation and not altitude

[Answer] We will change it to 'elevation'

Comment #4: Fig. 4 (caption): overall accuracy (OA)

[Answer] We will add '(OA)' in Fig. 4 caption

Comment #5: Fig. 7 (caption): What do you mean with "global average"?

[Answer] We mean the average of the entire ski resort. We will rephrase it:

"Overview of the average and standard deviation between simulated and GNSS measured snow depth considering all the time steps and the different resolution of the SRUs for the entire ski resort."

Comment #6: Table 3: OA is defined with the unit %, but was so far in all figures always given in decimals.

[Answer] Thanks for pointing this out, we will change the OA in all figures to the unit %.

Comment #7: Table C1: Arosa & Obergurgl: Snowfall is per se ephemeral! Do you mean ephemeral snow cover?

[Answer] Thanks for pointing this out, a word is missing. We want to say, that short intensive snowfall generated high disagreement

Comment #8: Table C1: Garmisch: Heterogeneous in what regard?

[Answer] We agree that heterogeneous was in this regard maybe not the right wording. We wanted to express that most of the ski resort is covered by forest and only the upper part is forest-free with alpine meadows and rocks. We will rephrase this sentence:

"... is shorter than in the other ski resorts and large parts of the ski resort are covered by forest."

The authors