

MANUSCRIPT tc-2021-56

Title: Evaluating a prediction system for snow management

Authors: Pirmin Philipp Ebner et al.

Dear Mr. Niwano,

We want to apologize for this inconvenience, which has brought with the rebuttal letter.

This will not happen again. Thank you for the notice.

Below you can find our answers to the comments. The lines correspond to the latest track changed manuscript.

Kind regards

The authors

Comment #1: Equation (2) has a new error: the summation range should be either $i = 0$ to $N-1$ or $i = 1$ to N .

[ANSWER] We changed it to: $i = 1$ to N .

Comment #2: Defining MD positive for model overestimation would be more conventional but not essential.

[ANSWER] We decided to keep it as it is but, in the future, we will do it the more conventional way

Comment #3: L. 19: "in future" -> "in the future"

[ANSWER] We changed it accordingly.

Comment #4: L. 41: "the pilot ski resort" -> "ski resorts"? Is the word "pilot" necessary here? Please check this point again.

[ANSWER] We changed "pilot ski resort" to "ski resort" in the whole manuscript.

Comment #5: L. 41: "respondents": Intention of this word is unclear. Please specify more in detail.

[ANSWER] We meant with "respondents" the operating managers but agree that this might have been unclear. Therefore, we changed it to "operating managers".

Comment #6: L. 262: "because of the overestimation of the ablation process in the snow model" -> "because of the overestimation caused mainly by the ablation process in the snow model"

[ANSWER] We changed it accordingly.

Comment #7: L. 374 ~ 375: Suggest rephrasing "The GNSS data can only be used as ground observation with some restrictions. There are several problems which might affect the quality of the data ~" -> "There are several problems which might affect the quality of the GNSS data ~"

[ANSWER] We changed it accordingly.

Comment #8: L. 436: “in a more efficient way, are needed and will be attempted” -> “in a more efficient way are needed, and will be attempted”

[ANSWER] We changed it accordingly.

Comment #9: Figure 6 caption: You can remove the word “global average”, because it is not used in the running text and the figure. Also consider again the comment #5 in CC1.

[ANSWER] We removed ‘global average’ and changed the caption to:

“Overview of the root mean square deviation (RMSD, hollow symbols mean deviation (MD, filled symbols) and standard deviation (σ , extent of error bars) between simulated and GNSS measured snow depth considering all the time steps and displayed for each different SRU resolution for the entire ski resort. The presented data are analysed for the four months December, January, February and March where GNSS data were available.”

The authors