

The Cryosphere Discuss., author comment AC2
<https://doi.org/10.5194/tc-2021-172-AC2>, 2021
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Reply on RC2

Zacharie Barrou Dumont et al.

Author comment on "Brief communication: Evaluation of the snow cover detection in the Copernicus High Resolution Snow & Ice Monitoring Service" by Zacharie Barrou Dumont et al., The Cryosphere Discuss., <https://doi.org/10.5194/tc-2021-172-AC2>, 2021

We wish to thank the reviewer for the positive evaluation of useful comments on our manuscript. We provide a point-by-point response below.

- The accuracy (proportion of correct classifications) was 94 % ($\kappa = 0.83$). Based on the parentheses, one could read that the proportion of correct classifications was 0.83, although it is probably meant that accuracy is just a synonym for the proportion of correct classifications. Please revise the sentence to avoid this risk of misunderstanding.

We will revise this sentence to clarify.

- sensitivity to this threshold?

Indeed, it is probably better to write "to this threshold" instead of "of this threshold"

- at least one external data set / at least one of the external data sets?

We will rephrase "at least one of the external dataset"

- A reference to the definition of kappa would be useful.

We could have cited the paper by Cohen (1960) but we already had the maximum number of references allowed for a brief communication (20). We assumed that the kappa is now well known in the scientific community and its definition can be easily found in many textbooks or wikipedia.

Cohen, J. (1960). "A coefficient of agreement for nominal scales". Educational and Psychological Measurement. 20 (1): 37–46. doi:10.1177/001316446002000104

- L88, L106. "Results" should be Section 3 and "Conclusions" Section 4.

We thank the reviewer for noticing this mistake.

- Check the alphabetical order in the list of references.

We have checked and did not notice sorting error (the list was generated automatically

with a citation management software)

- L207-208 (Caption of Fig. 2). Please specify the value of HS_0 used for the right-hand-side matrices.

We will add the information.