

The Cryosphere Discuss., community comment CC1
<https://doi.org/10.5194/tc-2022-14-CC1>, 2022
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Comment on tc-2022-14

Thorsten Seehaus

Community comment on "Halving of Swiss glacier volume since 1931 observed from terrestrial image photogrammetry" by Erik Schytt Mannerfelt et al., The Cryosphere Discuss., <https://doi.org/10.5194/tc-2022-14-CC1>, 2022

Very nice and interesting work.

I only have some questions regarding the interpolation.

L210 ff: You talk about "regional hypsometric approach" and refer to McNabb et al. (2019). However, McNabb et al. (2019) use the terms "local" and "global" approaches. I guess you mean the local approach, i.e. an interpolation for each glacier individually. Did I get it right? You applied also scaling of the elevation range and elevation changes per glacier. How did you define the size of the elevation bins used for the interpolation and what's the advantage of the scaling?

In L215 you talk about glaciers with >20% voids. Did you apply here the "global" hypsometric approach, as defined by McNabb et al. (2019).

L303: How did you propagate the interpolation uncertainty from pixel to glacier and regional scales?

Kind regards

Thorsten Seehaus