

We thank the editor and the reviewers for the positive feedback as well as thoughtful suggestions/corrections. We have updated the manuscript accordingly.

Dear Sajid and co-authors,

I have reviewed your revised manuscript and am pleased that it is now accepted for publication in our journal, pending some technical corrections (see below). Congratulations, and many thanks for your valuable contribution to The Cryosphere!

Kind regards

Bert Wouters

- Line 39-40, "the scanning of the whole KH-9PC archive and its availability through the USGS is still underway with completion aimed at 2022". Meanwhile, we entered 2023, please update the status/planning of the scanning.

We have now added the recent status that we received from the USGS. i.e. By the end of February 2023, USGS has scanned about 70\% of the browse images with the completion aimed at early 2024 (USGS, pers. comm.).

- Line 40: "wright" -> "Wright"

corrected

- Line 113-118: "... the variance of dH data over stable off-glacier areas as representative of the uncertainty of dH estimates on-glacier, and the uncertainty of the density conversion factor proposed by Huss (2013), when converting ice volume to mass changes. The calculated correlation length was 605 m in the case of the KH-9PC dH data, and 873 m in the case of the KH-9MC data over the Passu Glacier. The correlation length was 1488 m in the case of the KH-9PC derived dH data and 1220 m for the KH-9MC derived dH data over the Petrov Glacier.": This is just a suggestion, but it would make sense to mention the correlation lengths before you mention the density conversion factor, since the two are not related. I would also recommend to rephrase the last sentence to avoid repetition.

E.g.: ... the variance of dH data over stable off-glacier areas as representative of the uncertainty of dH estimates on-glacier. The calculated correlation length was 605 m in the case of the KH-9PC dH data, and 873 m in the case of the KH-9MC data over the Passu Glacier. For Petrov Glacier, correlation lengths of 1488 m and 1220 m were found for KH-9PC KH-9MC derived dH data, respectively. We include the uncertainty in the density conversion factor proposed by Huss (2013), when converting ice volume to mass changes and also follow the approach of Malz et al. (2018) "

Revised as suggested

- Supplement figure S2: "only one pair of KH-4 image footprints ARE shown here" -> "only one pair of KH-4 image footprints IS shown here" (pair is singular)

corrected