

The Cryosphere Discuss., referee comment RC2  
<https://doi.org/10.5194/tc-2022-203-RC2>, 2022  
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## Comment on tc-2022-203

Anonymous Referee #2

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Referee comment on "Brief communication: Glacier mapping and change estimation using very high-resolution declassified Hexagon KH-9 panoramic stereo imagery (1971–1984)" by Sajid Ghuffar et al., The Cryosphere Discuss., <https://doi.org/10.5194/tc-2022-203-RC2>, 2022

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In this manuscript, the authors have presented a comparison of results of geodetic mass changes obtained by applying existing methods to a largely untapped resource. The results are well-presented and very promising, and the potential of this method for extending and improving observations of geodetic mass changes into the past is very exciting. I only have a few small comments/questions that should be considered before the paper is accepted for publication.

Section 4.1:

- After stitching the images, do you use the image frame or rail holes to resample/align the fore and aft images? Do you crop the image border? A little bit more information about the process here would be helpful.
- Are the different scanned parts of the images radiometrically similar, or do you need to balance/blend the parts together?
- In addition to the references, could you mention how/where each of the different steps described here are implemented? (e.g., software/programming languages)?

Section 4.3:

- l. 110: what correlation length did you use for the Fischer et al. formula?