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Interactive comment

Interactive comment on "Evolution of events before and after the 17 June 2017 landslide at Karrat, West Greenland – a multidisciplinary approach for studying landslides in a remote arctic area" by Kristian Svennevig et al.

Kristian Svennevig et al.

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First and foremost, we thank you for taking the time to review our manuscript and contributing with constructive comments that helped improve the manuscript immensely.

We have made our aim/research question clearer in the title, abstract and introduction. "Our aims with this study are twofold: to understand the processes that led to the disastrous Karrat 2017 rock avalanche and the continued threat from the area, and to explore our ability to detect and locate rock slope failures and ultimately to assess

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the associated hazard in an unhospitable climate with very difficult access" This also goes towards answering your suggestion to take the various datasets (namely seismic and InSAR) further and use them to their full potential which of course could be very interesting. However, A detailed examination of the 2017 Karrat rock avalanche using these methods are beyond the scope of this paper. We set out to develop a way to examine the slopes in these inaccessible areas of the world, and during that course have described the evolution of the Karrat Landslide Complex and raised some questions to be answered by one or more in depth studies hopefully also including detailed fieldwork and dating of previous rock slope failures. The authors do not have the resources, nor the scientific background (in some areas) to do the detailed work you suggest but would be very open to cooperation on the area as there are surely much more to learn from this spectacular landslide complex.

Svennevig et al 2019 that you refer to is a short preliminary paper on a single event, demonstrating that the landslide area is still active. With the present paper we go beyond this work and show that we can describe the recent evolution of the Karrat Landslide Complex.

For a detailed overview of the changes made we refer to the the reviewer comments overview document attached here and the updated manuscript we resubmit.

Kind regards, on behalf of the authors Kristian Svennevig

Please also note the supplement to this comment: https://esurf.copernicus.org/preprints/esurf-2020-32/esurf-2020-32-AC2-supplement.pdf

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