

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.

Anonymous Referee #2

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General comments: The topic is interesting and important, but the article needs major revisions before it is published. The article needs to be better organized. The intro needs something about what you knew before the landslide and what you didn't and where else is at risk of these kinds of landslides/tsunami. The physiographic setting needs more than a couple of sentences on the bedrock geology. Need to present: climate, past glaciations, i.e., surficial geology, permafrost distribution, bathymetry, and why a tsunami wave would have made it that far. The methods need a work flow diagram showing what you did first and what you did last. Field verification is likely

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last. The explanations for each method are too general. You also need to talk about which software packages you used for each method. You should mention the number of images that were used to give you the results you are presenting. Eg DInSAR monitoring. . .how many images? Also, explain decorrelation, a variation of colour is shown but no one can tell how much change has actually occurred because there is no colour bar indicating the colours. Your figures need to be referred to succinctly in the text. You should not mention Fig 5 until you mention the ones ahead of it. The same for Fig 2e before a,b,c,d. And if you can't do that, reorganize the figs according to your text. You should always cite references in text chronologically. Overall, the article has potential to show what can be done remotely, but it is not ready yet as it is not clear how well you have met the objectives. Specific comments: They are on the marked copy that I have uploaded. One reference is listed in the ref list but not in text. Hovikoski et al. For the figures, I have made comments directly on the caption.

Please also note the supplement to this comment:

<https://esurf.copernicus.org/preprints/esurf-2020-32/esurf-2020-32-RC2-supplement.zip>

Interactive comment on Earth Surf. Dynam. Discuss., <https://doi.org/10.5194/esurf-2020-32>, 2020.

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