

I thank the authors for accommodating some of my and the other reviewer's suggestions in this revised version of the manuscript and I think the manuscript is much improved. I only have a few minor comments that I would like the authors to address:

L 13: change "demonstrating" to "which demonstrates"

L 55: I suggest adding a reference to Lampkin et al. 2020 here (<https://www.frontiersin.org/articles/10.3389/feart.2020.00370/full>)

L 57 and 60: change "suggested" to "suggests"

L 122: I suggest adding a reference to Dunmire et al. 2020 here (<https://agupubs.onlinelibrary.wiley.com/doi/10.1029/2020GL087970>)

L 138: Sentence that begins with "Lakes were also checked" is confusing

L 161: Section 2.5: I suggest renaming this section "Elevation change from photoclinometry". When I first read the section header I thought that both photoclinometry and DEM differencing would be included in this section. I think the "and elevation change" is somewhat misleading.

L 162: Change "This technique: to "phoclinometry:

L 236: Change "signifying" to "signify"

Figure 3: In the caption, please comment that the red outlines signify the lake margins detected from optical imagery.

L 266: Section 3.3: I suggest changing "the ArcticDEM" to "ArcticDEM differencing" in the section heading

L 281: The sentence beginning with " The use of an NDWI_ice – based mask..." seems out of place in this paragraph and I got lost while reading this part.

Figure 7: I suggest using a non-diverging color scale when indicating elevation changes between 0 and 12.

Figure 8: It is more appropriate to use a diverging color map that is symmetric (centers on 0). At first glance it appears that the green indicates an increase in elevation everywhere outside the lake but I believe this is not the case?

L 229: Change "changes in SAR backscatter" to "SAR backscatter changes".

L 469: Appendix section A4: What do you mean by "Process" for this section header?

Appendix Figure B1: Again, I suggest using a non-divergent color scale to indicate velocity between 0 and 1000 m/yr.

Appendix Figure C1: Comment that the red boxes surround the lakes in this study.