

Response to Editor

Thank you for your contributions to the revision of this manuscript. We greatly appreciate the constructive feedback provided by both reviewers and the thorough and thoughtful revision carried out by the authors.

From an editorial standpoint, we are pleased to accept this manuscript for publication.

One minor point for clarification: the error in lake abundance is currently shown as both a positive and negative deviation. If we interpret the authors' response correctly, this estimate reflects only a negative bias (an underestimate), not a potential positive bias (overestimate) in lake number. If so, please adjust the sign of the error in the manuscript accordingly.

We are confident that this study will be of great value to the communities investigating glaciological and hydrological processes across Greenland.

Thank you for your quick response. We are very pleased that this dataset and the associated paper meet the standards of ESSD for acceptance and publication.

We have edited the lake abundance error estimation according to your feedback and report this as a solely negative bias now (i.e. " ± 809 " $\rightarrow$ "-809").

Many thanks for the valuable feedback along the way, which has ultimately strengthened and improved the dataset.

Regarding your figure 2: please note that in accordance with our standards, material that originates from Google Earth requires the copyright symbol "©". Please add it to the caption of Figure 2 with the next revision. For instance, © Google Earth Engine.

The figure does not include any content that originates from Google Earth Engine. Regardless, we have added a copyright symbol in the figure caption to ensure no copyright infringement on the use of the name in the figure.