

GlaMBIE Combined Submission Report

Thank you for submitting combined data to the Glacier Mass Balance Intercomparison Exercise (GlaMBIE). This PDF document serves as your record of your submission to GlaMBIE. A summary of your submission is provided in Table 1 below. Visualisations are provided in Figures 1 to 6 below the table. Please get in touch with us if you notice any issues with your submission!

The GlaMBIE consortium will receive a copy of this submission report and will manually review it. If we find any issues with your submission or need any clarifications we will notify you via email.

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Group name	ArcticInSituGRACE
Sponsoring agency	Danish Energy Agency and AMAP
Dataset references	Box, J. E., Colgan, W. T., Wouters, B., Burgess, D. O., O'Neel, S., Thomson, L. I., and Mernild, S. H.: Global sea-level contribution from Arctic land ice: 1971–2017, Environ. Res. Lett., 13, 125012, https://doi.org/10.1088/1748-9326/aaf2ed , 2018. Box, J.E., update of ArcticInSituGRACE through 2022, https://github.com/jasonebox/GOA-2023
Observational source	combined
Additional comments	Iceland can be extended before 1988, am waiting for data from WGMS
Accepted participant conditions	true
Submission timestamp	20230321T130236
Submitted regions	Alaska; Arctic Canada, North; Arctic Canada, South; Iceland; Svalbard and Jan Mayen; Russian Arctic
Alaska combined file name	Alaska.csv
Arctic Canada, North combined file name	Arctic-Canada-North.csv
Arctic Canada, South combined file name	Arctic-Canada-South.csv
Iceland combined file name	Iceland.csv
Svalbard and Jan Mayen combined file name	Svalbard.csv
Russian Arctic combined file name	Russian-Arctic.csv
Dataset information file name	ArcticInSituGRACE_readme.pdf
Was grace used to derive combined data?	true
Was other used to derive combined data?	true

Other used to derive
combined data
freetext

The other data source is in-situ data. The method is scaling of in-situ mass balance (independent variable) versus GRACE (dependent variable).

Table 1: Submission Summary



Figure 1: Summary plot for combined data submission for Alaska. There are outliers present in the data. They are circled in red.

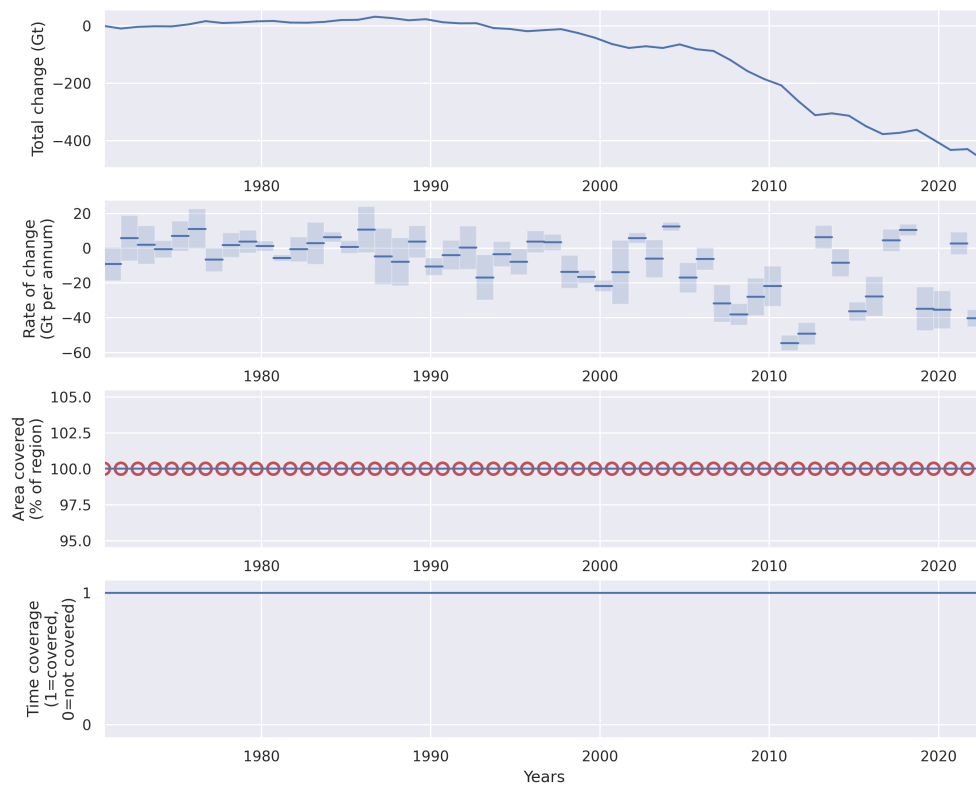


Figure 2: Summary plot for combined data submission for Arctic Canada, North. There are outliers present in the data. They are circled in red.



Figure 3: Summary plot for combined data submission for Arctic Canada, South. There are outliers present in the data. They are circled in red.

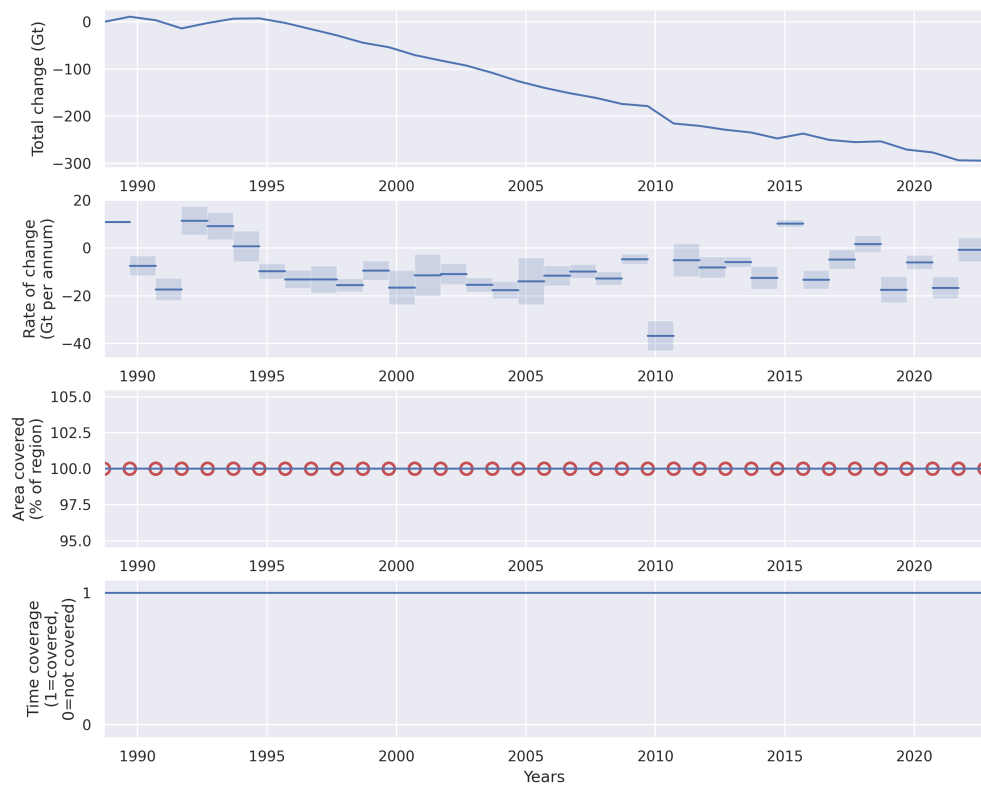


Figure 4: Summary plot for combined data submission for Iceland. There are outliers present in the data. They are circled in red.

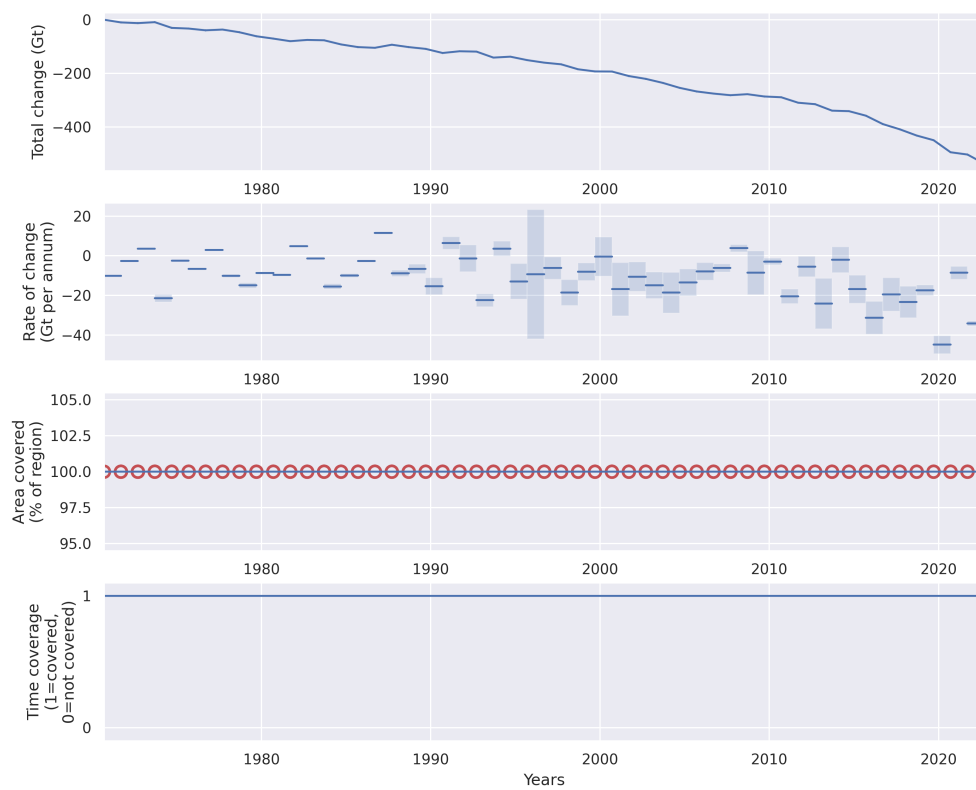


Figure 5: Summary plot for combined data submission for Svalbard and Jan Mayen. There are outliers present in the data. They are circled in red.

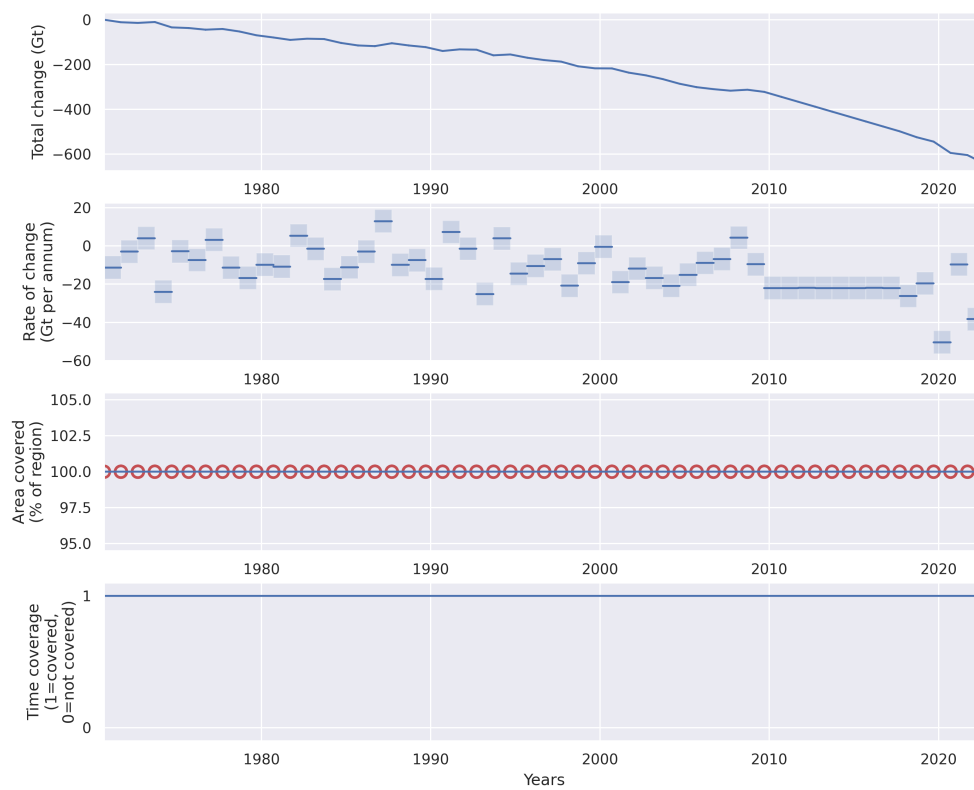


Figure 6: Summary plot for combined data submission for Russian Arctic. There are outliers present in the data. They are circled in red.