



Corrigendum to “Elevation change of the Greenland Ice Sheet and its peripheral glaciers: 1992–2023” published in Earth Syst. Sci. Data, 18, 1729–1745, 2026

Johan Nilsson^{1,2} and Alex S. Gardner²

¹Department of Earth Science, Uppsala University, Uppsala, Sweden

²Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA 91109, USA

Correspondence: Johan Nilsson (johan.n.nilsson@geo.uu.se)

Published: 14 September 2026

During the final revision and editing of the manuscript, several numerical and typographical inconsistencies were inadvertently introduced or overlooked. The following corrections concern values and associated text reported in the Introduction, Results, and Discussion. These corrections do not affect the underlying data, analyses, or conclusions of the study.

1 Correction to the Introduction

During the final revision, values for the Greenland Ice Sheet only were inadvertently used instead of the combined values for the Greenland Ice Sheet and peripheral glaciers. The corresponding values presented in Table 3 are correct, and the error is therefore limited to the summary values reported in the Introduction.

The published text reads:

“This record was used in combination with two firm models to estimate that Greenland (continental ice sheet plus periphery glaciers) lost a total of 5120 ± 544 Gt of ice over the 1992–2023 period with large inter-decadal variability. The ice sheet and peripheral glaciers had a mass budget of $+51 \pm 68$ Gt a^{−1} in the first decade of the record, a budget of $−303 \pm 48$ Gt a^{−1} in the second decade, and a rate of $−124 \pm 39$ Gt a^{−1} in the last decade.”

The corrected text should read:

“This record was used in combination with two firm models to estimate that Greenland (continental ice sheet plus periphery glaciers) lost a total of 5856 ± 567 Gt of ice over the 1992–2023 period with large inter-decadal variability.

The ice sheet and peripheral glaciers had a mass budget of $+46 \pm 71$ Gt a^{−1} in the first decade of the record, a budget of $−344 \pm 50$ Gt a^{−1} in the second decade, and a rate of $−134 \pm 39$ Gt a^{−1} in the last decade.”

2 Corrections to the Results

Two inconsistencies were identified in the Results.

First, a mass-change rate reported in the text is inconsistent with the corresponding value in Table 3. The reported value: “ $−162 \pm 17$ Gt a^{−1}”

should read:

“ $−160 \pm 17$ Gt a^{−1}”.

Second, the time period associated with the reported mass budget of $−124 \pm 39$ Gt a^{−1} is incorrectly given as:

“2012–2022”

and should read:

“2012–2021”.

These corrections ensure consistency with the values and time periods used in the analysis.

3 Correction to the Discussion

The same numerical inconsistency identified in the Results also occurs in the Discussion. The reported value:

“ $−162 \pm 17$ Gt a^{−1}”

should read:

“ $−160 \pm 17$ Gt a^{−1}”.

4 Correction to the ATM validation unit

During revision, the units used for the ATM validation were changed from millimetres to centimetres. The values and units presented in Fig. 3 are correct; however, the unit associated with one value reported in the Results was inadvertently not updated.

The reported value in the Results:

“ $0.3 \pm 11.3 \text{ mm a}^{-1}$ ”

should read:

“ $0.3 \pm 11.3 \text{ mm a}^{-1}$.”

This correction is limited to the unit reported for this value in the Results and does not affect the values presented in Fig. 3, the underlying validation results, or the conclusions of the study.

5 Correction to the comparison with Khan et al. (2025)

A correction is required for the mass-loss rate attributed to Khan et al. (2025). The published text reads:

“Our results for the 2003–2023 period, $-218 \pm 21 \text{ Gt a}^{-1}$, are consistent with Khan et al. (2025), who report $-217 \pm 16 \text{ Gt a}^{-1}$, further indicating a convergence of mass-loss estimates for Greenland.”

The corrected text should read:

“Our results for the 2003–2023 period, $-218 \pm 21 \text{ Gt a}^{-1}$, are consistent with Khan et al. (2025), who report $-211 \pm 15 \text{ Gt a}^{-1}$, further indicating a convergence of mass-loss estimates for Greenland.”

The corrected value results from calculating the annual rate from the total mass change reported by Khan et al. (2025) using the appropriate time period and rounding. This correction does not change the conclusion of the comparison.

None of the corrections described above affect the underlying data or analyses, or the overall conclusions of the study.