

We thank the editor and all reviewers for their feedback and appreciate the time and patience taken to review this work.

We have addressed all the corrections below in the revised manuscript, and we appreciate the editor for picking up on them.

R: *Throughout: Ensure that there is a space between values and units, e.g. 38 Gt instead of 38Gt.*

R: *Line 105: The reference to Nelder and Mead has an extra letter "Nelder and Meadf".*

R: *Code Availability section: Please write cite the Zenodo entry here as a normal citation (i.e., Chilcott (2025)) and place the full reference in the reference list.*

R: *Should the entry for Doerr be (following the guidance on their website):
Rauschenbach, Q., Dörr, J., Notz, D., and Kern, S., 2024, UHH sea-ice area product, 1850-2023, University of Hamburg, v2024_fv0.01, <https://doi.org/10.25592/uhhfdm.11346>, last access date YYYY-MM-DD [fill in date that applies]*

R: *The entries for Balaji et al. (2017) , Hausfather et al. (2022), Poltronieri et al. (2022), Rohde et al. (2020), and Screen et al. (2012) do not have dois.*

R: *The entry for Ritschel 2024 is incomplete.*
