

Dear editor,

During the proofreading phase of our manuscript, my co-authors and I discovered a small but important inaccuracy in the description of the ice-sheet model setup. The passage in question originates from an older model configuration; it does not affect the results, analysis, or conclusions of the paper.

We kindly ask for your permission to correct the wording before final publication.

The current two sentences (page 2, line 82ff in the latest proofread) are:

“Basal sliding is described via a pseudo-plastic sliding law combined with a simple basal hydrology model (Schoof and Hindmarsh, 2010; Aschwanden et al., 2013). This includes a spatially varying till friction angle dependent on bed elevation allowing lower yield stress at lower elevations resulting in a realistic velocity field for most Greenland (Aschwanden et al., 2016)”

We would like that these two sentences be replaced with the single sentence below (which reflects the actual CISM2.1 configuration used for this study):

“Basal sliding is described via a power-law basal sliding relation with a basal friction coefficient that can be calibrated locally (Lipscomb et al., 2019).”

These changes in the model description do not affect any other assumptions, results, or interpretations presented in the manuscript.

We apologise for the late correction request and greatly appreciate your help in making this minor change prior to publication.

Kind regards,

Konstanze Haubner (on behalf of all co-authors)