

Response to Editor

Thank you for the positive comments on the new version of our manuscript. We appreciate the feedback and have addressed the final minor points below in blue. We have also updated Figures 8-10 with a colour-blind friendly colour scheme.

General: In equations and variables, remove italics from multi-letter subscripts like "max", "ab", "sw", etc.

We have changed all the multi-letter subscripts so they are no longer in italics

L71: vertically 2-D → vertically integrated 2-D

This has been corrected.

L140: the effect water → the effect of water

Fixed.

L199: high-emissions → high-emission

Fixed.

L211: "Furthermore, ..." ← Consider revising this sentence, it is a bit hard to parse as it is.

Yes, this was quite a cumbersome sentence. We have re written this to be “*Calibrating each calving law to observations exposes distinct sensitivities to its respective tuning parameters, which can vary between the three glaciers.*”

L223: larger than → larger than for

Corrected.

L253: Using a hmin threshold above 90 m → Using a threshold of  $h_{\min}=90$  m

This has been updated accordingly

L275: high emissions → high-emission scenario

Corrected.

L278: ice shelf evolution → ice-shelf evolution

The hyphen has been added.

L289: climate forcings → climate forcing

Corrected.

L391: find extreme → demonstrate extreme

Updated, thanks this is better.