

The authors would like to thank the editor and the referees for their thorough review of this work. We have addressed the following minor changes suggested by Referee #2:

Minor and technical comments

L12: I think specially should be changed to ‘especially’

Corrected.

L154: Do you have a reference for Hansbreen flowing over hard bedrock?

We made an assumption based on the morphological information of Hansbreen (Grabiec et al., 2012), but we have not found a supporting reference to verify this statement. Accordingly, we have changed the sentence removing *considering* and replacing it by *assuming*:

~~Considering~~ Assuming that ice flows over hard bedrock at Hansbreen glacier...

L222: The sentence ‘Calving volume, i.e. ice mass loss due to calving events...’ should be changed as you do not actually calculate the mass of ice lost from calving (as far as I can see)

Corrected. The second part of the sentences has been removed since that mass is not calculated. It is just the calving volume.

L238: Out of the summer period... should be ‘Outside of the summer period’

Corrected.

L353: ‘provided we can count with..’ should be something like ‘provided we can obtain the...’ or ‘provided we can count ON having the ...’

Corrected.