

*Dear Alexander Robinson,*

*Thank you again for finding the time to examine our manuscript. We have taken up all your recommended changes and adjusted our article accordingly. Our responses are given in blue and italics compared to the comments which are given in black without italic font.*

*Best regards,*

*Lena Nicola*

To the authors,

You have done a thorough job responding to the reviewers' comments, which were largely positive. I believe the manuscript is near ready for publication, following some minor additional changes, listed below.

Best regards,  
Alex

Minor comments:

L2: "discharge, calving and melting" <= I think here you should either refer to "discharge and melting" or "calving and melting". In this context, discharge and calving are somewhat redundant.

*Corrected to "ice discharge and melting".*

L18: risen => raised

*Corrected.*

L37: is exceeding => exceeds

*Corrected.*

L49-50: condensates => condenses

*Corrected.*

L58: such calculation => such a calculation

*Corrected.*

L57: "T<sub>g</sub> = -33.6°C" <= I would just put Kelvin here directly, since this is the unit used throughout the manuscript, and even later in the paragraph. If you want to put degrees Celcius for reference, put it in the parentheses, instead of the other way around.

*Replaced as recommended, but kept the degrees Celcius as reference.*

L87: scenarios (SSP5-85). => scenarios (SSP5-85), respectively.

*Corrected.*

L87: For these => For each of these  
*Corrected.*

L88:  $28.8 \pm 12.6$  %, respectively. =>  $28.8 \pm 12.6$  %.  
*Corrected.*

L103: catabatic => katabatic  
*Corrected.*

L108: Such increase => Such an increase  
*Corrected.*

L113: among others => among other things  
*Corrected.*

L136: is changing => changes  
*Corrected.*

L173: from Earth System Grid Federation => from the Earth System Grid Federation  
*Corrected.*

L209: in parts => in part  
*Corrected.*

L213: 20th <= superscript "th". Also check throughout the manuscript for 20th and 21st, etc.  
*Corrected throughout the text (see revised manuscript).*

L240: ice dynamical => ice-dynamics based  
*Corrected.*

L311: This gets evident => This becomes evident  
*Corrected.*

L324-325: are affecting => affect  
*Corrected.*

L327: should therefore => should  
*Corrected.*

L330: the model => the models  
*Corrected.*

L360: dynamical => dynamic  
*Corrected.*

L361: For such analysis => For such an analysis

*Corrected.*