

Authors response to requested corrections:

*I have the following minor technical corrections that I ask you to implement:*

*Fig 2: This is a nice addition to the manuscript. I suggest for clarity to add in the figure caption that the schematic is a side-looking view of a glacier and that ice is shown in light blue.*

We have edited the caption to more clearly describe what is shown in the figure.

*line 184: Word missing "Unlike the previous [scenario?], the sediment..."*

Added the word 'scenarios'

*line 431: Typo "likley"*

Corrected the error to likely