

We thank the editor for her comments and the time spent on the manuscript!

Below are brief responses to the main points raised in the “technical corrections” stage. We fixed the smaller typos and similar issues marked in the pdf as suggested and went through the list of references to add missing bibliographical information.

- P2: Cicoira et al 2020 is the intended citation.
- Fig 1: Adjusted labeling of summits to be consistent across the panels. Changed red lines to not overlap the maps, fixed coordinates. Updated figure caption to include source of base data (SRTM) and explanations of all relevant colours of the permafrost index map.
- P12: rephrased sentence to be more precise. Values were aggregated within the area covered by the block positions as they are shown in Fig 1. A shapefile of these areas is included in the code repositories cited at the end and could be referred to here if needed.
- Fig 6 and 9: Changed “1997-06” label to “1997-2006”
- Fig 8: Made fonts bigger, moved axis labeling of the inset plot to the other side to avoid overlapping lines.
- P23: yes, “phase” here refers to a time interval.
- P34: yes, changed to Switzerland instead of CH.
- P38: yes, good point, changed sentence to reflect this.