

Dear Dr. Sandells,

Many thanks for your thoughtful reviews. We have updated our manuscript with the major revisions you have suggested. Please find our detailed responses below.

With best wishes,

Nick Steiner

**..include more detail on the methodology and broaden the manuscript into energy balance modelling..**

We have included 2 new sections describing surface energy balance modelling inputs (Section 2.4), and results and methodology (Section 3.3). We have included discussions these results in the abstract, discussion and conclusions. In addition, some detail on the SEB parameterization is included as in a Supplementary document.

**... include ... sub-region analysis ...**

We have included analyses of melt retrievals by glacio-climate sub-regions delineated by the Hindu Kush Himalaya Monitoring and Assessment Program (HiMAP) to aggregate Sentinel-1 melt retrievals across sub-regional delineations that are most relevant to current literature.

**Please could you ensure the correct Figure AR7 has been included (at the moment AR7 is a duplicate of Figure 8).**

We have ensured that all figures are correctly cited and captioned.

**AR3 is also the same as AR8 but has the same caption.**

We have removed any duplicate figures that appear in the author's response

**Please could you also revise Figure AR2 as similar coloured lines are difficult to distinguish in AR2b and AR2c (perhaps use different line styles).**

We have changed the color palette and differentiated subregions using multiple line-styles.