

Dear authors,

Thank you very much for your responses and the changes to the manuscript. I am happy to accept your revised manuscript subject to technical corrections, which are reported before.

1) I strongly encourage the authors to carry out a thorough proof-reading and correction of the revised text, as the new sections contain English and grammar errors and sentences that read awkward or not polished enough. I provide here few examples:

_New text in section 6.1

_"**an** change rate"

_"significant temporary snow cover at the non-glaciated Cordillera Barroso (subregion R3, close to the boarder to Bolivia) was observed during the dry seasons in 2015 and 2016 (Lèon et al. 2019), which fits to the suggested increased precipitation at high elevations **during after** 2013" - please correct the "during after"

_Line 380: "on average" instead of "in average"

_Please check your use of commas, such as on line 294: "It should be noted, that the uncertainty... ". I think a comma here, and in many other instances, is not necessary.

These are just examples and I request the authors to check all the text for spelling and English/grammar errors, as well as style.

_The new text added in response to the comment by Reviewer C. Huggel on the very small area change reported is not clear – the text in your response is clearer instead.

"The comparison of our area measurement of $1916.6 \pm 48.3 \text{ km}^2$ in 2000 and the 1st Peruvian Glacier Inventory (Hidrandina SA, 1989) in 1970 (2041.85 km^2) results in a retreat of -7% (-139.9 km^2 ; $0.2\% \text{ a}^{-1}$). However, the area changes amounts to -23%, considering only glaciated Cordilleras, which were completely mapped in the 1st Peruvian Glacier Inventory (UGRH, 2014). " ""

I suggest the authors change this into:

"However, not all Cordilleras were mapped completely by the 1st Peruvian Glacier Inventory. When considering only the glaciERISED Cordilleras which were completely mapped in the 1st Peruvian Glacier Inventory (UGRH, 2014), the area changes amount(NO s) to -23%".

The text should be improved by proof-reading by a native speaker for style and errors, and I strongly suggest the authors do this before resubmitting their final manuscript.

e.g.: "Thus, we conclude that the glacier area kept nearly stable after 2013 in subregion R3 and attribute this to the allocation...."

Please use a better expression for "the glacier area kept stable".

2) Since you have added this sentence in the abstract:

The mapping of debris-covered glacier extents is supported by SAR-coherence information

Following a suggestion by reviewer D. Quincey, please add the corresponding information also in the Methods section.