

## Author comments (AC) in blue

Dear authors,

thanks for submitting your revised version of the manuscript, addressing the referees' comments. This has greatly improved your manuscript! However, before the manuscript goes into production, I would like to have another round of revisions in which you pay close attention to the precision and conciseness of your language. Please review the manuscript carefully to eliminate unnecessary words, clarify ambiguous phrasing, and ensure that each sentence communicates its point as directly and effectively as possible. This final polish will help strengthen the impact and readability of your work.

Thank you for your kind feedback and for the opportunity to further improve our manuscript. Following your recommendation, we carefully reviewed the entire text with a focus on enhancing precision and conciseness. We have polished the language to eliminate unnecessary words, clarify any ambiguous phrasing, and ensure that each sentence communicates its point as clearly and directly as possible. We believe these final revisions have improved the overall readability and impact of the manuscript, and we hope it now meets the expectations for publication.

To give you a few examples where a clearer and more concise language is possible:

L205: The PSInSAR algorithm, as described by Rucci et al. (2012), Crosetto et al. (2016) and Poncoş et al. (2022), preserved --> The PSInSAR algorithm (references) preserved

It has been rephrased!

L210: An important number --> how many? Rather write, XXX out of YYY rock glaciers in the area...

It has been corrected! The number of rock glaciers was inserted.

L219: ... relatively homogeneous --> What does this mean in quantitative terms?

Unfortunately, RGIK (2023) does not currently provide a quantitative criterion for this classification. According to RGIK, a Moving Area (MA) is defined as "*an area at the surface of the rock glacier in which the observed direction and velocity of the flow field are spatially consistent and homogeneous during a documented timeframe.*" Throughout their review, Reviewer 2 consistently emphasized the importance of adhering to the definition established by RGIK. To improve clarity and conciseness, we removed the word "*relatively.*"

L233: had been surveyed ... --> were surveyed ...

It has been corrected!

L235: ... the roving receiver was moved to different points of interest in the field --> the roving receiver was moved in the field

It has been corrected!

L539: But rock glaciers experiencing very lower movement velocities --> But slow-moving rock glaciers were also documented in different ...

It has been corrected!

L550: ... revealed that, in many instances, the fronts of the rock glaciers --> revealed that the fronts of many rock glaciers ...

It has been corrected!

L556: The geophysical measurements performed in this study indicated the very low ice content --> Our geophysical measurements revealed a paucity of ice content

It has been corrected!

L566: ... the geophysical investigations presented in this paper --> ... our geophysical investigations reveal ...

It has been corrected!

L568: ... may be considerably lower ... --> use precise and concise language

It has been corrected!

There are currently countless examples where a more precise and concise wording would greatly enhance the readability of your text. Try to use quantitative information as much as possible while avoiding vague phrasing.

We have gone through the entire text and made corrections where we believed it was necessary.

And, once again, we appreciate your guidance in helping us strengthen the manuscript and believe these revisions have significantly improved its overall quality.

Kind regards,  
Flavius Sîrbu

(on behalf of all co-authors)