

Reply to Editor (Tobias Bolch)

Thank you for your careful check.

I have corrected as your comments and corrected part in the text were written in red.

In this reply letter, your comments are written in Times New Roman.

And [My reply are written in blue and Arial.](#)

Page 2 line 13 “are undergoing are in ” > [I have removed ‘are undergoing are in’](#)

Page 4 line 25 “all” You might probably have missed some. Just write "the".

> [I have corrected.](#)

Page 4 line 31-You need to start differently as you do not map these talus-derived rock glaciers. State the problem and then how you solved it, e.g. A challenge is the correct distinction of debris-covered glacier and rock glaciers as gradual transitions can exist under permafrost conditions, as e.g. described for the Pamir (Moelg et al.)

I do not agree that the separation is easy, so please write the statement with more care
> [I have revised as follows](#)

[‘A challenge is the correct distinction of debris-covered glacier and rock glaciers as gradual transitions can exist under permafrost conditions. Rock glaciers have terrains with ridges and furrow surface patterns \(Bodin et al. 2010\), while debris-covered glaciers have ponds surrounded ice cliffs. Those detailed topography cannot be detected by Landsat imagery because of low resolutions.’](#)

And also I have added following sentence at the end of the section. (Page 5 line 8)

[‘the method might lead to under- or over-estimate debris-covered glacier area.’](#)

Page 5 line 31 Hence would be the better term.

> [I have corrected.](#)

Page 7 line9 “to” > [I have corrected](#)

Page 7 line12 “This contradicts what you wrote before about the distinguishing of rock glaciers and debris-covered glaciers.” > [I have removed this sentence.](#)