

Dear Tobias

Please find below the response to reviewer's comments and editor's comments. Thank you once again,

Adina

1. Response to reviewer's comments

Comments on the revised version of the manuscript on "Spatial patterns in glacier characteristics and area changes from 1962 to 2006 in the Kanchenjunga-Sikkim area, eastern Himalaya", by Racoviteanu et al., submitted to *The Cryosphere Discussion* Damodar Lamsal, February 2015

In general, the authors' responses to my major comments are acceptable despite no response (and no correction in the manuscript and figure 11) on comments no. 4. As a matter of fact, those comments were solely meant to improve the manuscript further. Concerning my suggestion on expansion of extent of glacier change analysis (now domain 3), after the author's clarification, I can understand the difficulty to do so due to unavailability of Corona data to cover larger area. On the whole, I am pleased with the authors' response, clarification and inclusion of some additional information in the revised manuscript. A few minor corrections (given below) authors may consider before the manuscript is published.

Thank you once again for revising the new version of the manuscript. Please note we did expand the extent of the glacier analysis to the full extent of the Corona imagery (spatial domain 2) according to reviewer suggestion. Also we have addressed the editor's suggestions.

Please find the response to reviewer as well as editor's

comments in bold text below:

P3 L12: 1960's

Done

P6 L11 –16: If rephrased these sentences, it might be clearer ‘We used the bundle block adjustment procedure in LPS to simultaneously estimate the orientation of all the CORONA stripes on the basis of 117 ground control points (GCPs). Latitude and Longitude (x,y) information (of the GCPs) were extracted from the panchromatic band of the 2000 Landsat ETM+ image (15 m spatial resolution) on non-glacierized terrain including moraines, river crossings, and outwash areas, whereas elevation information (z) were extracted from the SRTM DEM v.4 (CGIAR-CSI 2004).’

Ok, change made

P7 L2: ‘I’ is missing in ‘In addition’

Corrected.

2. Response to editor's comments:

- **Figure 1: The extent of Corona was already part of figure 1, but at editor's suggestion we have added a legend for the three spatial domains, and have adjusted the text for the caption.**
- **References: now formatted using TC endnote style.**