

Interactive comment on “Periodic Glacial Lake Outburst Floods threatening the oldest Buddhist monastery in north-west Nepal” by J. Kropáček et al.

Anonymous Referee #3

Received and published: 22 January 2015

I will defer to the far greater technical expertise of the other reviewers, but for my part I found this study carefully undertaken and the paper generally very well written. I have only a couple of comments:

1. In section 3.4, how was the required minimum stereo matching score of 0.3 determined? Is this simply standard practice, or should there be a supporting reference?
2. In section 4.6, the topic of the second paragraph is whether or not the supra-glacial lake can be filled merely by precipitation. The paragraph doesn't seem to answer that question, though, as it doesn't discuss the maximum expected precipitation on the

C3165

glacier. Section 3.5 indicates that precipitation rates were studied, but no real answer to the question emerges until the second paragraph of section 5.

3. I think the paper would benefit from a more generous exploration of potential mitigation measures.

4. Minor editing notes:

- a. In the first sentence of section 1: "instable" is a word in English, but unless it has particular significance as a term of art in this field I think "unstable" would be better.
- b. In the second sentence of 3.2, "off-shelf" ought to be "off-the-shelf".
- c. The third sentence of the third paragraph of 3.4 is not clearly written. I think you want to say something like "Each pixel value determined to be an outlier was replaced by a pixel value determined by taking the mean of the values of all adjacent non-outlier pixels."

Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., 2, 6937, 2014.

C3166