

Interactive comment on “Potential flood volume of Himalayan glacial lakes” by K. Fujita et al.

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I found the paper very interesting and challenging. The analyzed topic is relevant and a challenge for those mountain region characterized by several glaciers and high altitude settlements. Papers following this investigation line are more than welcome. The real addressed value of this work is the objective, fast, and low cost remote sensing approach for the analysis of the potential flood volume of glacial lakes. The fact that more than 2,200 glacier lakes have been quickly analyzed in order to have a preliminary view about the potential flood volume, is really relevant. Having said that, the paper still needs to be improved in few sections. The reviewers in the open discussion provided very helpful advices that surely will help the authors in improving their manuscript. In my opinion in the text it should be better emphasized that (1) this paper is just a preliminary and coarse approach to a more detailed field analysis, and several other

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information (eg. soil properties, details of local topography) are necessary, (2) also lakes with a volume smaller than 10 million m³ are critical, (3) that the future steps are to improve the details of such collected information for a better analysis on flood hazard and risk for such mountain regions.

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