

Interactive comment on “Potential slab avalanche release area identification from estimated winter terrain: a multi-scale, fuzzy logic approach” by J. Veitinger et al.

Anonymous Referee #1

Received and published: 30 December 2015

General comment The paper presents an approach to derive the avalanche release areas by using a fuzzy logic approach. The paper is well written and the results are supported by a consistent analysis and a related discussion on the advantages and disadvantages of the proposed method. Before the publication, only some points need to be clarified. Specific questions Below detailed comments. p.1, abstract: the abstract shall report at the end some quantitative results of the analysis. p.3, Introduction: the last part of the introduction shall be devoted to the explanation of the novelties of the proposed method with respect to the stat of the art. p.3, Section 2: the authors shall add a flow chart which describes the steps of the proposed approach. This will help a lot the reader. p. 6, line 378: the authors shall indicate from which procedure and/or

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model these parameters are obtained. p.9, section 2.5: here the authors describe the data used for the model. Could the authors comment on which data have been used for the setup of the model (training) and which for the validation? Are ground data used in the training of the algorithm? How is the snow depth evaluated? p.12, line 698-700: as indicated here the algorithm when applied to a new case needs some adaptation. The authors shall clearly report which parts need adaptation/calibration so that possible users can evaluate it. This comment shall also be reported in the conclusion, where the authors shall indicate what is needed to use this approach to other areas and if the approach could become operational.

Technical comments p.5, line 308: in 1.5 please substitute the comma with a point. p.9, line 574: delete will.

Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., 3, 6569, 2015.

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