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Natural Hazards and Earth System Sciences
Discussions

Interactive comment on "Assessment of Landslide Susceptibility using Weight of Evidence and Frequency Ratio Model in Shahpur Valley, Eastern Hindu Kush" *by* Ghani Rahman et al.

Anonymous Referee #1

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The paper NHESS-2020-167 deals with approaches to assess landslide susceptibility for an area of Pakistan. The methods are well-known, hence some novelty on the discussion and comments are required. In the following my comments:

1) You have to add the description of the geological setting in the paragraph of the study area. 2) It is very important that you describe what kind of landslides you are studying. You need to classify them (follow Hungr et al. or Varnes Classification). The type of landslide also affects the choice of the parameters to adopt for modeling. This will permit you to motivate the chosen parameters (see next point) 3) The adopted parameters require few words of motivation on their choice! 4) You wrote about field

survey, some figures of the studied events will definitely enrich the paper. 5) I did not understand the triggering of these landslides, earthquakes? In case of seismic-induced events probably a seismic hazard map could be added as parameter. 6) In the resulting map faults strongly control the results! I expect that they could have an important role if you deal with rockfalls and close to faults the rock mass is more fragmented, otherwise I can't understand their role very well. 7) What 's the criterion used to divide the susceptibility ranking? This is very important, several researchers worked on this topic.

Minor issues: line 46 pay attention to brackets line 113 almost every? what?

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