Nat. Hazards Earth Syst. Sci. Discuss.,
https://doi.org/10.5194/nhess-2018-250-RC2, 2018
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Natural Hazards and Earth System Sciences
Discussions

Interactive comment on "Evaluating earthquake-induced rockfall hazard by investigating past rockfall events: the case of Qiryat-Shemona adjacent to the Dead Sea Transform, northern Israel" *by* Mor Kanari et al.

Anonymous Referee #2

Received and published: 13 December 2018

General comments The paper proposes an analysis of earthquake-induced rockfall hazard mainly by using past rockfall data and modelling rockfall trajectories in a rocky area overhanging a town in northern Israel. The topic could be interesting to NHESS readers, if some sections are more clearly presented and organized, in particular, the results. For this reasons, a major revision is needed before its being accepted for publication.

Specific comments Abstract - I suggest rewriting the abstract because it is mixed up. It lacks a framework. Aims and methods are not clearly defined. Introduction - It is

too brief. I suggest rewriting this section in order to enlarge the scientific literature discussion, for better insert the proposed study in the methodological state of the art. Moreover, the authors jump from the presentation of the background to presenting their work without any connection. Methods – I suggest inserting, especially for paragraph 3.1, literature references about the methodology based on the correlation block distribution-dimension. Results and discussion – These sections are subdivided into too subparagraphs. The readability and understanding of the research outputs could be compromised and made confused by the organization of these sections. I suggest to reorganized these sections.

Technical corrections Pag. 1 line 26: better "a rocky mass" than "the bedrock". Pag. 2 line 23: replace the colon with a dot. Pag. 3 lines 23-24: better "geometry and properties of in-situ rocky mass and of detached blocks". Pag. 3 line 27: please put the references into parentheses. Pag. 3 line 29: replace the colon with a dot. Pag. 4 line 10: how were the source areas identified?

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