

Interactive comment on “Avalanche situation in Turkey and back-calculation of selected events” by A. Aydın et al.

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Reply to Anonymous Referee 1:

I would like to thank for the reviewer’s valuable comments to improve the quality of the paper. The paper has been thoroughly and carefully revised according to the reviewer’s comments. The responses on the specific comments raised by Referee 1 are summarized below.

Referee 1 Comments: The researchers focused on the avalanche problems associated with climatic conditions particularly for Turkey in this study. They proposed applicability of an avalanche model integrated with DEM in order to account for the two previously occurred events. The study is overall well prepared to fulfill these proposed purposes.

C125

It also touches the considerable informations about the geological and geomorphological structure of Turkey in the Introduction stage. However, the suggestions are listed below to correct and support the Scientific frame of the paper. -The authors could have mentioned about the geological and geomorphological characteristics of two specific regions where the avalanche disasters happened besides the discussion of whole Turkey within the “Introduction” stage.

Author’s Reply: Many thanks for the constructive comments. Regarding the geological and geomorphological features of the specific regions We would like to emphasize that within the Introduction stage we describe the elevation and slope of the Turkey in order to depict how Turkey prone to avalanche events. Particularly for two specific region we describe the shape and the slopes also (page 588 line 2-4 and page 589 line 7-8). We think that present information is sufficient enough to understand the two avalanche paths. Further information might be redundant. Besides, geological and geomorphological features itself are not the reason for the avalanche. We talk about very small areas and geological and/or geomorphological situations may not influence/explain the avalanche phenomena.

Referee 1 Comments: The usage of “verb tenses” are wrong in some sentences that are describing the previous circumstances of the places which were exposed to avalanche disasters; such as an example: “All residential structures were constructed from bricks and wooden material. Only mosque was constructed of masonry” in lines 11 and 12 of page 588. These sentences should namely be corrected as “All residential structures had been constructed from bricks and wooden material. Only mosque had been constructed of masonry”. Similar existing faults are to be overcome by the authors. Author’s Reply: Corrected as suggested.

Referee 1 Comments: When pointing the scientific parameters, they should be preceded by a semicolon“;” or they should be in paranthesis (), to indicate private emphasis on, such in the line of page 589.

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Author's Reply: Corrected as suggested. All Scientific parameters where put in parenthesis ().

Referee 1 Comments: The modelling illustrations are also well presented and can be kept as are. My opinion suggests that the paper will be ready for publishing after the minor refinements stated above.

Author's Reply: Many thanks for kind comments. All corrections will submit the editorial Office as soon as other comments received.

Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., 2, 581, 2014.