

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

Anonymous Referee #1

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The researchers focused on the avalanche problems associated with climatic conditions particularly for Turkey in this study. They proposed the 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. 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.

C70

- The usages 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.

- When pointing the scientific parameters, they should be preceded by a semicolon “;” or they should be in parenthesis (), to indicate private emphasis on, such as in the line 19 of page 589.

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.

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

C71