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www.nat-hazards-earth-syst-sci-discuss.net/2/C3528/2015/

Natural Hazards and Earth System Sciences
Discussions

Interactive comment on "A feasibility study on the influence of the geomorphological feature in identifying the potential landslide hazard" *by* M. H. Baek and T. H. Kim

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Q-1. Landslides and in particular source areas are not shown in figure 11, 12, 13 and should be mapped.

A-1. Authors indicated landslide initiation zones and their source materials propagating downward in Figures 11 to 13, especially figures describing after the landslides (subfigure c).

Q-2. The methodology for the definition of the planarity thresholds is not defined.

A-2. Authors added some information with regarding to determine thresholds of each

Planarity. These are considered by an appropriate representation of characteristics of different units in the study area such as major valleys, secondary tributaries, gently rolling surfaces, and smooth surfaces. Authors also mentioned references that we follow. You can see this at lines 142 - 144.

Q-3. Statistical analysis of the distribution of observed landslides / source areas in the classes of planarity should be mapped.

A-3. Authors carried out a bivariate analysis to find a relationship with other terrain features. Authors related slope values to Planarity. You can find these newly added sentences at lines 256 - 268.

Q-4. Evaluations of the performance of the planarity for the identification of landslide initiation zones should be carried out.

A-4. Authors indicated this issue (performance of Planarity in identifying distinct geomorphological features) in "4. Results and discussion". You can find this at lines 242 - 255.

Please also note the supplement to this comment:
http://www.nat-hazards-earth-syst-sci-discuss.net/2/C3528/2015/nhessd-2-C3528-2015-supplement.zip

Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., 2, 7119, 2014.