

***Interactive comment on* “Evaluating performances of simplified physically based models for landslide susceptibility” by G. Formetta et al.**

Anonymous Referee #2

Received and published: 7 February 2016

GENERAL COMMENTS This manuscript (MS) presents an interesting and important topic on GIS-based landslides susceptibility mapping. However, the MS has some flaws that need to be taken care of.

- (1) Geology, hydrogeology and land cover are important factors in landslide susceptibility study. As mention in the Abstract of this MS, the authors only mentioned “hydrology, geotechnical science, geomorphology, and statistics.”
- (2) The MS has never mentioned the types of landslide (or failure mechanisms), e.g. translational or rotational landslide that they were modeling. It is important to identify the landslide type first and then select the proper physical model.
- (3) The MS keeps referring to “shallow landslide”. What is the definition of “shallow

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landslides”? What is the failure mechanism of a “shallow landslide”?

(4) There are so many grammar errors and typos, which distract me from reading the MS. I list examples of these errors and typos under “Suggested Edits”. I don’t think I found all of them. I strongly suggest that the authors should have someone editing their writing carefully in order to make this MS publishable.

Specific comments and suggested edits can be found in the attached pdf file.

Please also note the supplement to this comment:

<http://www.hydrol-earth-syst-sci-discuss.net/12/C6637/2016/hessd-12-C6637-2016-supplement.pdf>

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 12, 13217, 2015.

HESD

12, C6637–C6638, 2016

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