

Interactive comment on “Probabilistic modelling of rainfall induced landslide hazard assessment” by S. Kawagoe et al.

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Probabilistic modelling of rainfall induced landslide hazard assessment By S. Kawagoe, S. Kazama, and P. R. Sarukkalige

Thank you very much for your reviewer comments to improve the quality of the manuscript. We will address each of your points as below.

1. The paper aimed to evaluate the landslides frequency and distribution uses statically approach. The results show the highest landslide hazards over Japan such as Honshu and Kyushu Islands, but they do not discuss about the result in Northern region (Hokkaido Island). I think the paper must be discussing the result in Hokkaido Island

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because it is a large.

Certainly Hokkaido is a large area. Anyway rainfall data shows that Hokkaido does not experience heavy rainfalls events. Therefore results show very low probability in Hokkaido area. As our main discussion is on higher probability areas, we did not include any discussion on Hokkaido region.

2. For statistical approach, I would like to know are there any constraints in this method? If so, could the author please discuss on this issue.

Main constrain is the resolution of data which leads to different resolution of output hazard maps. We have discussed this issue and showed that available coarse resolution data is capable enough to produce “useful” maps.

3. Finally, there are some typing mistakes that need to be revised e.g. page 732 line 14. – Authors write “AMeDAs dta set from 1980 to” it should be “AMeDAs data set from 1980 to”.

We have corrected these typing mistakes.

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 7, 725, 2010.

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