

Interactive comment on “Initial Assessment of Landslide Prone Area using Soil Properties” by Yanto et al.

Yanto et al.

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We thank for the valuable inputs from Referee #1. This will definitely improve our paper. The followings are our response. “ Among three interpolation methods, Co-Kriging is the only method requiring co-variate. This method is basically proposed to improve the interpolation results as this method can capture any related information from co-variates related to the variate, which is not the case of two other methods, IDW and Kriging “ We will add the interpolation method in the title as well as the study area “ Applicability of this findings – i.e. what type of the best interpolation method – is highly dependent on the data characteristics. However, we believe that the use of soil thickness/depth as initial indicator to assess landslide prone area is applicable in other study areas “ We will add the method to acquire the soil properties data. In addition,

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we will also add more information on landslide data. We will add a table containing information of time, location and the cause of landslide in the study area and 2 pictures of landslide events in the study area “ As we performed cross validation, therefore all data points are used for error estimation “ We used the term of events/occurrences as not all these events is disastrous “ We think that the description of paper structure is necessary to provide brief overview on what we present in the paper “ Yes, subchapter 4.1 corresponds with subchapter 3.4. We will change the subtitle accordingly “ We will make additional simple statistical analysis as suggested “ We will add sentences to clarify “tectonic and extrusive lithology” “ We will check the grammar carefully

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