

## ***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-variables 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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