Interactive comment on “Structurally controlled hazard mapping of Southern Leyte, Philippines” by P. K. Luzon et al.

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We would like to thank you for taking the time to review our paper. All your comments were taken positively, and we would like to address each of them accordingly;

1. As presented by most papers considering structurally-controlled landslides, the study only considered translational slides, with either wedge, planar or toppling type of failure due to presence of discontinuities. It is not encompassing circular and complex types of landslide.

2. Thank you for pointing that out. We hoped to emphasize the presence of regional discontinuities in the area using Figure 2. However, it didn’t work that well.

3. The raw data is acquired using Intermap’s STAR-3 InSAR system with an X-band...
InSAR in a Learjet 36A aircraft flying 4-12 km above mean sea level. A part of it is a digital surface model (DSM). These are processed to digital terrain model (DTM) where vegetation and infrastructures are removed using filter algorithms leaving a representation of the actual terrain. This paper utilizes the DTM of the area as it shows a more distinct ground features needed. It is not within the scope of the study to compare the discontinuities that would be detected if DSM was used.

4. We hope to improve it as recommended.

5. Due to the structural setting of the area, the study utilized a comparative approach of what were measured on the ground and identified using the method presented. The identified discontinuity sets also followed that of a left lateral strike slip fault's (PFZ) usual rose diagram. As stated in the paper, the method assumed the homogeneity of these features in the region.

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