

Interactive
Comment

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

Anonymous Referee #2

Received and published: 8 December 2015

This paper covers a topic relevant for natural hazards scope of NHESS and demonstrates an application of InSAR data to mapping of potential rock slides in the Phillipine region of Souther Leyte. The paper contributes to the body of knowledge on the susceptibility of this region to landslides and it also highlights the possibilities and limitation of the InSAR data and numerical methods to identify the spatial extent of the hazard areas.

Although the paper is generally well written it is not clear why the description of method to delineate propagation extent and resulting map of potential rock slide and runout zones were included into a discussion, rather than incorporated in the methods section and results. At the same time there is very little actual discussion regarding the uncertainty associated with the produced maps and whether the spatial extent might have

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been be overestimated.

There are few formal issues with this paper as well: It appears that some of the text is from a proposal or project report - this text should be edited and updated (e.g. use of future tense for work that has already been done in section 1.4, is confusing).

Text on p. 3, l 97-100 has confusing sentence structure, same for p. 3 l. 118 and 121

There are missing references on p. 3 l. 115, missing year for reference p. 3 l. 86, 123

Number of minor grammatical errors needs to be fixed as well.

Fig. 2 It is not clear what is gained by showing the topography under 4 illumination directions - if this figure is kept, it needs to be better described. Note that there are tools which combine multiple illumination angle in a single image which may provide more information than the presented set of 4 images. Fig. 7 should have a more complete caption - explain what is in the 1-4 diagrams in relation to the 3D view. All maps should have a barscale and a legend.

Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., 3, 5891, 2015.

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