

Interactive comment on “Analysis of instability conditions and failure mode of a special type of translational landslide using a long-period monitoring data: a case study of the Wobaoshi landslide (Bazhong city, China)” by Yimin Liu et al.

Anonymous Referee #1

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Submitted paper describes very interesting and specific natural hazard phenomena. Extensive work was done, and a lot of significant data were gathered during the long-term geotechnical landslide monitoring. Although the topic is suitable for publication, improvement of the current manuscript is needed. I suggest reconstructing and rewriting of individual chapters. Language, in general is bad and some sentences are unclear. Some professional terms are incorrect. Proofreading of the final version is necessary. In the Introduction I expect a little more information (what, where, why) and presentation of the main aim of the paper. Does the landslide threaten something?

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Why it is important to be studied? Introduction describes several detail characteristics of landslide which would be more suitable for the chapter - Results. In the Landslide characteristics the geological structure is not clearly presented (i.e. not clearly summarized after Chen et al., 2015). Some other: line 122: “overall occurrence of the rock formation” = “dip-and-strike of beds”, line 128: “planar graph” -> “topographic map”; Fig. 3: arkose -> sandstone in the text; “rain gage -> rain gauge” etc. Monitoring results and numerical modelling results are clearly presented (graphs, models). Chapter Discussion is clearly written. The system of long-term gradual opening of the cracks and short-term opening and closing of cracks (blocks tilting) (very characteristic on the graphs) could be described more in detail. Any possible mitigation measures or additional monitoring suggested? However, I support the publication of this interesting topic and advise the major revision of the manuscript.

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