

Interactive comment on “Study on monitoring and numerical analyses of groundwater variation and inclinometer displacement induced by heavy typhoon rainfall” by Ching-Jiang Jeng and Chia-Yu Yang

Ching-Jiang Jeng and Chia-Yu Yang

jcjh@cc.hfu.edu.tw

Received and published: 22 January 2019

We would like to thank the Referee for the valuable comments and suggestions on this research. This study collects the comprehensive monitoring data including rainfall, groundwater and slope displacement. However, partial data are derived from the case study, the classification of rainfall types, behavior of groundwater variation and displacement induced by heavy rainfall (during typhoons) are analyzed and discussed in detail. We believe that the mechanisms of slope displacement related to groundwater variations discussed in the study are valuable, and can be a reference for the study

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on similar slopes. The authors have monitored this site and collected the information over more than ten years. Therefore, results through series of studies have been produced gradually over the period. The topics of each reference listed in this paper are different from the results of our research in each stage. Many of them were presented in Chinese language, and this may cause misunderstanding to the Referee. It should not be considered as self-plagiarism. Thanks for the Referee's comments. Further, specific literatures on hydrogeology and slope stability of deep-seated landslides will be added in the revised manuscript. The analysis results will be modified in the revised manuscript as well.

Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., <https://doi.org/10.5194/nhess-2018-35>, 2018.

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