

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

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We would like to thank Professor D.-W. Chang for your valuable comments and suggestions on this research. We will add up some suggestions based on the observations obtained from the study case in the revised manuscript. The effectiveness of the two drainage catchpits at the study site will be discussed more detailed as well in the revised paper. A three dimensional analysis has been carried out by using the discrete element method by the PFC 3D software, and the results have been presented in another published paper (as follow). Some description will be included and listed in the Refer-

ence chapter in the final manuscript. Reference: Chia-Han Tseng and Yu-Chang Chan and Ching-Jiang Jeng and Yu-Chung Hsieh, (2017) "Slip monitoring of a dip-slope and runout simulation by the discrete element method: a case study at the Huafan University campus in northern Taiwan," *Nat Hazards* 83(9) DOI 10.1007/s11069-017-3016-y, Springer. Published on line, 21 August, 2017.

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