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Natural Hazards and Earth System Sciences
Discussions

Interactive comment on "Real-time monitoring and FEMLIP simulation of a rainfall-induced rockslide" *by* Zhaohua Li et al.

Zhaohua Li et al.

lizheng6224166@126.com

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Thanks for your kindly comments, the errors will be corrected in the manuscript. Regarding the installation of the CRLD, the borehole is drilled through the geological discontinuity as shown in Fig. 1. The sleeve pipe is anchored in the borehole by the grouting material generally with a thickness of 14.5 mm, and one end of the stands is fixed on the slope surface. Regarding the safety factor, the second order work can describe the stability of the structure in the Lyapunov sense, and not only a limit equilibrium state. It is thus more general and more physical. In addition, the safety factor used in the FLAC3D software cannot solve the large strain problems, but it is not an obstacle for the second order work. Thanks for your valuable suggestion, more detailed discussion about the safety factor will be given in the manuscript.

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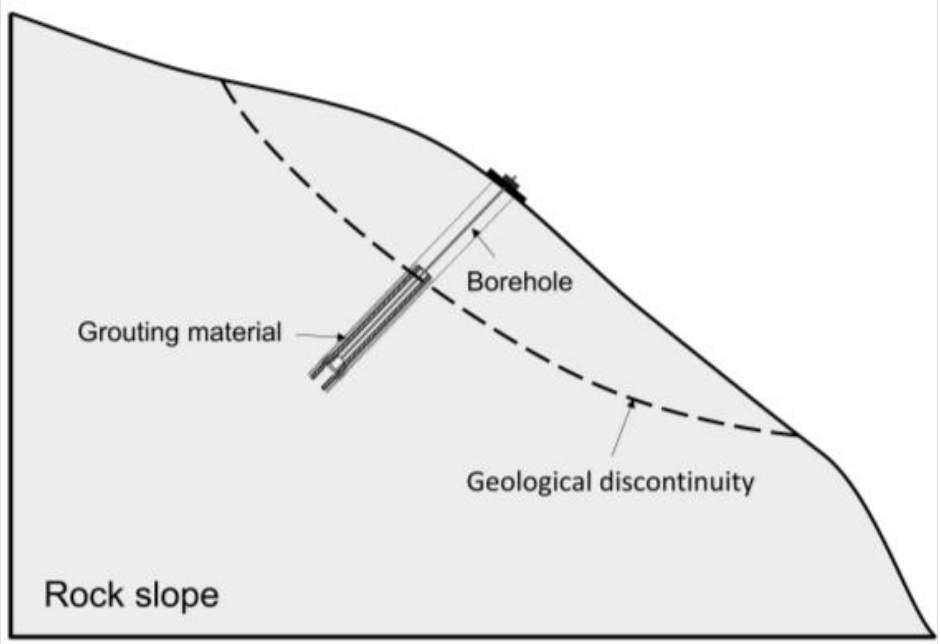
Borehole
Grouting material
Geological discontinuity
Rock slope

Fig. 1.