

Interactive comment on “Movement of the Donglingxin landslide, China, induced by reservoir inundation and rainfall” by J. Yu et al.

J. Yu et al.

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Dear Referee Thank you very much for your constructive comments and valuable recommendations. My responses to several comments are listed below: 1.I have added the review of previous work and the related references in my paper. 2.“Reservoir fluctuations” is more suitable than “reservoir inundation” in title, I have corrected it. 3.Deformation of the deposit is obvious in the upper part. Some large cracks appeared in the edge of the upper part. Cracks can also be observed in the drainage tunnel which excavated through the bottom of the landslide,and these cracks developed along the sliding zone, accordingly, the deep sliding surface is translational slide. 4.The content rate of rock in the lower part is high, it consists of cataclastic rock mass, broken stones

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and silty clay. The underground water level is almost consistent with the change of the reservoir level, so I think the permeability of the lower part of the landslide is good. Water gathered within the upper part after the rain, and the underground water level declined after a long time, so I think the permeability of the upper part of the landslide is poor. The lower part is the front of the deposit, the upper part is the back of the deposit, they are shown in fig 1. 5.Line12 in abstract, “filed” is “field”, I have corrected it in my paper. 6.Line4 in P2545, “From May 2010 to May 2011” is “From May to June 2010”, I have corrected it in my paper. 7.Line6 in P2545, “Since May 2010” is “From May to June 2011”, I have corrected it in my paper. 8.“inundation with rainfall” means rain and inundation occur simultaneously, it is a calculation condition. I hope that my revised version will be satisfactory for publication in NHESS. Great thanks to you and the referee for the time and effort you expended on this paper.

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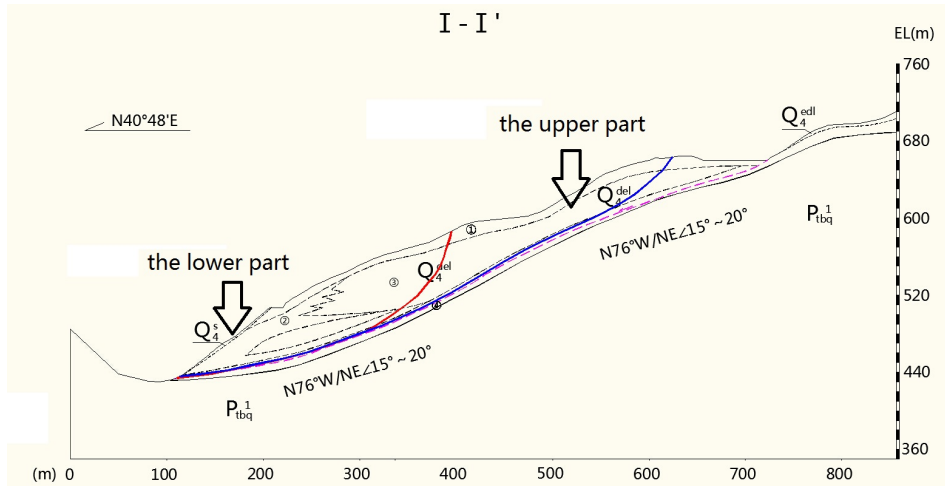


Fig. 1.