



Interactive  
Comment

# ***Interactive comment on “Improvement of shallow landslide prediction accuracy using soil parameterisation for a granite area in South Korea” by M. S. Kim et al.***

**M. S. Kim et al.**

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Dr. D. Milledge, We would like to thank for your constructive and detailed comments for this manuscript and we will follow your comments for making a high quality paper.

Major concern The main methods used in this paper considered from suggestion from Iida, 1999 (CATENA) and Paolo D’Odorico, 2003 (Water Resource Research) and, we wanted to find out the values of cohesion and internal friction angle to improve prediction accuracy. Thus, a split test (with a training set of observed landslides and a second set for model testing) what you suggest is will be reflected using ROC analysis

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in this manuscript.

Some problems that used equation in this manuscript.

1) We made a mistake and we will modify a word “perpendicular” to vertical. 2) We will clearly explain on the cohesion and completely define it. Introduction part will be modified as your comments. 3) We will make Fig. 5, 8 and 10 to one.

Specific comments: C43 ~ C47 1) We will make a graph of Area under ROC curve and insert it and, we will check unclear parts of this manuscript again and explain it more in detail. And we will delete sentences included parts such as “climate change” and modify it. “Muss” will be changed to Mudd. 2) A word “previous rainfall” is a missing word and we will check it again. This manuscript will be modified as your comments. 3) The paper (Milledge et al., 2012) recommended from you is very helpful advice for us, we have deep appreciation for your kind and detailed comments.

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Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., 3, 227, 2015.

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