

## ***Interactive comment on “Distributed specific sediment yield estimations in Japan attributed to extreme-rainfall-induced slope failures under a changing climate” by K. Ono et al.***

### **Anonymous Referee #1**

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The authors introduce extreme-rainfall with return period of 5 years. Extreme rainfalls are usually those with return period equal or larger than 50 years. The rainfall considered by the authors could be called significant. Otherwise the authors should justify the use of adjective "extreme".

The sentence (pag. 7127) "For 1024 AMeDAS meteorological station throught Japan, GEV analysis generates 1024 extreme rainfall values" could be misleading. GEV analysis has been carried out considering the whole data set of the 1024 stations or applied indipendently to each station? The authors should clear.

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Part of this work, i.e. the Probability model for slope failure, is in a more detailed and exhaustive form in the paper of Kawagoe et al. (2010). The authors should link more directly these parts to this previous paper. It seems that these parts are new.

Pag, 7126, line 17 substitute "with a" with "by using"

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Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 7, 7121, 2010.

**HESD**

7, C3983–C3984, 2010

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