

## ***Interactive comment on “A Remote Sensing–based Intensity-Duration Curve, Faifa Mountains, Saudi Arabia” by S. Karki et al.***

### **Anonymous Referee #2**

Received and published: 19 December 2018

Dear Author, I read your paper about the identification of rainfall threshold for the Faifa Mountains area. I believe you carried out a good job, the paper is well written and quite clear. I have some remarks about it: Abstract is way too short, please expand it. Introduction section is missing a literature review of previous work on the same topic, you have to add it; I suggested some reference papers to start your literature review. Acronyms have to be declared the first time you write them (e.g. TRMM, MAP, etc...) You did not described how you defined the I and D values of landslide events; have you considered all the rainfall recorded in a fixed time span? Did you use a subjective approach? Are Pixel based thresholds the same for all pixels or do they vary from pixel to pixel? In figure 9 you showed a threshold defined with 1 point! This is not correct from a statistical point of view. Discussion and conclusion are in the same

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section: they should be in separated sections. Please find more detailed comments in the attached file. regards

Please also note the supplement to this comment:

<https://www.nat-hazards-earth-syst-sci-discuss.net/nhess-2018-282/nhess-2018-282-RC2-supplement.pdf>

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Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., <https://doi.org/10.5194/nhess-2018-282>, 2018.

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