

Interactive comment on “Rapid Detection and Location of Debris Flow Initiation at Illgraben, Switzerland” by Fabian Walter et al.

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Received and published: 20 December 2016

Dear Editor,

We thank you for considering our submitted manuscript and the referees for providing very constructive and critical feedback. Both referees listed numerous references, which we were unaware of and consequently did not cite or discuss. In a revised manuscript version, we intend to rectify this shortcoming. In particular, Referee #1 pointed out that our proposed amplitude decay location has been implemented for detection and monitoring of lahars. Consequently, we will modify the scope of our manuscript and frame it as a study on implementation and testing against ground truth in an early warning context. Similarly, we will review details on debris flow initiation as suggested by Referee #2.

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Furthermore, we intend to perform additional analysis steps as suggested by Referee #1. Specifically, we will investigate site effects and the robustness of the location results, in particular the sensitivity of the source strength parameter.

Given these modifications and the ones discussed below, we are confident that our manuscript will undergo significant improvement and request the opportunity to resubmit.

Fabian Walter (on behalf of the author team)

Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., doi:10.5194/nhess-2016-321, 2016.

C2