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Natural Hazards and Earth System Sciences
Discussions

Interactive comment on "Multidisciplinary Approach to Rainfall-Triggered Rockfalls: the Case Study of the Disaster of the Ancient Hydrothermal Sclafani Spa (Madonie Mts., Northern-Central Sicily, Italy) in 1851" *by* Antonio Contino et al.

Anonymous Referee #1

Received and published: 10 February 2017

Dear authors thank you for your approach to reconstruct the circumstances of historic rockfalls. The procedures presented provide a valuable description on how to perform such an analysis.

Your title starts with "multidisciplinary approach to". In the article itself you did not go into detail of the multidisciplinarity. Therefore, I suggest to change the title to "Historical analysis of rainfall-triggered....".

P1L27-29: I do not see the relevance of this paragraph for the article and I would remove it. P1-2L30-44: Are these paragraphs relevant for the article? They are more or less a definition of landslide processes, aren't they? You could bring P2L45ff first and then explain the landslide definitions that they are later used in the article (are they?)

P2L70: "1.60m" above which level?

P7L228: "6,7" –> "6.7"

P8L252 ("understanding of the rockfall event") You did a nice analysis regarding the geology, landscape, the rainfall event and of the buildings. All based on a comprehensive literature research. The article title, however, promised information on "rockfalls". This would mean, mass involved, The event itself has not really been described yet. If possible, can you give some estimations on total height difference/horizontal distance/shadow angle/rock mass etc.?

P10L337: If more than 60000m2 are covered with accumulated rock material the event might not been classified as simple rockfall but a rockslide? What would you recommend?

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