

Interactive comment on “Experimental and numerical study on the design of a deposition basin outlet structure at a mountain debris cone” by B. Gems et al.

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Received and published: 18 November 2013

Dear Editor,

many thanks for the paper review and management so far and your comment on our paper. The issues, mentioned by Bruno Mazzorana (referee 1) and the anonymous referee 2, will be extensively explained within the final version of the manuscript. Thus, basic extensions of the manuscript pertain to the chapters 2.2 (Bed-load management within the framework of flood protection), 4.1 (Model set up), 5.1 (Obtained results – suggested design of the closing-off structure) and 5.2 (Applied methods/models).

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Concerning your suggestion of reorganizing the chapters “results” and “conclusions”, I would rather reorganize the last chapter into a “Discussion and conclusions” chapter. This is due to the fact, that the aspects mentioned in chapter 5.1 cover both the numerical and the experimental model and quasi summarize the main findings from modelling. Further, the impacts of the optimised design layout on sediment continuity and on the ecological conditions will be characterized within chapter 5.1.

Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., 1, 3169, 2013.

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