

Interactive comment on “The alerting system for hydrogeological hazard in Lombardy Region, northern Italy: rainfall thresholds triggering debris-flows and “equivalent rainfall” method” by A. Cucchi et al.

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Dear Anonymous Referee #2,

thank you for your April 8th comment. We appreciated you have found some interesting points in the paper and we intend to take note of your indications concerning the article form.

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Regarding your comments:

- 1) We will try to improve the English of the manuscript;
- 2) We have already uploaded a “Supplement” with:
 - 2.1) an “Introduction” that describes the research framework within our work is placed in;
 - 2.2) a “Study Area” description (with the geographical, geomorphological and climatological context).

Anyway we may review it fully later;

- 3) We will try to better describe the methodology;
- 4) We did not exactly understand which results are not clearly presented: the regression analysis has returned different regression models (shown in a Table #1) with descriptive synthetic parameters (determination coefficient, SD, risk level). They have been discussed to identify the best “critical detachment” model. Perhaps we did not show any numerical example of an “equivalent rainfall” method application: we will try to give clear examples;
- 5) We will evaluate how to replace the generic and misleading terminology.

Taking into account that the rewriting of the paper will involve a considerable period of time, we would like to receive the final Editorial comment, in order to have more complete instructions to proceed and eventually submit a new article to the Journal.

Best regards.

The Authors

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