

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,

thank you for your February 12th comment. We appreciated you have found the research topic of some interest and we took note of your indications concerning the article form. Please consider that our working group, within the Civil Protection offices, is

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much more operative than a proper research structure: we are used to write direct and synthetic papers, with immediate results, possibly for an easy and fast implementation.

We hereby attach a supplement with an extended Introduction and a Study Area description (with a Figure), with complete references to the papers we have consulted and taken as basis of our work. The Introduction describes the research framework within our work is placed in. The rest of the article, divided into two parts, briefly presents: 1) a methodology for determining the thresholds: here we don't see compelling reasons to cite again the papers we have already mentioned in the Introduction; 2) an approach for a combined consideration of rainfall forecast and observed, taking into account the different soils: the theoretical treatment of the method has been developed within our workgroup and we cited the exact works we directly borrowed from.

Hopeful that our corrections match your indications, we look forward to hearing whether the paper will be considered worthy of a future processing.

Best regards.

The Authors

Please also note the supplement to this comment:

<http://www.nat-hazards-earth-syst-sci-discuss.net/3/C71/2015/nhessd-3-C71-2015-supplement.pdf>

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Fig. 1.