

## ***Interactive comment on “Retrospective analysis of a non-forecasted rain-on-snow flood in the Alps – a matter of model-limitations or unpredictable nature?” by O. Rössler et al.***

**O. Rössler et al.**

ole.roessler@giub.unibe.ch

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The authors like to thank the reviewer for his very helpful and constructive comments on the manuscript! We found all remarks very reasonable and helpful to improve the manuscript. We corrected the critics point by point, and above all worked on the model parameter description and how they were changes (new Table 2), added a comparison with further snow stations (new Figure 10), and extended the discussion by a paragraph about the transferability of the results. The remark referring to changing snow density during the event was most difficult to deal with. We agree with the reviewer that snow density is likely to change, but we found no indication of how exact. Therefore, we

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added an uncertainty band of  $\pm 25\%$ .

Point-by-point responses to the comments of Dr. Stephan Pohl on the manuscript are attached as PDF-file.

Please also note the supplement to this comment:

<http://www.hydrol-earth-syst-sci-discuss.net/10/C7329/2014/hessd-10-C7329-2014-supplement.pdf>

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