

## ***Interactive comment on “Assessing winter storm flow generation by means of permeability of the lithology and hydrological soil processes” by H. Hellebrand et al.***

**M. Casper**

casper@uni-trier.de

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I would like to give a few comments:

1. The abbreviation SSF (in the definition from SCHERRER) means SubSurface Flow. You added "saturated" without explanation.
2. I would also recommend to use "dominating runoff generation process" instead of "hydrological soil process".
3. Why did you choose SSF to improve your permeability assessment from geology? What about SOF1 / SOF2 or a negative correlation to DP? Please make clear, what information from SSF you hope to include in your regression model.

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4. SSF3 is a very slow reacting process? Looking at the fast runoff generating process SSF1, SOF1, SOF2 may be combined.

5. In your discussion you say that the permeability estimation from geology may be wrong. What about a combined permeability estimation from geology map and map of soil hydrological processes? Especially because geology is included as input in the ANN model of STEINRÜCKEN et al. (unfortunately the final report of this study is still missing!).

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Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 4, 1893, 2007.

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