

## ***Interactive comment on “A conceptual, distributed snow redistribution model” by S. Frey and H. Holzmann***

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This manuscript addresses an important problem in hydrological modelling of mountainous catchments in snow-dominated regions, namely the need to redistribute snow to avoid 'snow-towers'. Based on the reports of the two excellent reviewers and my own reading I find this manuscript interesting for HESS but it is also clear that further work is needed. The two reviewers provide a detailed list of points where the manuscript should be improved. The main concerns can be summarized in three points:

- 1) The work should be better linked to previous work (the reviewers suggest some relevant references)
- 2) The processes should be better discussed including the question how to represent

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these in modelling

- 3) The issue of parameterization deserves more attention: the additional parameters must be expected to significantly increase parameter equifinality. How can it be avoided that the model works for the wrong reasons? How can the uncertainties be addressed?

Best regards, Jan Seibert

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