

Interactive comment on “Identification of runoff generation processes using hydrometric and tracer methods in a meso-scale catchment in Rwanda” by O. Munyaneza et al.

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Referring to your helpful comments on our paper: Ref. No.: hessd-9-671-705, 2012 Title: Identification of runoff generation processes using hydrometric and tracer methods in a meso-scale catchment in Rwanda

We really appreciated the comments of the editor Prof. Dr. Erwin Zehe who raised some valuable points for the improvement of our revised manuscript. All suggested comments have been addressed in the revised manuscript.

Major issue 1: Editor: I appreciate your constructive response to the reviewer comments. Especially reviewer 2 came up with a series of substantial points that should be
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thoroughly addressed in a considerably revised manuscript.

Authors: We would like to thank again the editor and the reviewers for their constructive comments and the detailed corrections. We have been addressing all their comments and suggestions in the revised manuscript.

Major issue 2: Editor: I agree in particular with reviewer 2 that hydrograph separation became a state of the art method today: many applications confirm over and over again that pre-event water and subsurface flow dominates rainfall runoff response in many catchments of the world. Nevertheless I see that the study has the potential to provide more than this, if the recommendations are thoroughly addressed.

Authors: The authors agree as well with that statement. We agree in particular in the point that hydrograph separations are nowadays a state of the art method and many applications were carried out to investigate the subsurface dominance of the rainfall runoff response. However, we think that the application of this method, carried out in a semi-arid catchment, contributed to the advancement of hydrologic science of this hydro-climatic zone because hardly any comparable study can be found in the literature.

We have been addressing all the comments in the revised manuscript. Thank you very much for your contribution to the quality improvement of this paper.

On behalf of the authors, Omar Munyaneza, Kigali, Rwanda

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