

Hydrol. Earth Syst. Sci. Discuss., 5, S2365–S2365, 2009

www.hydrol-earth-syst-sci-discuss.net/5/S2365/2009/

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HESSD

5, S2365–S2365, 2009

Interactive
Comment

Interactive comment on “HESS Opinions “The art of hydrology”¹” by H. H. G. Savenije

H. H. G. Savenije

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I would like to thank A. Nobre for his thoughtful comment.

I fully agree with Nobre on the value of spatially distributed topographical and soil information. The discussion on whether to follow a top-down (data driven) or upward (reductionist) approach should never lead to a situation where physical laws are not obeyed. Like Sivapalan stated in his comment, a balance needs to be found between these two approaches and one must make sure that physical laws (such as gravity as Nobre correctly mentions, or conservation of mass) are indeed obeyed. The inclusion of spatial information on stream lines, residence times and storage capacity can be very valuable for hydrological modelling.

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 5, 3157, 2008.

¹Invited contribution by H. H. G. Savenije, the EGU Henry Darcy Medallist 2008 for outstanding contributions to Hydrology and Water Resources Management.

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Interactive Discussion

Discussion Paper

