

## ***Interactive comment on “A history of TOPMODEL” by Keith J. Beven et al.***

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Dear Authors, thanks for this review !

Also maybe of interest for the historical perspective:

- based on the analytical study of the "bias" mentioned in Saulnier and Datin 2004 we introduced in the TOPMODEL formulation, before coupling with a SVAT model over large basins, a critical deficit above which lateral flow is assumed to be negligible (cf. line 348, see Appendix 2 in Boulet, G., Kerr, Y., Chehbouni, A., and Kalma, J. D.: Deriving catchment-scale water and energy balance parameters using data assimilation based on extended Kalman filtering, *Hydrological Sciences Journal-Journal Des Sciences Hydrologiques*, 47, 449-467, 2002);
- TOPMODEL is/was a good candidate for disaggregation strategies of low resolution

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soil moisture data from passive microwave remote sensing (e.g. Pellenq, J., Kalma, J., Boulet, G., Saulnier, G. M., Wooldridge, S., Kerr, Y., and Chehbouni, A.: A disaggregation scheme for soil moisture based on topography and soil depth, *Journal of Hydrology*, 276, 112-127, 10.1016/s0022-1694(03)00066-0, 2003);

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