



Floods and droughts in continuous simulation with uncertainty

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A common methodology for both extremes could be continuous simulation (i.e. the input is a series from a precipitation simulator) within the uncertainty framework (many behavioural simulations are taken into account). The contribution is a follows up of the paper of Blazkova and Beven (2009). With the behavioural parameter sets computed in the study 100 thousand years series are modelled and hydrographs of large floods are extracted from them. A special attention is paid to the initial conditions before extremely heavy rains. The problem to what degree the volume and shape of the flood hydrograph is affected by a drought of various depths on a catchment in essentially wet Central European climate is analysed.

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Blazkova, S., and K. Beven (2009), A limits of acceptability approach to model evaluation and uncertainty estimation in flood frequency estimation by continuous simulation: Skalka catchment, Czech Republic, *Water Resour. Res.*, 45, W00B16, doi:10.1029/2007WR006726.