

## Contents

|    |                                                                                                                                                                                           |     |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 0  | The search for better methods for the hydrology of extremes<br>(Blažková, Š. D., Beven, K. J.)                                                                                            | 5   |
| 1  | Uncertainty estimation in hydrological forecasting: should we use statistics?<br>(Montanari, A.)                                                                                          | 10  |
| 2  | Uncertainty in hydrological modelling: being positive about equifinality and model rejection (Beven, K. J.)                                                                               | 20  |
| 3  | Prediction uncertainty in index flood modelling at ungauged catchments<br>(Kjeldsen, T. R., Jones, D. A.)                                                                                 | 33  |
| 4  | Regionalization in flood frequency analysis<br>(Bolgov, M., Osipova, N.)                                                                                                                  | 39  |
| 5  | The realisation effect in the estimation of flood frequency<br>(Blažková, Š. D., Beven, K. J.)                                                                                            | 45  |
| 6  | A new model for the dynamics of runoff derived from information on river network and shape of catchment area (Skaugen, T.)                                                                | 53  |
| 7  | Comparison of uncertainties in extreme rainfall distribution using a GP distribution and the SHYPRE regional stochastic rainfall model<br>(Lang, M., Muller, A., Arnaud, P., Lavabre, J.) | 60  |
| 8  | Uncertainty in water balance simulation<br>(Kašpárek, L., Novický, O.)                                                                                                                    | 67  |
| 9  | Bayesian decision for low flow evaluation in non-stationary conditions<br>(Bolgov, M.)                                                                                                    | 72  |
| 10 | Options for drought analysis (Kašpárek, L., Novický, O.)                                                                                                                                  | 77  |
| 11 | Application of a flow routing simulator in water management problem: Upper Narew case study (Romanowicz, R. J., Kiczko, A., Napiórkowski, J. J.)                                          | 83  |
| 12 | Fate of pollution from sediments re-suspended during catastrophic flood on quality of environment of the flood plain (Rudiš, M., Valenta, P., Valentová, J., Nöl, O.)                     | 93  |
| 13 | Linking ensemble prediction systems of weather forecasts to hydrology within the PREVIEW project (Pappenberger, F.)                                                                       | 100 |
| 14 | Drought in the Jizera Mountains, and response in the Uhlířská experimental basin<br>(Kulasová, A., Bubeníčková, L.)                                                                       | 108 |