



Teaching hydrological modelling using a conceptual runoff model

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Teaching hydrological modelling always is a challenge. We want to teach general modelling principles, but students might get stuck in model-specific technical problems; we want to provide feasible exercises, but reduce the modelling to just clicking on some buttons; and we want to teach that models are uncertain, but not undermine the fact that models can be useful after all. On this poster HBV light and its potential use in teaching is presented. The HBV model is a widely used conceptual model developed at SMHI in Sweden. It has been used in many countries and exists in different version. The version HBV light is user-friendly and, thus, used at several universities for teaching purposes. The software is presented together with a collection of exercises. These range from simple calibration exercises to the analysis of land-use changes, calculation of design floods and uncertainty estimation. The model and exercises are suitable for basic hydrology courses, where the model can be used to demonstrate interactions between different hydrological variables, as well as for teaching more advanced issues like model calibration and uncertainty estimation in modelling courses. Currently a new version of the HBV-light software is in progress. The poster will provide the opportunity to discuss potential future extensions which would be useful for teaching applications of the software.