

ELIMINATION OF UNCERTAINTIES IN THE DAILY AND MONTHLY NATURAL HYDROLOGIC TIME SERIES

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ABSTRACT

In the present, derivation of natural flows is done only in monthly time step in the Czech Republic. For the impacts of changing climate on water regime and for the proposal of the adaptation are needed natural daily and monthly hydrologic time series. Natural flows are computed from the water using database, where are reported only major water users. Elimination of these uncertainties are based on the linked water management model and coupled hydrologic balance model BILAN, which was originally developed for simulation of water cycle in daily and monthly time step. Linked model can eliminate errors in water using and can quantify the likely amount of water use in the basin. Inputs to the model are daily time series of observed discharges, air temperatures, precipitations, relative air humidity and monthly time series of water use in the basin.

PALAVRA-CHAVE: natural discharges, uncertainty, hydrologic balance model, water management model