
HYDROLOGICAL BALANCE AND AVAILABLE WATER RESOURCE IN THE CZECH REPUBLIC DURING HYDROLOGICAL DROUGHT

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The article deals with the assessment of the hydrological balance in a monthly time step in the territory of the Czech Republic, which was divided into 133 sub-basins for the period 1981–2015. The hydrological balance model Bilan, which has been used to evaluate these episodes over the past 35 years, has been used to verify how the dry season has been propagated. The assessment includes individual water storages (snow, soil and groundwater) and individual water flows (precipitation, Evapotranspiration, infiltration and drainage). The article also introduces to the results of the available water under normal conditions and in 5 years and 10 years drought in two variants. The first one deal with the evaluation of the source area, the second is the evaluation using the simplified water balance model WATERES.