

RUNOFF CHANGES IN THE ŠUMAVA / BOHEMIAN FOREST REGION

Abstract:

The goal of this thesis is to the evaluation of possible causes of changes in runoff regime in the Šumava region from time and spacial point of view. The thesis includes research and applied part. The research part is dedicated to methods of evaluation of runoff changes and their possible causes in teh Šumava region such as anthropogenic factors (changes in the river network, dams, drainage, land - use changes), natural factors (climate changes, peatbogs influence) and disturbances (wind calamities and bark beetle outbreaks, floods). In the applied part there is an analysis of precipitaion - runoff regime for long-term time series of average annual, monthly and minimal daily discharges and monthly precipitations for selected gauging stations in upper Otava, Ostružná, Volyňka, upper Blanice and Teplá Vltava basins using simple and double mass curves and Mann - Kendall test. In conclusion the achieved results were evaluated, discussed and compared with subject publications.

Key words: *disturbance, Mann - Kendall test, runoff, discharge, mass curves, precipitation, Šumava, changes*