

PREDICTION MODEL OF WATER QUALITY AROUND PRAGUE

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Recently, the impacts of climate change on the water regime in the natural conditions have been much discussed topic – not only among the scientific community. The project was focused on the cultural landscape in the immediate vicinity of the city of Prague, where climatological variables, flows and water quality were monitored at eight pilot sites (river basins), which began in April 2018 and ended in May 2020. The water quality of the Prague streams were evaluated at the Testing Laboratory for Environmental Technology and Components TGM WRI, p. r. i. The long-term runoff regime was simulated by the BILAN model. Selected indicators were evaluated and formed the basis for a simulation model of water quality based on precipitation and runoff characteristics. Concentrations were derived based on regression relationships between the current discharges and the concentration of the selected chemical variable. This created a simulation model, which is available for exploration via a map application on the project website heis.vuv.cz/projekty/praha-adaptacniopatreni. The results from the monitoring are available within the interactive application or on the project geoportal.