Abstract

The present bachelor thesis discusses biochemistry changes in headwater areas. The main object of the thesis is to analyze the hydro-climate factors of selected parameters of water quality monitoring in order to detect their trends and interconnections. In the first part of the thesis the literature research of the topic is presented. A short characterization of the area follows as well as the crucial gathered input data, homogenization and the data files analysis. The study is the interdependence of selected biogeochemical parameters and changes in rainfall-runnof. I have conducted my own monitoring of the selected parameters of water quality. The experimental upper Rolava River basin is located in the northwest part of the Ore Mountains in the Czech Republic.

Key words: Biogeochemistry, pH, conductivity, organic substances, N, P