

Abstract

This bachelor thesis is focused on evaluating the issue of hydrological drought on Lužnice River and Bouřlivec River Basins in 2022. The first part of the thesis is focused on solving the topic of drought, its classification and causes. The next part of the work deals with a general assessment of the hydrological drought in Europe in 2022, its impacts in specific countries and the indicators used to measure it. The practical part is a key part, dealing with the evaluation of hydrological drought in the areas of interest in 2022 using the threshold level concept, deficit volumes and drought indices. The analysis is carried out on the basis of the provided flow data from the Pilař and Bechyně profiles in Lužnice River and Lahošť and Duchcov in the Bouřlivec basin. Based on the resulting values, the year 2022 is compared with previous years and placed in the context of long-term drought observation. The results show that the drought in 2022 was severe but not very significant in the long-term monitoring. In terms of the number of dry days and insufficient volumes, the hydrological drought in the Bouřlivec basin was more pronounced than in Lužnice River, where it was accompanied by lower flows.

Key words: hydrological drought, Lužnice River, Bouřlivec River