

**Title:** Mapping modifications of riverbed Bílina with concentrate on flood risk

**Abstract**

Recently, the flood events and related conditions of riverbeds have been a very current topic. The following text deals with the evaluation of different types of anthropogenic interference into natural riverbeds and their surroundings and also anthropogenic landscape changes and their impacts on the hydrological situation of a particular catchment area and potential impacts on the formation and process of the floods. The work presents authors own field mapping methodology. This methodology is compared to the others designed to measure rivers in constant conditions and highlights the potential flood risks. It helps to identify potential risk parts of the river where any flood event could lead to a greater damage. The proposed methodology was tested on a sub-section of the river Bílina, which is further processed by the history of flood events. Later on, the field mapping and photographic documentation of the current situation of the riverbed has been done.

**Key words**

floods, risk, methodology, river Bílina, anthropogenic modifications