

Abstract

This bachelor thesis deals with geophysical methods used for localization and exploration of deserted medieval villages. It's comprised of two closely related parts: theoretical and practical.

First of which, the thesis reviews the current knowledge about deserted medieval villages, how to locate them and describes practical application of selected geophysical methods such as magnetometry, geoelectrical resistivity survey (symmetric resistivity profiling, electrical resistivity tomography) and electromagnetic (ground penetrating radar, dipole electromagnetic profiling). In addition to the explanation of basic principles and practical use of the methods in archaeological prospection, this part of the thesis presents particular examples of structures and objects that are being sought around the areas of deserted medieval villages.

The second part is experimental and its main aim is to describe geophysical research of a selected area called Štítary u Městce Králové. The primary purpose of research was to localize relicts of deserted medieval village. This part of the thesis examines the preparation proces, implementation of the terrain measurment, the data processing and, most importantly, the interpretation of the final results.

Key words: archaeology, deserted medieval villages, geophysical methods, geophysical survey.