Abstract

The Master's thesis "Geophysical survey in the area of the mediaeval fortress in Popovice" is divided into two parts. The first part is theoretical and summarizes the possibilities of using electrical resistivity tomography method (ERT) in archaeology. The second part deals with the actual geophysical prospecting in the area of the mediaeval fortress in Popovice (Benešov county). General information on the locality including geological setting, past geophysical exploration in the area, history of the object, archaeological findings and overview of construction development are addressed in this part, prior to the description of the field measurements. Methods used on the site are then specified: symmetrical resistivity profiling, dipole electromagnetic profiling, electrical resistivity tomography and ground penetrating radar. Subsequently, the process of field measuring in the area of the fortress is described and the data processing methods are discussed. The results of these measurements and their interpretation on the basis of compiled geophysical maps and sections are presented finally.

Key words: geophysical survey, archaeology, fortress in Popovice (Benešov county).