

Geomorphological speeches of Pošumavský karst and its structural-tectonic structure in reliéf

Abstract

The aim of this work is to assess the impact of Pošumavský Karst (i) geomorphology and its structurally tectonic characteristics in relief. The first part is based on the search of the literature and other information sources, and describes the region of South Bohemia in terms of physical-geographical characteristics. The second part describes the development and distribution of (ii) the karst localities in the Pošumaví region. This work does not deal with Pošumavským Karst as a whole, but it is more focused on individual sites the occurrence of karst rocks. These locations were briefly characterized. The third part deals with the methodology. First, the individual sites the occurrence of karst rocks analyzed using available topographic and geological maps in GIS (iii). The sites have been described in the distribution of karst rocks which is observable in relief. This charter is followed by structural measurements (iv) in selected locations. There were found the similarities in the orientation of the gradient layers of crystalline limestones in all of investigated sites. The next section is devoted to the analysis of DEM in GIS. Methodology this section consists of the analysis of transverse and longitudinal profiles and analysis of slopes. Methodology this section consists of the analysis of transverse and longitudinal profiles and analysis of slopes. On the basis of the results was described the impact of structural and tectonic characteristics in relief within each of the areas. The following section deals with the methodology of geophysical exploration method ERT (v). The hypothesis of the fault continuation in the neighborhood of the Sudslavice site has been confirmed. In the following chapter are analyzed the results of the measurement of micro-tectonic movements (vi) machine TM-71. The closing chapter summerize the results and present conclusions of this work.

Keywords:

the Pošumavský karst, the karst localities, GIS, structural measurements, geophysical exploration method ERT, micro-tectonic movements