

ABSTRACT

The diploma thesis deals with long-term land use/cover changes in the past 160 years in the modeling territory of the area of Prachovsko. Furthermore, it evaluates the extent of the dependency of these development changes to the altitude.

Prachovsko is the eastern part of the protected landscape area (PLA) of Bohemian Paradise, to which it was incorporated in 2002. The land use/cover changes were assessed on the basis of the maps of the 1842 stabile cadastral, and the aerial photos from 1953 and 2002. The data were processed with the help of the Geographic Information System (GIS).

The predominant surface of Prachovsko area during the whole studied period is forested areas. The expanse is relatively stable, and in all the discussed years it occupied more than 40% of the territory. Between the years 1842 and 2002 the arable land decreases and the area of permanent cultures and permanent grasslands increases.

The differentiation according to the altitude is as follows: in the highest locations there are forested areas, in the lowest there are arable and permanent grasslands.

The results of the thesis were compared with the statistical data of the LUCC UK Prague database and with the already processed modeling territory of the PLA of Bohemian Paradise (Libošovice) region. Unlike the rest of the areas in question, the Prachovsko region has a higher share of LP and a lower share of the arable land.