

Quantitative analysis of landscape development and mapping of drainage network based on historical maps: case study of the surroundings of Kašperské Hory town (Czech Republic)

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Abstract

The authors studied landscape development and dynamics of land use changes in a model area Kašperské Hory in the period 1878–1989. Changes of drainage network were quantified on one map sheet in the scale 1 : 25 000 in the period 1843–2005. Kašperské Hory study area is located in the southern part of the Plzeň Region, 10 km to the south of Sušice town. Computer processing of the digital map has shown that the model area Kašperské Hory represents a harmonic cultural landscape, with a long history and high aesthetic value. In comparison with a relatively stable drainage network, the analysis of land use has shown several changes in landscape development in the last 100 years.