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Katedra fyzické geografie a geoekologie

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Jiří KOCUM

Dálkový průzkum jako indikátor změn struktury půdního pokryvu
Remote sensing as indicator of Soil structure changing

Bakalářská práce

Vedoucí bakalářské práce: RNDr. Luděk Šefrna, CSc.

Abstract

This thesis is about soil properties, their influence on soil spectral reflectance and Remote Sensing (RS) in pedology. The aim of the thesis is to explain the cause and to estimate the possible future development of the mosaics of local soils, which is visible in aerial photographs, on the selected territory of Kleneč in the Ústí nad Labem Region, by using data from the field survey and RS. Based on the results, evaluate if the methods of RS are suitable apparatus for solving this problem. For this purpose, data from field surveys, aerial and satellite images were collected. This information was compared and evaluated. The results showed a difference in soil properties that cause a different ability to bond water over time. Differnce in water content in soil influence the spectral reflectance of the soil, which is reflected in aerial and satellite imagery in the form of a mosaic.

Key words:

Remote Sensing, Soil, podology, moisture, structure