Geomorfologický sborník 15

17. mezinárodní konference
Stav geomorfologických výzkumů v roce 2017

17th international conference
State of geomorphological research in 2017

Pec pod Sněžkou, 17.-19.5. 2017

Organizers
Vít Vilímek & Michal Kusák

Marek Křížek
(editor)
Texty neprošly jazykovou korekturou. Za jazykovou a obsahovou kvalitu textů odpovídají jejich autoři.

Abstracts were not language edited and proofreaded.

Vydavatel: Univerzita Karlova, Přírodovědecká fakulta, Katedra fyzické geografie a geoekologie

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intensive incision during the Holocene climatic optimum, caused by high water discharge and efficient soil protection. The overbank sedimentation prevailed on the lower terrace level during the third stage that occurred during the late Subatlantic. We assume allogenic change of the sediment budget caused by colonization of the upper parts of the Šumava Mountains as well as windstorms and bark beetle gradation. Present-day anthropogenic impact, namely channel modification and drainage of the mires, probably intensifies the stream incision during ongoing fourth stage. This reconstruction of the alluvial infill in the flat, rigid area provides insight into development of the sensitive and dynamic part of the nature since the Last Glacial.

**Neotectonic regionalisation of the Liptovská kotlina Basin**

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**Keywords:** the Liptovská kotlina Basin, river terraces, morphotectonics, neotectonics, regionalisation.

This paper deals with neotectonic regionalisation of the Liptovská kotlina Basin (LKB), which belongs to the most elevated basins of the Western Carpathians. The previous neotectonic regionalisation of the LKB was carried out in the scale 1 : 500 000 (Maglay et al., 2002). Considering the size of the LKB (ca. 60 x 15 km), more detailed regionalisation could be done. The aim of this paper is to create a more detailed neotectonic division of the LKB. Within the morphotectonic analysis, selected methods were used to reveal the neotectonic structure of the basin, focusing on the neotectonic vertical movement tendencies. The Váh River terraces analysis, thickness of quaternary deposits, SL index and slope gradient were employed to delimitate the neotectonic blocks. Based on the relative heights of the terrace straths and previous fluvial sediments investigations (e.g. Droppa, 1964; Gross et al., 1979), nine terrace levels were identified. Long profile analysis of the straths was carried out to detect neotectonic dislocations within the paleo-fluvial systems. Based on the results of partial analyses, particular neotectonic blocks of the LKB were delineated. Tectonic faults and morpholineaments were used as borders of the blocks. The intensity of the relative block movements was assessed from very large subsidence to very large uplift. Numerical dating of fluvial sediments absents in the LKB, that’s why we consider vertical movements of the delimitated blocks of the neotectonic stage of georelief development.