

HOLOCENE AND CONTEMPORARY TECTONICS AND GEODYNAMICS IN THE PERNIK GRABEN SYSTEM (BULGARIA)

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The tectonic and contemporary geodynamic development of the Pernik graben system is entirely different from the development of the neighbouring graben systems. The Holocene and contemporary movements are strongly differentiated. Their total values vary from +42 m to -40 m. Local graben and horst structures were formed along the main fault structures as a result of the Holocene extension, and new ones with different morphology, deformations and density were created. Their peripheral and internal deformations are considered. New data are presented for the paleoseismic dislocations formed at the boundary of the Holocene-Pleistocene and the historical stage, as well as for the accompanying deformations. The present investigation has been carried out with regard to the existing high natural and provoked seismicity in the studied area due to mining activities and to the enhanced seismicity in the Balkan region.