

Geoecological assessment of the river Cholaburi basin

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The river Cholaburi basin is characterized by favorable natural conditions for the activation of geodynamic processes, and the intensive engineering and agricultural activities of the people foster the activation these processes. These activities and natural conditions have led to the development of a number of geodynamic processes in the region, including mudflows, floods, erosion, rock avalanche, abrasion of riverbanks, landslides and more. These natural processes cover almost whole territory of research area.

Existing data about research area retrieved, chronologically sorted and investigated. Comparison of old and new data revealed that a number of geodynamic processes activated in research area.

Based on the study of the old topographical (1:50 000 scale) relief maps of the basin of river Cholaburi and after comparison with new topographical maps, satellite and orphotophotos, field work and desk research revealed active and dangerous areas of geodynamic processes, created relevant maps, also maps that show quality anthropogenic transformation.

The work contains various hydrographic features, as textual as well as tables and diagrams that are result of research of river basin. Stressed river basins with natural geodynamic processes revealed in the research area, also identified main natural geodynamic process in this specific basin, their frequency and coverage area.