

Assessment of Geodynamic Processes in the Guria Region Using Modern Technologies

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The present master's thesis is dedicated to the assessment of geodynamic processes in the Guria region using modern technological methods. The relevance of this study is determined by the active geodynamic processes in the region, which significantly affect the environment, infrastructure, and population safety. Frequent landslide, erosion, and seismotectonic events in Guria underscore the necessity of a detailed and systematic investigation.

The aim of the research is to identify geodynamic processes occurring in the Guria region, analyze their spatial distribution, and assess the associated hazard levels using contemporary technological approaches. The object of the study is the territory of the Guria region, while the subject of the research is the spatial and temporal characteristics of its geodynamic processes.

The study employs Geographic Information Systems (GIS) for processing and analyzing multiple thematic layers. In addition, various scientific publications, monographs, and annual geological bulletins spanning several years were utilized to support the research.

The practical significance of this thesis lies in its applicability for territorial planning, natural hazard management, and the design of preventive and mitigation measures to enhance the region's resilience to geodynamic hazards.