

Annotation

Actuality. current work represents an attempt to conduct a GIS analyze of Alazani basin natural processes. After which, based on performed research and analyze of mentioned river basin, author attempts to reveal optimal ways for damage elimination.

By the existing practice of last decades processes of observations and mapping would rarely be followed by any effective solutions. Mostly because achievement of such would be seen as an extremely time-consuming process. To tackle this issue, GIS systems would allow for decision makers to see ongoing processes in real time and perform related analysis on: mudflows landslides, floods, etc. which would help to develop prognosis on natural processes and decide on ways to minimize a damage caused by them. Therefore GIS systems should be considered to be a tool for achieving fast and simple solutions on urgent issues.

Goals and Objectives. goal of presented work is to map ongoing natural processes in area of Alazani basin, based on what geomorphological maps will be developed on following issues: slope inclines, slope exposition. Which will allow to develop specific prognosis and predict related natural processes.

The object of research. Basin of River Alasani.

Results. based on field and “desk” analysis areas of natural activity and threats were defined, map of natural processes was developed and rivers with high risk of flooding were allocated. As a result, ways for solving associated problems were developed which should be mandatory for State agencies.