

VISUALIZATION OF THE MOUNTAIN DIGITAL ELEVATION MODEL IN WEB-MAPS

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The article considers the topic of digital terrain modeling for the web-environment based on the analysis and synthesis of existing experience in the visualization of mountain terrain. The main stages of creating relief models are considered, a comparative analysis of the relief mapping in known cartographic web-services is carried out. The advantages and disadvantages of using each type of terrain models in the web-environment are revealed. For visualization of a three-dimensional model of a mountain relief, the geographic information system ArcGis was used. An algorithm was developed for the exchange of spatial data between a cartographic web-service and a cartographic web-application, which saves time and financial costs for creating a map. The possibility of using models of mountain relief on web-maps and web-services to create a variety of thematic maps, is described.

Key words: mountainous terrain, digital elevation model, web-map, visualization, web-service, web-application, technological scheme.

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Received 06.11.2019

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