

Reconstruction of history of the Tatar Arch in the Neogene-Quaternary time by means of the morphometric analysis

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Abstract

The history of neotectonic development of the Tatar Arch is reconstructed according to the morphometric analysis data. High degree of neotectonic activity of the Southern Dome of the Tatar Arch is shown. Connections between the Tatar Arch morphostructure and its deep structure are traced. The research shows that the majority of local structures (of the second and third order) within the arch are recent formations aged by not more than 106 years old.

Keywords

Geographic information system, Morphometry, Neotectonics, The Republic of Tatarstan