



## **Gorky reservoir slope stability assessment**

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In the present study, issues related to the hydrogeology of the basin of the Volga River from Rybinsk Reservoir to Cheboksary Reservoir are reviewed and analyzed, evaluation of the current state of hydrogeology reservoirs on various parameters is performed. It is revealed that the erosion processes in the basin of the Gorky Reservoir has an average intensity in comparison with similar processes in the basins of the Rybinsk and Cheboksary reservoirs, but the activity is presented. Particular attention to the processes of erosion and shoreline erosion of the Gorky Reservoir is given. The mathematical and numerical model of the slope stability coefficient is presented. The present research scientific work is performed within target federal program “Scientific and pedagogical manpower of innovative Russia” for 2009 – 2013 (NK486-P).