

First results of field work in 2021 on the group of Novikovskiye Karyernye lakes (Sakhalin Island): morphology and morphometric parameters of basins

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Abstract. Data on the morphology of the lake basins of three Novikovskiye Karyernye lakes, formed after the completion of coal mining at the Novikovo brown coal field with germanium-bearing coals (Novikovo village, Korsakov district of the Sakhalin region) were considered for the first time in the work. Bathymetric profiles and schemes with isobats made using interpolation of data from 29 high resolution echo-sounder profiles with a total length of about 25 km are given in the article. Morphometric indices of the lakes are calculated; the morphological appearance of their basins is described. The data on the depths and chemical composition of Biryuzovoye Karyernoye lake – the deepest waterbody on Sakhalin Island – are updated. The comparative characteristics of the lakes have been carried out.

Keywords:

Sakhalin Island, Novikovskiye Karyernye lakes, echo-sounding survey, morphology, morphometric parameters, bathymetric scheme

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