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DIATOMS IN THE ALGAL CENOSES OF LAMBA LAKE (PETROZAVODSK, REPUBILIC OF KARELIA)

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This scanning electron and light microscopy study has revealed 179 species and varieties of diatom algae from 53 genera (phytoplankton – 88, phytoperiphyton – 81, bottom sediments – 56), and 12 algae identified only to the genus in a small waterbody Lamba Lakein Petrozavodsk. The study of different algal cenoses in the lake, including ice and winter phytoplankton, makes it possible to expand the taxonomic spectrum of Bacillariophyta to 198. Among the recorded species, 27 are new to the flora of the Republic of Karelia and 7 of them are new to Russia (*Cymbella subhelvetica*, *Eunotia metamonodon*, *Gomphonema pseudoaugur*, *Nitzschia bryophila*, *Pinnularia complexa*, *P. rhombarea*, *Sellaphora medioconvexa*). The most species-rich genera are *Eunotia* (25), *Pinnularia* (22), *Gomphonema* (13) и *Nitzschia* (12).

Keywords: Bacillariophyta, phytoplankton, phytoperiphyton, bottom sediments, small city reservoir

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