

Opinion an Geologist Candidate of Mineralogical Sciences thesis of

EKATERINA KHILKEVICH

**GEOLOGICAL STRUCTURE, MORPHOLOGY AND FORMATION OF
SUBGLACIAL WATER-EROSION VALLEYS OF THE BELARUSIAN POOZERIE
AREA IN QUATERNARY**

Minsk, 2023

Doctoral dissertation was prepared during 2012-2022 years at the Belarusian State University under Dr. M. Komarovsky, Belarusian State University scientific supervising. Dissertation text consist an Introduction, 5 Chapters and conclusion; 165 pages and 194 position of the Bibliography. The dissertation has 62 figures and tables.

The work represents the comprehensive study of the geological structure, morphology and formation of subglacial water-erosion hollows (tunnel valleys) in Belarus. The author used for own research complex of geological, lithological, geomorphological and special (biostratigraphy correlation, conjugate analysis) methods. The high scientific level of Dissertation was caused huge massive of the geological and geomorphological data collected and analyzed by Ekaterina Khilkevich.

This scientific work could be characterized as a actual and complete research in the area of glacial geology within the territory Pleistocene glaciation (Belarusian Poozerie area). The generations of hollows of Berezina, Sozh and Poozerie age were established and characterized.

The relationship between the localization of hollows and areas of development of clayey rocks and zones of discontinuous frozen and basal-frozen bed along the edge of the glacier has been proved.

The classification of subglacial water-erosion hollows is detailed, and the identification of hollows of rapid descents of subglacial lakes and hollows that arose during the runoff of supraglacial waters is substantiated. The regularities of localization of the main types of mineral building materials and groundwater among deposits of the hollows are established.

List of Author publications individually prepared and with coauthors is significant and confirm Author scientific skills. The Author is entirely able to obtain a Geologist Candidate of Mineralogical Sciences.

Dr. Danguolė Karmazienė
Lithuanian Geological Survey under Ministry of Environment
Division of Engineering Geology

