Paleomagnetic studies of marine sediments of the Russian Arctic seas under the project of state geological mapping of the territory and continental shelf of the Russian Federation at a scale of 1:1,000,000

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Marine sediments of the Arctic seas of the Russian Federation have been studied with varying degree of detail.

Under the project of state geological mapping of the territory and continental shelf of the Russian Federation at a scale of 1:1,000,000, sediment cores were collected using a gravity corer from the Chukchi, East Siberian, Laptev, Kara and Barents seas by FSBI «VNIIOkeangeologia» in different years [1], [2], [3]. In 2020-2021, also within the framework of this program, two cruises were carried out by FSBI «A.P. Karpinsky Russian Geological Research Institute» to the East Siberian Sea, where sediment cores were also obtained [4],[5].

Here, we present results of paleomagnetic studies on numerous sediment cores, collected during the expeditions mentioned above. The studied cores, which age varies from the Middle Pleistocene, or even from the Pliocene-Early Pleistocene, up to the Late Holocene, have shown how diverse the processes and sedimentation conditions are across the Russian Arctic shelf (for example, see [6], [7]).

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