P5. CRYOGENIC DYNAMICS IN THE COASTAL ZONE OF THE LAPTEV AND EAST SIBERIAN SEAS

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The shores of the Laptev and East Siberian seas have been rapidly retreated in some areas, while in others have been increasing. Comparison of multitemporal remote data on the coastal zone of the Lyakhovsky Islands and the southern shore of the Dmitry Laptev Strait, received in the 1950s, 2000s and 2010s shows that the retreat of icy coast of the study area is the most large-scale process. It is peculiar to areas composed of ice and alas complexes and alluvial-marine terraces. During the 50-year period (1951-2000) an area of 27.2 km² of the Bol'shoy Lyakhovsky Island has been washed away and 12.4 km² of the mainland coast. Over the past 13 years alone coastal area, equal to 10.3 and 6.5 km², respectively was added to the eroded area. Retreat rate averaged for all retreating coasts in the region of 3.2 m per year over the period up to 2000 and 6.4 m per year during the past 13 years. Thermoabrasion of ice complex on the banks of the cliff 15-20 m high and more is accompanied by thermodenudation. Its rate in recent years has also increased more than 1.5 times.