

THE EXPEDITION LENA 2002

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In this talk we present a summary of the Expedition LENA 2002, which was carried out within the framework of the Russian-German cooperation SYSTEM LAPTEV SEA 2000. From end of June to middle of September 2002 a group of ca. 30 Russian and German scientists, which were divided into 3 teams, focused on modern processes and the environmental history of the Laptev Sea coastal region (Fig. 1). Team 1 was based on the Island Samoylov in the central part of the Lena Delta and concentrated on the quantification of trace gas fluxes from permafrost-affected soils. Team 2 focused on the investigation of modern periglacial processes and their manifestation in ancient permafrost deposits. Modern features were studied in the surroundings of the city of Tiksi and geocryological field studies of natural exposures and detailed sampling of permafrost sections were performed along the coastline of the New Siberian Islands. For the expedition to the New Siberian Island the RV "Pavel Bashmakov" was used. Team 3 studied several key locations along the coast of the New Siberian Island in regard of coastal dynamics. Geodetic measurements of the coast lines (position of the cliff base and shoreline) were carried out, detailed shoreface profiles were obtained by echosounding and sediment sampling was performed. The team was based aboard "Pavel Bashmakov" together with team 2.

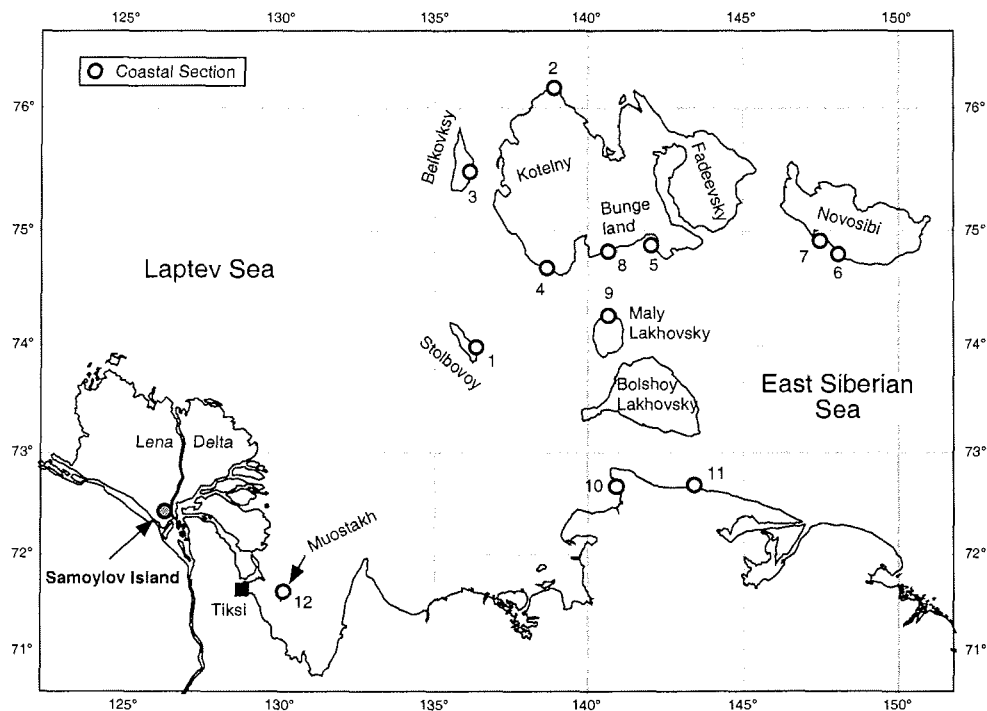


Figure 1. Location map of the expedition LENA 2002.