Winter Beach Variability on the Site of the West Coast of the Sambian Peninsula (South-Eastern Part of the Baltic Sea)

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Introduction

In recent years, the sea beaches of Kaliningrad region are strongly eroded by the Baltic sea. It is important to watch the changes of the beaches for any time to answer the questions: are the beaches destroyed or increased? do they need protection or not? In this regard, it was interesting to make a series of observations of the beach at the fixed place.
Location of the Research Point
Methods and Materials

• The width of the beach was measured and the samples of the sand were taken
• The air temperature and the direction of wind were recorded during measurement and sampling operations
• The state of the sea surface was determined visually
• Grain-size of the sand was determined by special sieves with a certain mesh size
Grain-size Analysis
Results

• The width of the beach and the size of particles of the sand change at the waters edge
• It is due to the protective action of the ice ridge formed on the beach at low air temperatures
Conclusion

Our observations showed that:

• The beach is very variable in winter and its status should be monitored more than 1 or 2 times a year
• The main cause of variability was the ice ridge at the water's edge
Thanks for your attention!