P37. INFORMATION-PREDICTION AUTOMATIC SYSTEM FOR THE SEA SHORE OF KALININGRAD OBLAST (IPAS): USE IN 2006-2015 AND DEVELOPMENT PROSPECTS

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Information-Prediction Automatic System (IPAS) was developed for the Baltic Sea shore within the Kaliningrad Oblast in 2005-2006 and implemented in the State Organization of the Kaliningrad Oblast "Baltberegozaschita" (coastal management authority) in 2007. It is used as database for shore protection engineering and a tool for analyses and forecasting of coastal processes, and has three segments - database, forecast block and information-cartographic block. Information-cartographic block regularly accumulates the results of annual monitoring surveys on shore segments with returning period of 6-7 years using reference system of permanent monitoring bench marks each 500 meters on the Vistula Spit, shore of Sambiya Peninsula and the Curonian Spit. IPAS is regularly used for processing and analysis of data, preparation of analytical notes for the Government of Kaliningrad Oblast and for municipal authorities. Information stored in IPAS was used for development of two programs of actions: "Protection of the shore of the Baltic Sea, the Vistula and Curonian lagoons within the Kaliningrad Oblast for the period 2014-2020 years" and "The concept of integrated development of shore protection in the Kaliningrad Oblast for the period 2013-2020 years". Optimal engineering solutions were recommended by using of the forecast block of IPAS for promenade protection constructions in Zelenogradsk and Svetlogorsk as well as for the project "Construction of beach protection in Svetlogorsk".