IV INTERNATIONAL BALTIC SYMPOSIUM ON APPLIED AND INDUSTRIAL MATHEMATICS

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Belashev B. Z., Bakunovich L. I., Nilov M. Yu., Sharov N. V. (Petrozavodsk, Institute of Geology, Karelian Research Centre RAS)**. Modelling of the earth crust's density structure of the White Sea Region.**

Abstract: The goal of the study is to simulate the density and the velocity structures of the White Sea Region's earth crust and to analyze connections between density heterogeneities and geophysical fields using the program complex Integro. As a result of 2D modelling, the density structure of the local portions of the earth crust was understood better and a 3D density model, showing the deep crustal structure of the White Sea Region, was constructed.

Keywords: seismic profile, earth crust, White Sea Region, velocity reference model, Integro, 2D and 3D density models.