INTEGRATED GEOPHYSICAL STUDIES IN THE GLOBAL GEOSCIENCE GRANIT TRANSECT

1HISMATULIN, T., 2ALIOSHIN, B., 2KASHUBIN, S., 1KASHUBINA, T., 1RYBALKA, A. and 1SOKOLOV, V. 1Bazhenov geophysical expedition, Scheelite, Russia; 2Committee of Natural Resources on Sverdlovsk oblast, Yekaterinburg, Russia.

Researches on the global geoscience GRANIT transect which lasted more than 10 years are finished. The 3600 km long GRANIT profile crosses over the main geotectonical provinces of the northern Eurasia in a SW-NE direction including the East-European platform, Urals and West-Siberian plate. The geophysical researches included a seismic (reflection and refraction), aeromagnetic observations at different levels, electrical survey (self-potential and magnetotelluric), heliometric survey, geochemical investigations, investigations of the gravity and heat flow anomalies. High-precision geodesic measurements, petrophysical and paleomagnetic data, space images decoding have been generalised. Vp, Vs, density and others models of the crust and upper mantle along profile are presented. The assembled data clearly illustrate, that the lithosphere of the East-European platform and West-Siberian plate essentially differ on a depth structure. Therefore, Urals could not be derivated on a place of split of uniform continent.