

Description of the Magnetic Anomaly Map of the Eurasia on the Scale 1:10 000 000

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The map presents the unified picture of the distribution of magnetic field anomalies over the Earth's surface. It was compiled at VSEGEI with participation of the Chinese specialists on 8 sheets in the arbitrary pseudo-cylindrical projection from 160 data sources. The data on anomalous field for the substantial part of the Earth are given for the first time. The map is presented in contour lines with spacing mainly of 100-200 nT for the continents and part of water areas. In water areas where grided surveys were not carried - in Ta curves.

The unified magnetic anomaly map of the Eurasia gives an idea about regular patterns in the distribution of anomalies, caused by the crust's sources and their relations with main features of the continent's and ocean's structures. The easy - to - grasp character and sufficient detailness of the map allow to solve essentially new circle of geological-geophysical problems - to accomplish intercontinental correlation and to consider it as an objective magnetometric base in the discussion of a lot of theoretical problems of the contemporary tectonics.

The map may be used for the geodynamic researches of vast territories, in particular for the comparative analysis of geodynamic situations – zones of spreading, subduction and collisions, including their paleo-analogues.

The map of Eurasia is the first part of the magnetic anomaly map of the World on 1:10 000 000 scale compiled at VSEGEI.