GLOBAL ASPECTS OF TECTONICS AND METALLOGENY OF THE URALS

1RAPOPORT, M., 2ZOLOEV, K, 1KASHUBIN, S. and 2RUDITSA, N. 1Committee of Natural Resources on Sverdlovsk oblast, Yekaterinburg, Russia; 2Uralian Geological Surveying Expedition, Yekaterinburg, Russia.

The Urals is the northern segment of the polycyclic Uralian-Mongolian folded belt. In it entrails there are ores and metals almost of all elements of the Mendeleev's table. The Urals takes one of the leading places in the world on stocks of raw material including chromium, iron, copper, gold, platinum, potassium salts, asbestos, gem raw materials, scattering diamonds, etc. During the last years here were revealed new and untraditional for this region kinds and types of raw material, for example, basic sources of diamonds and under-thrust oil. Targets for further such revealing are also selected. The authors develop a model of heterogeneous tectonics and metallogeny of the Urals based on advances of classical geosyncline concept, plum- and plate tectonics, synenergetics and taking into account:– mainly simatic composition of the Earth's crust;– transversal asymmetric zoning of the Uralian belt in the N-S direction;– heterogeneity of the lithosphere under the Urals, especially in the Main Uralian Fold zone and across the Urals approximately on the parallel 55 N;– belonging of the Urals to a critical 60-meridian of geoid;– influence of a rotational mode of the Earth, nonuniformity of rotation of planets of the Solar system around center of the Galaxy and other space factors of tectonogenesis;– position of the Urals between two largest independent lithosphere plates - European and Asian ones contrary to the widespread conception about the uniform Euroasian plate.