

# **METALLOGENIC ZONING AND URANIUM CONTENTS OF THE AMUR GEOBLOCK (METALLOGENIC MAP OF THE AMUR GEOBLOCK ON 1:2,500,000 SCALE-CONTIGUOUS AREAS OF RUSSIA, CHINA AND MPR)**

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The Amur Geoblock covers the Transbaikalian, the southern Far East of Russia, northeastern China and Eastern Mongolia boundary zones of Siberian and North Chinese platforms. The geoblock is characterized by higher tectonic activity from the Precambrian to the Cenozoic. The major process of the tectonic evolution is the Mesozoic tectonomagmatic activity, which accounts for the most productive metallogenic structures - volcano-plutonic belts, systems of deep faults, sedimentary basins and tectonomagmatic systems of median and old crystalline rock masses. The complicated combination of heterogenous geotectonic elements of different age with a peculiar spectrum of ore forming processes is responsible for the diversified kinds of formation of U, Au, Mo, Cu, Fe, Sn, TR deposits. The uranium contents in the Amur Geoblock and contiguous areas are controlled by F-Mo-U mineralization in connection with volcano-tectonic structures (Streltsovka type), gold-uranium mineralization in potassic metasomatites deep faults zones (Aldan type), uranium mineralization in grey beds of sedimentary basins and paleovalleys (Vitim and Mongolian types), uranium mineralization in zones of altered (clayey-zeolite and others) granites (Chikoisky type). The urgent problem for the geoblock is the prediction and prospecting of rich and profitable uranium deposits, including those of new-types, particularly deposits feasible for underground leaching.