

## **Exploration for Sandstone and Unconformity Type Uranium Deposits in the Russian Federation.**

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Significant amount of prognosticated uranium resources have been estimated in the interior territory of Russia besides known reserves. Their realization can radically change the quantitative and qualitative structure of uranium resources due to new deposits with high grades discovery or new deposits development using effective mining and processing technologies.

Geotectonic and metallogenic preconditions for ancient unconformity type deposits are revealed in Karelo-Kolsky, South Yakutia and other regions of Russia. Granville tectonic-magmatic activation is intensively developed here in the Proterozoic substratum, which is specialized for uranium. A complex of specific geologic-structural, metallogenetic and mineralogical-geochemical characteristics unites a number of uranium showings detected in these structures with Canadian and Australian unconformity type deposits.

Infiltrational sandstone type uranium deposits have been discovered in the Western and Eastern Siberia regions. They are related to Mesozoic and younger paleovalleys and have a number of specific geological and genetic characteristics. Certain preconditions for new deposits of this type discovery as well as for large strata bound infiltrational uranium deposits are detected. Estimated perspectives and criteria for uranium favourability are basic for future exploration in Russia.