

## PROTEROZOIC CRUSTAL EVOLUTION OF THE SIBERIAN CRATON: AN OVERVIEW

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U-Pb zircon geochronological and Nd isotopic data obtained during last ten years indicate that continental crust of the Siberian Craton was formed during Early Archaean (3.8-3.5 Ga), Late Archaean (3.1-2.8 Ga) and Paleoproterozoic (2.4-2.0, 1.87-1.85 and 1.74-1.71 Ga) crust-forming events and was reworked during Early Archaean (3.3-3.2 Ga), Late Archaean (3.0 and 2.7-2.6 Ga) and Early Proterozoic (2.4 and 2.0-1.9 Ga) tectono-thermal events. These data show that significant part of continental crust of the Siberian Craton was generated as a result of Paleoproterozoic crust-forming events. At present Paleoproterozoic juvenile sources have been established for (Nd model age): metasediments and metavolcanics of supracrustal belts of the connection zone between Olekma granite-greenstone and Aldan granulite-gneiss terranes (2.5-2.3 Ga), Ungra gabbro-diorite-tonalite-trondhjemite complex (2.4-2.0 Ga), metavolcanics of the Fedorov Group (2.4-2.2 Ga) and tonalite-trondhjemite complex (2.4-2.0 Ga) of the Central-Aldan terrane, high-grade metasedimentary rocks of the East-Aldan terrane (2.7-2.1 Ga) of the Aldan Shield and Hapchan terrane of the Anabar Shield (2.4-2.0 Ga), Sharyzhgaysk uplift (2.4-2.3 Ga), Akitkan (2.4-2.2 Ga) and Ulkan (2.3-2.1 Ga) belts. Besides there are some Nd isotope data that display Paleoproterozoic (2.4-2.0 Ga) crust-forming events in the buried basement of the Siberian Platform (Tungus, Magan, Anabar and Olenek provinces). The generation of the Paleoproterozoic crust of the Siberian Craton was connected with formation of magmatic arcs systems at 2.1-2.0 Ga and Akitkan and Ulkan anorogenic belts at 1.87-1.85 Ga and 1.74-1.71 Ga. The modern architecture of the continental crust of the Siberian Craton is defined of combination Archaean and Paleoproterozoic terranes that were amalgamated by ca. 1.9 Ga.