

Geology and U-Pb isotopic ages (LA-ICP-MS) of granitoids from the Svyatoy Noss Peninsula (Baikal region, Russia)

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Geological structure of the Svyatoy Noss Peninsula includes two terranes (fig.). Northern part of the peninsula is Chernorud granulitic complex (495 ±5 Ma) [1-3]. Ol'khon amphibolitic complex composes the southern part. The metamorphic complexes are exposed to heat from the Angara-Vitim batholith.

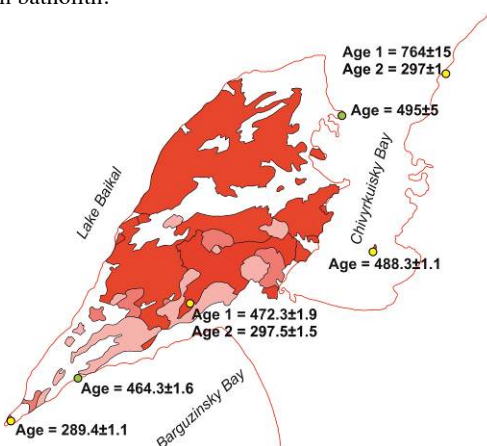


Figure: U-Pb isotopic data of igneous (yellow points) and metamorphic zircons (green points)

Age of zircons from gneisses of amphibolite facies (464,3 ± 1,6 Ma) is close to age of xenogenic zircon from the intrusive granites (472,3 ± 1,9 Ma). Ages of zircons from intrusive granitoids of Chivyrkuisky complex [4] are 299 - 288 Ma. These data confirm the correlation of metamorphic complexes of the Western and Eastern Cisbaikalia.

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[1] Travin et al. (2009), *Geochemistry Int.* **47**, 1107. [2] Mikeev et al. (2014), *Doklady Earth Sci.* **455**, 317. [3] Makrygina et al. (2008), *Geochemistry Int.* **46**, 140. [4] Tsygankov (2014), *Rus. Geology and Geophysics* **55**, 153.