

Petrology and zircon geochronology of the Hikami Granitic Rocks in south Kitakami Mountains, Japan

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The Hikami Granites, pre-Cretaceous older granitic complex of the South Kitakami Terrane, has long been controversial on their age of intrusion. Since unconformable relationship between the granites and the Silurian formation was shown by Murata et al. (1974). However CHIME age determination for the granites (Adachi et al., 1994), indicates Silurian to Permian age. We examined the zircon U-Pb ages of 13 samples from the Hikami Granitic Rocks, and solidification age of around 450 Ma were obtained.

Bulk rock chemical compositions of the Hikami granites were compared with Paleozoic granitic rocks in Japan. Petrochemical similarity between Hikami Granitic Rocks and the granitic rocks in the Kurosegawa Belt is consistent with the correlation between the South Kitakami and Kurosegawa Belts.

Keywords: Hikami Granites, zircon, U-Pb age, Petrochemistry