

Rock facies of The Hikami granitic body in south Kitakami Mountains, Japan

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The Hikami Granitic Rocks, one of the oldest granites in Japan, crops out from central to eastern part of the South Kitakami Belt. The Hikami Granitic Rocks are distributed mainly around Mt. Hikami, and northern part of small masses. The Hikami Granitic Rocks has long been controversial on their age of intrusion. Sasaki et al. (2013, 2014) examined the zircon U-Pb ages of 13 samples from the Hikami Granitic Rocks, and solidification age of around 450 Ma were obtained.

The Hikami Granitic Rocks were subdivided lithologically into nine types, A-1, A-2, A-3, A-4, B, C, D, E and F on the basis of Asakawa et al. (1999), Kobayashi and Takagi (2000). Petrochemical characteristics of major and minor elements indicate that the Hikami Granitic Rocks are derived from fractional crystallization through a common parental magma.

Keywords: Hikami Granitic Rocks, Petrochemistry, south Kitakami Mountains, Pre-Silurian

