

The tectonics evolution of metamorphic and igneous rocks embedded in the serpentinite melange from the Kurosegawa Tecton

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This study focuses petrology of the Kurosegawa Tectonic Zone, which is characterized by serpentinite melange in the Jurassic Chichibu Belt, in SW Japan. The serpentinite melange contains several blocks including high-pressure/low-temperature metamorphic rocks, high-temperature metamorphic rocks and granites. A small amount of age data obtained in previous study suggests that all rock types were formed before the Jurassic. However, detailed petrological and geochronological works on the blocks have been never performed so far. In this study, we carried out regional-scale geological, geochemical and geochronological analyses on the blocks in serpentinite from the western part of Kyushu to the eastern part of Kii peninsula.

Keywords: Kurosegawa Tectonic Zone, U-Pb zircon age