

Multi-chronology method applies to the Yamagami metamorphic rocks in the East-Abukuma belt.

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To examine multi-chronological analyses for a single metamorphic rock sample will describe history from sedimentation to exhumation of metamorphic belt. Recently, Tsutsumi et al (in prep.) applied this method to the Sanbagawa metamorphic rocks, and they succeeded to clarify complicated feature of high-pressure type metamorphism.

The Yamagami metamorphic rocks of the East-Abukuma belt are important to consider eastward extension of the Paleozoic metamorphic rocks in SW Japan. The Yamagami metamorphic rocks has the high pressure type in nature, for instance, pelites have paragonite as inclusion of zircon and rutile. The K-Ar radiometric ages of white mica in pelites show from 318Ma to 287Ma. These ages correspond to the Renge metamorphic rocks (Tsujimori and Itaya, 1999). The Nd-Sm system and Rb-Sr system will be also reported in the presentation.

Y., Tsutsumi. A., Miyashita, and H., Hidaka (in prep.): SHRIMP U-Pb dating of detrital zircons from Sanbagawa Belt, Kanto Mountains, Japan: implication for restructuring its chronological history.

Tsujimori and Itaya (1999): Blueschist-facies metamorphism during Paleozoic orogeny in southwestern Japan, Island Arc, 190-211, 205.