

# Relationship between chemistry and geometry of crack sealed veins in the Sambagawa metamorphic rocks

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Sambagawa metamorphic rocks are Jurassic accretionary complex metamorphosed and extruded during the Cretaceous. They are believed to have subducted to the depth of mantle wedge under the island arc, for the evidence that accompanied by eclogites and mantle rocks. Previous studies in Shikoku (Narita, 1995MS, Toriumi & Hara, 1995) and Kanto (Toriumi & Yamaguchi, 2000) revealed that many crack sealed veins developed systematically within the Sambagawa metamorphic rocks which implies the fluid interfillation and mineral solidification occurred tectonically. With this point of view, in order to understand the rock deformation and fluid interaction at deep part of the subduction zone, chemistry and microstructure of minerals in crack sealed veins are investigated in the Central Shikoku.