

Paleostress Regime Transition in the Shan Scarp Shear Zone and its Relationship with Crustal Deformation of the Western Shan Plateau Region, Myanmar

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Abstract

The present study area is a structural discontinuity between Shan Plateau in the east and Sagaing Fault in the west. It appears as NNW-SSE trending strike-slip shear zone and Mogok Metamorphic Rocks; Mesozoic granitoid rocks and Paleozoic to Mesozoic metasedimentary and sedimentary rocks of western Shan Plateau region are well exposed. The prominent NNW-SSE trending structural features were cross cut by nearly NE-SW trending features and then these structures were intersected by nearly NW-SE to NNW-SSE Brittle lateral faults. Ductile and Brittle structural fabrics are associated with the major features of the Mogok Metamorphic Belt, the Shan Scarp Shear zone and the Sagaing Fault. The fabric developments reveal the information on the strain tensors transition of deeper ductile stretching deformation to brittle deformation in shallow levels of the crust.