

Structural analysis of amphibolites in the metamorphic sole beneath the Samail ophiolite, Sultanate of Oman

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Asymmetric microstructures in amphibolites in the Wadi Tayin area, Sultanate of Oman, were investigated in the outcrops. Asymmetric porphyroclast systems of plagioclase are prominent in the middle and lower horizons in the amphibolites. These asymmetric microstructures are absent in the upper horizons close to the ultramafic rocks. The shear sense deduced from these microstructures show the top to SW movement, which is consistent to well believed kinematics.