

Occurrence of the fault rocks generated in cataclastic-plastic transition zone: an example in the Hatagawa Fault Zone, Japan

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The transition in deformation mechanism from brittle fracture and cataclastic flow to plastic flow is important in understanding the seismic source mechanics and frictional behavior of faults and shear zones. We will show several aspects of cataclastic-plastic transition in the fault rocks from the small-scale anastomosed shear zones in the Abukuma Granite on the west of the Hatagawa Fault Zone. We also describe precisely one outcrop where conjugate and splayed shear zones involving closely associated pseudotachylyte, cataclasite and ultramylonite.