

Interaction between fault geometry, intrafault material, and faulting at the Ushikubi shear zone, central Japan. (Preliminary)

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Recently, few researchers reported existence of dynamic or static strength decrease process on the fault plane (Di Toro et al., 2004, Han et al., 2005, Takahashi et al., 2006). On the other hand, relationship between fault geometry and intrafault material was well known (e.g. Sibson 1986, 1987). But, the research which was argued concerning these three relations is little.

So, I'll perform preliminary report of one example at the Ushikubi shear zone, in central japan. There is possibility that existing of interaction between fault geometry, intrafault material, and deformation (coseismic/interseismic) behavior. Especially in this example, graphite accomplish the important role to drastic reduction of frictional coefficient on the fault plane.