J245-004

Room: 202

Estimation of frictional properties by comparing propagation speed of postseismic slip with numerical simulation results

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We have investigated relations between the postseismic slip process, effective normal stress, and friction parameters for a rateand state-dependent friction (RSF) law using 3-D numerical simulations of a subduction zone. For slowness- and slip-laws, the results show that the postseismic propagation speed largely depends on A(=aZ), where 'a' is a frictional parameter describing the friction law and Z is the effective normal stress. Now we have been simulating other versions such as composite-, PRZ- and so on, to know the possibility of detecting the actual version of the RSF.