Changes in CFF of inland faults in Southwest Japan associated with the earthquake cycles of the PHS

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In this study, we utilized 3-D FEM code (Yoshioka and Suzuki,1997) to evaluate changes in Coulomb Failure Function of inland faults in southwest Japan with respect to the earthquake cycles of Philippine Sea plate based on the dislocation model of Savage(1983). With fixed boundary conditions at infinite distances, the deformation due to steady slip on the whole plate interface is too large to express the rigid plate motion. Thus, the result from the model neglecting the steady slip is in more harmony with observations.