

Characterizing slip models of inland earthquakes in Japan

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We estimate the slip model of recent three M6 class earthquakes with a same source inversion procedure using records of K-net. We obtain asperity parameters of three earthquakes following the same criterion by Somerville et al.(1999). Rupture areas and combined areas of asperities of three earthquakes agree with those deduced from the empirical relation obtained by Somerville et al.(1999). Based on the obtained rupture area and combined areas of asperities, we constitute "characterized source models" of three events. Synthetic waveforms calculated from the characterized source models possess main features of those calculated from the inverted rupture models.