

Source process of the 1944 Tonankai earthquake inferred from JMA strong motion records

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The Tonankai earthquake (Mj 7.9) of December 7, 1944 is investigated using low gain strong motion data at four observatories of Japan Meteorological Agency. A few subevents are identified during the first 30 sec. The sum of the seismic moment for this duration is 5×10^{19} Nm, which is only 1/25 of the total seismic moment obtained by long-period surface waves and geodetic data. This suggests that the moment release occurred mainly after 30 sec of the initial break.