

Source process of the 1946 Nankai earthquake estimated from JMA seismograms

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Source process of the 1946 Nankai earthquake was estimated from JMA seismograms. Waves of 2 subevents which arrived after initial phases were observed with many stations. At Kochi station, waves of large amplitude and long periods were observed after about 50 s of the P-wave. Hypocenters of 3 subevents were determined from P and S arrival times of each subevent. The initial event (M6.1) occurred at southern off about 50km distant from Shionomisaki. Rupture propagated to the NNW direction with velocity of 1.9 km/s, and the second event (M8.0) began after 15 s of the initial rupture. The rupture propagated to westward with velocity of 3.7 km/s, and third event began to occur around Tosa bay after 53s of the second event.