

Strong motion simulation for characterized source model of the Tottori-ken Seibu earthquake in comparison with observed records

Mitsuko Furumura[1], Kazuo Hamada[2], Toshiaki Sato[3], Kazuo Dan[3], Katsuhiro Kamae[4], Kojiro Irikura[5]

[1] ERC, ADEP, [2] ADEP, [3] Ohsaki Research Institute, Inc., [4] Reaserch Reactor Institute, Kyoto Univ., [5] Disas. Prev. Res. Inst., Kyoto Univ.

Characterized source models for inland earthquakes and strong ground motions near the fault were investigated, using heterogeneous slip models of the 2000 Tottori-ken Seibu earthquake. We constructed three source models, based on the existing ideas on characterizing fault heterogeneity from the source models estimated by the waveform inversion. Strong ground motions for the source models at three KiK-net stations were simulated by semi-empirical and theoretical methods. The results were compared with observed strong motion records.