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Study on strong ground motions

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Lessons of the 1995 Kobe earthquake gave us important characteristics of strong ground motions, such as, the directivity pulse, and the basin-edge effect through the ground motion simulations using the source model and the underground velocity model. After that, nation-wide strong motion networks of K-NET and KiK-net, together with JMA and related seismic intensity observed networks give valuable strong motion data to promote strong motion study. During the 2003 Tokachi-Oki earthquake, long-period ground motions at Tomakomai area were clarified by the analysis of the observed strong motion records and simulations by the waveform modelings.
It has passed for 15years after the Kobe earthquake, we do not have an experience of seismic disaster such as the Kobe in Japan. However, seismic hazard is increasing for e.g. the future Nankai and Tonankai earthquakes and study on strong ground motions is needed for reducing seismic disaster.

Keywords: strong ground motions, Hyogo-Ken Nanbu earthquake, strong motion prediction