## Fault model and strong ground motion evaluation for the Nankai megathrust earthquake

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In this study, based on the estimated seismic source area and tsunami source area for the Nankai megathrust earthquake by the Cabinet Office (2012), we figured out the fault parameters for the seismic source, by the procedure of Ju *et al.* (2016) for the subduction plate-boundary earthquakes whose ruptures reach the ground surface (sea bottom). Then, we evaluated the strong ground motions at 10 locations in and around Aichi prefecture and Osaka prefecture, using the empirical Green's function method. As the results of the Nankai megathrust earthquake model, the velocity response spectra of ground motion results of NGY station were about 250cm/s at the peak period 3s, and those of OSK005 were about 100cm/s to 200cm at the period 3s to 4s.

Keywords: Subduction plate-boundary earthquakes, Surface fault breaking, Strong ground motion evaluation, Nankai megathrust earthquake, Asperity model, Empirical Green's function method







図 2 名古屋の三の丸 (NGY 観測点) における地震動評価結果(減衰定数 5%)



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