High-frequency wave radiation process of the 1994 Northridge earthquake from the envelope inversion of acceleration seismograms

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High-frequency wave radiation process on the fault plane of the 1994 Northridge earthquake (Mw=6.7) is estimated from the envelope inversion of acceleration seismograms. Radiation of high-frequency (5-10Hz) waves is large at the rupture starting point and at the area shallower than the rupture starting point. High-frequency waves is radiated from limited areas of the fault plane. Radiation of high-frequency waves is not large at the peripheries of the fault plane used in the inversion.