

Preliminary waveform inversion for the rupture process of the 2007 Noto-hanto earthquake

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A preliminary waveform inversion was conducted for the rupture process of the 2007 Noto-hanto earthquake (MJ6.9) by using aftershock records as Green's functions. The inversion is based on the multi time window method (Hartzell and Heaton, 1983). Two aftershocks were selected to be used in the inversion. As a result of the inversion, we have obtained a rupture model that can explain mainshock records in the frequency range from 0.2 to 2 Hz. The model is composed of two primary asperities; one is as deep as the hypocenter and the other is shallower than the hypocenter.