Sw-007

Estimation of near-surface structure from travel time analysis of strong-motion data of K-net

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In this study, near-surface structure beneath the Kanto District was estimated from the travel time analysis using the strongmotion data of K-net. Travel time residual is defined as the difference between observed first arrival time and theoretical travel time, which was calculated using 4-layer velocity structure used for determining the hypocenter locations. The distributions of travel time residuals for P- and S-wave obtained in this study generally correspond to results of previous studies. It is suggested that the method used in this study is applicable to the estimation of near-surface structure of wide regions.