

## Sensitivity analysis of estimation parameters for dynamic source inversion

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We examine the sensitivities among the estimation parameters of dynamic source inversion method based on the numerical analysis in 2-D SH wave fields. Rupture time, which is the one of the estimation parameters, is recognized as a worse-estimated parameter. The difficulties of estimation lead multiple rupture models to represent a given waveform set on the free surface. The differences of the rupture models are mainly affected to higher frequency components than the target frequency components which are used to estimate the rupture models.