

Evaluation of Automated Moment Tensor Determination System Using Large Earthquakes: 1993 SW Hokkaido(M7.8) and 1995 Kobe(M7.1)

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We have evaluated the performance of the automated moment tensor determination system operated at NIED by using past large earthquakes (1993 SW Hokkaido M7.8 and 1995 Kobe M7.1). For the Kobe earthquake, we have confirmed that the current system works pretty well. For the SW Hokkaido earthquake, if we take into account the result of stress test by using synthetic waveforms, this system can obtain a reliable solution. Moreover, using these datasets, we tried to obtain source time functions aiming for its realtime base analysis.