

Beginning of automatic Wphase analysis and Improvements of automatic CMT analysis in JMA

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JMA operate auto-CMT analysis using STS-1 and STS-2 seismometers. However, when "The 2011 off the Pacific coast of Tohoku Earthquake" was occur, auto-CMT analysis did not work, Because almost all domestic seismometers were clipped.

For this problem, JMA has taken the following measures.

- (1) Using velocity type strong-motion seismograph in auto-CMT analysis.
- (2) Beginning of auto-Wphase* analysis.

*Wphase is long period body wave.

In the poster, we will present their methods and results.

Additionally, when the centroid location is far from the epicenter (used as the initial value of the analysis), the result of auto-CMT analysis is not good. So we are developing grid search method to obtain the appropriate initial value.

Keywords: Wphase analysis, CMT analysis, mechanism analysis, moment magnitude, automatic processing