EXAMINATION OF FAULT PARAMETERS FOR INTRA-SLAB EARTHQUAKES AROUND THE WORLD

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Background and purpose (1)

【Headquarters for Earthquake Research Promotion, Japan (2016)】

Official procedure of evaluating fault parameters for strong motion prediction was developed for intra-slab earthquakes.

The scaling laws of fault parameters for intra-slab earthquakes which were used in this official procedure were established based on Japan earthquake data only.
Purpose of this study: Investigating the applicability of the scaling laws to intra-slab earthquakes outside Japan

We collected the fault parameters of the intra-slab earthquakes around the world, and examined the locality of the parameters.
Locations of epicenters of intra-slab earthquakes outside Japan used in this study.
Relationship between the seismic moment $M_0$ and the short-period level $A$ for intra-slab earthquakes outside Japan
Summary

Both the relationship between the seismic moment and short-period level and that between the seismic moment and asperity area of the intra-slab earthquakes outside Japan are found to be consistent with the scaling laws by Sasatani et al. (2006), which are adopted in the official procedure of Japan.
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Today Poster Session:

- **Time:** 5:15 – 7:00 pm
- **Room:** Pasadena (Exhibit Hall)
- **Poster location:** Number 149