SSS025-08 Room:302 Time:May 27 16:00-16:15

Scaling Model of Intraslab Earthquakes

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Intraslab earthquakes are particularly interested on their mechanism generating short-period seismic waves not only in the seismological field but also in the earthquake engineering aspect. We have studied the relation between short-period acceleration level A and seismic moment M_0 by large intraslab earthquakes evaluated independently. The relation has been tested against the theory of complex faulting process by Koyama(1997) and the standard omega-square model. The observation favors the former predicted by a relation of M_0 proportional to A-square. The physical background of this result will be presented.

Keywords: Intraslab earthquakes, scaling law