

Seismic quiescence in Philippine Sea Plate and Low-frequency events

Noriko Kamaya[1]; Akio Katsumata[2]

[1] JMA; [2] Meteorological Research Institute, JMA

Short-term Slow Slip Events (SSSE) and activation of low-frequency events (LFE) occur in the same time in East of Aichi Prefecture. SSSE in Aichi occurred frequently from mid-2002 to mid-2004. In the same time, seismic activity in Philippine Sea Plate was inactivated especially southern area of LFE band. After that, seismic activity was re-activated and quiescence was observed northern area of LFE band. Similar phenomena were observed in Shikoku area. We construct a model on the basis of this observation. In Philippine Sea Plate, SSSE get out stress between locked region and LFE band. On the other hand, SSSE put stress adjacent region of LFE band, where is far side of trough.