

## Successive migration of the deep low-frequency tremors observed by the data of the array observations at Aichi prefecture in 2006

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In 2006, we held a seismic array observation at Aichi prefecture with Nagoya University to observe the detailed temporal change of the deep low-frequency tremors. The observation was held from July 2006 to December 2006. The analyzed periods are from July 16 15:00 to 23:00 and from Aug. 30 0:00 to Aug 31 0:00. Each arrays are composed 6-11 seismometer systems. The horizontal slowness vectors for both arrays are obtained by the slant-stacking method. To obtain the slowness vectors of the deep low-frequency tremors which has low signal to noise ratio, the envelope stacking and cross-coefficient sum method are used. By this approach, We succeeded the monitoring of the detailed temporal change of the continuous DLFT events. Obtained temporal change of the DLFT shows the rapid migration of DLFTs with the velocity of about 40 km/hr and staying in some fixed regions. The migration direction is mostly parallel to the strike of the Philippine Sea Plate.

Moreover, a careful investigation is processed to the spectrum of a trace stacked for the arrays and a flat nature of the frequency structure from about 1.5Hz to 5Hz and a characteristic peak of about 1.7Hz are found.