

The Jan. 2006 low-frequency tremors and remarkable strain changes observed with the deep borehole instruments in Tono, Gifu

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Remarkable strain changes in 7 January to 8 February (the present), 2006 were observed by Ishii-type borehole strainmeters which were installed at 1020 m depth in Byobu-san crustal activity observatory (BYB) at Tono, Gifu prefecture. The strain records of N115E, N205E, and N250E components showed remarkable changes which were approximately 2×10^{-7} extensional strain except for the N115E. During nearly the same period, the low-frequency tremors generated under the Aichi prefecture were observed by the high sensitivity borehole seismograph in the same observatory. It is considered that the observed strain changes and low-frequency tremors are associated with the slow slip events along the subducting Philippine sea plate.