

## Abnormal crustal movement

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The abnormal changes of the seismicity and the trend of the crustal deformation at some observatories in Kinki district were reported by the research group of Kyoto University in a few years ago. GEONET data also showed the temporal change of the base line length in some stations. The recent situation and the area around Tanba region were checked.

The seismicity anomaly was found only in the Tanba region, but the abnormal crustal movement was found in the wide area. In the north Nagano prefecture, GPS data showed the change of the trend in 1999 and 2003. In the Chuetsu region, the strain was changed before the Chuetsu earthquake.