

Last strain rate irregularity in the northern Kinki district by the GPS observation

Fumio Ohya[1]

[1] DPRI, Kyoto Univ.

In the central and northern Kinki district, crustal strain changed its increasing rate on the beginning of 2003 by the strain observation in the horizontal vaults. At the same time, the seismicity at Tamba mountains decreased its activity. We make clear the extents area of this irregularity of the crustal strain by the analysis of the daily data of GEONET, which is national GPS network operated by GSI. The strain rate by GPS change with the principal axes of extension in NW-SE direction and contraction in NE-SW direction was detected only in the region on the Niigata Kobe Tectonic Line when the strain rate change by the observation in the vaults. This fact suggests that the change in the strain rate owes to the tectonic force acting on the width region. The direction of the slow slip occurred in the Tokai district is also consistent to the direction of this strain rate change.

