

Origin of the NKTZ concentrated deformation zone -anelastic deformation in the upper crust-

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We investigate the nature and origin of the concentrated deformation zone along the Japan Sea coast (NKTZ: Niigata-Kobe Tectonic Zone). We inferred from the spatial distribution of strain rates revealed by the GPS network in Japan, the stress field estimated mainly by focal mechanisms, and the strength and style of deformation in the lower crust that the strain rate accumulated in NKTZ is not elastic but anelastic.