

Change of crustal deformations after the 2011 Tohoku-oki earthquake

*Hisashi Suito¹

1.GSI of Japan

Large displacements induced by the great earthquake occurred on March 11, 2011, were observed by GEONET over the entire Japanese Islands. The maximum horizontal displacement observed by the GEONET reaches 5.4m at the tip of the Oshika peninsula. The subsidence up to 1.1m was observed by the land GPS along the Pacific coast. The postseismic deformations caused by this great earthquake are still lasting over the northeast and central Japan area.

We report the change of postseismic deformations following the 2011 Tohoku-oki earthquake. We also report the mechanisms of these postseismic deformations.

Keywords: 2011 off the Pacific coast of Tohoku earthquake, postseismic deformation