

Horizontal displacements detected by GPS measurements and estimated pressure sources in Koze and Niihama Islands, Central Japan

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Horizontal vectors observed in the Koze, Shikine and Niihama Islands, Central Japan shows no consistency of the convergence motion in The Philippine Sea Plate. Authors deduced the local displacements in the Koze Island. It suggested the volcanic crustal movements, so we estimate the pressure sources caused the horizontal movements using the Mogi-model. One pressure source is estimated on the northeast seashore of the Koze Island, and another source is estimated on the strait between the Shikine and Niihama Islands. This pressure source model is explained the extension between the Koze and Niihama Islands, and the uplift observed in Koze port by tidal observation.