V0-009

Room: C310

GPS observation results at small uninhabited islands in Izu Islands

Mariko Sato[1], Tetsuichiro Yabuki[2], Arata Sengoku[3]

[1] Hydrographic Dept., [2] Japan Hydro. Depart., [3] Geodesy and Geophys. Div., JHD

The Hydrographic Department of Japan has been monitoring crustal deformations in the southern Kanto district by using GPS since 1990. In addition to continuous observations on inhabited islands, campaign observations during a few days has been carried out annually, since 1999, at 7 small uninhabited islands in the Izu Islands in order to catch the distribution of the local crustal distortions around inhabited Izu Islands. This presentation reports the crustal deformations around the Izu Islands obtained from the observation in 1999 and 2000.

The Hydrographic Department of Japan has been monitoring crustal deformations in the southern Kanto district by using GPS since 1990. At Yokosuka, Manazuru, O Shima, Minami Izu, Kozu Shima and Miyake Shima, GPS observations have been carried out continuously now. O Shima, Kozu Shima and Miyake Shima are the volcanic inhabited islands and the observed crustal movements are strongly influenced by the volcanic activities of each islands. In addition to these continuous observations on inhabited islands, campaign observations during a few days has been carried out annually, since 1999, at 7 small uninhabited islands in the Izu Islands ; Mikomoto Shima, Udone Shima, Jinai Shima, Onbase Shima, Tadanae Shima, Zeni Su and Onohara Shima in order to catch the distribution of the local crustal distortions around inhabited Izu Islands. This presentation reports the crustal deformations around the Izu Islands obtained from the observation in 1999 and 2000. The results show movements of about 30cm to northeast at Udone Shima, about 40-50cm to the southwest at Onbase Shima and Tadanae Shima around Kozu Shima, and about 63cm to south at Onohara Shima.