

GPS traverse survey across the Yamasaki fault

Manabu Hashimoto[1], Yoshinobu Hosoi[2], Fumio Ohya[3], Torao Tanaka[4], Takehide Nakano[2], Kazuro Hirahara[5]

[1] RCEP., DPRI., Kyoto Univ, [2] RCEP, DPRI, Kyoto Univ., [3] RCEP,DPRI,Kyoto Univ, [4] Nikken Gijutsu Consultant, Ltd., [5] Earth and Planetary Sci., Nagoya Univ.

We established GPS traverse network which consists of 6 sites and is about 16 km long. Distance between observation sites are 2 ~ 6 km in 1995. We have reoccupied this network once or twice per year since then. According to the preliminary analysis, maximum displacement during 1996~1999 is 12 cm in the ESE direction of the northernmost sites relative to the Hyogo-Mitsu of GEONET by GSI. However we reserve the conclusion that this displacement is significant, since there are no systematic pattern of displacements for all sites and daily variations in horizontal components in each epoch are sometimes larger than 5 mm.