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Crustal deformation in the Rokko Mountain area observed by a dense GPS network (Preliminaries)

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In order to observe crustal deformation in the Rokko Mountain area where the Quaternary crustal movement is remarkable and the 1995 Kobe earthquake took place, 10 GPS observation sites were established. Together with 4 GSI sites they form a dense network of about 15 km x 20 km in area. Two campaigns were carried out in March and November, 1998. By the analyses including 9 neighboring GSI sites and 4 IGS sites, eastward movement of the whole region around the network relative to Tsukuba, accumulation of east-west contraction in the Osaka Bay area, and roughly north-south extension in Rokko Mountains were revealed as preliminary results. For two sites, the movements during the period March-November 1998 proved to be opposite direction to those just after the Kobe earthquake.