Focal Mechanisms in and around the Osaka Sedimentary Basin.

Makoto Nakamukae[1], Hiroshi Katao[2], Hiroo Nemoto[1], Koichi Nakagawa[3]

[1] Geosciences, Osaka City Univ., [2] RCEP, DPRI, Kyoto Univ., [3] Geosci., Osaka City Univ.

The hypocenters and the focal mechanisms of the earthquakes in Osaka basin excluding the source region of the 1995 Kobe earthquake are determined between Feb. 1995 and Aug. 1999. Considering the seismic data of 47 observation stations of DPRI, ERI, JMA, and CEORKA, the hypocenters of 135 earthquakes and 53 focal mechanisms were determined. Seismicity varies slightly between different fault systems. Similarity in seismicity obtained for earthquakes before and after the 1995 Kobe earthquake shows that the study area is seismically not so active. The azimuth of P-axis trend is dominant along the ESE-WNW, while of T-axis is lacking of any trend. Besides, there are events of normal, reverse, and strike-slip faulting indicating that the area is having locally complicated stress distribution.