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High-resolution crustal stress field in the focal region of the Western Nagano Prefecture earthquake

Yoshihisa Iio^{1*}, Shigeki Horiuchi², Yohei Yukutake³, Keita Chiba¹

¹DPRI, Kyoto Univ., ²Home seismometer, ³Hot Springs Research Institute

High-resolution crustal stress field was estimated in the focal region of the Western Nagano Prefecture earthquake, by a stress inversion of focal mechanisms. In the Western Nagano Prefecture region, microseismic activity continues for about 25 years after the 1984 Western Nagano Prefecture earthquake. A dense seismic array was operated in these 16 years and recorded more than 30000 earthquakes. By using these high quality data, stress heterogeneity along the mainshock fault and around the fault.

Keywords: intraplate earthquake, stress field, Western Nagano Prefecture earthquake, fault, focal mechanism, low velocity anomaly