

Focal Mechanisms and Regional Stress Field in the Northern Kinki District using the Dense Seismic Array

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In the northern Kinki district, we have done seismic observations using the dense seismic array stations since 2008. Total 150 temporal and permanent stations are used, and the average interval between the stations is about 5km. We get numerous mechanism data in a short time period, and the space and time resolution of the focal mechanism analyses are improved. Based on these data, we'll discuss about the feature of focal mechanisms, space and time variation of the regional stress field, and the detail mechanism distribution within aftershock sequence following the M4 class earthquakes.

Keywords: Focal mechanism, Stress field, Micro-earthquake, Dense Array Observation, Tamba plateau