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Regional stress field across Kinki and Chubu regions derived from stress inversion analysis of active fault data

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We revealed regional stress field across Kinki and Chubu regions based on stress inversion analysis of active fault data. We complied fault slip data including fault plane orientation and sense of slip (right-lateral, left-lateral, reverse, normal and combination of strike-slip and vertical-slip). A stress field composed of WNW-ESE-oriented sigma1 with almost vertical sigma3 was detected by the analysis. This suggests that Kinki and Chubu regions have been under a fairly uniform stress field in the late Quaternary.

Keywords: active faults, fault slip data, regional stress field, stress inversion analysis