

1935 and 1941 Taiwan Earthquakes

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Large earthquakes as the 1999 Taiwan Earthquake often occurred in Taiwan. In this study, we attempt to re-determine hypocenters of the 1935 earthquake (M7.1) and the 1941 earthquake (M7.0), and analyze their focal mechanisms, using data of the Taiwan Meteorological Observatory and Japan Meteorological Agency. The focal mechanism of the 1935 earthquake shows strike slip type with P-axis of almost E-W direction. This focal mechanism is consistent to a strike of the surface fault that emerged among this earthquake. Moment magnitude is roughly estimated Mw6.9 from strong seismograms in Taiwan. Focal depth of the 1941 earthquake is deeper than the 1935 earthquake. It is consistent to wider distribution of hazard area than the 1935 earthquake.