

Tectonics of the Taiwan region based on earthquakes

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The purpose of this study is to know how the relative motion between the Philippine Sea Plate and the Eurasian Plate is consumed by seismic deformation in the northwestern corner of the Philippine Sea Plate. We calculate the intraplate deformations in the two plates and the relative motion between them by using the seismic moment tensors.

The relative plate motion is mainly consumed by non-seismic processes in the Ryukyu trench region. About a half of the EW components of the relative plate motion is consumed by earthquakes in the Philippine Sea Plate and the Taiwan region.