

Active submarine faults in the Nankai Trough

Juichiro Ashi [1], Shin'ichi Kuramoto [2], Wonn Soh [3], Hidekazu Tokuyama [4]

[1] Geological Institute, Univ. Tokyo, [2] GSJ, [3] Earth and Planetary Sci., Kyushu Univ., [4] ORI, Univ. Tokyo

Active submarine faults and folds in the Nankai Trough are compiled using a combination of swath mapping and seismic reflection data. The Nankai Trough extends 700 km from the Suruga Trough to the Kyushu-Palau Ridge. The frontal part of the prism is characterized by continuous lineaments caused by imbricate thrusting approximately perpendicular to the plate convergence direction. In the middle to upper prism slope, there are NE trending large fault scarps. In the forearc basin area, active faults and folds normal to the trough axis are developed. Strike-slip faults parallel to the axis are also observed. NE trending normal and reverse faults and folds off Hyuga are thought to be caused by subduction of the Kyushu-Palau Ridge.