

The acoustic exploration and drilling project of the Median Tectonic Line active fault system at the Kitan Straits

Hirohisa Kinoshita [1], Ken Niimi [2], Motoi Inoue [3], Futoshi Nanayama [4], Eikichi Tsukuda [5], Kiyohide Mizuno [6], naoko kitada [7], Reiko Saito [7], Keiji Takemura [8], Naoto Inoue [9]

[1] Fukkenco, [2] Fukken co., [3] Yokohama Branch,Fukken.Co.Ltd, [4] Earthquake Research Dept., GSJ, [5] Geological Survey of Japan, [6] GSJ, [7] G.R.I.,Osaka, [8] Dept.Geophysics, Grad. Sci., Kyoto Univ., [9] Geosci., Osaka City Univ.

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We have investigated active faults of MTL in the Kitan Straits by using acoustic explorer and boring-machine.

The main results of acoustic exploration and core-sample analysis are as follows:

- (1) Several faults having clear activity in Holocene time are recognized.
- (2) They show a right-step echelon pattern.
- (3) We revealed two faulting events.
- (4) Vertical displacement per one faulting event is 4m.

The Median Tectonic Line (MTL) is the longest fault in Japan ,and divides southwest Japan into Inner and Outer Zones. A partition of MTL from Kii Peninsula to northwest Shikoku ,especially that named active fault system of the MTL , has been slipping laterally in the late Quaternary.

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