

## Fault distribution and activity of the MTL active fault system in the eastern part of Iyo-nada Sea, in Shikoku(preliminary report)

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We investigated the detailed submarine topography, fault distribution and fault activity of the MTL active fault system in the eastern part of Iyo-nada Sea, in Shikoku, by using single-channel seismic profiler, all-core boring and echo sounder.

These results are summarized as follows.

(1)Acoustic profiles and cores suggest that faults in the eastern part of Iyo-nada Sea have activated three or four times during Holocene.

(2)These faults shape the pull-apart basin at the offshore from Shimonada to Iyonagahama.

(3)These faults are eastwardly extended to the faults on land called the Iyo fault, Hongun fault and Kominato fault.

(4)Fault distribution and activity indicate the fact that is divided into two segments at the offshore of Gushi.