
SSS017-P19

Room: Convention Hall

Time: May 25 17:15-18:45

Seismic profiling of offshore and southwestern extension area of the Iwakuni faults, Yamaguchi Prefecture

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Seismic profiles depicting geologic structure up to 30 meters deep under sea floor of offshore and southwestern extension area of the Iwakuni faults, Yamaguchi Prefecture were obtained. The most remarkable reflection surfaces recognized in the acoustic profiles are presumed erosion surface during the Last Glacial Maximum (LGM). Sediments on the LGM were deformed by obvious fault. It means that the Iwakuni faults extend to southwestern sea area and the last earthquake event occurred after LGM.

Keywords: Iwakuni faults, offshore, active fault, seismic profiling