

Off shore active fault survey "Nunobiki sanchi eastern Fault group". Result of high resolution geostatigraphic survey.

Masatoshi Yagi^{1*}, Izumi Sakamoto², Yuka Yokoyama², yoshiyuki takino², FURUHATA, Takuma², HARADA, Yoshinobu², NEMOTO, Kenji², FUJIMAKI, Mikio⁴, Yukinobu Okamura³

¹Graduate school, Tokai University, ²School of Marine Science and Technology, Tokai University, ³Active Fault and Earthquake Research Center, ⁴Coastal ocean research,Co.

Tokai University performed high-resolution geostatigraphic survey to confirm a formation, distribution, and displacement around the coastal area of the Nunobiki sanchi eastern margin fault group around the Ise bay in 2012.

Results: In the Northern area (offshore of Suzuka city), the fault has confirmed which has not displaced new sediments. And, a number of Folds have confirmed in acoustic basement.

In the middle area (offshore of Shirako), the E-W trending spur has developed. The fault confirmed of the E-W direction on the south side of the spur. It was as harmonic as existing Shirako-Noma fault. This fault has not displaced new sediments, either. The flower structure which indicate the lateral fault confirmed on the north side of the spur.

In the southern area (offshore of Tsu city), a terrace with a gentle slope observed under the thick sediment. Also, confirmed new small scale (displacement: 0.7m~1.4m) faults (NF-6~9) which slip down new sediments (indicate about before ten thousand year).

Some active faults were observed at the southern area. And Shirako-Noma fault also has a strike-slip component was estimated.

Keywords: Active Faults, Ise Bay, Strike-slip faults, Flower structure