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Drilling survey across the active reverse fault zone along the eastern margin of the Yokote Basin, northern Japan

Hiroshi Sawa^{1*}, Mitsuhsa Watanabe², Yasuhiro Suzuki³

¹Tsuruoka Nat.Col.Tech., ²Toyo Univ., ³Nagoya Univ.

The active reverse fault zone along the eastern margin of the Yokote Basin is one of the largest active thrust fault system in northern Japan. Taniguchi et al. (2007) carried out careful interpretation of large scale air photographs for more detailed mapping of active fault traces based on observation of minute tectonic landforms. Newly mapped fault traces in the southern part of the active reverse fault zone along the eastern margin of the Yokote Basin near Yokote city. The authors carried out drilling survey across northern end of this fault traces, in Akagawa town west of Yokote city. The active faults are expressed as west facing flexure scarp which is about 1 m high. Evidence of borehole stratigraphy indicates that the faults in study area displaced progressive after about 30ka.

Keywords: active fault zone along eastern margin of Yokote Basin, active fault, reverse fault, drilling survey