

Recent rupture history of the Fukaya fault system in the northwest part of the Kanto Plain

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<http://unit.aist.go.jp/actfault/activef.html>

The Fukaya fault system, having NW- SE trend, is a long active fault zone in the northwest part of the Kanto Plain. Arrayed boring and trenching surveys have been conducted to clarify recent fault history.

In Takasaki, it has become clear that the cumulative vertical displacement of the volcanic mud flow deposits-ca.50ka-by fault movement reaches more than 13m, and fluvial gravels and silt-6500-7200 14C yBP- are likely to have been deformed slightly, while fluvial fan deposits-ca.1900 14C yBP- have not displaced by the fault.

In Konan, the fault considered as an antithetic fault observed at the trench site. The gravel bed older than 25ka has been displaced about 2.5m vertically and the dark brown soil-ca.5300-9400 14C yBP- has also been cut by the fault, while the black soil containing some fragments of pottery-9 -10 c- has covered the fault.

We have not obtained reliable data indicating ruptures on the Fukaya fault system during a large earthquake in AD 818.