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Geomorphological Evidence for Left Lateral Faulting along the Ayasegawa Fault

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The Ayasegawa fault extends with NW-SE trending across the Omiya lowland within the central part of the Kanto depositional basin. The tectonic geomorphology is obscured along this fault, as the rivers and terrace risers are parallel to the fault, and the terraces of the late Pleistocene are covered with thick tephra (Kanto loam) from Mt. Fuji and Mt. Hakone.

This study presents the several geomorphological evidence for left lateral faulting along the Ayasegawa fault. The fault scarps with tectonic bulge are faced to the North on the Northern part of this fault, while the scarps are faced to the South on the Southern part. Several risers and incisions of the Omiya terraces are offset by 100-200m along the fault scarps.

Keywords: active fault, strike-slip fault, Omiya upland, Ayasegawa fault, fault geomorphology