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Tectonic geomorphology and subsurface geology of active folds in the Nagaoka Plain, Niigata Prefecture, central Japan

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Tectonic geomorphology and subsurface geology of the western and eastern margins of the Nagaoka Plain, Niigata Prefecture were mapped on the basis of aerial photograph interpretation, field observations, and analysis of subsurface geologic data. Left-stepping en echelon active folds develop along the western margin of the plain. These folds are interpreted to be fault-propagation folds above steeply west-dipping reverse faults. These faults appear to have moved during Holocene time because geomorphic surfaces of late Holocene age are warped into monocline at several localities. The eastern margin of the Nagaoka Plain is also marked by fault and fold scarps for a distance of about 10 km.

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