

Timing and displacement of the most recent faulting on the active reverse fault zone along the western margin of Kitakami Lowland

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The Kitakami Lowland, running parallel to the volcanic front of Northeast Japan, is a typical tectonic depression delineated by active faults. To date the most recent faulting event on the active reverse fault zone along the western margin of Kitakami Lowland, we extracted vertical thin sections of unconsolidated soil layers by the Geoslicer across the flexure scarp of the Uwandaira fault on the alluvial fan at Kita-yuguchi, Hanamaki city. Geoslicing showed that the humus, parallel to the flexure scarp, underlies the alluvial fan. The most recent faulting event occurred after 3300yrB. We estimated 1 to 2 m vertical displacement up on the west based on the high of flexure scarp and underground humus. The interval between most recent event and penultimate event is 1200 to 4500 years. This figure is much shorter than it on the previous study.