

Evolution style of large-scale landslide with deep-seated gravitational slope deformation

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The large-scale landslide are dominant distributed in the Akaisi Mountain Range, central Japan. Ridge-top depressions, multiple ridges, and uphill-facing scarps due to deep-seated slope deformation are reported around these landslide.

The deformation left ridge-top depressions and uphill-facing scarps at the upper part of the mountain. In Oya landslide area, the ridge-top depression was made earlier than 20 ka BP and uphill-facing scarps lower than those were formed in about 10 ka BP, which has been clarified by the trenching and tephra analysis of depression-filling deposits.