

Result of excavation survey on the eastern part of Atotsugawa fault

Akimitsu Takebe[1], Akira Takeuchi[2], baator Has[3], Kaoru Sakogaichi[1]

[1] Mindeco, [2] Dept. Earth Sci., Toyama Univ., [3] Earth Sci., Toyama Univ

The studies on the Atotsugawa active fault system(AFS) started in April 1996 as a link to "Frontier Research for Terrestrial Subsurface". Under the project, we conducted a fault excavation survey across the eastern part of Atotsugawa fault(AF) on a marsh overlying lacustrine deposits nearby a large outcrop of AF where flexure of the lower lacustrine layers by vertical offset along AF is clearly visible.

The trench was excavated at a right angle to the trace of AF and the size was approximately 2m deep and 20m long. Several blocks of small landslide and their glide planes were exposed on the trench walls. These structures were considered caused by fault activities of AF. Radiocarbon dates show the 5 or 6 earthquake events occurred in last 24,000years around eastern part of AF.