

Result of excavation survey on the Mozumi-Sukenobu fault, the Atotsugawa fault system

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The studies on the Atotsugawa active fault system (AFS) started in April 1996 as the project of "Frontier Research for Terrestrial Subsurface". Under the project, we conducted fault excavation survey across the Mozumi-Sukenobu fault (MSF), one of the AFS, at Mozumi pass by using "Geo-slicer sampler" which extracting vertical thin sections of unconsolidated sediments.

The latest three events are dated as after 310y.B.P (event No.1), between 16,700y.B.P and 22,740y.B.P (event No.2) and before 26,830y.B.P (event No.3). The event No.1 can be correlated to the 1858 Hietsu Earthquake. The average recurrence interval of the MSF for last three events is about 19,000 years. It shows more than ten times of the interval of Atotsugawa fault, main fault of AFS .