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Active tectonics on the middle part of Tokachi-Plain Fault Zone, Hokkaido, Japan

Wataru Hirose[1], Sunao Ohtsu[1], Jun Tajika[1], masazo takami[1]

[1] Geol.Surv.Hokkaido

http://www.gsh.pref.hokkaido.jp/index.html

Tokachi-Plain Active Fault Zone exists at the eastern side of Tokachi Plain, and would be active until now. Detailed survey of these faults has started by Hokkaido Local Government until 2001.

Asahi fault, located at the middle part of Tokachi-Plain Active Fault Zone, is reverse fault uplifted onto the western side. Pliocene - Pleistocene Ikeda formation had been steepen by the fault. Liner scarps, similar to flexure scarps, appeared at two points on the river terrace (T9), not on T10. From the northern scarp (2m in height), slip rate could be estimated 0.17 m / ka. However, arrayed boring at the southern scarp revealed the possibility that the scarp would be formed by erosion.

Shallow seismic reflection survey have dune to investigate the subsurface structure of the middle part of Tokachi Active Fault Zone. Obvious flexure zone exist at the eastern side of the survey line. This flexure is 500 m wide and uprise at eastern side. This flexure coincides with the southern extension of Asahi fault. This subsurface flexure agree with the bouguer anomaly survey, that increase at the eastern side on the flexure. On the other hands, reflection data indicates that the weak westward tilting exists at western edge of the survey line. This tilting may correspond to the northern extension of Tobetsugawa Fault.