

A geomorphological project about the seismic barrier system around Lake Furenko

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There is an active barrier system around Lake Furenko in eastern Hokkaido. In general, the barrier system is a typical depositional system during transgression stage, however, many regions of Japan is a regression stage since 5000-6000 years ago. There are two major reasons about this issue. First, sea level is almost stable since 5500 years ago in this area. Second, this area has been affected by seismic activity of the Kuril subduction zone. The last unusual earthquake caused in the 17th centuries and this area has been subsided at a rate of 8.5mm/year. We want to clarify detail sedimentological and geomorphological process of the Furenko barrier system in the next three years.

Keywords: Lake Furen, seismic barrier system, unusual earthquake, transgressive stage, sea level change, eastern Hokkaido

