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## Developmental process of Holocene barrier system around Akkeshi bay area, eastern Hokkaido, northern Japan

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There is some currently working barrier system in the Pacific coast of eastern Hokkaido, which is very rare in Japan. For example, Akkeshi-ko lagoon is separated from sea by sand spits situated Akkeshi Town. There is a tidal inlet between lagoon and sea, and also a typical tidal flood delta with modern oyster reef in the center of this lagoon. However we did not understand development process of Akkeshi barrier system formed during the Holocene transgression, because the postglacial sea-level research has stalled in this area since Maeda et al. (1992). According to cooperation by the Hokkaido Regional Development Bureau and Akkeshi Town office, we tried to summarize alluvial borehole data of coastal lowland in this town and also analyzed the offshore drilling cores taken in winter 2009 years using sedimentological and paleontological techniques. We got some new knowledge about this issue.

Keywords: eastern Hokkaido, Akkeshi bay area, Holocene, barrier system, sea level change, tidal flood delta