

Stratigraphic succession for large tsunami traces along Nemuro coastal zone

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Along the Pacific coastal zone of Eastern Hokkaido, research tsunami deposits in lake deposits and peat layers in the Holocene, have been increasingly conducted since the first report by Nanayama and Shigeno (1998). It is thus believed that this growing academic interest contributed to the establishment of stratigraphy for the large tsunami traces extending from Tokachi coast to Kiritappu marsh (Nanayama et al., 2003). Meanwhile, the stratigraphy for large tsunami traces along the Nemuro coastal zone has not been fully explained in detail. In the middle of last October, a trench survey for giant tsunami traces was conducted in this area. Our survey found an 15-layered giant tsunami trace in this area. In fact, this trace involves more layers than other large tsunami traces extending from the Tokachi coast to Kiritappu marsh. In these fact, It has been concluded that it is necessary to estimate other tsunami sources off the Habomai and Shikotan islands as well, other than tsunami sources caused by multi-segment interplate earthquake Tokachi and Nemuro.

Ref., Nanayama and Shigeno, 1998, Chikyu, no.15, 177-182; Nanayama et al., 2003, Nature, 424, 660-663.