

Sedimentation phenomena by 2003 Tokachi-oki earthquake tsunami along the Pacific coast of Hokkaido

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On 26 September 2003, a large Tokachi-oki earthquake (Mw 8.0) occurred off southern coast of Hokkaido, Japan, and the aftershock area of the 2003 event was almost the same as that of the 1952 great Tokachi-oki earthquake. The earthquake generated large tsunamis causing damage along the southern coast of Hokkaido. Immediately after the earthquake, the tsunami survey was conducted by tsunami researchers from all over Japan, and measured tsunami run-up heights along the Pacific coast of Hokkaido. In this preliminary study, we tried to summary sedimentation phenomena by 2003 tsunami, and furthermore compared with sedimentary structures of historical and prehistorical tsunami sands along the Kuril subduction zone (Nanayama et al., 2003).