

Preliminary study of tsunami deposits along the Nankai Trough, surveyed in Shinjya-ike Pond on Tomogashima Island.

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Great subduction zone earthquake tsunamis have repeated along the Nankai Trough along the Pacific coast. In Shinja-ike Pond, southern coast of Tomogashima Island in Kitan Strait, five tsunami deposits are found and named as Tsj-1 to Tsj-5. The dates of these deposits are estimated by AMS 14C method. Tsj-1 is dated as modern, and may correspond to one of the 1707 Hoei, 1854 Ansei and 1946 Showa Nankai earthquakes. Tsj-2 is dated as the late 12th to 13th century. This may correspond to an unknown event occurred in a wide time window between the 1099 and 1361 Nankai earthquakes. Tsj-3 is dated as the late 10th to 12th century and may correspond to 1099 AD Kowa-Nankai earthquake. Tsj-4 is dated about the late 5th to 7th century and may correspond to the 684 AD Hakuho Nankai earthquake.