

# Sismo-turbidites in Beppu Bay, Kyushu Island, Japan

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We investigated the simultaneity of turbidite depositions and earthquakes by using piston core samples recovered from Beppu Bay. Previous study revealed that the Beppu Bay Active Fault System caused five time earthquakes during the last 7300 years. Five layers of turbidite during the last 6000 years were recognized in the core sediments. Except the uppermost one, the deposition times of lower four layers of turbidit coincided with the occurrence times of earthquakes(AD1596,1600-2100 y cal BP,4000-4400 y cal BP,5200-5400 y cal BP). This result suggests that turbidite deposition triggered by earthquake is effective to estimate recurrence interval of the past earthquakes