

Sequence stratigraphy of marine late Pleistocene to Holocene sediment in Osaka Bay

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Acoustic survey using Uniboom system was carried out in Osaka Bay along its longitudinal axis. In addition to three remarkable reflectors which are correlated to wide-spread tephra, many minor reflectors are observed. Based on sedimentary structures shown by the minor reflectors, transgressive systems tract and highstand systems tract can be observed. Between the two systems tracts, maximum flooding surface is supposed to exist. The age of maximum flooding surface is supposed to be between 8000YBP and 7500YBP which are older about 2000 to 1000 years than the ages expected in other areas. Sequence stratigraphic study confirms lithostratigraphy which is established based on the facies of sediment. However, the unconformity being expected between the two systems tracts is not present.