

High resolution records in the Japanese coastal and slope regions for the last 3000 years

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Very recently, PAGES programme 2K network, to collect the best time series and spatial reconstructions of important state variables of the climate system, is ongoing. Behind the scenes is the awareness of an importance of the reconstructed maps and timeseries during the last 2 kyrs to be analyzed in combination with the best ensemble runs of existing Earth system models. In many parts of the globe high-resolution (spatially and temporally) paleorecords for comparison with model simulations are very sparse. This is particularly true for adequate paleoceanographic records because of the uncertainty of age and the limitation of resolution. Severe lack of paleoceanographic records for the last 2K could no longer be ignored to understand regional climate dynamics and the predictions. Here we present the work of high-resolution paleoceanographic reconstructions for the last 3K and discuss possibility of reconstruction of PDO-like climate patterns using TEX86 and alkenon thermometry and fossil scales of Japanese sardine in sediments of Beppu Bay, southwest Japan.

Keywords: ASIA 2K, Coastal and shelf/slope paleoceanography, TEX86, alkenon thermometry, Japanese sardine scale, PDO