

History of multi segment earthquake recorded on emerged sessile assemblage in the southern part of Kii Peninsula

Masanobu Shishikura[1]; Tomoo Echigo[2]; Hideaki Maemoku[3]; Tatsuya Ishiyama[4]; Asaka Nagai[5]

[1] Active Fault Research Center, AIST, GSJ; [2] GRI; [3] Geography, Edu., Hiroshima Univ.; [4] Tohoku University; [5] Education, Hiroshima Univ.

To re-evaluate the uplift history associated with interplate earthquake caused from the Nankai Trough, we investigated the height distribution and ages of uplifted sessile assemblages along the southern coast of the Kii Peninsula. Based on analysis of structure and radiocarbon age of assemblage, it is recognized that some assemblages are composed of layered structure that was developed during 500-600 years. Each layer has been formed every 100-150 years. We interpreted that layered structure was formed by repetitions of coseismic uplift and interseismic subsidence associated with interplate earthquake. It is inferred that these developed assemblages were emerged during the unusual event with larger uplift that recurred with interval of at least 500-600 years.