
[JJ] Evening Poster | H (Human Geosciences) | H-QR Quaternary research

[H-QR04]Quaternary, Diachronic dynamics of human-environment interactions

convener:Mamoru Koarai(Earth Science course, College of Science, Ibaraki University), Toshihiko Sugai(Department of Natural Environmental Studies, Institute of Environmental Studies, Graduate School of Frontier Science, The University of Tokyo), Kiyohide Mizuno(国立研究開発法人産業技術総合研究所地質情報研究部門, 共同), Minoru YONEDA(The University Museum, The University of Tokyo)
 Sun. May 20, 2018 5:15 PM - 6:30 PM Poster Hall (International Exhibition Hall7, Makuhari Messe)
 Humans have attained their specific development by indigenous cultures and evolved through environmental adaptation. The session raises issues of human-environmental interactions, views from diverse changes of climate, ocean, land and biota having made striking influence on humans. It welcomes various fields from human-environment change and their chronometric dating among Quaternary disciplines.

[HQR04-P04]Environmental change from diatom analysis since MIS7 to Jomon Transgression in the Omoikawa lowland and North Nakagawa lowland, the Kanto plain

*Marie Noguchi¹, Shigeko Ishiwata, Shigeto Osato², Toshihiko Sugai³, Suginaka Yusuke⁴, Kunihiro Endo⁵
 (1.Paleo Labo co.,Ltd., 2.Doshitsu Research Corporation, 3.Department of Natural Environmental Studies, Institute of Environmental Studies, Graduate School of Frontier Science, The University of Tokyo, 4.Research Center of Computational Mechanics, Inc., 5.Nihon University)

Keywords:diatom analysis, Jomon Transgression, MIS5e, Kurihashi, Goka, Boring core

Paleoenvironments of MIS7 to MIS1 in the northern part of Nakagawa Lowland and Omoikawa Lowland were investigated. During the Holocene, marine transgression reached to Kurihashi area, but not to Omoikawa Lowland (Noguchi *et al.*, 2017).

At the eastern side of Omoikawa and Nakagawa Lowlands, Koga terrace (MIS5a to MIS5e, Kaizuka *et al.*, 2000) is situated, extending to Kurihashi. Goka terrace is very low terrace near Kurihashi. Tone River is going through Koga terrace and Goka terrace, by construction of the new channel. As a result, topographical and geological conditions in Kurihashi and Goka areas are very complicated.

We analyzed the topography and geology in this area using many boring data. This shows the Goka terrace is composed of Joso F. (MIS5c) and marine mud of MIS5e below -14m. The latter may be the same horizon as C unit of Omoikawa core, which is characterized by inner-bay environment by diatom analysis. From these, paleoenvironments during Inner-Tokyo Bay (MIS1) and Paleo-Tokyo bay (MIS7 to MIS5), along with the basal topography of Chuseki-so will be discussed.