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MIS27-P24

会場:コンベンションホール

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IODP Expedition 334の古海洋学研究の予察的結果 Preliminary results of paleoceanographic study of IODP Expedition 334

大串 健一 ^{1*}, Paola Vannucchi², 氏家 恒太郎 ³, IODP Expedition 334 Scientific Party⁴ OHKUSHI, Kenichi^{1*}, Paola Vannucchi², UJIIE, Kohtaro³, IODP Expedition 334 Scientific Party⁴

¹ 神戸大学人間発達環境学研究科, ²University of Florence, ³ 筑波大学地球科学系, ⁴Texas A&M University

The East equatorial Pacific marginal sea off Costa Rica is one of the most important region to understnad latitudinalshift of Intertropical Convergence Zone (ITCZ) and ventilation changes in intermediate waters of south or north origin during the Quaternary. We successfully obtained excellent sediment core samples from the upper slope and continental self off Costa Rica during Intergrated Ocean Drilling Program (IODP) Expedition 334 (Costa Rica Seismogenesis Project; CRISP) of the D/V Joides Resolution. In these cores, we selected cores U1378B and U1379C as reasonable cores for our Quaternary paleoceanographic study. Now we are analyzing benthic foraminiferal assemblages, organic carbon contents, and Corg/N ratio from these cores. Moreover, we will analyze foramniferal oxygen isotope ratio and carbonate content in core U1378B to construct the isotope stratigraphy and recontruct intermediate water ventilation changes related with glacial- interglacial climate shift. The preliminary results of biostratigraphic ages obtained from core U1378B indicate high sediment accumulation rate of about 283-296 m/my in the upper 34-35m. The result is based on the extinction horizon (120 kyr) of planktonic foraminifera Globigerinoides ruber (pink specimens). Thus, the sedimentary horizon would correspond to the peak last interglacial event of marine isotope stage 5. We will report on preliminary results of paleoceanographic analyses in these cores. We thank IODP cruise staff for their kind support during the CRISP cruise.

¹Kobe University, ²University of Florence, ³University of Tsukuba, ⁴Texas A&M University