Japan Geoscience Union Meeting 2012

(May 20-25 2012 at Makuhari, Chiba, Japan)

©2012. Japan Geoscience Union. All Rights Reserved.



APE33-17

会場:103

時間:5月24日14:00-14:15

Polycystine radiolarian fauna and paleoceanographical changes in the Shimokita Peninsula through the last 750 ky.

Polycystine radiolarian fauna and paleoceanographical changes in the Shimokita Peninsula through the last 750 ky.

Kenji M.R Matsuzaki^{1*}, Noritoshi Suzuki¹, Hiroshi Nishi² MATSUZAKI, Kenji M.R.^{1*}, SUZUKI, Noritoshi¹, NISHI, Hiroshi²

¹Institute of Geology and Paleontology, Graduate School of Science, Tohoku University, ²The Center for Academic Resources and Archives, The Tohoku Museum Tohoku University

¹Institute of Geology and Paleontology, Graduate School of Science, Tohoku University, ²The Center for Academic Resources and Archives, The Tohoku Museum Tohoku University

The Northwestern Japanese Pacific Ocean margin is a region presenting high water masses mixing caused by the influences of three distinct currents (the Kuroshio Current, the Tsugaru Current, and the Oyashio Current). Our Studied Site, the Shimokita region located in front of the Tsugaru Strait, is a region directly influenced by the Tsugaru Warm Current, and the Oyashio Subarctic Current. Many studies of this region concerning the last 50 ky have been conducted for understand this region oceanographic changes through the late Pleistocene. At this time there are no long term palecoceanographical studies of this region for period older than the last 150 ky. In this context the core hole C9001C drilled at the 1,180 m water depths of the sea-bottom in the D/V Chikyu 2006 Mission, is an excellent example of a stratigraphic succession off Japan. This core has a high sedimentation rate and provides a nearly continuous record from MIS 18 (750 ka) to present, covering the Brunhes normal polarity epoch. Polycystine radiolarians due to their water masses vertical distribution, and their ecological properties is the most efficient micropaleontological proxy for establish paleoceanographical study of this region. The purpose of this study is to establish the first long term polycystine radiolarian assemblages faunal evolution of this region, and discuss the polycystine radiolarian faunal evolution through the last 750 ky. In this context we will focus our study on the unusual climatic change event as the Matsuyama/ Bruhnes magnetic susceptibility reversal period, the Mid Bruhnes event (400-300 ky after Jansen et al., 1986), the MIS 9, the MIS 8 and the MIS 6.5 (Martinson et al., 1987).

キーワード: Polycystine Radiolarian, Paleoceanography, Fauna evolution, Mid Bruhnes Event, MIS 9, MIS 8 Keywords: Polycystine Radiolarian, Paleoceanography, Fauna evolution, Mid Bruhnes Event, MIS 9, MIS 8