
Oral | Symbol M (Multidisciplinary and Interdisciplinary) | M-IS Intersection

[M-IS25_28AM2] Evolution of the Pelagic Realm

Convener: *Atsushi Matsuoka (Department of Geology, Faculty of Science, Niigata University), Toshiyuki Kurihara (Graduate School of Science and Technology, Niigata University), Yasuhiro Kato (Department of Systems Innovation, Graduate School of Engineering, University of Tokyo), Tetsuji Onoue (Earth and Environmental Sciences, Faculty of Science, Kagoshima University), Katsunori Kimoto (Japan Agency for Marine-Earth Science and Technology), Tatsuo Nozaki (Institute for Research on Earth Evolution, Japan Agency for Marine-Earth Science and Technology), Hayato Ueda (Faculty of Education, Hirosaki University), Kenta Kobayashi (Department of Geology, Faculty of Science, Niigata University), Takashi Hasegawa (Division of Global Environmental Science and Engineering, Graduate School of Natural Science and Technology, Kanazawa University), Chair: Atsushi Matsuoka (Department of Geology, Faculty of Science, Niigata University)

Mon. Apr 28, 2014 11:00 AM - 12:45 PM 411 (4F)

This session focuses on the evolution of ecosystem in the pelagic realms, including discussions on all aspects of pelagic biota covering biostratigraphy, biochronology, evolution, and biogeography, which are important to the reconstruction of the spatio-temporal framework in the pelagic realm. Reconstructions of plate configuration through time are included in the scope of this session. Biological, geochemical, sedimentological approaches to the pelagic environments are welcomed.

11:30 AM - 11:45 AM

[MIS25-P01_PG] Is the growth hiatus of ferromanganese crusts a local or global event?

3-min talk in an oral session

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Keywords: ferromanganese crust, Os isotope, geochemistry, growth hiatus, paleoceanography

Recent applications of an Os isotope dating method revealed that some ferromanganese crusts collected from the Pacific Ocean might have experienced the growth hiatus. However, it is still controversial whether this growth hiatus was a local or global event. In the present study, we discuss the geological trigger of this growth hiatus based on our results of the Os isotope dating on various ferromanganese crust samples collected from Northwestern Pacific, South Atlantic Oceans and Philippine Sea.