

Japan Geoscience Union Meeting 2011

(May 22-27 2011 at Makuhari, Chiba, Japan)

©2011. Japan Geoscience Union. All Rights Reserved.



MIS025-04

Room:104

Time:May 24 09:15-09:30

Reconstruction of Os isotope record of the Triassic seawater based on chert samples from the Sakahogi Section, Mino Belt

Tatsuo Nozaki^{1*}, Takashi Nikaido², Yutaro Takaya³, Katsuhiko Suzuki¹, Yasuhiro Kato³, Atsushi Matsuoka²

¹JAMSTEC/IFREE, ²Niigata Univ., ³Univ. of Tokyo

We reconstruct the secular change of the Triassic marine Os isotope record based on the chert samples, Sakahogi Section, Mino Belt. The Sakahogi section is one of the most suitable sections in order to decipher paleo-ocean environmental change due to its perfectly continuous stratigraphy ranging from the Early Anisian to Early Rhaetian (ca. 40 Myr). Our main goals are (1) understanding the amplitude of the Os isotope variation in the Triassic seawater, (2) comparing the marine Os isotope record with that of Sr isotope and (3) elucidating the paleo-ocean environmental change based on the Os isotope record together with whole-rock major and trace element geochemistry.

Keywords: Os isotope composition, Triassic, paleo-ocean environment, chert, Sakahogi Section, Mino Belt