Japan Geoscience Union Meeting 2015

(May 24th - 28th at Makuhari, Chiba, Japan)

©2015. Japan Geoscience Union. All Rights Reserved.



BPT23-21 Room:104 Time:May 25 16:15-16:30

REY-rich mud within the Minamitorishima EEZ - A general overview of the latest research results -

KATO, Yasuhiro^{1*} ; FUJINAGA, Koichiro¹ ; NAKAMURA, Kentaro¹ ; YASUKAWA, Kazutaka¹ ; OHTA, Junichiro¹ ; TAKAYA, Yutaro² ; IIJIMA, Koichi² ; NOZAKI, Tatsuo² ; KIMURA, Jun-ichi² ; SUZUKI, Katsuhiko² ; IWAMORI, Hikaru²

In 2013, we confirmed the presence of rare-earth elements and yttrium (REY)-rich mud containing more than 6,000 ppm of total REY within the Japanese Exclusive Economic Zone (EEZ) surrounding Minamitorishima Island. Since the discovery of the "extremely REY-rich mud", we have conducted a variety of approaches such as geochemical analyses, detailed microscopic observations, REY-leaching experiments, application of sub-bottom profiling to the exploration, and statistical analysis of the geochemical data set, towards the exploitation of the new and highly promising REY-resource in the near future. Here we report a general overview of the latest research results on REY-rich mud in the Minamitorishima EEZ.

Keywords: deep-sea mineral resource, REY-rich mud, Minamitorishima Island

¹Univ. of Tokyo, ²JAMSTEC