

JURC-DES

Annual Meeting 2023

Scientific Program

Presentation will be mostly provided in Japanese.

Monday, February 27, 2023

9:30-9:40 Opening Remarks

- Yuji SANO, Director of CMCR
- Masanobu YAMAMOTO, Chairman of JURC-DES Review Committee

9:40-10:50 (Chairperson: Go-ichiro URAMOTO)

- O-01 9:40-9:55 **Habitat and seasonal shell growth of the extinct bivalve *Mizuhopecten tokyoensis* (Tokunaga) from the Pleistocene Umaoi Formation**
*Itsuki FUKIMOTO, Yasuo KONDO, Minoru IKEHARA, Takafumi ENYA,
Akihiko SUZUKI
- O-02 9:55-10:10 **Elemental composition and carbon stable isotope ratio distribution in surface sediments and deep water masses within the Toyama Deep-sea Channel**
*Shinpei OTSUKA, Jing ZHANG, Tomoharu SENJYU, Keiji HORIKAWA,
Sota HOSHINA
- O-03 10:10-10:25 **Source volcanoes of drift pumice along the Pacific coast of the Japanese Islands based on EPMA analysis**
*Reona HIRAMINE
- O-04 10:25-10:40 **Tephra beds presumed to have been produced by the submarine volcanos in the drilled core C9010E off the Boso Peninsula**
*Kaori AOKI, Makoto KOBAYASHI, Takayuki TAKAHASHI, Masanori MURATA,
Takehiko SUZUKI
- 10:40-10:50 Discussion

11:00-12:30 (Chairperson: Tomoyo OKUMURA)

- O-05 11:00-11:15 **Sediment core drilling in Lake Onuma, southwest Hokkaido and grain size effect on nondestructive XRF measurement**
*Nagayoshi KATSUTA, Yuma MASUKI, Hitoshi HASEGAWA, Masafumi MURAYAMA
- O-06 11:15-11:30 **Quantitative past-water temperatures during the Late Pliocene in the seas around the Japanese archipelago**
*Katsura YAMADA, Akio NAKAMURA, Toshiaki IRIZUKI, Takashi GOTO
- O-07 11:30-11:45 **Holocene relative sea-level change in the Konaruto Strait, western Japan**
*Shigehiro KATOH, Kenji IKUNO, Kazuhiro OHIRA, Kenji TSUKAMOTO
- O-08 11:45-12:00 **Reconstruction of sea surface salinity using oxygen isotope ratios in coral skeleton from Bunaken Island, Indonesia**
*Ai GENDA, Ali ARMAN, Mayuri INOUE
- O-09 12:00-12:15 **Toward Late Holocene environmental reconstruction of the western Arctic Ocean**
*Masanobu YAMAMOTO, Koji SEIKE, Leonid POLYAK, Laura GEMERY,
Young Jin JOE, Shoma UCHIDA, Minoru KOBAYASHI, Jonaotaro ONODERA,
Masafumi MURAYAMA, Masao IWAI, Yuhji YAMAMOTO, Richard JORDAN,
Katsura YAMADA, Keiji HORIKAWA, Hirofumi ASAHI, Takuto ANDO,
Kenta SUZUKI, Michinobu KUWAE, Holocene Arctic Paleoclimate and Paleocean
Investigation team
- 12:15-12:30 Discussion

13:30-15:00 (Chairperson: Erika TANAKA)

- O-10 13:30-13:45 **Noble gas analysis of fluid inclusions in ultramafic rocks from West Greenland, to reveal Archean mantle metasomatism**
*Nanae FUKUSHIMA, Hirochika SUMINO, Tomoaki MORISHITA,
Juan Miguel GUOTANA, Ikuya NISHIO, Kenichiro TANI, Pedro WATERTON,
Kristoffer SZILAS, Hikaru SAWADA, Masafumi MURAYAMA
- O-11 13:45-14:00 **Paleoenvironmental Reconstruction from micro-scale chalcophile composition in the Cretaceous-Paleogene boundary clays**
*Teruyuki MARUOKA, Yoshiro NISHIO

- O-12 14:00-14:15 **The restoration of sedimentary environment of mudstone sequences in Goto Groups, Nagasaki Prefecture, Japan**
*Hiroaki TAKAHASHI, Shoichi KIYOKAWA, Masaru YASUNAGA, Yuta IKEBATA, Minoru IKEHARA
- O-13 14:15-14:30 **Paleoenvironmental reconstruction of the early Paleogene greenhouse based on seafloor sediments of the Campbell Plateau, South Pacific Ocean**
*Kazutaka YASUKAWA, Erika TANAKA
- O-14 14:30-14:45 **Uranium extraction from carbonate standards and the isotopic analyses**
*Masako HORI, Kotaro TAKADA, Takahiro AZE, Yosuke MIYAIRI, Yusuke YOKOYAMA, Yoshiro NISHIO
- 14:45-15:00 Discussion

15:10-16:40 (Chairperson: Yuhji YAMAMOTO)

- O-15 15:10-15:25 **Contribution of Silicate-hosted Magnetic Inclusions to Paleomagnetic Signals in Sediments Subjected to Reductive Diagenesis**
*Jiaxi LI, Toshitsugu YAMAZAKI, Masahiko SATO, Junichiro KURODA
- O-16 15:25-15:40 **A paleomagnetic record across the Upper Mammoth transition from the Pliocene marine succession in the Boso Peninsula, central Japan**
*Yuki HANEDA
- O-17 15:40-15:55 **Magnetostratigraphy around the lower boundary of the Chibanian recorded in cores of the Katata Formation west of Lake Biwa, western Japan**
*Shigehiro KATOH, Masayuki HYODO
- O-18 15:55-16:10 **Non-heating separation of a detrital magnetite-carrying remanence from magnetizations of sediments with authigenic iron sulfides**
*Masayuki HYODO, Shota TANABE, Masako MIKI, Balazs BRADAK
- O-19 16:10-16:25 **Magnetic properties of the Holocene sediment recovered from the west shore of Lake Shinji: implication for paleoenvironmental reconstruction of estuary areas**
*Akira HAYASHIDA, Mizuki KAMEI, Yoshiki SAITO
- 16:25-16:40 Discussion

16:50-18:00 (Chairperson: Minoru IKEHARA)

- O-20 16:50-17:05 **Evaluation of the Holocene icesheet melting related to warm water inflow to the under Totten Glacier, East Antarctica**
*Takuya ITAKI, Yusuke SUGANUMA, Takayuki OMORI, Osamu SEKI,
Masanobu YAMAMOTO, Atsuko AMANO, Takeshige ISHIWA, Yuki HANEDA,
Minoru IKEHARA
- O-21 17:05-17:20 **Holocene paleoenvironmental changes revealed by lake sediments from Lake Nurume, East Antarctica**
*Takeshige ISHIWA, Yuki TOKUDA, Kota KATSUKI, Satoshi SASAKI, Takuya ITAKI,
Minoru IKEHARA, Yusuke SUGANUMA
- O-22 17:20-17:35 **Reconstruction of the East Antarctic Ice Sheet retreat since the LGM in Lützow-Holm Bay, East Antarctica**
*Yusuke SUGANUMA, Takuya ITAKI, Yuki HANEDA, Osamu SEKI, Takeshige ISHIWA,
Masakazu FUJII, Kazuya KUSAHARA, Daisuke HIRANO, Takayuki OMORI, Moto
KAWAMATA, Yuji KATO, Atsuko AMANO, Kota KATSUKI, Masao IWAI,
Hiroki MATSUI, Naohisa NISHIDA, Motohiro HIRABAYASHI, Hiroyuki MATSUZAKI,
Takeyasu YAMAGATA, Masato ITO, Shin SUGIYAMA, Jun'ichi OKUNO,
Minoru IKEHARA, Hideki MIURA
- O-23 17:35-17:50 **Variability in the isotope ratio of dissolved lead in the Sea of Japan**
*Kazuhiro NORISUYE, Hayato KURIYAMA, Kei OKAMURA, Kazuya NAGAISHI,
Tsuyoshi ISHIKAWA
- 17:50-18:00 Discussion

Tuesday, February 28, 2023

9:30-11:00 (Chairperson: Yurika UJIIÉ)

- O-24 09:30-09:45 **Comparative histological study on human dental calculus and canine dental calculus**
*Hiroyuki MISHIMA, Toshie CHIBA, Risako OKUMA, Yasuo MIAKE
- O-25 09:45-10:00 **Establishment of a method of observing conodont fossils in siliceous sedimentary rocks using microfocuss X-ray computed tomography and its application to Palaeozoic conodont biostratigraphy**
*Shun MUTO, Shinsuke YAGYU, Masafumi MURAYAMA, Satoshi TAKAHASHI
- O-26 10:00-10:15 **Vacuole pattern in Foraminifera: new insight about their metabolic adaptation to low oxygen environments**
*Julien RICHIRT, Takuya MATSUZAKI, Yoshiyuki ISHITANI, Akihiro TAME, Kaya ODA, Hidetaka NOMAKI
- O-27 10:15-10:30 **Difficulties in Radiodisequilibrium dating of hydrothermal barite**
*Jun-ichiro ISHIBASHI, Man-Yin TSANG, Shin TOYODA, Marin YAMAMOTO, Yushi ITATANI, Kazuki KOHAMA, Kazuno ARAI
- O-28 10:30-10:45 **Riser-less drilling through the petit-spot pipe, off Tohoku to recover oceanic mantle -New Project Mohole using the deep sea drilling vessel (D/V) CHIKYU-**
*Teruaki ISHII, Makoto KANEKO, Naoto HIRANO, Shiki MACHIDA, Norikatsu AKIZAWA
- 10:45-11:00 Discussion

11:10-12:20 (Chairperson: Masao IWAI)

- O-29 11:10-11:25 **ICDP DSeis project: analyses of the core drilled from the upper fringe and around the aftershock zone of the 2014 M5.5 Orkney earthquake, South Africa.**
*Hiroshi OGAWASARA, Yasuo YABE, Yohey SUZUKI, Akira TSUCHIYAMA, Junya MATSUNO, ICDP DSeis team
- O-30 11:25-11:40 **Investigating geodynamics of a pre-break-up backarc basin, southern part of Okinawa Trough for IODP Scientific drilling**
*Makoto OTSUBO, Hajime NARUSE, Cai ZHIRONG, Tomohiro TOKI, Yuki MITSUDOME, Masataka KINOSHITA, Yoshimi KUBOTA, Kenji MATSUZAKI, Daisuke KUWANO, Ryuta ARAI, Hinako HOSONO

O-31 11:40-11:55 **A study of earthquakes in the northern Ryukyu Trench using seismic turbidites**
*Ryo NAKANISHI, Juichiro ASHI, Junichiro KURODA, Ayumi MAEDA,
Asuka YAMAGUCHI, Yusuke YOKOYAMA

O-32 11:55-12:10 **Experimental study on the effect of tectonic compaction to consolidation characteristics of siltstones**
*Nana KAMIYA, Akira HAYASHIDA, Weiren LIN

12:10-12:20 Discussion

12:20-12:30 Student Presentation Award Ceremony
Concluding remarks by Masao IWAI, Vice Director of CMCR

* JURC-DES is carried out with the cooperation of JAMSTEC.