

# **JURC-DES**

## **Annual Meeting 2024**

### **Draft Scientific Program**

Presentation will be mostly provided in Japanese.

**Wednesday, February 28, 2024**

**9:30-9:40** Opening Remarks

- Yuji SANO, Director of Marine Core Research Institute, Kochi University (MaCRI)
- Masanobu YAMAMOTO, Chairman of JURC-DES Review Committee

**9:40-11:10 (Chairperson: Masao IWAI)**

- O-01 9:40- 9:55 **High time-resolution reconstructions of the western Arctic Ocean environment over the past several centuries**  
\* Masanobu YAMAMOTO, Koji SEIKE, Leonid POLYAK, Laura GEMERY, Young Jin JOE, Shoma UCHIDA, Minoru KOBAYASHI, Jonaotaro ONODERA, Masafumi MURAYAMA, Kenta SUZUKI, Renata SZAREK, Tomohisa IRINO, Katsura YAMADA, Osamu NAGAFUCHI, Koyomi NAKAZAWA, Yuhji YAMAMOTO, Keiji HORIKAWA, Takuto ANDO, Michinobu KUWAE, Yusuke SUGANUMA, Takayuki OMORI, Holocene Arctic Paleoclimate and Paleocean Investigation team
- O-02 9:55-10:10 **Paleoenvironmental changes in the Lake Kasumigaura during the past 5000 years**  
\* Katsura YAMADA, Yushin HIRANO, Chihaya WATANABE, Toshihiro TADA, Ryuji TADA, Kenta SUZUKI, Kota KATSUKI, Tang SHUANGNING
- O-03 10:10-10:25 **Subfacies determination of the central basin facies in the Holocene incised valley fills of Paleo-Shinji Bay using geochemical micro-XRF (Itrax) data from the HK19 core, Izumo Plain, Shimane Prefecture, Japan**  
\* Aan DIANTO, Tetsuya SAKAI, Kota KATSUKI, Koji SETO, Toshimichi NAKANISHI, Yoshiki SAITO

O-04 10:25-10:40 **Paleoceanographic condition recorded in planktic foraminifers during glacial/interglacial period**  
\* Ayumi MAEDA

O-05 10:40-10:55 **Toward the quantitative measurement of the Itrax - the results of the Japan Sea sediment and the standard materials-**  
\* Arisa SEKI, Ryuji TADA, Shunsuke KUROKAWA, Kaz MITAKE,  
Masafumi MURAYAMA

10:55-11:10 Discussion

**11:20-12:30 (Chairperson: Yurika UJIIÉ)**

O-06 11:20-11:35 **Conodont biostratigraphy of the Carboniferous–Permian boundary in the pelagic deep-sea strata of Panthalassa in the North Kitakami Belt**  
\* Shun MUTO, Satoshi TAKAHASHI, Masafumi MURAYAMA

O-07 11:35-11:50 **Development of a method for taxon-specific purification of diatom fossils from ocean sediments**  
\* Yuji KATO, Yuki MORONO, Akira IJIRI, Takeshi TERADA, Minoru IKEHARA

O-08 11:50-12:05 **Shell growth characteristics of *Mizuhopecten yessoensis* and *M. tokyoensis* from the middle Pleistocene Umaoi Formation, Hokkaido.**  
\* Itsuki FUKIMOTO, Yasuo KONDO, Takafumi ENYA, Akihiko SUZUKI,  
Minoru IKEHARA

O-09 12:05-12:20 **Time-course analyses of physiology and metabolism on foraminiferal strain *Ammonia veneta* when exposed to nanoplastics**  
\* Yoshiyuki ISHITANI, Caterina CIACCI, Yurika UJIIÉ, Hidetaka NOMAKI,  
Fabrizio FRONTALINI

12:20-12:30 Discussion

**13:30-15:00 (Chairperson: Tomoyo OKUMURA)**

O-10 13:30-13:45 **Fine-grained lacustrine turbidites formed after 2007 in Lake Kizaki, central Japan**  
\* Takuma ITO, Ho-Dong PARK, Atsushi URAI

- O-11 13:45-14:00 **Integrated analyses of tsunami trace for high-accuracy reconstruction of the inundation area by the 869 Jogan tsunami**  
\* Kaito KOMIJI, Tetsuya SHINOZAKI, Daisuke SUGAWARA, Takashi ISHIZAWA ,  
Minoru IKEHARA, Shigehiro FUJINO
- O-12 14:00-14:15 **Geochemical identification of tsunami deposits at Shimanoura Island, Nobeoka City, Miyazaki Prefecture**  
\* Kazu SUGIHARA, Masaki YAMADA, Tetsuya SHINOZAKI, Ryo KANEKO
- O-13 14:15-14:30 **Analysis of banded lake sediments in Jigokudani Valley for clarifying Holocene eruption history of Midagahara Volcano, Toyama Prefecture**  
\* Amon KANAUCHI, Yasuo ISHIZAKI, Naoto ISHIKAWA
- O-14 14:30-14:45 **Estimation of deposition temperature of the Koya pyroclastic flow deposit that run across the ocean.**  
\* Ayayaha IIZAWA, Tomohiro TSUJI, Yuhji YAMAMOTO
- 14:45-15:00 Discussion

**15:10-16:20 (Chairperson: Go-ichiro URAMOTO)**

- O-15 15:10-15:25 **The restoration of sedimentary environment of mudstone sequences in Goto group, Nagasaki Prefecture, Japan**  
\* Hiroaki TAKAHASHI, Shoichi KIYOKAWA, Masaru YASUNAGA, Yuta IKEBATA,  
Naoto TAKAHATA
- O-16 15:25-15:40 **ICDP Drilling into Seismogenic zones in South African gold mines (FY2022-2023)**  
\* Hiroshi OGASAWARA, Yasuo YABE, Seiya OBA, Takaya HAMAGAKI,  
Yoshiki BABA, Kotaro OGAWA, the DSeis Team
- O-17 15:40-15:55 **Meridional sectional distribution of Pb isotope ratios in the eastern Indian Ocean**  
\* Kazuhiro NORISUYE, Sheba ROJUBALLY, Tohru FUKAZAWA, Hajime OBATA,  
Kei OKAMURA, Kazuya NAGAISHI, Tsuyoshi ISHIKAWA
- O-18 15:55-16:10 **Riser-less drilling through the petit-spot pipe to recover oceanic mantle**  
\* Teruaki ISHII, Naoto HIRANO, Norikatsu AKIZAWA, Makoto KANEKO,  
Shiki MACHIDA

16:10-16:20 Discussion

**16:30-17:30 (Poster Presentation)**

P-01 **Preliminary age model of C9037B obtained from SCORE drilling off Shikoku**

\* Minoru IKEHARA, Takuya SAGAWA, Yoshimi KUBOTA, Keiji HORIKAWA

P-02 **Estimation of frictional heating temperature and occurrence variation of fault rocks on ancient mega-splay faults**

\* Haruka YAMAKAGE, Hideki MUKOYOSHI

P-03 **Dating of barite occurring in Higashi-aogashima sea floor hydrothermal area**

\* Shin TOYODA, Jun-ichiro ISHIBASHI, Miyu KAKUMOTO, Tatsuo NOZAKI

P-04 **Rock weathering processes at Exposure in Ogimi Village, Kunigami County, Okinawa, Japan**

\* Tokia YAMAGUCHI, Haruki SUGIYAMA, Seiji OSAJIMA, Kohki YOSHIDA

P-05 **Paleoenvironmental comparison using paleosols: Comparative researches on paleosols between the Eocene-Oligocene and the Lower Miocene, Joban Area, Northeast Japan**

\* Haruki SUGIYAMA, Kohki YOSHIDA

**Thursday, February 29, 2024**

**9:30-10:40 (Chairperson: Minoru IKEHARA)**

O-19 09:30-09:45 **Sedimentation of the 3.1 Ga Cleaverville Iron Formation, Pilbara Western Australia**

\* Shoichi KIYOKAWA, Yusuke INOKUCHI, Kohei ISHIKAWA

O-20 09:45-10:00 **Primary minerals and the behavior of phosphorus in Banded iron formation in Pilbara terrane, western Australia ~observation and mineral identification of minerals by TEM~**

\* Yusuke INOKUCHI, Shoichi KIYOKAWA, Yuya TAKEDA, Seiichiro UEHARA

O-21 10:00-10:15 **Paleoenvironmental reconstruction off the Shimokita Peninsula during the past 10,000 years based on foraminiferal  $\delta^{18}\text{O}$**   
\* Keisuke SAKAI, Ken'ichi OHKUSHI, Minoru IKEHARA, Katsunori KIMOTO,  
Masao UCHIDA

O-22 10:15-10:30 **Estimation and chronological variation of lead source in the sea surface around the Philippines**  
\* Mayuri INOUE, Haruka SADAHIDE, Kazuya NAGAISHI, Tsuyoshi ISHIKAWA

10:30-10:40 Discussion

**10:50-12:00 (Chairperson: Yuhji YAMAMOTO)**

O-23 10:50-11:05 **Core-logging of the latest slip plane of the Neodani Fault drill core**  
\* Tomoyuki OHTANI, Shunsuke AOKI, Naoya OKADA, Takumi YOSHIDA

O-24 11:05-11:20 **Evaluation of pore structure of Ryukyu limestone using X-ray tomography**  
\* Tomoki KURASAWA, Nagito OGAWA, Noriyuki KOBAYASHI

O-25 11:20-11:35 **A hydrothermal experiment for pedogenic magnetic mineral formation with loess-paleosol samples**  
\* Masayuki HYODO, Yusuke SETO, Balazs BRADAK

O-26 11:35-11:50 **Changes in geomagnetic field and climate during the Matuyama-Brunhes boundary**  
\* Shigehiro KATOH, Masayuki HYODO

11:50-12:00 Discussion

**12:00-12:10** Student Presentation Award Ceremony  
Closing remarks by Masao IWAI, Vice Director of Marine Core Research Institute,  
Kochi University (MaCRI)

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