

JURC-DES

Annual Meeting 2025

Draft Scientific Program

Presentation will be mostly provided in Japanese.

Monday, March 3, 2025

10:00-10:10 Opening Remarks

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

10:10-11:40 (Chairperson: Minoru IKEHARA)

O-01 10:10-10:25 **Paleoenvironmental investigation using fossil skeletons of *Dipsastraea* corals from the Holocene "Numa" bed in Tateyama, Chiba prefecture, Japan**

* Yuta Hanagasaki, Hitoshi Tomaru

O-02 10:25-10:40 **Holocene Ice Shelf Collapse and Subsequent Antarctic Ice Sheet Retreat in Lützow-Holm Bay, East Antarctica, Driven by Warm Deep Water Inflow and Sea Level Rise**

* Yusuke Suganuma, Takuya Itaki, Yuki Haneda, Kazuya Kusahara, Takashi Obase, Takeshige Ishiwa, Takayuki Omori, Minoru Ikehara, Osamu Seki, Daisuke Hirano, Masakazu Fujii, Yuji Kato, Atsuko Amano, Yuki Tokuda, Hokuto Iwatani, Yoshiaki Suzuki, Motohiro Hirabayashi, Hiroyuki Matsuzaki, Takeyasu Yamagata, Masao Iwai, Kota Katsuki, Hiroki Matsui, Koji Seike, Moto Kawamata, Naohisa Nishida, Masato Ito, Shin Sugiyama, Jun'ichi Okuno, Takanobu Sawagaki, Ayako Abe-Ouchi, Shigeru Aoki, Hideki Miura

O-03 10:40-10:55 **Marine sediment-core age-model construction in the Indian sector of the Southern Ocean to reconstruct the past Antarctic Circumpolar Current**

* Hiroki Matsui, Megumi Hirayama, Xavier Crosta, Minoru Ikehara

- O-04 10:55-11:10 **Holocene paleolimnological changes in Lake Maruwan-Oike in the Soya Coast region of East Antarctica**
 * Issei Arita, Hiroto Kajita, Yusuke Suganuma, Takeshige Ishiwa, Daisuke Sshibata
- O-05 11:10-11:25 **Progress and development in research on lead isotopes in the ocean**
 * Kazuhiro Norisuye, Arata Yanagisawa, Yuusei Saito, Hajime Obata, Kei Okamura, Kazuya Nagaishi, Tsuyoshi Ishikawa
- 11:25-11:40 Discussion

13:10-14:40 (Chairperson: Yurika UJIIÉ)

- O-06 13:10-13:25 **Lithology, stratigraphy and age-depth models of Holocene sediment cores from in the Mackenzie Trough and Barrow Canyon areas in the western Arctic Ocean**
 * Masanobu Yamamoto, Kenta Suzuki, Masafumi Murayama, Laura Gemery, Koji Seike, Leonid Polyak, Young Jin Joe, Shoma Uchida, Minoru Kobayashi, Jonaotaro Onodera, Keiji Horikawa, Yuhji Yamamoto, Takayuki Omori, Michinobu Kuwae, Tomohisa Irino, Yutaka Watanabe, Motoyo Itoh, Eiji Watanabe
- O-07 13:25-13:40 **Past water temperature in the Western Arctic Ocean based on chemical compositions of ostracod shell**
 * Katsura Yamada, Kosuke Yamaguchi, Masao Uchida
- O-08 13:40-13:55 **Physiologic and metabolic changes on Foraminifera when exposed to nanoplastics**
 * Yoshiyuki Ishitani, Ciacci Caterina, Yurika Ujiié, Hidetaka Nomaki, Fabrizio Frontalini
- O-09 13:55-14:10 **Degradation analysis of chemically modified wood in marine**
 * Kugo Takahashi, Wakako Ohmura, Takafumi Itoh, Kei Okamura
- O-10 14:10-14:25 **Research on the occurrence of cementum and thecodont attachment - A study based on the fossils of marine reptiles Mosasauridae**
 * Hiroyuki Mishima, Toshie Chiba, Masahiro Tanimoto, Michio Suzuki
- 14:25-14:40 Discussion

14:50-16:20 (Chairperson: Go-ichiro URAMOTO)

- O-11 14:50-15:05 **Alteration of various properties in rock weathering process: example of phyllite under subtropical climate**
* Tokia Yamaguchi, Kohki Yoshida, Seiji Osajima
- O-12 15:05-15:20 **Long Term Flow-Through Tests of Granite with Tension Fracture and Investigation of Secondary Mineral Precipitation**
* Yuri Iwabuchi, Naoki Kinoshita, Hideaki Yasuhara, Sho Ogata
- O-13 15:20-15:35 **Replacement Reactions between crustal rocks and brine and porosity generation**
* Atsushi Okamoto, Dandar Otgonbayar, Kohei Suzuki
- O-14 15:35-15:50 **Sealing Process of Fault Gouges in the Borehole Core of the Neodani Fault**
* Tomoyuki Ohtani, Takumi Yoshida
- O-15 15:50-16:05 **ICDP: from DSeis to PROTEA**
* Hiroshi Ogasawara, Yasuo Yabe, Atsushi Okamoto, Akira Tsuchiyama, Shunya Okino, Takaya Hamagaki, the DSeis-PROTEA Team
- 16:05-16:20 Discussion

16:20-17:50 (Poster Presentation)

- P-01 **Difficulties in Radiodisequilibrium dating of hydrothermal barite part 2**
* Jun-ichiro Ishibashi, Man-Yin Tsang, Shin Toyoda, Miyu Kakumoto, Reo Kinugasa, Kazuno Arai, Masafumi Murayama
- P-02 **Paleohydrological change in the Asian mid-latitude during the last glacial: Insights from the laminated carbonate in Gobi Desert, southern Mongolia**
* Akito Nakamura, Hitoshi Hasegawa, Tomoyo Okumura, Minoru Ikehara, Aki Sakuma, Chuan-Chou Shen, Ichinnorov N., Davaasuren D., Tsuyoshi Ishikawa, Asuka Yamaguchi, Goro Komatsu
- P-03 **Reconstruction of spatio-temporal vegetation change in East Asian inland region since the last glacial**
* Kohei Miyamoto, Koji Shichi, Hitoshi Hasegawa, Ryosuke Imaoka, Nagayoshi Katsuta, Ichinnorov N., Davaasuren D., Masafumi Murayama, Masao Iwai, Masami Izuho

- P-04 **Reconstruction of terrestrial environmental changes in East Asian mid-latitude during the mid-Cretaceous Oceanic Anoxic Event 1a: insights from a lacustrine record in Mongolia**
* Yoshiki Asano, Hitoshi Hasegawa, Heimhofer U., Ichinnorov N., Masafumi Murayama, Takashi Hasegawa, Aki Sakuma
- P-05 **Paleomagnetic stratigraphy of the Eocene lacustrine deposits (Green River Fm) in Utah for reconstructing the terrestrial environment changes in the Eocene “hothouse” period (Preliminary results)**
* Hiroki Matsumoto, Chisato Anai, Hitoshi Hasegawa, Kanade Izumi, Minoru Ikehara, Aki Sakuma, Ryusei Kuma, Yuhji Yamamoto
- P-06 **Rock magnetic study of oceanic lithosphere: Progress up to 2024**
* Masakazu Fujii
- P-07 **Estimation of the Source Depth of Sediments in Mud Volcanoes in the Ryukyu Trench and Nankai Trough area**
* Rina Fukuchi, Naho Sakamaki, Masafumi Murayama, KH-23-4 cruise member
- P-08 **Event layer deposition in marine sediment**
* Takuya Sagawa, Yoichi Usui, Asuka Yamaguchi, Masafumi Murayama
- P-09 **Research on sedimentation events using core samples from Sagami Bay and off Boso**
* Juichiro Ashi, Masafumi Murayama
- P-10 **Application of paleomagnetism and rockmagnetism to marine paleoseismology. IODP Exp. 386 Japan Trench**
* Toshiya Kanamatsu, Kan-Hsi Hsiung, Yuhji Yamamoto
- P-11 **Characteristics of Turbidites from Marine Sediments of the Huatung Basin**
* Hsiung, Kan-Hsi, Yu-Chun Chang, Yuhji Yamamoto, Kenichiro Tani, KH-23-10 Onboard Scientists.
- P-12 **Studies of PAHs content and microfossils in pelagic chert sequences spanning the Permian-Triassic Boundary from Arrow Rocks Island, North Island, New Zealand**
* Homare Ogiwara, Hori S. Rie, Minoru Ikehara, Satoshi Yamakita, Atsushi Takemura, Yoshiaki Aita, Satoshi Takahashi

19:00-21:00

Opinion Exchange Meeting at CHRES, Kochi City

Tuesday, March 4, 2025

9:30-10:40 (Chairperson: Yuji KATO)

O-16 09:30-09:45 **Usefulness of Itrax data during the sampling party of ReCoRD program: The Japan Sea paleoceanography and paleoclimatology (ReC23-03)**

* Arisa Seki, Ryuji Tada, Tomohisa Irino, Kenji Matsuzaki, Jyumpei Yoshioka,
Shuangning Tang, Masafumi Murayama

O-17 09:45-10:00 **Palaeoclimatic changes in Lake Nakaumi during the Late Holocene based on Itrax and $\delta^{18}\text{O}$ of ostracod shells**

* Shuangning Tang, Kota Katsuki, Yasuhide Nakamura, Minoru Ikehara, Arisa Seki,
Chihaya Watanabe, Katsura Yamada

O-18 10:00-10:15 **Eruption history of Midagahara Volcano (Toyama Prefecture, Japan) using lake sediments**

* Amon Kanauchi, Yasuo Ishizaki, Naoto Ishikawa, Keiji Horikawa

O-19 10:15-10:30 **Investigation of the Submersion Process of the Hibara-juku Site and Environmental Changes in Lake Hibara through the Analysis of Sediment Core Samples**

Honoka Iwahara, * Akira Ijiri, Masafumi Murayama, Yuhji Yamamoto, Tetsuya Yamamoto,
Takehiro Hirose, Jun Kimura, Hisashi Nakagawa, Akihiro Shimada, Riko Nakamura,
Wataru Tanikawa

10:30-10:40 Discussion

10:50-12:00 (Chairperson: Tomoyo OKUMURA)

O-20 10:50-11:05 **Micro-CT characterization of pre-MSC and early-MSC sediments recovered from the Gulf of Cadiz and the Alboran Basin**

* Xunhui Xu, Weiren Lin, Yuhi Sakai, Erika Tanaka, Kosuke Egawa, IODP 401 scientists

O-21 11:05-11:20 **A study of turbidites formed by the observed earthquakes around the Kikai island**

* Ryo Nakanishi, Ryusei Sato, Ren Tsuneoka, Karin Nemoto, Yusuke Yokoyama,
Ayumi Maeda, Akira Ijiri, Hajime Naruse

O-22 11:20-11:35 **Seafloor deformation and sediment transport caused by the 2024 Noto Earthquake**
* Asuka Yamaguchi, Rina Fukuchi, Shinpei Otsuka, Takuya Sagawa, Masafumi Murayama, the KH-23-4 shipboard scientists

O-23 11:35-11:50 **Sediment transport to Toyama deep-sea channel caused by the 2024 Noto Peninsula Earthquake: trace elements and isotopes approaches to clarify the origin**
* Shimpei Otsuka, Jing Zhang, Takanori Kagoshima, Tomoharu Senjyu, Asuka Yamaguchi, Rina Fukuchi, Hyoe Takata, Go-Ichiro Uramoto, Jin-Oh Park

11:50-12:00 Discussion

13:30-14:40 (Chairperson: Tetsuro SATO)

O-24 13:30-13:45 **Magnetization changes of paleosol samples after hydrothermal heating**
* Masayuki Hyodo, Yusuke Seto, Balazs Bradak

O-25 13:45-14:00 **Rock magnetic properties of ancient pottery pieces from buried old kiln**
* Tadahiro Hatakeyama, Ren Morimoto, Jun Shiraishi

O-26 14:00-14:15 **Paleomagnetism of Miocene volcanic rocks from the Shimokita Peninsula in NE Japan**
* Hiroyuki Hoshi

O-27 14:15-14:30 **Paleomagnetism and Rock Magnetism of Reefal-Limestone, Ryukyu Group**
* Chisato Anai, Hirokuni Oda, Naoto Fukuyo

14:30-14:40 Discussion

14:50-16:00 (Chairperson: Yuhji YAMAMOTO)

O-28 14:50-15:05 **Oriented rock sampling on land and in the deep sea using a cross-line laser system**
* Tatsuo Kanamaru, Jun Shibuya, Kuniyuki Furukawa, Kenichiro Tani, Noriko Kawamurar, Yuhji Yamamoto

O-29 15:05-15:20 **Paleomagnetism of the Oriented Sediment Cores Using the Cross-Line Laser Method**

* Noriko Kawamura, Kuniyuki Furukawa, Tatsuo Kanamaru, Kenichiro Tani

O-30 15:20-15:35 **Paleoenvironmental reconstruction after the end-Cretaceous impact event using chalcophile composition**

* Teruyuki Maruoka, Yoshiro Nishio

O-31 15:35-15:50 **Research on the rare minerals in the abyssal igneous rocks; for the deep sea scientific drillings**

* Teruaki Ishii, Makoto Kaneko, Norikatsu Akizawa, Naoto Hirano, Shiki Machida

15:50-16:00 Discussion

16:00-16:10 Student Presentation Award Ceremony

Closing remarks by Masao IWAI, Vice Director of Marine Core Research Institute,
Kochi University (MaCRI)

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