

JURC-DES

Annual Meeting 2026

Draft Scientific Program

Presentation will be mostly provided in Japanese.

Monday, March 2, 2026

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: Minoru IKEHARA)

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| O-01 | 9:40- 9:55 | Reconstruction of Paleoceanographic Changes in the Paleo-Indian Ocean during the Cretaceous OAE Using an XRF Core Scanner
* Ryudai Kotobuki, Hitoshi Hasegawa, Masashi Murayama, Ansheng Lee, Kazutaka Yasukawa, Hironao Matsumoto, Takashi Hasegawa |
| O-02 | 9:55-10:10 | Development of a Paleoproterozoic Island-Arc Volcanic System: Geological Records from the Southwestern Ashanti Greenstone Belt, Ghana
* Satoshi Yoshimaru, Shoichi Kiyokawa, Takashi Ito, Ibrahim Kwabina, George Tetthe, Frank Nyame |
| O-03 | 10:10-10:25 | Reconstructing the Formation Mechanism of Siderite in the 3.1Ga BIF, the Cleaverville Formation, the Pilbara Craton, Western Australia
* Kota Fukuyama, Naoto Takahata, Kohei Sasaki, Shoichi Kiyokawa |
| O-04 | 10:25-10:40 | Sedimentary Environment at the Base of the Northern Margin of the Upper Cretaceous Izumi Group exposed in Hiketa Shiroyama, Higashikagawa City, Kagawa Prefecture
*Kazuki Takazawa, Shoichi Kiyokawa |
| O-05 | 10:40-10:55 | 17 years sedimentary record of iron deposits in Nagahama Bay, Satsuma-iwojima Island, Kagoshima Prefecture
* Keiichi Kiyomatsu, Naoya Sakamoto, Shoichi Kiyokawa |

10:55-11:10 Discussion

11:10-12:10 (Poster Presentation)

- P-01 **Preliminary results of CT and XRF scan analysis for sediments from Chukchi Sea and Beaufort Sea cores retrieved during the MR24-06C cruise**
* Masanobu Yamamoto, Masafumi Murayama, Keiji Horikawa, Shinya Iwasaki, Kenta Suzuki, Masanori Arai, Holocene Arctic Palaeoclimate and Palaeocean Investigation team
- P-02 **Paleoenvironmental Changes in the Bering Sea: An Integrated Analysis of Sediment Cores**
* Keiji Horikawa, Yusuke Okazaki, Masafumi Murayama, Jeong Seungchan, Yui Fujimi
- P-03 **Preliminary results of XRF core scanning analysis for the HPCS cores from IODP Sites C0019 and C0026, Japan Trench**
Minori Hagino, *Masao Iwai, Isao Motoyama, IODP Exp. 405 Science Party
- P-04 **Paleoenvironmental Changes Based on Total Organic Carbon and Total Nitrogen Concentrations in Surface Sediments of the Southwestern Japan Sea**
* Natsuki Kaneko, Hitoshi Tomaru, Mika Kadono
- P-05 **Carbon Isotope Stratigraphy of the Green River Formation (USA) toward reconstruction of Terrestrial Environments during Eocene Hyperthermals**
* Kanade Izumi, Hitoshi Hasegawa, Minoru Ikehara, Aki Sakuma, Hiroki Matsumoto, Chisato Anai, Ryusei Kuma
- P-06 **Establishment of Paleomagnetic Stratigraphy of the Green River Formation in Utah, USA toward reconstruction of terrestrial environments during Eocene Hyperthermals**
* Hiroki Matsumoto, Chisato Anai, Hitoshi Hasegawa, Kanade Izumi, Minoru Ikehara, Aki Sakuma, Ryusei Kuma, Yuhji Yamamoto
- P-07 **Whole rock chemistry of the Kumenan mafic rocks, Central Okayama, Prefecture**
* Keichiro Mae, Yousuke Noumi, Yuta Tuchiya
- P-08 **Comparison of non-destructive internal observation of perilla leaves (Ao-jiso) using a desktop X-ray scanner and an X-ray microscope**
* Haruki Ikeda, Takao Oi
- P-09 **How to pick up interesting minerals from natural rocks using CT scanner**
* Teruaki Ishii, Makoto Kaneko, Norikatsu Akizawa, Naoto Hirano, Shiki Machida

13:10-14:40 (Chairperson: Go-ichiro URAMOTO)

- O-06 13:10-13:25 **Stress impact on seepage activity in Eastern Fram Strait: Insights from three-dimensional in-situ stress measurements**
* Yuhi Sakai, Weiren Lin, Yuhji Yamamoto, Andreia Plaza-Faverola
- O-07 13:25-13:40 **Deformation and microstructure of carbonated mantle wedge: Experimental constraints simulating the crust-mantle Boundary**
* Shunya Okino, Atsushi Okamoto, Yukiko Kita, Sando Sawa, Jun Muto
- O-08 13:40-13:55 **Fluctuations in fluid chemical composition along a plate boundary fault recorded by zoning in calcite veins**
* Manato Akishiba, Otgonbayar Dandar, Asuka Yamaguchi, Yoshiro Nishio, Atsushi Okamoto
- O-09 13:55-14:10 **Sealing Process of Fault Gouges in the Borehole Core of the Neodani Fault**
* Tsuyoshi Maeda, Tomoyuki Ohtani
- O-10 14:10-14:25 **Rock fracture at slow to ultra-high strain rates: toward a unified understanding from earthquakes to asteroid impacts**
* Yushin Mori, Keishi Okazaki, Kosei Ogita, Jun Muto, Osamu Tadai
- 14:25-14:40 Discussion

14:50-16:20 (Chairperson: Yuhji YAMAMOTO)

- O-11 14:50-15:05 **Unraveling volcanic activity of oceanic volcanoes from marine cores**
* Takeshi Hanyu, Iona McIntosh, Morihisa Hamada, Kenta Yoshida, Tomoki Sato, Yuuki Hagiwara, Yuya Akamatsu
- O-12 15:05-15:20 **Establishing a tephrostratigraphic frameworks using cryptotephra detection and its application to landscape evolution**
* Tatsuki Watanabe, Daisuke Ishimura, Kaori Aoki, Takehiko Suzuki
- O-13 15:20-15:35 **Studies of phreatic eruption tephra using lacustrine sediments: Case studies of Onuma-ike, Heibei-ike, and Jigokudani**
* Fumiya Nakamura, Kaisho Setoguchi, Yasuo Ishizaki, Naoto Ishikawa¹

Tuesday, March 3, 2026

9:30-10:40 (Chairperson: Tomoyo OKUMURA)

- O-21 09:30-09:45 **Analysis of conodont fossils with initial acquisition of apatite hard tissue**
* Hiroyuki Mishima, Shun Muto, Toshie Chiba, Yasuo Miake, Masahiro Tanimoto,
Michio Suzuki
- O-22 09:45-10:00 **A hypothesis on soft-tissue preservation of mayfly nymph fossils**
* Yoshitaka Itakura, Gengo Tanaka
- O-23 10:00-10:15 **Investigation of the Submersion Process of the Hibara-juku Site and
Environmental Changes in Lake Hibara through the Analysis of Sediment
Core Samples**
* Hikari Karanishiki, Honoka Iwahara, Akira Ijiri, Tetsuya Yamamoto, Wataru Tanikawa
- O-24 10:15-10:30 **Distribution of Pb isotope ratios in the subarctic North Pacific: mainly newest
results obtained by this fiscal-year collaborative research**
* Kazuhiro Norisuye, Arata Yanagisawa, Hajime Obata, Kei Okamura, Kazuya Nagaishi,
Tsuyoshi Ishikawa
- 10:30-10:40 Discussion

10:50-12:00 (Chairperson: Masao IWAI)

- O-25 10:50-11:05 **Analysis of the ICDP DSeis core recovered from the aftershock zone of the
M5.5 earthquake (Phase 2)**
* Hiroshi Ogasawara, Yasuo Yabe, ICDP DSeis and PROTEA team
- O-26 11:05-11:20 **Title Shallow structure and possible fluid discharge due to seamount
subduction**
* Masataka Kinoshita, Tomohiro Toki, Yoshitaka Hahimoto, Yohei Hamada
- O-27 11:20-11:35 **Stress changes over time after the Tohoku-oki earthquake using stress
measurements from cores**
* Nana Kamiya, Ryo Hioki, Yuji Yamamoto, Weiren Lin

- O-28 11:35-11:50 **Research on formation condition of historical seismic turbidites around Kikai Island**
* Ryo Nakanishi, Ren Tsuneoka, Karin Nemoto, Yusuke Yokoyama, Goichiro Uramoto, Koshiro Kaneko, Ayako Nagasawa, Ryota Kikuchi, Hajime Naruse

11:50-12:00 Discussion

13:00-14:10 (Chairperson: Yuji KATO)

- O-29 13:00-13:15 **Evaluation of time-dependent variation of ITRAX data and estimation of elemental concentrations**
* Arisa Seki, Ryuji Tada, Masafumi Murayama, Takuya Matsuzaki, Shinsuke Yagyu
- O-30 13:15-13:30 **Chronology of subbottom sediments from Lake Shinji based on archaeomagnetic secular variation**
* Akira Hayashida, Koji Seto, Kota Katsuki, Yoshiki Saito
- O-31 13:30-13:45 **Understanding magnetic architecture of oceanic lithosphere: Insights from Atlantis Bank: A report on matching ReCoRD proposal with cooperative research program of MaCRI**
* Masakazu Fujii
- O-32 13:45-14:00 **A preliminary report of paleomagnetic field intensity during the Cretaceous Normal Superchron estimated from the ODP drilling core of the Kerguelen plateau**
* Yutaka Yoshimura, Masakazu Fujii, Chie Kato, Osamu Ishizuka, Kenji Shimizu, Ryosuke Oyanagi

14:00-14:10 Discussion

14:20-15:30 (Chairperson: Tetsuro SATO)

- O-33 14:20-14:35 **Magnetostratigraphy of upper Cretaceous to Eocene strata of the Koshikishima islands, Kagoshima Prefecture**
* Daisuke Yamashita, Yuka Miyake, Yu Kitahara, Chisato Anai
- O-34 14:35-14:50 **Paleomagnetism of Early Miocene sedimentary rocks from the Shimokita Peninsula in Northeast Japan**
* Hiroyuki Hoshi

O-35 14:50-15:05 **Low-temperature magnetic study of metal sulfide minerals in submarine hydrothermal deposits**

* Masao Ohno, Chie Kato, Chisato Anai, Tadahiro Hatakeyama, Yuya Takeda,
Tatsuro Adachi,

O-36 15:05-15:20 **Rockmagnetism of hydrothermally heated loess samples**

* Masayuki Hyodo, Yusuke Seto, Balazs Bradak

15:20-15:30 Discussion

15:30-15:40 Student Presentation Award Ceremony

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

* Joint Usage / Research Center activity at JURC-DES is carried out with the cooperation of JAMSTEC.