

# **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)**

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 Ikebara, 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 Ikebara, Aki Sakuma, Ryusei Kuma, Yuhji Yamamoto

**P-07 Whole rock chemistry of the Kumenan mafic rocks, Central Okayama, Prefecture**

\* Keiichiro 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 Ishikawa<sup>1</sup>

O-14	15:35-15:50	<b>Improvement of Palaeomagnetic Analysis Methods for Aso-4 Pyroclastic Flow Deposits (Non-Welded) and the Emplacement Temperature</b> * Tomohiro Tsuji, Masashi Ushioda, Yuji Yamamoto, Yu Kitahara
O-15	15:50-16:05	<b>Classification of the Tamaraigawa Lava Based on Paleomagnetic Measurements</b> * Mayu Taketomi, Kenta Uchiyama, Tomohiro Tsuji, Yuji Yamamoto
	16:05-16:20	Discussion

### **16:30-18:00 (Chairperson: Yurika UJIIÉ)**

O-16	16:30-16:45	<b>Conodont natural assemblage from deep-sea siliceous rocks in the Inuyama Area, Aichi Prefecture</b> * Shun Muto, Kazuko Yoshizawa, Masafumi Murayama
O-17	16:45-17:00	<b>Formation Mechanisms of Zoned Spherical Concretions</b> * Alvin Loran Yamaguchi Praet, Hidekazu Yoshida, Yusuke Muramiya, Akihiro Kano, Taro Kido, Nagayoshi Katsuta, Ayako Umemura
O-18	17:00-17:15	<b>Seasonal paleo-temperature reconstruction in the Middle to Late Pleistocene Shimosa Group based on molluscan fossil assemblages and shell oxygen isotope ratios</b> * Itsuki Fukimoto, Yasuo Kondo, Minoru Ikehara
O-19	17:15-17:30	<b>Growth dynamics and prospective salinity indicators in the statoliths of scyphomedusae</b> * Mariko Kawamura, Takuya Matsuzaki, Motoo Ito
O-20	17:30-17:45	<b>Complex mitochondrial genome of Foraminifera</b> * Yoshiyuki Ishitani, Yurika Ujiié, Hidetaka Nomaki
	17:45-18:00	Discussion

### **19:00-21:00**

**Opinion Exchange Meeting (Venue TBD)**

**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.