



**Western Pacific Drilling Meeting 2022 (WEPAD 2022 hybrid):  
Paleoceanography in North Pacific Subtropical Gyre and marginal seas**

**Center for Advanced Marine Core Research, Kochi University,  
Nankoku, Kochi, Japan (+ Microsoft Teams)  
October 12 - 14, 2022**

**Day 1: October 12 (Wed)** [K: Kochi (in person), T: Teams (online)]

10:00-10:05 [T] Opening remarks

**Yuji Sano** (Kochi University)

10:05-10:15 [K] WEPAD history and logistics

Takuya Itaki (Geological Survey of Japan, AIST), Takuya Sagawa  
(Kanazawa University), Minoru Ikehara (Kochi University)

**Topic 1: Post-cruise research of Chikyu SCORE C9037 and C9035**

Chair: Minoru Ikehara

10:15-10:35 [K] Summary of Chikyu SCORE Exp913

**Minoru Ikehara** (Kochi University), Takuya Sagawa, Yuki Morono, Natsumi  
Okutsu and Chikyu SCORE Exp913 Science Party

10:35-10:55 [K] Lithostratigraphy at Site C9037

**Go-Ichiro Uramoto** (Kochi University)

10:55-11:15 [K] Preliminary paleomagnetic results from the Site C9037 sediments

**Yuhji Yamamoto** (Kochi University), Toshitsugu Yamazaki, Toshiya Kanamatsu

11:15-11:35 [K] Reconstruction of paleoenvironmental variations and terrestrial organic  
matter transport by biomarker analysis of a C9037 core from the northwestern  
Pacific off southwestern Japan: Preliminary reports

**Masashi A. Ikeda** (Hokkaido University), Hiroyasu Asahi, Ken Sawada

11:35-12:00 [K] Can turbidite paleoseismological study and paleoceanographic study co-exist in a  
core? A consideration from SCORE C9035 core preliminary results

**Ken Ikehara** (Geological Survey of Japan, AIST), Toshiya Kanamatsu,  
Kan-Hsi Hsiung, Natsumi Okutsu and SCORE C9035 science members

12:00-13:00      Lunch

**Topic 2: Paleooceanographic research in Western Pacific and marginal seas**

Chair: Takuya Itaki, Kenji M. Matsuzaki

- 13:00-13:25 [K]    Quaternary climate variability of “deep-hot” Indo-Pacific warm pool as revealed by sediment organic biomarkers and phases analysis  
**Min-Te Chen** (National Taiwan Ocean University) and others
- 13:25-13:50 [K]    Low latitude Indo-Pacific climate variability and its relationship with East Asia climate  
**Sangmin Hyun** (Korea Institute of Ocean Science & Technology: KIOST) and Jeongwon Kang
- 13:50-14:15 [K]    Kuroshio temperature variability over the past 30kyr derived from UK'37 and TEX86  
**Zhe Ying Ang** (National Taiwan University), Sze Ling Ho
- 14:15-14:40 [T]    Multiproxy-derived upper ocean temperature records in the Okinawa Trough region  
**Shih-Yun Lin** (National Taiwan University), Sze Ling Ho, Ru-Yun Tung, Yuan-Pin Chang, Pei-Ting Lee, Haiyan Yang, Xinyu Guo, Wing-Le Chan, Min-Te Chen, Chuan-Chou Shen, Ayako Abe-Ouchi
- 14:40-15:05      Coffee break
- 15:05-15:30 [T]    Reconstructing Hydrography Variations in the Subtropical Western Pacific during Glacial-Interglacial Periods  
**Wei-Cheng Hsiung** (National Sun Yat-sen University)
- 15:30-15:55 [K]    Multi-species planktonic foraminifera-inferred upper ocean hydrographic changes off Northeastern Taiwan over the past 20kyr  
**Ru-Yun Tung** (National Taiwan University), Pei-Ting Lee, Yuan-Pin Chang, Pei-Ling Wang, Chuan-Chou Shen, Sze Ling Ho
- 15:55-16:20 [T]    Glacial-Interglacial Variations in Organic Carbon Burial in the Northwest Pacific Ocean  
Yuying Zhang, **Limin Hu** (Ocean University of China), Yonghua Wu, Zhi Dong, Zhengquan Yao, Minoru Ikehara, Xuefa Shi
- 16:20-16:40 [T]     $\mu$ XRF ITRAX and WDXRF results from Exp913 Core C9037B  
**Keiji Horikawa** (University of Toyama), Minoru Ikehara, and Exp913 Science party
- 19:00-21:00      Conference dinner

Day 2: October 13 (Thur)

### Topic 3: Post-IODP updates and Virtual Expedition initiative

Chair: Yusuke Okazaki

- 10:00-10:25 [K] Post-2024 new Scientific Drilling Program (ECORD and Japan's effort)  
**Nobu Eguchi** (JAMSTEC), Gilbert Camoin, David McInroy
- 10:25-10:50 [K] IODP Expedition 386 Japan Trench paleoseismology: Giant piston coring to track past megathrust earthquakes along the Japan Trench  
**Ken Ikehara** (Geological Survey of Japan, AIST), Michael Strasser, Jeremy Everest, Lena Maeda and IODP Expedition 386 Science Party
- 10:50-11:15 [K] J-DESC-KCC Virtual Expedition Concept  
**Yusuke Kubo** (JAMSTEC)
- 11:15-11:40 [K] Paleoclimate reconstruction in the Japan Sea from tephrochronology and non-destructive measurements: idea for Virtual Expedition  
**Arisa Seki** (Shinshu University), Ryuji Tada, Tomohisa Irino, Jumpei Yoshioka, Masafumi Murayama
- 11:40-12:00 Discussion
- 12:00-13:00 Lunch

### Topic 4: IODP proposal updates and future drilling/coring sciences in Post-IODP era

Chair: Takuya Sagawa, Arisa Seki

- 13:00-13:25 [T] Testing the Ontong Java Nui hypothesis  
**Takashi Sano** (National Museum of Nature and Science), Maria Luisa G. Tejada, Clive R. Neal, Millard F. Coffin, Masao Nakanishi, Peter J. Michael, Jörg Geldmacher, Takeshi Hanyu, Seiichi Miura, Christian Timm, Anthony A. P. Koppers, Daisuke Suetsugu, Takashi Tonegawa, Akira Ishikawa, Kenji Shimizu, Paterno Castillo, Elisabetta Erba, Catherine A. Rychert, Adélie Delacour, Loyc Vanderkluysen
- 13:25-13:50 [K] Neotectonics in Ryukyu arc: Quaternary fault activity and uplift and subsidence Processes  
**Makoto Otsubo** (Geological Survey of Japan, AIST)
- 13:50-14:15 [K] Drilling in the Okhotsk Sea: Chikyu SCORE program and future perspectives  
**Yusuke Okazaki** (Kyushu University)
- 14:15-14:40 [T] A new proposal of SCORE program for re-drilling in the northern East China Sea and possibility of other drilling programs  
**Yoshimi Kubota** (National Museum of Nature and Science), Ken Ikehara, Kenji Matsuzaki, Saki Ishino, Ayanori Misawa, Makoto Otsubo, Ryuji Tada,

Tomohisa Irino, Kosaku Arai, Takuhiko Inoue, Takuya Sagawa, Minoru Ikehara,  
Yusuke Okazaki, Keiji Horikawa, Hiroki Matsuda and KH-21-3 cruise members

14:40-15:05      Coffee break

15:05-15:30 [K]    Paleooceanographic Evolution of the Central North Pacific since the Late Miocene  
**Kenji M. Matsuzaki** (University of Tokyo)

15:30-15:55 [T]    Changes in overturning circulation in the Pacific during glacial-interglacial cycles  
**Hidetaka Kobayashi** (University of Toyama)

15:55-16:55      Discussion

16:55-17:00 [K]    Closing remarks  
**Minoru Ikehara** (Kochi University)

**Day 3: October 14 (Fri)**

9:00-17:00      Field trip  
Ryugado Cave (limestone cave)  
Ioki Cave (natural cave)  
Ananai Formation (Shallow marine sedimentary sequences)  
Tei Mélange (Shimanto Belt accretionary complex)  
Inoue Winery (view from Mt. Sanmbosan)