THE SIXTH INTERNATIONAL SYMPOSIUM OF THE INTERNATIONAL GEOSCIENCE PROGRAMME PROJECT 679

May 24, 2026, Chiba, Japan

PROGRAMME

"Linkage of Cretaceous solid earth dynamics, greenhouse climate, and response of ecosystems on land and in the oceans in Asia"

Cretaceous Earth Dynamics and Climate in Asia

The Sixth International Symposium of IGCP 679 will be held on May 24, 2026 by a joint session M-GI32 during the JpGU-AGU Joint Meeting (May 24-29, 2026, Chiba, Japan).

Title: The Sixth International Symposium of the International Geoscience Programme Project 679

[M-GI32] Cretaceous Earth Dynamics and Climate in Asia: Insights from IGCP Project 679

Main Convener
Tohru Ohta (Faculty of Education and Integrated Arts and Sciences, Waseda University)

Co-Convener
Takashi Hasegawa (Faculty of Geoscience and Engineering, Institute of Science and Engineering, Kanazawa University)

The Cretaceous greenhouse world was characterized by extreme warmth, high CO_2 levels, oceanic anoxic events, and significant ecosystem changes. Asia provides extensive sedimentary, fossil, and geochemical archives that record these phenomena across diverse settings. IGCP Project 679 (Cretaceous Earth Dynamics and Climate in Asia) aims to integrate stratigraphic, paleontological, geochemical, and modeling approaches to reconstruct climate variability, ocean circulation, and Earth system feedback in this interval. This JpGU-AGU session, organized as a project workshop, will present new findings from across Asia while promoting global collaboration. Topics include stratigraphic correlation, high-resolution geochemical proxies, records of oceanic anoxic events and mass extinctions, paleogeographic reconstructions, and terrestrial ecosystem responses. The session encourages participation from students, early-career researchers, and international collaborators. Discussion time will be provided to strengthen the links between IGCP 679 members and the wider scientific community, thereby enhancing the integration of Asian records into global Cretaceous climate research.

Sunday, May 24，2026 10:45 AM - 12:15 PM Oral Presentation

Exhibition Hall Special Setting (5) (Exhibition Hall 7&8, Makuhari Messe)

M-GI32： Cretaceous Earth Dynamics and Climate in Asia: Insights from IGCP Project 679

Chairperson: Tenichi Cho (Waseda University); Yui Tsukada (Graduate School of Comprehensive Human Sciences, University of Tsukuba)

10:45 AM-11:00 AM	**Opening address** MGI32-01 Progress of IGCP 679: Cretaceous Earth Dynamics and Climate in Asia *Gang Li[1], Takashi Hasegawa[2], Dae Kyo Cheong[3], Vandana Prasad[4] (1. Nanjing Institute of Geology and Palaeontology, Chinese Academy of Sciences, Nanjing 210008, PR China, 2. Department of Earth Sciences, Faculty of Science, Kanazawa University, Kakuma, Kanazawa 920-1192, Japan, 3. Department of Geology, College of Natural Sciences, Kangwon National University, Chunchon, Kangwon-do, 200-701, South Korea, 4. Birbal Sahni Institute of Palaeosciences, 53 University Road, Lucknow 226007, India)
11:00 AM-11:15 AM	MGI32-02 Osmium isotopic record across the Aptian-Albian boundary in the Lower Cretaceous Sanchu Group, central Japan *Yui Tsukada[1], Hironao Matsumoto[1], Shigehiro Fujino[1], Katsuhiko Suzuki[2], Takashi Sano[3], Kotaro Shirai[4], Ryuji Hattori[4], Mahiro Yumiba4, Toshikazu Furuya[4], Nanase Shinomiya[4], Kazutada Tsuda[4] (1. University of Tsukuba, 2. Japan Agency for Marine-Earth Science and Technology, 3. National Museum of Nature and Science, 4. Atmosphere and Ocean Research Institute, The University of Tokyo)
11:15 AM-11:30 AM	MGI32-03 Late Cretaceous environmental changes in the northwestern Pacific margin inferred from fluctuations in organic matter compostion *Taiga Tomaru[1], Reishi Takashima[2], Mariusz Niechwedowicz[3], Ireneusz Walaszczyk[3], Masanari Arao[1], Azumi Kuroyanagi[2] (1. Department of Earth Science, Graduate School of Science, Tohoku University, 2. The Center for Academic Resources and Archives Tohoku University Museum , 3. Faculty of Geology, University of Warsaw)
11:30 AM–11:45 AM	MGI32-04 High-resolution bio- and carbon isotope stratigraphy of the Turonian/Coniacian and Santonian/Campanian boundaries in the NW

	Pacific *Kosuke Takahashi[1], Reishi Takashima[2], Ireneusz Walaszczyk[3], Toshiro Yamanaka[4], Taiga Tomaru[1], Azumi Kuroyanagi[2] (1. Department of Earth Science, Graduate School of Science, Tohoku University, 2. The Center for Academic Resources and Archives Tohoku University Museum, 3. Faculty of Geology, University of Warsaw, 4. School of Marine Resources and Environment, Tokyo University of Marine Science and Technology)
11:45 AM-12:00 PM	MGI32-05 Insignificant coupling between terrestriall carbon cycle and global climate during the hothouse Oceanic Anoxic Event 2 of the Cretaceous *Xianghui Li[1], Jingyu Wang[1], Jiawei Wang[1], Chenyu Zheng[1] (1. Nanjing University)
12:00 PM-12:15 PM	MGI32-06 Atmospheric CO_2 during the Aptian: New Evidence from Sedimentary Carbon Isotopes in NE China *Jianfang Hu[1], Hanqing Yang[1,2], Jian Chen[1], Ziyi Tang[1,2] (1. Guangzhou Institute of Geochemistry, Chinese Academy of Sciences, 2. University of Chinese Academy of Sciences)
12:15 PM-12:30 PM	Business Meeting

Sun. May 24, 2026 5:15 PM - 7:00 PM Poster Session

Poster Hall (Exhibition Hall 7&8, Makuhari Messe)

MGI32-P01 Preservation and palaeoecological implications of bird track-bearing deposits from the Cretaceous Seongpori Formation, Geoje Island, South Korea.
*Hyun Joo Kim[1], Eunkyoung Jeong[2]
(1. Major of Environmental Geosciences, Pukyong National University of Korea, 2. Dalseong Fossil Museum, South Korea)

MGI32-P02 What drove the diversity of Early Cretaceous ostracods along the northern margin of the North China Craton?
*Yaqiong Wang[1], Byung-du Choi[2], Yuting Zhong[3], Yanhong Pan[4]
(1. Nanjing Institute of Geology and Palaeontology, Chinese Academy of Sciences, 2. Daegu National Science Museum, 3. Guangzhou Institute of Geochemistry, Chinese Academy of Sciences, 4. Nanjing University)

MGI32-P03 Depstional age and provenace of the Cretaceous Cheonsuman Basin, Korea inferred from detrital zircon geochronology
*Taejin Choi[1], Young Lim Kim[1], Hyun Joo Kim[2] (1. Korea National University of Education, 2. Pukyung National Uinveristy)

MGI32-P04 Aridification associated with intraplate deformation across the Jurassic-Cretaceous transition in the Junggar Basin, NW China
*Tenichi Cho[1], Tohru Ohta[1], Ryo Uchikado[1], Keita Arai[1], Shun Harigaya[1], Gang Li[2] (1. Waseda University, 2. Nanjing Institute of Geology and Palaeontology, Chinese Academy of Science)

MGI32-P05 Weathering intensity and climatic conditions in the Asian equatorial region during the Cretaceous: Insights from the geochemistry and minerology of sediments in Borneo (East Malaysia)
*Thi Nga Pham[1], Tohru Ohta[2]
(1. Graduate School of Creative Science and Engineering, Waseda University, 2. Faculty of Education and Integrated Arts and Sciences, Waseda University)

MGI32-P06 Palaeoclimate Analysis Based on Chemical Weathering Intensity in the Cretaceous Kanmon Group, Yamaguchi Prefecture, SW Japan
*Eisuke Miyamoto[1]
(1. Waseda University)

MGI32-P07 Occurrence of compositionally mature sediments in East Asia active margin during the earliest Cretaceous
*Tohru Ohta[1]
(1. Faculty of Education and Integrated Arts and Sciences, Waseda University)