



International Conference “Marine Geology: Marginal Seas - Past and Future”

14-18 October, 2025

Conference Program

ZOOM_ID: 986 088 9401

Password: 2025



Guangzhou Marine Geological Survey,
China Geological Survey,
Guangzhou, P.R. China

Organized by



Guangzhou Marine Geological Survey, China Geological Survey, China



Base for International Science & Technology Cooperation of Deepsea Geoscience,
MOST, China



Key Laboratory of Marine Mineral Resources, Ministry of Natural Resources,
China

Co-organized by



UNIVERSITY
OF SZCZECIN

University of Szczecin, Poland



Polish Geological Institute-National Research Institute, Poland



香港中文大學
The Chinese University of Hong Kong

The Chinese University of Hongkong



Baltic Earth System Science for the Baltic Sea Region

baltic.earth



Coordinating Committee for Geoscience Programmes in East and
Southeast Asia



DDE Marginal Seas Task Group



Scientific
Committee on
Oceanic Research

Section of Marine Geology, Polish Scientific Committee

on Oceanic Research, Polish Academy of Sciences,

Poland



Guangzhou Association for Science and Technology, China

PREFACE

Marginal seas are zones of transition between continents and oceans and are increasingly becoming the focus of international marine research. This is because of an importance as buffer zones for the natural transfer of matter and energy between the mainland and the open ocean. They are also a source of marine raw materials, for energy production, and they act as trade routes and the socio-economic networking. Moreover, some coastal zones and the people living there are increasingly threatened by sea level rise and extreme weather phenomena, so that effective coastal zone management is of vital importance. To contribute to the demands of society concerning marine geosciences, and to foster international cooperation we have established a network of marine scientists to launch scientific research initiatives focused on marginal seas sciences.

On 28th November, 2019, the 1st Marginal Seas Expert Meeting took place at Guangzhou, China, entitled “Eurasian Marginal Seas: Past and Future”. This meeting was hosted by the Guangzhou Marine Geological Survey (GMGS), China Geology Survey (CGS), and was attended by 18 overseas experts from seven countries, together with 50 Chinese colleagues. In 2020 the Marginal Seas Task Group has been established in the frame of the Deep-Time Digital Earth (DDE) big sciences program of the International Union of Geological Sciences (IUGS), to serve for further scientific events as organizer and co-organizer together with the Baltic Earth (BE) scientific network.

Although, the COVID-19 pandemic interrupted some activities, the conferences on “Marine Geology: Marginal Seas - Past and Future” were held hybrid, on-line and in-person, at the end of 2021 and 2023 at Guangzhou, China. The University of Szczecin (USZ), Poland and the Baltic Earth (BE) scientific network, held conferences entitled “Marginal seas: Past and Future” on 16-17th December, 2020, and 5-7th December, 2022, respectively, co-organized with international partners. Supported by BE, the International Association for Mathematical Geosciences (IAMG), and the IUGS (International Union of Geological Sciences), topical sessions on Marginal Seas were held during the 4th Baltic Earth conference, Jastarnia, Poland, 31st May to 2nd June, 2022, the IAMG2023 Conference, Trondheim, Norway, 5-12th August, 2023, the 5th Baltic Earth conference, Jurmala, Latvia, 13-17th May, 2024, and the 37th International Geological Congress, Busan, Korea, 25th-31st August, 2024, respectively. Additionally, a topical session on Marginal Seas was integrated into the EGU General Assembly 2025 in Viena, Austria, and a next one will be performed along with the IAMG2025 Conference, Zhuhai, China, 9-13th October, 2025 as well.

These conferences and meetings have helped to establish a network of researchers in marine geosciences, including supporting young scientists’ training and the capability of enhancing the construction of a joint academic organization as well. Scientific communication and special research

are a sensible approach for integrating new big data analysis and modeling techniques, including AI and machine learning, which will promote marine geosciences development.

To continue advancing the Marginal Seas initiative, an International Conference titled “Marine Geology: Marginal Seas - Past and Future” will be held in Guangzhou, 14-18th October, 2025. The theme is “**Marginal Seas - Sustainable Future of the Continent/Ocean Interface**”, benchmarking to the United Nations (UN) 2030 Agenda of Sustainable Development Goals. The scientific topics to be addressed are in marine geosciences, and include updating the Marginal Seas initiative development of a roadmap, discussion the establishment of a joint international academic organization, and potential support to the DDE big science program of IUGS. As the 10th Marginal Seas Expert Meeting, it will support communications for geo-marine sciences and technology between Chinese scientists and their international partners active in marine geosciences, including those addressing coastal and marine environmental research, mathematical geosciences, future projections of marginal seas’ evolution, and its management for the upcoming decades.

The conference will be held in a hybrid mode online and onsite, free of registration fee, organized and hosted by the GMGS/CGS, Guangzhou, China who have carried out numerous successful marine geological surveys and scientific research work in the marginal South China Sea, as well as the deep sea and polar sea areas in the past 60 years. The conference will be structured into an opening ceremony, three topical sessions, and discussion and conclusion to take place over three days with oral and poster presentations, and discussions using English language.

Outline

1. Timetable	1
2. Conference Venue, Hotel and Food.....	2
3. Conference Registration	6
4. Online Software Support	7
5. Scientific Sessions.....	7
6. Open Discussion Sessions.....	9
7. Conference Organizers.....	11
8. Conference Agenda	14
9. Introduction of Guangzhou	24
10. International support partners	25

1. Timetable

Time span: 14th to 18th October 2025.

Table. Briefly timetable of conference

Date	Action	Detail content	Note
14 th Morning	Registration		
14 th Afternoon	Opening ceremony	Welcome speeches Plenary lectures	Welcome dinner in Nansha Grand Hotel
15 th Morning	Meeting	Session 1, keynote lecture, oral and poster presentations	
15 th Afternoon	Meeting	Session 2, keynote lecture, oral and poster presentations	
16 th Morning	Meeting	Session3, keynote lecture, oral and poster presentations	
16 th Afternoon	Meeting	Discussion Marginal Seas Initiative Roadmap updating	
17 th Morning	Meeting	Discussion Co-construction of scientific organization Discussion potential support to DDE	
17 th Afternoon	Meeting	Discussion, conference summary	
	Close ceremony	Some speeches	
18 th Morning	Visit	Visiting GMGS harbor in Nansha	
18 th Afternoon	Departure		

Time zones:

We take care of the international time zones, arranging the meeting time main in daylight time of UTC/GMT+2 summer time zone, afternoon and evening of UTC/GMT+8 time zone.

The conference will start at local time, 14th October, 2025

7:00 AM (UTC/GMT+0, Greenwich, London),

8:00 AM (UTC/GMT+1, West Africa Time, Algiers, Abuja),

9:00 AM (**Summer** time, UTC/GMT+2, Central Europe Time, Szczecin, Warsaw, Berlin, Copenhagen, Stockholm, Brussels, Paris, Madrid, Bologna, Monaco, Zagreb; South Africa),

10:00 AM (**Summer** time, UTC/GMT+3, Moscow, Istanbul),
13:30 PM (UTC/GMT+5:30, New Deli, Kolkata),
14:00 PM (UTC/GMT+7, Hanoi, Jakarta),
15:00 PM (UTC/GMT+8, Beijing, Guangzhou, Kuala Lumpur, Manila,
Bandar Seri Begawan),
16:00 PM (UTC/GMT+9, Tokyo),
18:00 PM (UTC/GMT+11, Canberra, Sydney, Tasmania),
20:00 PM (UTC/GMT-11, Wellington),
21:00 PM (UTC/UTC-10, Tahiti, Hawaii),
24:00 PM (**Summer** time, UTC/UTC-7, Pacific Standard Time, Vancouver, Seattle,
California, Los Angeles),
2:00 AM (**Summer** time, UTC/GMT-5, Central Standard Time, Oklahoma City, Baton
Rouge, New Orleans),
3:00 AM (**Summer** time, UTC/GMT-4, Eastern Standard Time, New York, Groton
Connecticut, Augusta),
4:00 AM (**Summer** time, UTC/GMT-2, Buenos Aires).

2. Conference Venue, Hotel and Food

Conference venue location:

This is a hybrid conference of in-person and on-line remote scientific presentations. We set the conference's main meeting place at No. 101 meeting room in Nansha Base of Guangzhou Marine Geological Survey (GMGS), CGS, China.

Address: 1133 Haibin Rd., Nansha District, 511458 Guangzhou, China



Figure 1. Map of conference venue and recommend hotel.

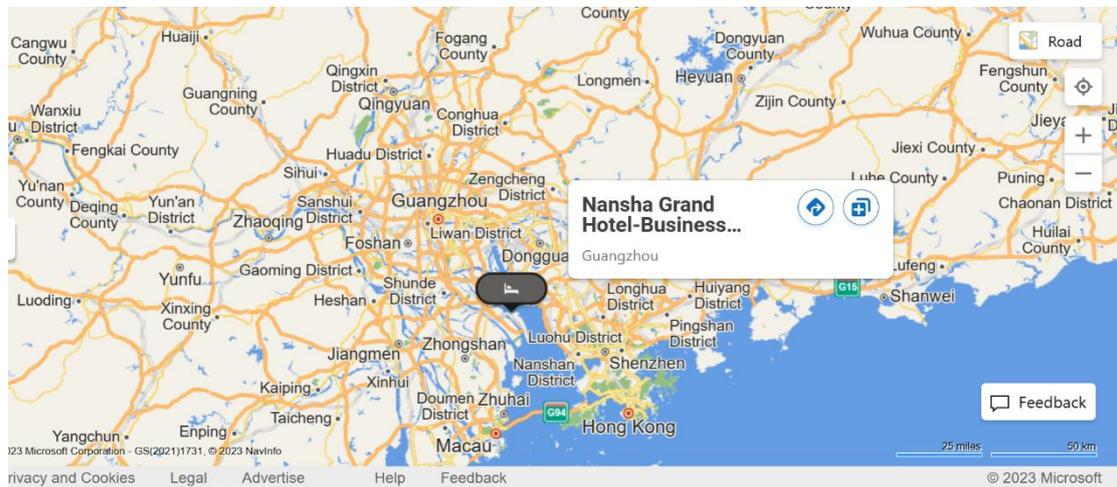


Figure 2. location of Nansha Grand hotel in regional map

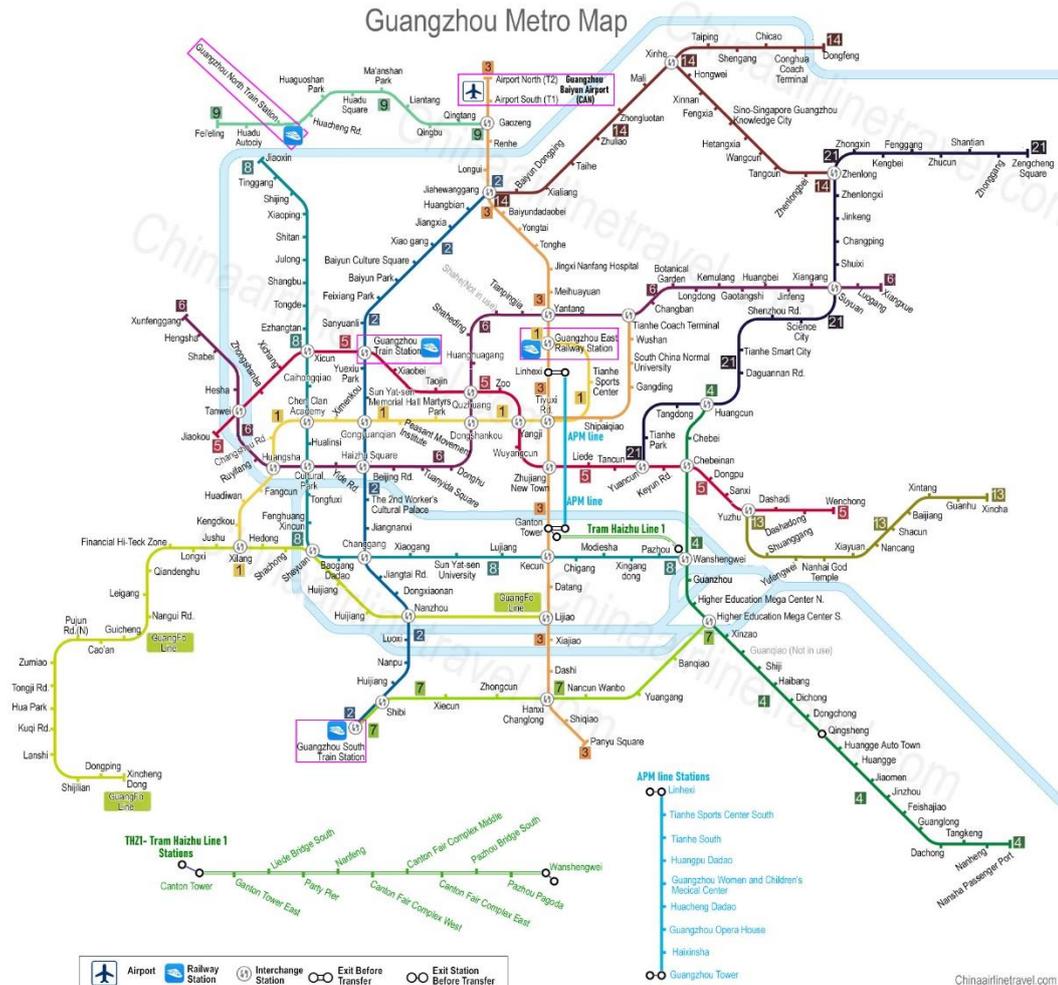


Figure3. Guangzhou Metro Map (without fast-metro line 18 & 22)

You can search the website of Guangzhou metro system to get subway line and station information.

广州地铁线网路线图 | 广州公共交通信息 (kopisee.com)

<http://ipt.kopisee.com/canton/zh-cn/gzmt-r-system-map>

Traffic guidance:

1. Airport in Shenzhen: Shenzhen Bao-an Airport is in Shenzhen city, front of the Pearl River Mouth. You also can take taxi from Shenzhen Airport to Nansha Grand Hotel, but need more payment (~200 RMB).

The Shenzhen-airport Port is 2 km nearby the Airport, where has ship/ferry to Nansha Passenger Port with three voyages in each day. The sailing time is about 35 minutes. Left side of Nansha Passenger Port is Nansha Grand Hotel. The ferry ticket price is 90 RMB.

2. Airport in Guangzhou: Guangzhou Baiyun Airport is in Huadu District, Guangzhou city. There has metro line 3 from airport to Panyu Square station within 1 hour (11 RMB). In Panyu Square station you can change Fast-metro line 18 (160km/h) to Hengli Station within 15 minutes (7 RMB). Then can take bus at Exit A to Nansha Grand Hotel with 30 minutes (2 RMB).
3. Fast-Train (Railway) in Guangzhou:
 - 1) The Guangzhou South railway Station is in Panyu District. You can change Fast-metro line 22 (160km/h) from Guangzhou South Station to Panyu Square station within 10 minutes (5 RMB), then exchange Fast-metro line 18 to Hengli Station. Then take bus or Taxi to Nansha Grand Hotel.
 - 2) The Qingsheng railway Station (just few trains in this preparation stage) is in Nansha District. You can change in this station to take metro line 4 directly to terminal site Nansha Passenger Port station within 40 minutes (5 RMB).
4. Normal Metro: Nanheng station in metro line 4 is nearby conference venue, GMGS Nansha Base. There need 15 minutes by feet.

Hotel information:

We contacted with Nansha Grand Hotel to get a quite favorable price. Participants need payment by themselves for hotel.

The Nansha Grand Hotel is location on the coast, front of Pearl River Mouth, nearby the Nansha Passenger Port, Nansha District, Guangzhou, China. Outside of Hotel, the metro Line 4 has termination station Nansha Passenger Port. The Passenger Habor, Puzhou Garden and Tianhou Palace are nearby the Hotel.

Address: 1&2nd South Road, New Coastal City, Nansha, Guangzhou 511458, China.

Tel: +86-20-3930 8888

Website: www.nanshahotel.com

The participants also can select the commercial hotels nearby the Conference Venue.

Food:

The conference offers food in GMGS canteen for lunch and dinner. After lunch or dinner, participants can have a sightseeing along the coast and in the garden nearby GMGS Nansha Base.

Scheduled bus:

The conference offers free bus to transfer participants from Nansha Grand Hotel to GMGS Nansha Base and Harbor.

Date	Start Location	Time (Beijing time)	Arrival Location
14 th	Nansha Grand Hotel	14:30	Nansha Base
	Nansha Base	17:10	Nansha Grand Hotel
15 th	Nansha Grand Hotel	8:40	Nansha Base
	Nansha Base	12:30	Nansha Grand Hotel
	Nansha Grand Hotel	14:30	Nansha Base
	Nansha Base	18:30	Nansha Grand Hotel
16 th	Nansha Grand Hotel	8:40	Nansha Base
	Nansha Base	12:30	Nansha Grand Hotel
	Nansha Grand Hotel	14:00	Nansha Base
	Nansha Base	18:30	Nansha Grand Hotel
17 th	Nansha Grand Hotel	8:40	Nansha Base
	Nansha Base	12:30	Nansha Grand Hotel
	Nansha Grand Hotel	14:30	Nansha Base
	Nansha Base	18:00	Nansha Grand Hotel
18 th	Nansha Grand Hotel	8:40	GMGS Harbor
	GMGS Harbor	10:30	Nansha Grand Hotel

3. Conference Registration

No registration fee is charged.

Online Registration :

On-line is requested starting 30 September, 2025.

Please send e-mail to LOC for registration.

Registration template,

I am [title, Name], from [affiliation], to register International Conference “Marine Geology: Marginal Seas - Past and Future”. I will take part in the conference [on-line].

In-stie Registration :

In-person participants please visit the conference venue to register your information. The reception time start on 14, October, 2025.

4. Online Software Support

This conference selects Zoom meeting software via internet connection for all the participants.

The related information is: Zoom-Meeting Topic, Marine Geology: Marginal Seas-Past and Future

Join Zoom Meeting

<https://us06web.zoom.us/j/9860889401?pwd=aBEgEb4Oeuc28Gmt29aLMqa8Bd9YS9.1&omn=82932935438>

Zoom AI companion:

<https://us06web.zoom.us/launch/edl?muid=5a5fcc20-a36d-4f57-adf1-cfb701dcd0b>

Meeting ID: 986 088 9401

Passcode:2025

Please mark **your full name** with affiliation after logging in the Zoom software. In order to keep the position for participants, the LOC warmly welcome you to register your personal account in Zoom meeting linkage before the conference. The register just need type in your name, affiliation and e-mail address.

5. Scientific Sessions

Marginal seas span all climate zones, form under various tectonic and geological conditions, and facilitate socio-economic networking. Such seas play crucial roles in providing habitat, food, and trade routes for humanity, as well as facing climate change and anthropogenic impacts on the natural environment. There is a strong demand from society for marine geoscientists to understand the development of estuary-delta-shelf-deep basin systems within the context of earth sciences systems. To advance cooperative work and research in marine geosciences, three scientific sessions are planned to address the interface between ocean and continent from the Earth Sciences and socio-economic stand-points.

(1) Session 1: Sources-to-Sink models and links to climate development

Using marine sedimentary records to reconstruct the development of environmental conditions and climate over a variety of timescales requires a detailed understanding of how sediment is transported from source areas into the ocean. There are several processes that can

affect sediment transport and in turn influence grain size distribution. Suspended sediment that rapidly travels to the open ocean tends to be finer grained than coarser bedload sediments, although clay-rich sediments may be stored in flood plains. Mineralogy also plays a role with denser clasts travelling less rapidly to the open ocean. Changes in climate have an important impact because variations in seasonal climate systems can result in substantial changes in precipitation resulting in incision and reworking of flood plain sediments, similar to what occurs from sea level variations. Presently, considerable disagreement concerning the duration of sediment travel in large fluvial systems exists, yet constraining the transport time is important for reconstructing the response of landscape to climate change based on the sediment preserved in a delta or shelf. A good example of this environment is the Pearl River of the northern South China Sea, where variations in Asian monsoons can result in increased or reduced levels of sediment reworking within the flood plains. Understanding the drivers of recycling and reworking along with quantifying the degree of sediment buffering in flood plains are fundamental scientific questions that will be addressed in this session.

Conveners: Peter D. Clift (University College London, UK), Gaowen He (Guangzhou Marine Geological Survey, China), Wojciech Jeglinski (Polish Geological Institute-National Research Institute, Poland), Xinong Xie (China University of Geosciences, China).

(2) Session 2: River Mouth Systems and Urban Seas

This session will address interdisciplinary research of Urban Sea and estuarine systems amid multiple stresses from climate change and human activities. River mouth systems, where rivers meet the sea, are dynamic zones characterized by complex interactions between fluvial and marine processes, which play a crucial role in the dispersal of river sediments into coastal seas, influencing coastal morphology and sediment budgets. We understand the Urban Seas as those parts of the global oceans that are significantly influenced by coastal cities, ports, and industrial developments on adjacent lands. They are susceptible to the impacts of climate change, including increased intense flooding and storm surge events, with some possibly subjected to increased exposure and risk of tsunami amplification from altered coastal morphology. Additionally, Urban Seas experience the simultaneous anthropogenic effects of eutrophication, deoxygenation, and pollution, as well as oil and gas extraction, transportation, overfishing, and other offshore activities. However, Urban Seas provide tourism value, including aesthetics. It is not surprising, therefore, that the implications for the dynamics and management of Urban Seas extend far beyond classical oceanography. Therefore, we invite contributions with particular emphasis on reconstruction and future scenarios of the coastline changes, morpho- and hydrodynamics, sediment dynamics, as well as the impact of natural, anthropogenic, and other threats.

Conveners: Joanna Dudzińska-Nowak (University of Szczecin, Poland), Junjie Deng (Sun Yat-Sen University, China), Gary Greene (Moss Landing Marine Laboratories, California, USA), Joanna Waniek (Leibniz Institute for Baltic Sea Research, Warnemünde, Germany), Yuanzhi Zhang (The Chinese University of Hong Kong, China)

(3) Session 3: Biogeography - biostratigraphy from Deep-time among marginal seas

Marginal seas, characterized by connectivity of continents and open oceans, serve as critical hotspots for marine biodiversity and biogeographic studies. From deep-time to the present-day ecological dynamics, marginal seas exhibit unique environmental gradients change, complex oceanographic behaviors, and distinct evolutionary histories that shape species distribution, community assembly, and ecosystem functions that are associated with geological and climatic change. Due to regional variations on salinity, temperature, and nutrient input from both land and ocean, the biogeographic features bring a complexly view of universality and individuality among marginal seas in the past and present. Using a longtime scale, along with marginal seas evolution, to correlate organismal evolution in biostratigraphy within marginal seas is a key to understand the change of paleoceanography, to understand and reconstruct paleoclimate. This session will explore the biodiversity patterns, biogeographic processes, and biostratigraphy application in marginal seas, emphasizing the integration of micropalaeontological, ecological, and biological “big-data” in marine geosciences with the goal of aiding sustainable development.

Conveners: Jinpeng Zhang (Guangzhou Marine Geological Survey, CGS, China), Kevin McCartney (University of Maine at Presque Isle, USA), Yenny Risjani (Brawijaya University, Indonesia), Federica Foglini (The Institute of Marine Sciences of the National Research Council, Bologna, Italy), Baohong Chen (The Third Institute of Oceanography, MNR, China).

6. Open Discussion Sessions

(1) Updating Marginal Seas Initiative’s Roadmap

The Eurasian Marginal Seas: Past and Future Research Initiative (EMS Initiative) was launched in Guangzhou on 28th November, 2019. Under this EMS initiative frame, general questions to be addressed include:

How did Eurasian marginal seas in different climatic zones evolve, what is the paleogeography? How did oceanographic processes change during the natural climate variation of the Last Glacial Cycle? What are the future expectations of and global marginal seas and

their coastal zones facing the challenge of climate change and increasing human activities? What strategies for sustainable development of marine and coastal realms can assist in balancing the protection of the environment and the economic use of marginal seas' resources?

After five years of joint efforts by experts from different subdisciplines, an initiative and update with global vision is needed, especially given the strong demand from international marine geoscience communities. The United Nations demands for Sustainable Development, as detailed in the Decade of Ocean Science for Sustainable Development (2021-2030) and the International Decade of Sciences for Sustainable Development (IDSSD, 2024-2033) are initiating actions in the international geoscience community. The UN provides guidance to mitigate the threats of marginal seas and support the cross-bordering sustainable management. Joint research is becoming a unifying task for the academic community active for global marginal seas. Management strategies need to consider the geo-environmental changes in past and future in order to optimize sustainable anthropogenic driving forces.

To advance collaboration, we aim to gather researchers from different countries to present and discuss three topics:

- Globalization of the EMS research initiative to Marginal Seas Research Initiative
- Institutions' action plans for development of a Marginal Sea initiative
- Potential integration of Marginal Sea activities into UN programs

(2) Co-construction of International Organization on Marginal Seas Science

During the previous international conference on “Marine Geology: Marginal Seas- Past and Future” in 2023, participants initiated a discussion to establish an International Scientific Organization on Marginal Seas, to build a platform for basic and applied sciences of the transition zone between continents and oceans active in the marine geosciences. GMGS/CGS moved to obtain a principal agreement from local administrations and the China Association for Science and Technology. To advance this initiative, domestic and foreign partners are needed as founding members of the institution or experts/persons on behalf of the institution to build cooperation in the coming years. We plan to initiate an open discussion with participants to create an international organization, an “International Association for Marginal Seas Sciences (IAMSS)” and to detail its Mission, Structure, Charters/Regulations, Actions, Founding members and their obligations and rights.

(3) Potential Support to DDE program

The Marginal Seas Task Group in the DDE structure have been involved with, and advanced as a flagship for the DDE big science program in IUGS development in 2021-2024. In line with the current DDE program development, the Marginal Seas Task Group is adjusting its perspective and

striving to further advance DDE development, particularly with the strong support of the founding members, i.e., the China Geological Survey, China, and potential support from the Chinese Ministry of Science and Technology. Utilizing this conference, we will organize a discussion for Marginal Seas Task Group updating and routines to empower the partners and their linkage with other groups.

7. Conference Organizers

Organizers:

Guangzhou Marine Geological Survey, China Geological Survey, China
Base for International Science & Technology Cooperation of Deepsea Geoscience, MOST,
China
Key Laboratory of Marine Mineral Resources, Ministry of Natural Resources, China

Co-Organizers:

University of Szczecin, Poland
Polish Geological Institute-National Research Institute, Poland
The Chinese University of Hongkong, Hongkong, China
Baltic Earth
Coordinating Committee for Geoscience Programmes in East and Southeast Asia (CCOP)
DDE Marginal Seas Task Group
Section of Marine Geology, Polish Scientific Committee on Oceanic Research, Polish
Academy of Sciences, Poland
Guangzhou Association for Science and Technology, China

Host:

Guangzhou Marine Geological Survey, China Geological Survey, China

Scientific Committee:

Co-chair:

Zhenqiang Xu (Guangzhou Marine Geological Survey, CGS, China)

Krzysztof Szamalek (Polish Geological Institute-National Research Institute, Poland)

Jan Harff (University of Szczecin, Poland)

Guangsheng Yan (member of GC in DDE; member of DDE-Chinese GEG; CGS, China)

Member (*Alphabetical List*):

Peter Clift (University College London, UK)

Junjie Deng (Sun Yat-Sen University, China)

Joanna Dudzińska-Nowak (University of Szczecin, Poland)

Federica Foglini (The Institute of Marine Sciences of the National Research Council, Italy)

Yahui Gao (Xiamen University, China)

H. Gary Greene (Moss Landing Marine Laboratories, USA)

Matthias Gröger (Baltic Earth)

Gaowen He (Guangzhou Marine Geological Survey, CGS, China)

Wojciech Jegliński (Polish Geological Institute-National Research Institute, Poland)

Tao Jiang (China University of Geosciences, China)

Kevin McCartney (Northern Maine Museum of Science; University of Maine at Presque Isle, USA)

H. E. Markus Meier (Baltic Earth)

Yenny Risjani (Brawijaya University, Indonesia)

Yu Situ (IUGS Secretariat)

Michał Tomczak (Polish Geological Institute-National Research Institute, Poland)

Joanna Waniek (Leibniz Institute for Baltic Sea Research, Warnemünde, Germany)

Xinong Xie (China University of Geosciences, China)

Shengxiong Yang (Guangzhou Marine Geological Survey, CGS, China)

Minghua Zhang (Geoscience Data Center of CGS, China; DDE Standards Task Group)

Yuanzhi Zhang (The Chinese University of Hong Kong, China)

Local Organizing Committee (LOC):

Jinpeng Zhang (chair), jinpengmgs@sina.com; +86-020-22199580, 15915729329

Xiao Xiao (foreign affairs), xiaoxiaoiris@163.com; +86-020-28020709

Pingyuan Li (registration, abstract compiling), lpy19862006@126.com; +86-020-82252195,
15221507535

Fengyu Wang (registration, abstract compiling), wangyufeng708@163.com; +86-020-82061790-2935, 15321968185

Jianmei Hou (registration, abstract compiling), houjianmeiwork@163.com; +86-020-82061790, 15626020367

Huayang Gan (main meeting place affairs), 13631376929

Qiao Xue (main meeting place affairs), 13119510571

Keheng Chen (main meeting place affairs), 19926051515

Jinwei Zhang (main meeting place affairs), 13822142994

Lei Jia (main meeting place affairs), 18620150564

Xueping Yang (main meeting place affairs), 15152119108

Yingzhi Ren (media affairs), 13794357440

8. Conference Agenda

14-17th October, 2025 (Meeting)

Opening Ceremony

UTC/GMT+8 Time zone (Beijing Time).

Time/14 th	Issue	Speaker/Affiliation/Local time	Host
15:00-15:10	Welcoming words	Zhengqiang Xu, Director General, Guangzhou Marine Geological Survey, CGS, China	Hanquan Zhang, Deputy Director, GMGS
15:10-15:15	Opening the conference	Xueyi Xu, Vice President, China Geological Survey, China	
15:15-15:20	Brief speech	Wojciech Jeglinski, Leadership of Polish Geological Institute-National Research Institute, Poland	
15:20-15:25	Brief speech	Kinga Flaga-Gieruszyńska, Vice Rector, University of Szczecin, Poland [9:20am, Szczecin] on-line	
15:25-15:30	Brief Speech	Qiuming Cheng, Academician, China University of Geosciences, Beijing, China [15:25, Beijing] on-line	
15:30-15:45	Group photo		
15:45-15:50	Video adjustment		

Time/14 th	Plenary lecture	Speaker/Affiliation/Local time	Host
※ 15:50-16:20	Marginal Seas Sciences – Chances and Challenges	Jan Harff, Academician, University of Szczecin, Poland [9:50 am, Szczecin] on-line	Jinpeng Zhang
※ 16:20-16:45	Introduction of multiple drilling platforms of GMGS	Huodai Zhang, Representative, Guangzhou Marine	

		Geological Survey, CGS, China	
16:45-17:05	Exhibition Hall visit		

(※, keynote speech, green colour remarks the on-line presentation)

Scientific Session One: Sources-to-Sink models and links to climate development

Time/15 th	Lecture	Speaker/Affiliation/Local time	Host
※9:00-9:20	Controls on Sediment Flux to the Deep South China Sea	Peter D. Clift, London University College, UK	Grzegorz Uścińowicz
9:20-9:35	Paleoenvironmental Evolution of Quaternary Sediments in Jakarta Bay, Indonesia	Franto Novico, National Research and Innovation Agency, Indonesia	
9:35-9:50	Formation and Preservation of Mediterranean Organic-rich S1 unit; Diagenetic Control and Variability	Gertrit J. de Lange, Utrecht University, Netherland	
9:50-10:05	Magnetic mineral dissolution front delimited by Late Holocene sediment accumulation acceleration in the inner shelf, northern South China Sea	Mingkun Li, Lingnan Normal University, China	
10:05-10:20	Sundaland Marginal Sea (Last Glacial Maximum to Present) - Implications	Edlic Sathiamurthy, University Malaysia Terengganu, Malaysia	
10:20-10:35	Indian Summer Monsoon-Driven Organic Carbon Dynamics and Vegetation Shifts in the Bengal Basin Since 37 ka: A Multi-Proxy Approach	Ananna Rahman, South China Sea Institute of Oceanology, CAS, China	
20 minutes	Breaktime		
10:55-11:10	A Comparative Study of Bayhead Delta Evolution under Wave-Dominated and Tide-Dominated Estuarine Settings: Case Studies from Southeastern Australia and the Pearl River Estuary, China	Junjie Deng, Sun Yat-sen University, China	Peter Clift
11:10-11:25	Impact of source-to-sink process variation and sediment supply on sustainable future of coastal ecosystem	Tingping Ouyang, South China Normal University, China	
11:25-11:40	Depth fluctuations of Mediterranean Outflow Water along its northward propagation during the late Pleistocene	Jiawang Wu, Sun Yat-sen University, China	
11:40-11:45	Mangrove evolution across the Sunda Shelf driven by sea-level and tropical climate changes since the Last Glacial Maximum 【poster】	Syeda Maksuda Yeasmin, South China Sea Institute of Oceanology, CAS, China	

11:45-11:50	Pollen-inferred vegetation change and carbon sink linkages in the Pearl River Estuary over the last millennium 【poster】	Shaohua Yu, Guangzhou Marine Geological Survey, CGS, China	
11:50-11:55	Contrasting Contourite Systems Along Antarctic Margins: Mixed vs. Elongated Drift 【poster】	Zhiyuan Gao, Sun Yat-sen University, China	
11:55-12:00	The impact of multi-source sediment supply in subaqueous deltas on the distribution of shallow gas: Insights from northern Bohai Bay, China 【poster】	Wenqin Jiang, China University of Geosciences, Beijing, China	

Scientific Session Two: River Mouth Systems and Urban Seas

Time/15 th	Lecture	Speaker/Affiliation/Local time	Host
※15:00-15:20	The Vistula River Mouth Area: Holocene Development of the Sea Coast in the Gdańsk Area	Wojciech Jegliński, Polish Geological Institute-National Research Institute, Poland	Joanna Dudzinska-Nowak
15:20-15:35	River Mouth Systems and Urban Seas in the Baltic Region: Sources-to-Sink Dynamics and Anthropogenic Pressures	Md Ashrafuzzaman, University of Chittagong, Bangladesh [13:20, Dhaka] on-line	
15:35-15:50	Coastal lagoons as a transitional zone between land and sea: insight from heavy metals and modern biological communities in surface sediments	Xuhui Dong, Guangzhou University, Guangzhou, China	
15:50-16:05	Multidisciplinary study of the northern Ionian Sea: from fluid seepage to environmental change	Marzia Rovere, CNR, Istituto di Scienze Marine Bologna, Italy	
16:05-16:20	Restoration of Coastal Ecosystems as an Approach to the integrated Mangrove Ecosystem Management and Mitigation and Adaptation to Climate Changes in North Coast of East Java	Rudianto Rudianto, Brawijaya University, Indonesia	
16:20-16:35	Paleogeographic numerical modeling of marginal seas – Baltic Sea case study	Jakub Miluch, Marine Geology Branch, PGI, Poland [10:20 am, Warsaw] on-line	
20 minutes	Break time		

16:55-17:10	Evaluation of Ecological and Geological Vulnerability of China's Coastal Zone	Xing Wang, Tianjin Center, CGS, China [16:55, Beijing] on-line	Joanna Waniek
17:10-17:25	Paleosalinity Reconstruction in the Taiwan Strait and its Implications for Minjiang River Flooding and Climate Change over the Past 330 Years	Min Chen, Third Institute of Oceanography, MNR, China	
17:25-17:30	Messinian diatom assemblages of diatomites in the Lower Chelif basin (northwestern Algeria) [poster]	Bouhameur Mansour, University Oran 2 Mohamed Ben Ahmed, Algeria [10:25am, Algiers] on-line	
17:30-17:35	From a Green Sahara to the Present Desert: Example of Holocene Lacustrine Sedimentation at Hassi Manda (Erg Er Raoui, Tabelbala, Algerian Sahara) [poster]	Ali Hamadai, University Oran 2 Mohamed Ben Ahmed, Algeria [10:30am, Algiers]	
17:35-17:40	Late-Holocene compound flood records in southern China: Implications for subtropical coastal hazards [poster]	Muyi Zhang, Xiamen University, China	
17:40-17:45	Provenance and Transport Patterns of Particulate Organic carbon in the Turbidity Maximum Zone of the Jiulong River Estuary, Southern China [poster]	Yanren Zhou, Xiamen University, China	
17:45-17:50	Coastline Changes on the Polish Baltic Coast During the Last Millennium in Light of Dating Submerged Forests [poster]	Joanna Dudzińska-Nowak, University of Szczecin, Poland	

Scientific Session Two: River Mouth Systems and Urban Seas

Time/16 th	Lecture	Speaker/Affiliation/Local time	Host
※9:00-9:20	Progress in Defining Urban Sea Systems – A Marginal Seas Exercise	H. Gary Greene, San Jose State University, USA [18:00, California] on-line	Marzia Rovere

Scientific Session Three: Biogeography - biostratigraphy from Deep-time among marginal seas

Time/16 th	Lecture	Speaker/Affiliation/Local time	Host
※9:20-9:40	Silicolagellates as the “canary in the coal mine”	Kevin McCartney, University of Maine at Presque Isle, USA [21:20, Maine] on-line	Marzia Rovere
9:40-9:55	Indonesian Biogeography of the Incidence of Imposex in Marine Gastropods as Bioindicator of Pollution	Yenny Risjani, Brawijaya University, Indonesia	
9:55-10:10	Diverse deep-sea trace fossils from the Crocker Formation, northwestern Borneo, Malaysia	Changlong Xiang, China University of Geosciences, Wuhan, China	
10:10-10:25	Primary productivity variations in the Southern Bay of Bengal since the last glaciation: evidence from coccolithophores	Nilufar Yasmin Liza, South China Sea Institute of Oceanology, CAS, China	
20 mites	Break time		
10:45-11:00	Mangrove monitoring using Landsat data and AlphaEarth data in Pearl River Estuary (China)	Yuanzhi Zhang, City University of Hong Kong, China	Yenny Risjani
11:00-11:15	Microplastic pollution and response of microalgae	Baohong Chen, Third Institute of Oceanography, MNR, China	
11:15-11:30	Continental shelf area inundation drove reduced temperature seasonality in East Asia during the last deglaciation	Weiyi Sun, Nanjing Normal University, China	
11:30-11:35	Calcareous Nannoplankton Response to the Cenomanian–Turonian Oceanic Anoxic Event (OAE 2) in the eastern Tethys: evidence from southern Tibet 【poster】	Yasu Wang, Hainan University, China	Baohong Chen
11:35-11:40	Unveiling <i>Halamphora</i> sp. from Balekambang Beach, Malang Regency, Indonesia: Morphological and Molecular Insights 【poster】	Elya Putri Pane, University of Brawijaya, Indonesia	
11:40-11:45	Sedimentary Diatoms and Paleoenvironmental Significance Since the Last Glacial Period in the Northern South China Sea 【poster】	Xiaoyu Chen, Xiamen University, China	
11:45-11:50	The Application and Development of Diatom Conversion Function in the Study of Coastal Environmental Evolution 【poster】	Wenhui Liu, Xiamen University, China	

11:50-11:55	Biogeographic Patterns and Paleoenvironmental Reconstruction of Coastal Lagoons of South China: Insights from Ostracods and Foraminifera 【poster】	Xiwen Xiao, Guangzhou University, China	
11:55-12:00	Deep-Time diatomaceous ooze -- biogeography and biostratigraphy 【poster】	Jinpeng Zhang, Guangzhou Marine Geological Survey, CGS, China	

Scientific Sessions - extend 1

Time/16 th	Lecture	Speaker/Affiliation/Local time	Host
14:30-14:45	<i>Halamphora</i> diversity in Turkish coasts	Cüneyt Nadir Solak, Dumlupınar University, Türkiye [11:30 am, Istanbul]	Yuanzhi Zhang
14:45-15:00	Bubble mediated assembly of viral matter	Roman Marks, University of Gdansk, Poland [8:45 am, Gdansk]	
15:30-15:45	Sedimentary organic matters within the subtropical mountainous river-estuary-bay continuum: Provenances, fates and implication	Fengling Yu, Xiamen University, China	
15:15-15:30	Past Efforts and Future Challenges in Safeguarding the Straits of Malacca	Fatin Izzati Minhat, Universiti Malaysia Terengganu, Malaysia [15:15 am]	
15:30-15:35	Blue-Economy Geopolitics in the South China Sea: Interdependence, Risk and Opportunities for Cooperation 【poster】	Rifqi Ibrahim, Universitas Brawijaya, Indonesia	
15:35-15:40	Origin analysis of overpressure s and quantitative assessment in the Dongfang area, Yinggehai Basin 【poster】	Hangjun Xian , China University of Geosciences, Wuhan, China	
15:40-15:45	Reconstruction of Ocean Wave Spectrum Based on Deep Learning 【poster】	Sijia Huang , China University of Geosciences, Wuhan, China	
30mitues	Break time		

Scientific Sessions - extend 2

Time/17 th	Lecture	Speaker/Affiliation/Local time	Host
9:00-9:15	Paleogeographic Origins of Microcontinents in the Southern South China Sea and Evolution of the Paleo-Pacific Ocean and Proto-South China Sea	Licheng Cao, China University of Geosciences, Wuhan, China	Xinong Xie
9:15-9:30	Linking sedimentary and biologic characteristics with paleoenvironmental evolution since the Late Glacial off the Xisha Platform, northwestern South China Sea	Guanhua Li, Shantou University, China	

Open discussion Session one: Updating Marginal Seas Initiative's Roadmap

Time/16 th	Topic	Speaker/Affiliation/Local time	Host
16:15-16:20	A brief introduction	Peter Clift	Peter Clift, Junjie Deng, Jinpeng Zhang
16:05-16:15	Baltic Sea	Joanna Dudzinska-Nowak	
16:15-16:25	Baltic Sea, Gdansk Bay	Wojciech Jegliński, Grzegorz Uścińowicz	
16:25-16:35	Adriatic Sea, Ionian Sea	Marzia Rovere	
16:35-16:45	Java Sea and adjacent areas (Karimata Strait, Riau Archipelago area)	Franto Novico	
16:45-16:55	Banda Sea and adjacent area?	Yenny Risjani	
16:55-17:05	Strait of Malacca	Fatin Izzati Minhat [16:55, Kuala Lumpur] on-line	
17:05-17:15	Bengal Bay	Md Ashrafuzzaman [15:05, Dhaka] on-line	
17:15-17:25	China Seas	Jinpeng Zhang, Fengling Yu, Min Chen, Jun Liu, Junjie Deng	

17:25-17:40	Break		
17:40-18:10	MS Initiative updating Discussion		

Open discussion Session two: Co-construction of International Organization on Marginal Seas Science

Time/17th	Topic	Speaker	Host
9:35-10:45	International Scientific Organization for Marginal Seas Sciences [Mission, Structure, Charters/Regulations, Actions, Founding members and their obligations and rights]	All the participants	Jinpeng Zhang

Open discussion Session three: Potential Support to DDE program

Time/17th	Topic	Speaker	Host
11:00-12:00	DDE Discussion [Marginal Seas Task Group updating and routines to empower the partners and their linkage with other groups]	All the participants	Xinong Xie

Conclusion Session

Time/17th	Topic	Speaker	Host
15:00-15:30	Conference content discussion, Conclusion	Session's convenors,	P. Clift, W. Jegliński,

		All the participants	X.N. Xie, J.
15:30-16:00	Future joint work discussion, Conclusion	All the participants	Dudzińska-Nowak,
16:00-16:15	Publication issues discussion, Conclusion	Potential Journal/Magazine editorial office, all the participants	J. Deng, J. Waniek, Y.Z. Zhang, J.P. Zhang, Y. Risjani, M. Rovere, B. Chen, Jan Harff
16:15	CONFERENCE CLOSE (Closing ceremony)	GMGS/CGS Managers	Zhibin Sha

9. Introduction of Guangzhou

Guangzhou is a famous culture city and a splendid tourism city with a history of more than 2,200 years and a homeland of overseas Chinese as well. It enjoys the name of “Flower City” as the superb geographic and climatic conditions in the South contributes to local natural beauty. As a city of heroes, Guangzhou has a reputation of great eminence in the modern history of China. The famous historical sites of Nanyue Kingdom Palace, Maritime Silk Road Museum in the downtown, etc. and Sun Yat-sen Memorial Hall, Huanghuagang 72 Martyr Cemetery, Peasant Movement Institute and the Former Site of Huangpu Military Academy are the witnesses of the modern history of China, and together with Baiyun Mountain, Yuexiu Park, Liuhuahu Park, Guangzhou Tower, constitute colorful landscape groups. Meanwhile, Guangzhou was the starting point of the “Maritime Silk Road” and is an important port city for the reform and opening of China, making great contribution to the economic and cultural exchange and friendly contacts between China and the rest of the world.

Nansha district, Guangzhou located in the geometric center of the Guangdong-Hong Kong-Macao Greater Bay Area. Nansha, Guangzhou is a hub node connecting the city agglomeration on both sides of the Pearl River Estuary, and areas of Hong Kong and Macao islands, with an area of 803 square kilometers, an actual population of more than 1.2 million, and six towns and three streets. In June 2022, the State Council of P.R.C. issued the “Overall Plan for Guangdong-Hong Kong-Macao Comprehensive Cooperation in Deepening and Presenting Nansha to the World”, offering Nansha the important mission of building a major strategic platform based on this Bay Area, cooperating with Hong Kong and Macao and facing the world. Nansha's status in the overall development of the country has been continuously improved.

10. International support partners



China Geological Survey, China



Base for International Science & Technology Cooperation of Deepsea Geoscience,
MOST, China



Key Laboratory of Marine Mineral Resources, Ministry of Natural Resources, China



UNIVERSITY
OF SZCZECIN

University of Szczecin, Poland



Polish Geological Institute-National Research Institute, Poland



Leibniz Institute for Baltic Sea Research, Warnemünde, Germany



CNR
ISMAR
ISTITUTO
DI SCIENZE
MARINE

The Institute of Marine Sciences of the National Research Council, Italy



Brawijaya University, Indonesia



香港中文大學

The Chinese University of Hong Kong

The Chinese University of Hongkong



University College London, UK



baltic.earth

Baltic Earth System Science for the Baltic Sea Region



DDE Marginal Seas Task Group



Coordinating Committee for Geoscience Programmes in East and Southeast Asia



Scientific Committee on Oceanic Research

Section of Marine Geology, Polish Scientific Committee on Oceanic Research, Polish Academy of Sciences, Poland



Guangzhou Association for Science and Technology, China



Greater Bay Area Science Forum, China



Southern Marine Science and Engineering Guangdong Laboratory (Guangzhou), China



China University of Geosciences, China



Sun Yat-Sen University, China



Xiamen University, China



The Third Institute of Oceanography, MNR, China