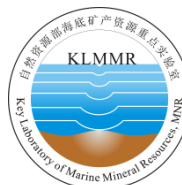




**深海地质探测国际科技合作基地**  
Base for International Science & Technology Cooperation of Deep Sea Geoscience



# **International Conference** **“Marine Geology and Deep Sea Exploration”**

**November 25-28, 2019**

**Guangzhou, PR China**



**Guangzhou Marine Geological Survey,**  
**China Geological Survey, PR China**

At present, marine geoscience is experiencing a new stage of development in terms of theory and technological innovation, with increasing geological scientific expeditions operating from the coastal zone to the open ocean, as well as to the polar regions of the oceans. To contribute to the progress in marine geoscience, and to foster international cooperation on this new stage, this International Conference on topics of Marine Geology and Deep Sea Exploration will be held in Guangzhou. The conference shall support the communication between Chinese scientists and their international partners in marine geological field, including the coastal and marine environmental research, fundamental geology and submarine resource exploration.

The conference is organized and hosted by Guangzhou Marine Geological Survey (GMGS) of China Geological Survey (CGS), and Base for International Science and Technology Cooperation of Deep Sea Geoscience, China. GMGS has carried out numerous successful marine geological surveys and scientific research work in the marginal sea areas, especially the South China Sea, and the deep sea as well as polar sea areas. In this field of science, GMGS has successfully cooperated with colleagues and organizations from the American and European Continents as well as from East and South Asia during the last 40 years.

The international part of this conference will be structured into four topical sessions and to be attended by 50 scientists from China and abroad for oral and poster presentations and discussions in English. A domestic conference “Marine Geology, Mineral Resources and Environment” will be held in parallel at the same time and the same venue in Chinese.

### **Time Table:**

25<sup>th</sup> Nov., 2019, Monday - Registration.

26<sup>th</sup> Nov., 2019, Tuesday - Opening ceremony and Keynote speech, Session presentations.

27<sup>th</sup> Nov., 2019, Wednesday - Session presentations.

28<sup>th</sup> Nov., 2019, Thursday - Business meeting, Free activities.

### **Venue:**

Sanyu Hotel, 23 Sanyu Rd., Yuexiu District, 510080 Guangzhou, China.

## **Session Description:**

### **(1) Marginal Seas – Zones of challenge in Continent-Ocean Interface**

Conveners: Jan Harff, Poland; Jinpeng Zhang, China; Wenyan Zhang, Germany; Di Zhou, China

Marginal seas and their coasts play an increasing role in marine geoscientific, environmental and socio-economic research. They serve as buffer zones for natural and anthropogenic matter- and energy-flux on the transfer between continents and oceans. But it is not only the continent-ocean transfer that is of interest in marine sciences. Also the exchange of water masses, particulate and dissolved matter between adjacent marginal seas is to be considered. Oceanographic and environmental cycles on different time scales are recorded in marine sediment successions, whose data have to be deciphered by the application of multi-proxy approaches. Understanding the functioning of marginal seas' dynamics requires a comprehensive view at the interrelation of oceanographic, geological, climatic and anthropogenic drivers. Interdisciplinary solutions of this challenging task are preconditions for reconstruction the geological history of continental margins but also for the generation of future scenarios needed against the background of climate change and increasing anthropogenic activities. Marine geo- and bio- scientists, coastal engineers, socio-economists and modelers are invited to attend the Topical Session in order to present and to discuss new research results, and strategies of coastal zone management and marine planning. The discussion will include comparative studies of marginal seas as well as innovative concepts in a new field of international data and model sharing in the big data world.

### **(2) Coastal Dynamics**

Conveners: Joanna Dudzinska-Nowak, Poland; Daria Ryabchuk, Russia; Abdullah Sulaiman, Malaysia; Zhen Xia, China

The session will cover issues related to coastal geology and geomorphology on different time and spatial scales, including evolution of coastal landforms, coastal morphodynamics and various associated processes in the coastal zone, which shape coastal features and cause morphological changes. Contribution to this session will focus on the driving forces and mechanisms responsible for coastal changes and

shoreline changes behaviour bringing together on the one hand natural factors, in particular: water level changes, waves, currents and sediment drift, and on the other hand anthropogenic factors involved, especially land reclamation, hydro-engineering structures and protection measures issues. The aim of the session is to bring together researches dealing with these problems using different techniques and methods, from statistics analyses and numerical modeling through geological reconstructions up to remote sensing and GIS approaches.

### **(3) Deep sea research and stratigraphy**

Conveners: Kevin McCartney, United States; Gaowen He, China

The session could cover topics related to deep sea expedition results in plates tectonic, submarine resources, marine biology and paleo-biology. In order to enhance the development of deep sea exploration in next stage, this session will pay a more attention to the deep sea drilling and stratigraphy research.

### **(4) Climatic and Oceanographic Changes – Marine Sedimentary Records**

Conveners: Michal Tomczak, Poland; Stephan Steinke, China, Xuejie Li, China; Hongjun Chen, China

The study of marine sedimentary archives contributes to the reconstruction of climate, environmental and oceanographic conditions, as well as atmospheric dynamics between low and high latitudes. Such studies should be based on the integration of seismo-acoustic data, as well as on the multi-proxy analysis of sediment cores. The response of high and low latitude areas to recent warming is expected to accelerate sea-level rise and increase climatic dynamics respectively leading to strong environmental and socioeconomic effects. In-depth knowledge of mechanisms forcing climate change in the past is an essential base for understanding current status and projection of future scenarios. Enhancing this knowledge requires an integrated effort of the scientific community. The purpose of this multi-disciplinary session is to bring together scientists working in marine realm, studying sedimentation processes related to ancient and current climate dynamics and paleo-oceanographic effects on marine sedimentation.

## **Conference Organizers:**

### ***Organizers:***

Guangzhou Marine Geological Survey, China Geological Survey, China  
Base for International Science & Technology Cooperation of Deep Sea Geoscience,  
China  
Key Laboratory of Marine Mineral Resources, Ministry of Natural Resources, China  
Southern Marine Science and Engineering Guangdong Laboratory (Guangzhou),  
China

### ***Host:***

Guangzhou Marine Geological Survey, China Geological Survey, China

### ***Scientific Committee (Alphabetical List):***

#### **Chairman:**

Shengxiong Yang (Chief Geoscientist of Guangzhou Marine Geological Survey,  
CGS, Guangzhou, China)

#### **Members:**

Qiuming Cheng (President of International Union of Geological Sciences;  
China Geosciences University-Beijing, China)  
Peter Clift (Louisiana State University, USA)  
Joanna Dudzińska-Nowak (University of Szczecin, Poland)  
Federica Foglini (The Institute of Marine Sciences, CNR, Italy)  
Jan Harff (University of Szczecin, Poland)  
Gaowen He (Guangzhou Marine Geological Survey, Guangzhou, China)  
Xuejie Li (Guangzhou Marine Geological Survey, Guangzhou, China)  
Francisco Jose Lobo Sanchez (University of Granada, Spain)  
Kevin McCartney (University of Maine at Presque Is., USA)  
Daria Ryabchuk (A.P. Karpinsky Russian Geological Research Institute, Russia)  
Stephan Steinke (Xiamen University, China)  
Abdullah Bin Sulaiman (Department of Mineral and Geosciences, Malaysia)  
Michal Tomczak (Polish Geological Institute-National Research Institute, Poland)  
Szymon Uscinowicz (Polish Geological Institute-National Research Institute, Poland)

Liaoliang Wang (Guangzhou Marine Geological Survey, Guangzhou, China)

Lushan Wu (Guangzhou Marine Geological Survey, Guangzhou, China)

Zhen Xia (Guangzhou Marine Geological Survey, Guangzhou, China)

Jianliang Ye (Director, Guangzhou Marine Geological Survey, China)

Jinpeng Zhang (Guangzhou Marine Geological Survey, Guangzhou, China)

Wenyan Zhang (Institute of Coastal Research, HZG, Germany)

***Local Organizing Committee:***

Jinpeng Zhang (chair), jinpenggmgs@sina.com; +86-020-31600582; 15915729329

Xiao Xiao (international cooperation), xiaoxiaoiris@163.com; +86-020-87625976;  
15813329171

Chenchen Yang (registration desk, poster session), yangchenchen9673@163.com;  
+86-020-82250771; 18898539519

Wenbo Du (registration desk, poster session), duwenbo5201314@163.com; +86-020-  
82251787; 13760968354

Yuke Liu (registration desk, poster session), liuyuke@hyd.cn; +86-020-87625976;  
15521200601

## International Support Organization:

University of Szczecin, Poland

Polish Geological Institute – National Research Institute, Poland

A.P. Karpinsky Russian Geological Research Institute, Russia

Department of Mineral and Geoscience, Malaysia

University of Maine at Presque Isle, USA

Institute of Marine Sciences, National Research Council, Italy

Leibniz Institute for Baltic Sea Research, Warnemuende, Germany

Louisiana State University, USA

University of Granada, Spanish National Research Council, Spain

International Association for Mathematical Geosciences



## Transport to Conference Venue:

According to the transportation spot you arrive at Guangzhou, there are 4 ways to get **Sanyu Hotel** (三寓宾馆).

### 1. Baiyun Airport:

Metro: line 2 to Gongyuanqian (公园前), changing with line 1 to DongshanKou (东山口 C exit), turn right along Nonglinxia Rd. (农林下路) 500 m to Sanyu Rd. (三育路), turn right along the slope up 350 m.

Taxi: about 150 RMB.

### 2. Guangzhou South Railway Station (Fast Train):

Metro: line 2 to Gongyuanqian (公园前), changing with line 1 to DongshanKou (东山口 C exit), turn right along Nonglinxia Rd. (农林下路) 500 m to Sanyu Rd. (三育路), turn right along the slope up 350 m.

Taxi: about 80 RMB.

### 3. Guangzhou East Railway Station:

Metro: line 1 to DongshanKou (东山口 C exit), turn right along Nonglinxia Rd. (农林下路) 500 m to Sanyu Rd. (三育路), turn right along the slope up 350 m.

Taxi: about 25 RMB.

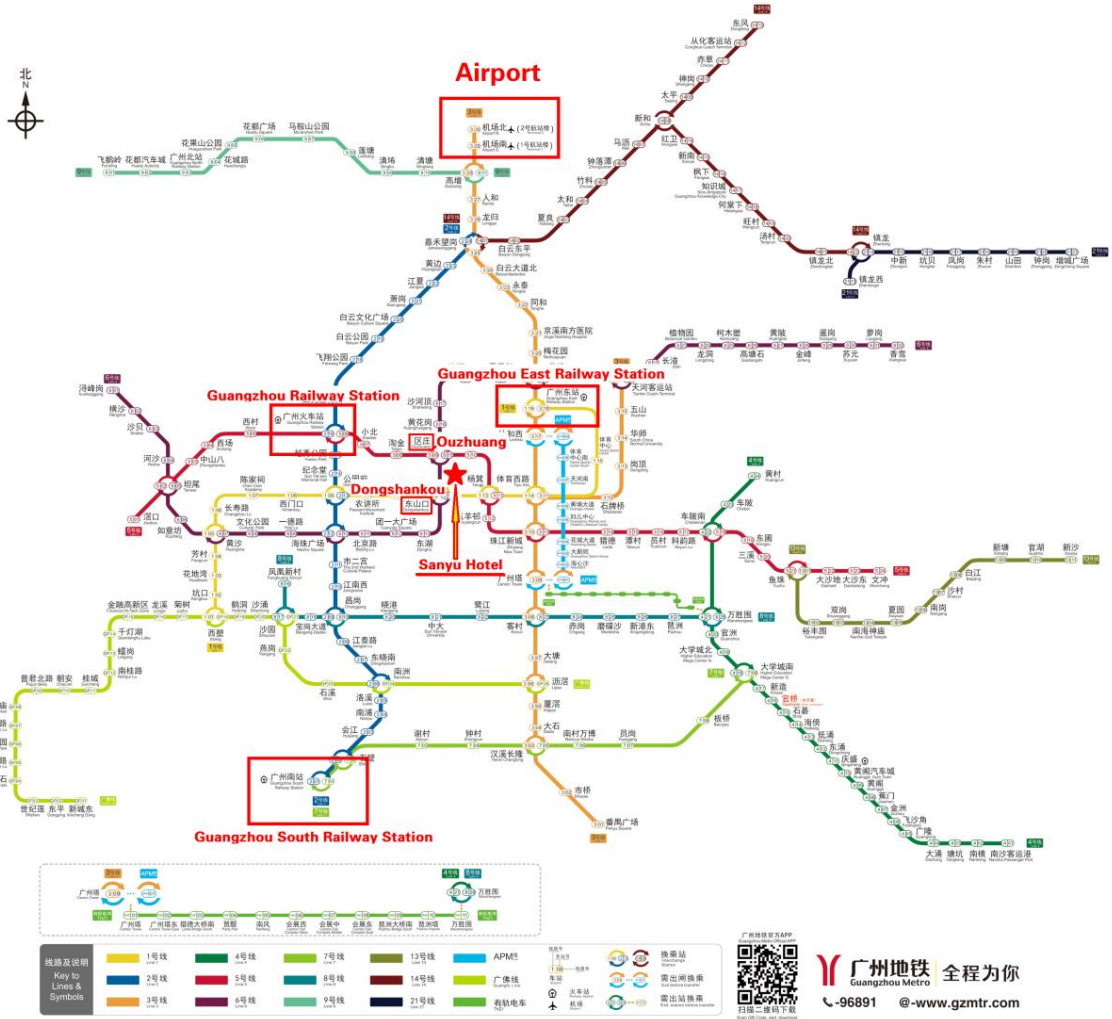
### 4. Guangzhou Railway Station:

Metro: line 5 to Ouzhuang (区庄 B2 exit), turn right along the down-slope Nonglingxia Rd. (农林下路) within 350 m, crossing Red-light to second Red-light, then turn left to Sanyu Rd. (三育路), along the slope up 350 m.

Taxi: about 25 RMB.

# 广州地铁线网示意图

## Guangzhou Metro System Map



## **Abstract Template:**

### **Conference on Marine Geology and Deep Sea Exploration, Guangzhou, China, November 2019**

**Session:** if your topic is over the session listed above, please mark Others

**Title of the presentation:** Time New Roman, 14

**Authors:** corresponding author\* Time New Roman, 11

**Affiliation:** Time New Roman, 11

**\* E-mail:** Time New Roman, 11

## **Abstract:**

Please prepare the abstract within one A4 page ( Time New Roman, 12). Thank you very much for your scientific work and sharing with other researchers. We are welcome you to visit Guangzhou, China. This conference notice can search at the GMGS official website, on the main page, right side. Website address:

<http://www.gmgs.cgs.gov.cn/>

<http://www.hydz.cn/english.html>.

**The abstract submission deadline is 17<sup>th</sup> November, 2019.**

**Keywords:** Time New Roman, 12

## **Oral or Poster presentation:**

**In case of poster presentation:** For saving nature resources and protecting environment, you can print your poster on A3 paper (less than 3 pages) and give a 3-minute short PPT presentation after lunch or before dinner. We offer print service for poster before your arrival.

**Please send your abstract** to Local Organizing Committee (LOC), and **please contact** with LOC if you have any questions.