



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

December 14-17, 2021

Conference Program

ZOOM_ID:925 7784 5467

Password: 2021



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

Preface

We are still in a special period of the COVID-19 Pandemic, and see the first signs of the end to travel restrictions and restart our international travelling for scientific communication. In order to promote communication and cooperation, we continue to prepare this marine geology conference.

At present, marine geosciences are experiencing a new stage of development in terms of theory but also technological innovation, with increasing numbers of geologically oriented scientific expeditions operating from the coastal zone to the open ocean, as well as into the polar regions. To contribute to this progress in marine geosciences, and to foster cooperation during this new stage with international colleagues we launched a scientific research initiative with the theme of “Eurasian Marginal Seas: Past and Future” (EMS initiative) in 2019. On 28th November, 2019, the first EMS initiative expert meeting was held in Guangzhou, China. 18 overseas experts from seven countries, together with 50 Chinese colleagues took part in that meeting to design the initiative rational routine. On 16-17th December, 2020, the on-line conference “Marginal seas: Past and Future”, representing the second EMS initiative meeting was held in Szczecin, Poland. Around 190 participants from 21 countries joined in this on-line conference.

The International Union of Geological Sciences (IUGS) and International Association for Mathematical Geosciences (IAMG) has offered kindly support for the EMS initiative network. The Deep-time Digital Earth big scientific program (IUGS-DDE) has approved a Marginal Seas Task Group and EMS research Project (“Morphological Evolution of Coastal Seas – Past and Future”), to be jointly supported by DDE, project partners and IAMG.

To continue pushing the EMS initiative forward, an on-line International Conference on the topics of Marine Geology: Marginal Seas - Past and Future will be held in Guangzhou. As the third EMS initiative meeting, it shall support communication in geo-marine science and technology between Chinese scientists and their international partners active in marine geosciences, including the coastal and marine environmental research, fundamental geology, marginal sea future projections and management for the

upcoming decades.

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

This international conference will be structured into four topical sessions and to be attended by about 60 scientists from China and abroad for oral presentations and discussion in the English language.

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1. Time Table

Conference days:

14th to 17th, December 2021.

14th December, 2021, Tuesday, Opening Ceremony and Keynote Speeches,

Session presentations

15th December, 2021, Wednesday, Session presentations

16th December, 2021, Thursday, Session presentations

17th December, 2021, Friday, Session presentation, discussion, conclusions

Time zones:

We take care of the international time zones, arranging the meeting time in daylight time of UTC/GMT+1 winter time zone, afternoon and evening of UTC/GMT+8 time zone.

The conference will start at

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

8:00 AM (Winter time, UTC/GMT+1, Central Europe Time, Szczecin, Warsaw,

Berlin, Copenhagen, Stockholm, Brussels, Paris, Madrid, Bologna,

Monaco, Zagreb; South Africa),

9:00 AM (Winter time, UTC/GMT+2, Eastern Europe Time, Riga, Tallin,

Helsinki),

10:00 AM (Winter time, UTC/GMT+3, Moscow, Istanbul),

12:30 PM (UTC/GMT+5:30, New Deli),

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),

23:00 PM (UTC/UTC-8, Pacific Standard Time, Vancouver, Seattle, California, Los Angeles),

1:00 AM (UTC/GMT-6, Central Standard Time, Oklahoma City, Baton Rouge, New Orleans),

2:00 AM (UTC/GMT-5, Eastern Standard Time, New York, Augusta),

3:00 AM (UTC/GMT-3, Buenos Aires).

2. Conference Venue

This is an on-line remote scientific conference. We would like to set the conference's main meeting place at Headquarter and Base of Guangzhou Marine Geological Survey, CGS, China.

3. 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_2021

ZOOM_ID:925 7784 5467

Password: 2021

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 and e-mail address. The linkage is

<https://zoom.us/meeting/register/tJYocO6gqj4uHNNv7KykpBEI5z0EOH-Lqj1C>

4. Session's Information

1) Advances in Marginal Sea Research

Conveners: Peter Clift (USA), Jan Harff (Poland), Jennifer McKinley (UK), Susan Nash (USA), Qiuming Cheng (China)

Abstract

Marginal seas and their coasts play an increasing role in marine geo- and environmental sciences and the development of sustainable development strategies. The application of big data analyses, functional numerical models and AI approaches can help to keep the balance between the protection of the natural environment of marginal seas and the economic use of their resources. The precondition is a deep understanding the functioning of marginal seas' dynamics on different time and spatial scales and demands interdisciplinary co-operation. A Marginal Seas Task Group has been established within the frame of the Deep-time Digital Earth (DDE) Big Sciences Program of the IUGS in order to foster this co-operation. Methodologically a co-operation with the International Association for Mathematical Geosciences (IAMG) is intended. For the effective application of the methods to be developed stakeholders are invited to join across international programs in marine environmental sciences.

2) Coastal morphodynamics and driving forces

Conveners: Wenyan Zhang (Germany), Tarmo Soomere (Estonia), Xinong Xie (China)

Abstract

Coasts constantly change their shape due to multiple physical and biological interactions that lead to sediment erosion and deposition. As the interface between land and sea, coasts are very sensitive to climate change and anthropogenic environmental impacts. They are increasingly threatened - depending on their location - by rising sea-level, floods, storms, tsunamis, coastal erosion and environmental hazards that endanger livelihoods. To mitigate the threats, cross-bordering sustainable management is becoming a mutual task for coastal lands and beyond. Management strategies need to consider the “geo-environmental” change in the past and future to separate natural and anthropogenic driving forces. Learning from recent history will help to understand the coastal change in near future. This session aims to bring international expertise together to provide an overview of current research status of coastal morphodynamics and future perspectives.

3) Ecosystem dynamics

Conveners: Andrzej Witkowski (Poland), Jean-Luc Mouget (France), Yahui Gao (China), Jinpeng Zhang (China), Yenny Risjani (Indonesia), Hung Duc Nguyen (Vietnam)

Abstract

Out of the complicated system of MS ecology, we decided to include only a part of it as a subject of a session. Thus, we take into account an important group and start with the primary producer – diatoms (Bacillariophyceae) as a target for this session. The main topic is “Recent and fossil diatom flora of the South China Sea - with particular reference to habitat characteristics and biogeography” which has been quite well studied from the diatom side in the last few years, either in terms of its geological past and its recent development. Diatom evolution extends back to the Mesozoic era and through time they became an important group of primary producers in oceanic (plankton) and coastal marine environments (benthic) with a species number estimated to exceed 100,000. With technological progress diatoms have become also a target for the marine blue biotechnology as a source of valuable metabolites. During this session we will also present the most recent works on the blue *Haslea* funded with H2020 program GHaNA. While, we still open the abstract contribution from other fields in ecosystem dynamics.

4) Methodological approaches and Geodata management (including GIS and RS)

Conveners: Federica Foglini (Italy), Joanna Dudzinska-Nowak (Poland), Yuanzhi Zhang (HK-China)

Abstract

The comparative studies of marginal seas (from mapping to process modeling) including both historical reconstruction and future projection requires fast and convenient access to databases containing necessary geological, oceanographic, bathymetric, ecological and climate data including Remote Sensing data. For a reflection of geoprocesses by models from the global to the regional level, a harmonization of geodata and their international accessibility are required. A basic task is also the visualization of maps of both empirical data and model results using GIS tools and mapping techniques. The main focus of this topic is on formatting, harmonizing, processing and mapping marginal sea data and the presentation of methodological approaches to manage geodata and to make the spatial database FAIR (Findable, Accessible, Interoperable and Reusable) through the implementation of dedicated Marine Spatial Data Infrastructure at different scales.

5. 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.

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

Co-Organizers:

University of Szczecin, Poland

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

DDE Marginal Seas Task Group

Helmholtz-Zentrum Hereon GmbH, Germany

GHaNA Work Group - European Union Research and Innovation Programme H2020

China University of Geoscience-Wuhan, China

Host:

Guangzhou Marine Geological Survey, China Geological Survey, China

Scientific Committee

Chairman:

Guangsheng Yan, China Geological Survey, China.

Co-chair:

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

Jan Harff (University of Szczecin, Poland)

Qiuming Cheng (IUGS Executive Committee councilor, Past President; Sun Yat-sen University and China University of Geoscience-Beijing, China)

Jennifer McKinley (IAMG Executive Committee councilor, Past President; IUGS

Executive Committee councilor; DDE Governing Council member; Queen's University Belfast, UK)

Mikhail Fedonkin (DDE Executive Committee councilor, Geological Institute of the Russian Academy of Sciences, Russia)

Member (*Alphabetical List*):

Ryszard Borówka (University of Szczecin, Poland)

Hayley Cawthra (Council for Geoscience, South Africa)

Peter Clift (University of Louisiana State University, USA)

Mateusz Damrat (Polish Geological Institute-National Research Institute, Poland)

Joanna Dudzińska-Nowak (University of Szczecin, Poland)

Federica Foglini (ISMAR- Institutes of Marine Research, CNR, Italy)

Yahui Gao (Xiamen University, China)

Gary Greene (Moss Landing Marine Laboratories, USA)

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

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

Tao Jiang (China Geosciences University-Wuhan, China)

Chao Li (DDE Secretariat, DDE Research Center of Excellence-Suzhou, China)

Xuejie Li (Guangzhou Marine Geological Survey, CGS, China)

Francisco José Lobo Sánchez (CSIC-University of Granada, Spain)

Kevin McCartney (University of Maine at Presque Isle, USA)

Markus Meier (Leibniz Institute for Baltic Sea Research, Warnemünde, Germany)

Jingli Miao (Development and Research Center, CGS, China)

Roland Oberhänsli (Potsdam University, Germany)

Andrzej Osadczuk (University of Szczecin, Poland)

Haijun Qiu (Guangzhou Marine Geological Survey, CGS, China)

Marcus Reckermann (Helmholtz-Zentrum Hereon GmbH, Germany)

Daria Ryabchuk (A.P. Karpinsky Russian Research Geological Institute, Russia)

Tarmo Soomere (Estonian Academy of Sciences, Tallinn University of Technology, Estonia)

Hans von Storch (Hereon Research Center, Hamburg University, Germany; Ocean University of China, China)

Abdullah Sulaiman (Department of Mineral and Geoscience of Malaysia, Institute of Geology Malaysia, Malaysia)

Waldemar Surosz (Polish Scientific Committee on Oceanic Research, PAN, Poland)

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

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

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

Andrzej Witkowski (University of Szczecin, Poland)

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Ping Yin (Qingdao Marine Geological Institute, CGS, China)

Vladimir Zhamoida (A.P. Karpinsky Russian Research Geological Institute, Russia)

Guangxue Zhang (Guangzhou Marine Geological Survey, CGS, China)

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

Minghua Zhang (Development and Research Center, CGS, China)

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6. Conference Agenda

Opening Ceremony

Time/14 th	Issue	Speaker/Local time	Host
15:00-15:08	Opening and Welcoming words	Guangsheng Yan, Conference Chairman, Chief Geoscientist of China Geological Survey, China	Jinpeng Zhang
15:08-15:15	Welcoming words	Jianliang Ye, General Director Guangzhou Marine Geological Survey, CGS, China	
15:15-15:20	Brief speech	Andrzej Skrendo, Vice Rector , 8:15am University of Szczecin, Poland	
15:20-15:25	Brief Speech	Oleg Petrov, General Director, 10:20am A.P. Karpinsky Russian Geological Research Institute, Russia	
15:25-15:30	Brief Speech	Piotr Szrek, Vice Director, 8:25am Polish Geological Institute-National Research Institute, Poland	

Time/14th	Plenary lecture	Speaker/Local time	Host
※ 15:35-16:05	Deep-time Digital Earth and Mineral Resources assessments in South China Sea and Surrounding Areas	Qiuming Cheng, 15:35 IUGS Executive Committee councilor, Past President	Jinpeng Zhang
※ 16:05-16:35	Deep-time Digital Earth (DDE) an IUGS science program aimed for data driven discoveries in Geosciences	Roland Oberhänsli, 9:05am Potsdam University, Germany	
※ 16:35-17:05	Crust structure and tectonic evolution of the southwest sub-basin and its conjugate margins, in the South China Sea	Yan Qiu, 16:35 Guangzhou Marine Geological Survey, CGS, China	
※ 17:05-17:35	The tectonic, geodynamic, and paleogeographic evolution of the elusive Proto South China Sea marginal basin	Sabin Zahirovic, 20:05 The University of Sydney, Australia	

(※, keynote speech)

Session One: Advances in Marginal Sea Research

Time/14 th	Lecture	Speaker/Local time	Host
※19:00-19:30	Marginal Sea Research and Mathematical Geoscience-The IAMG Keynote	Jennifer McKinley, 11:00am IAMG, Past President; IUGS Executive Committee councilor	Qiuming Cheng
19:30-19:50	DDE Marginal Seas Task Group	Jan Harff, 12:30am University of Szczecin, Poland	
19:50-20:10	Sea Level Changes in the Straits of Malacca During Late Pleistocene to Holocene Based on Sediment Records	Abdullah Sulaiman, 19:50 Department of Mineral and Geoscience of Malaysia, Malaysia	
20:10-20:30	Inception of a global atlas of Holocene sea levels	Nicole S. Khan, 20:10 The University of Hongkong, China-HK	
20:30-20:50	Marginal Sea Research in Myanmar: Past, Present and Future	Kyaw Moe 21:30 Japan Agency for Marine-Earth Science and Technology, Japan	
Break 20 minutes			
※21:10-21:40	Human impacts and their interactions in a large northern marginal sea (Baltic Sea region)	Marcus Reckermann 14:10 Helmholtz-Zentrum Hereon GmbH, Germany	Jan Harff
21:40-22:00	Paleomagnetic Secular Variations spanning the late Holocene in northern South China Sea	Guanhua Li, 21:40 Shantou University, China	
※22:00-22:30	Sediment Transport, Chemical Weathering in the South China Sea	Peter Clift, 8:00am University of Louisiana State University, USA	
※22:30-23:00	“Urban Seas” in the U.N. Decade of Ocean Science (2021-2030)	John R. Delaney, 7:30am University of Washington, USA	

Time/15th	Lecture	Speaker/Local time	Host
9:10-9:30	Evaluation of the Geological Environment Quality in the Northwestern South China Sea	Yulong Xue, 9:10am Marine Geological Survey Institute of Hainan Province, China.	Qiuming Cheng
※9:30-10:30	Artificial Intelligence and Machine Learning in the Geosciences	Susan Nash, 19:30, 14 th American Association of Petroleum Geologists, USA	
10:30-10:50	A Coupled Thermo-mechanical-Surface-Processes Model in the Northern Passive Continental Margin, South China Sea	Xianying Wang, 10:30am Guangzhou Marine Geological Survey, CGS, China	
10:50-11:10	Beach placer deposits in Guangdong province, South China	Hai Lin, 10:50am Guangzhou Marine Geological Survey, CGS, China	
Break for session 2			
Time/15th	Lecture	Speaker/Local time	Host
※19:00-19:30	New model of seafloor spreading in the Eurasian basin (Arctic Ocean): insights from the analysis of the sediment basin architecture	Pavel Rekant, 14:00 A.P. Karpinsky Russian Geological Research Institute, Russia	Jan Harff
19:30-19:50	Submarine ridges of the East Siberian Sea: lithology, morphology, genesis	Daria Ryabchuk, 14:30 A.P. Karpinsky Russian Geological Research Institute, Russia	
19:50-20:10	Genesis of the bedrock fragments from Mendeleev Rise based on its isotope-geochemical characteristics	Diana Prishchepenko, 14:50 A.P. Karpinsky Russian Geological Research Institute, Russia	

Session Two: Coastal morphodynamics and driving forces

Time/15 th	Lecture	Speaker/Local time	Host
※ 15:00-15:35	A hypothesis - the 2021 physics Nobel prize significant for understanding the variability of marginal sea morphology?	Hans von Storch, 8:00am Helmholtz-Zentrum Hereon GmbH, Germany	Xinong Xie
15:35-15:55	Effects of tides on river delta front morphodynamic evolution at tide-dominated funnel-shaped estuary, case study at the Pearl River Estuary (the Lingding Bay)	Junjie Deng, 15:35 Sun Yat-sen University, China	
15:55-16:15	Barrier coast evolution in the Holocene - example from the southern Baltic Sea	Pawel Sydor, 8:55am Polish Geological Institute – National Research Institute, Poland	
16:15-16:35	Geomorphology of paleo-channels system on Northern South China Sea Shelf in last glacial maximum.	Yufeng Wang, 16:15 Guangzhou Marine Geological Survey, CGS, China	
16:35-16:55	Paleogeographic Scenarios of the Northwestern Shelf of the South China Sea for the Last Glacial Cycle	Ping Xiong, 16:35 Wuhan Library, Chinese Academy of Sciences, China	Wenyan Zhang
16:55-17:15	Seamount related contourite drifts in the southern South China Sea: implication for complex seafloor morphology and ocean circulation	Shan Liu, 16:55 Sun Yat-sen University, China	
17:15-17:35	Linking oceanographic processes to contourite features: Numerical modelling of currents influencing a contourite depositional system on the northern South China Sea margin	Hui Chen, 17:15 Sun Yat-sen University, China	
17:35-17:55	Rate and dynamic of shoreline retreat – case of southern Baltic Sea	Grzegorz Uścińowicz, 10:35am Polish Geological Institute – National Research Institute, Poland	

Session Three: Ecosystem dynamics

Time/16 th	Lecture	Speaker/Local time	Host
※ 15:00-15:30	Are harmful marine microalgal blooms and their societal impacts increasing? A 30 year global data analysis	Gustaaf Hallegraeff, 18:00 Institute for Marine and Antarctic Studies, Australia	Jinpeng Zhang
※ 15:30-16:00	The genus <i>Haslea</i> at the omic age, not only new wine in old wineskins	Romain Gastineau, 8:30am Le Mans Université, France	
16:00-16:20	Two new genera and two new species of marine benthic diatoms from Southern China	Huina Lin, 16:00 Xiamen University, China	Yahui Gao
16:20-16:40	Marine Benthic Diatoms of the Mediterranean Sea coasts of Turkey, with the contribution of rare and interesting taxa	Aydın Kaleli, 11:20am Istanbul University, Turkey	
16:40-17:00	Epilithic diatoms along the coast of South Africa: Insights from baseline studies	Phumlile Cotiyane-Pondo, 10:40am Nelson Mandela University, South Africa	
Break 20 minutes			
17:20-17:40	Diatom flora as a carrier of mercury preserved in the surface sediments of the Puck Lagoon (southern Baltic Sea)	Dominika Hetko, 10:20am University of Gdańsk, Poland	Yenny Risjani
17:40-18:00	Coastal environments of Southeast Asia – diversity hot spot of brackish and marine <i>Luticola</i> (Bacillariophyceae) species?	Mateusz Rybak, 10:40am University of Rzeszów, Poland	
18:00-18:20	Abiotic factor's effect on the growth, photosynthesis efficiency and blue pigmentation of <i>Halea nusantara</i> diatom isolated from island Con Dao, Vietnam	Duc Hung Nguyen, 17:00 Saigon University, Vietnam	
Break 40 minutes			
19:00-19:20	Dynamics of the southern Baltic nearshore benthic communities in relation to temporally changing sediment plant material enrichment	Teresa Radziejewska, 12:00am University of Szczecin, Poland	

19:20-19:40	Late Quaternary paleoenvironment change in NW SCS: the record from fossil diatom	Jinpeng Zhang, 19:20 Guangzhou Marine Geological Survey, CGS, China	Andrzej Witkowski
19:40-20:00	Sedimentological and microfossil records of modern typhoons in a coastal sandy lagoon off southern China coast	Min Chen, 19:40 Third Institute of Oceanography, MNR, China	
20:00-20:20	The decadal variation of diatom species composition, abundance, and chlorophyll- <i>a</i> concentration in the northern South China Sea	Daner Li, 20:00 Xiamen University, China	
20:20-20:40	Across seas and blooms: a study of diatom epiphytic communities of <i>Padina</i> sp.	Julie Séveno, 13:20 Le Mans Université, France	
20:40-21:00	Diatom mediated production of gold-silica and silver-silica nanocomposite-characterizations and applications	Piya Roychoudhury, 13:40 University of Szczecin, Poland	
Break 20 minutes			
21:20-21:40	Changes of foraminiferal bio-facies in sub-surface sediment from shallow waters of Malacca Straits	Fatin Izzati Minhat, 21:20 Universiti Malaysia Terengganu, Malaysia	Andrzej Witkowski
21:40-22:00	Reconstruction of post-glacial changes in the ecosystem of the Szczecin Lagoon (SW Baltic Sea) on the basis of geochemical research of its marginal reservoir – Lake Nowowarpieńskie	Agnieszka Strzelecka, 14:40 University of Szczecin, Poland	
22:00-22:20	Trophic Status in the coastal waters of the Sea of Marmara, Turkey	Latife Köker, 17:00 Istanbul University, Turkey	

Session Four: Methodological approaches and Geodata management (including GIS and RS) And others

Time/17 th	Lecture	Speaker/Local time	Host
※ 15:00-15:30	Remote-sensing estimation of chlorophyll-a and suspended sediments concentrations in estuarine waters: A case study	Yuanzhi Zhang, 15:00 The Chinese University of Hong Kong, China	Joanna Dudzińska- Nowak
15:30-15:50	How estuary evolution impacted on human activities: a case from ancient harbors in Pearl River Estuary	Pingyuan Li, 15:30 Guangzhou Marine Geological Survey, CGS, China	
15:50-16:10	An Introduction to DDE Metadata Standard	Minghua Zhang, 15:50 Development and Research Center, CGS, China	
16:10-16:30	Marginal Seas Database Inventory - concept, first approach and future steps	Jakub Miluch, 9:10am University of Szczecin, Poland	
16:30-16:50	Sea level change and its impacts in the north of South China Sea	Yilin Yang, 16:30 Nanjing University of Information Science and Technology, China	Federica Foglini
16:50-17:10	Marine Geological Mapping of Pulau Songsong, Kedah Malaysia: Coastal Baseline Data Collection	Noran Alwakhir Shaarani, 16:50 Department of Mineral and Geoscience Malaysia, Malaysia	
17:10-17:30	Marine Geological Mapping of Perak River, Perak, Malaysia: River Baseline Data Collection	Mirza Iryawan Hamza, 17:10 Institute of Geology Malaysia, Putrajaya, Malaysia	
Break 90 minutes			
19:00-19:20	Spatial data integration and harmonization in the Adriatic Sea: How to make geodata FAIR and interoperable	Valentina Grand, 12:00am National Research Council, Institute of Marine Sciences, Italy	

19:20-19:40	Mangrove extraction and dynamic monitoring based on remote sensing data in Shenzhen and Hong Kong	Yingying Liu, 19:20 Nanjing University of Information Science and Technology, China	Yuanzhi Zhang
19:40-20:00	Distribution, source and pollution level of gallium and chromium in Kelantan River sediments, Malaysia	Mohamad Arif Che Abd Rahim, 19:40 Universiti Kebangsaan Malaysia, Malaysia	
20:00-20:20	A New Correlation between SPT-N and SSPT-N values for Various Soil types in Peninsular Malaysia	Abdull Halim Abdul, 20:00 Universiti Malaysia Terengganu, Malaysia	
20:20-20:40	Internal solitary waves observed on the continental shelf in the northern South China Sea from acoustic backscatter data	Yingci Feng, 20:20 South China Sea Institute of Oceanology, CAS, China	
Break 20 minutes			
21:00-22:00	Discussion, Conclusion	All the participants	Jan Harff, Jinpeng Zhang

7. International Support Organization

University of Szczecin, Poland

Deep Time Digital Earth Big Science Program, IUGS

International Association for Mathematical Geosciences

Section of Marine Geology, Polish Scientific Committee on Oceanic Research,

Polish Academy of Sciences, Poland

Baltic Earth

Helmholtz-Zentrum Hereon, Germany

Institute of Geosciences, Potsdam University, Germany

Russian Geological Research Institute, Russia

Polish Geological Institute – National Research Institute, Poland

Institute of Geology Malaysia, Malaysia

Institute of Marine Sciences, National Research Council, Italy

Biologie des Organismes, Stress, Santé, Environnement (BiOSSE), Le Mans Université,

France

Institute for Marine and Antarctic Studies, University of Tasmania, Australia

Faculty of Aquatic Sciences, Istanbul University, Turkey

Xiamen University, China

China University of Geosciences, Wuhan, China

China University of Geosciences, Beijing, China

Third Institute of Oceanography, MNR, China

GHANA Work Group - European Union Research and Innovation Programme H2020



UNIVERSITY OF SZCZECIN
**INSTITUTE OF MARINE AND
 ENVIRONMENTAL SCIENCES**



**Deep-time
 Digital Earth**
 IUGS Big Science Program

