

The 8th China-Southeast Asian Countries Marine Cooperation Forum



November 28-29, 2024

Jakarta, Indonesia

Hosted by:

National Research and Innovation Agency (BRIN), Indonesia

Ministry of Natural Resources (MNR), China

Organized by:

First Institute of Oceanography, MNR, China

Research Organization for Earth Sciences and Maritime, BRIN, Indonesia

Institute of Research and Community Services, Jenderal Soedirman

University, Indonesia

Agency for Marine and Fisheries Extension and Human Resource

Development, Ministry of Marine Affairs and Fisheries, Indonesia

Supported by:

Fourth Institute of Oceanography, MNR, China

Decade Collaborative Center on Ocean-Climate Nexus and Coordination
Amongst Decade Implementing Partners in P.R. China

Minutes of the 8th China-Southeast Asian Countries

Marine Cooperation Forum

The 8th China-Southeast Asian Countries Marine Cooperation Forum, themed “Strengthen Collaboration on Ocean and Climate to Accelerate Actions for the UN Decade of Ocean Science,” was successfully convened in Jakarta, Indonesia on November 28-29, 2024. Approximately 200 government officials and scientists from nine countries participated in the forum.

At the opening ceremony, two speeches were delivered by H.E. Mr. Laksamana Tri Handoko, Chairman of National Research and Innovation Agency (BRIN), Indonesia, and H.E. Mr. Shuxian Sun, Vice Minister of the Ministry of Natural Resources (MNR), China. Chairman Handoko affirmed the robust bilateral relations between Indonesia and China, recognizing China as a committed strategic partner in maritime cooperation. “The Indonesia-China Center for Ocean and Climate (ICCO) will be an open cooperation platform involving universities, relevant ministries, and other stakeholders in Indonesia and neighboring countries. This aligns with our efforts to accelerate contributions to the UN Decade of Ocean Science,” said Handoko. He also highlighted the importance of cooperation in integrated ocean management, ecosystem conservation, and climate change mitigation and adaptation under the UN Ocean Decade framework. In his speech, Vice Minister Shuxian Sun noted that China, as a responsible developing country, has consistently acted in the common and long-term interests of humanity and actively participated in global ocean governance under the UN framework. “Meanwhile, we have vigorously advanced regional maritime cooperation and carried out a host of flagship projects covering the conservation and restoration of typical marine ecosystems, coastal zone rehabilitation, and monitoring of endangered marine species. Together with relevant Chinese foundations, we have also implemented the ‘Blue Partnership Action’ to support coastal communities in Southeast

Asian countries in carrying out conservation activities,” Mr. Sun explained. He additionally proposed enhancing multilateral communication and deepening maritime collaboration to commemorate the historic anniversary of diplomatic relations in the coming year.

Following the opening speeches, Vice Minister Sun and Chairman Handoko signed the Memorandum of Understanding (MOU) between MNR and BRIN and officially inaugurated the ICCOC, marking a significant step in regional collaboration on marine and climate research. Major outcomes and initiatives were subsequently released: the Ocean and Climate Early wArNing Universal System (OCEANUS) in Southeast Asia and the China-Southeast Asia Coral Reef Conservation and Restoration Alliance Initiative.

The forum continued with the plenary session, during which five keynote speeches were delivered. Prof. Fangli Qiao, Co-chair of the forum and Deputy Director General of the First Institute of Oceanography (FIO), MNR, gave the first keynote speech with the title of *Let's Work Together for Prevention and Mitigation on Ocean to Climate Disasters*. The second was a video speech from Vladimir Ryabinin, Former Executive Secretary of the Intergovernmental Oceanographic Commission of UNESCO, in which he illustrated *Ocean Science for Sustainability*. In the third speech, Ms. Sumana Kajonwattanakul, Director of the Marine and Coastal Resources Research and Development Institute, Ministry of Natural Resources and Environment of Thailand, introduced *Impacts of Marine Debris to Marine Resource and Ecosystem: the Challenge and Lesson Learned in Thailand*. Prof. Nor Aieni Haji Mokhtar, Former Chancellor of Universiti Malaysia Terengganu gave the fourth one titled *International Marine Cooperation - Spotlight for Early Career Ocean Professionals*. The last speech was presented by Dr. Nyoman Radiarta, Chairman of the Agency for Marine and Fisheries Extension and Human Resources Development, Ministry of Marine Affairs and Fisheries, Indonesia, who talked about *Implementation of Blue Economy Policies in Indonesia*.

Two special events were held during the lunch break, namely “Lunch Dialogue on Promoting UN Ocean Decade through Regional Cooperation” and “Empowering Coastal Communities: The Blue Citizen Initiative in Action.” Organized by the UN Ocean Decade Collaborative Center on Ocean-Climate Nexus and Coordination amongst Decade Implementing Partners in P.R. China (DCC-OCC), the first lunch dialogue clarified DCC-OCC’s priorities for advancing regional marine cooperation across Southeast Asia. Experts from the Meteorological, Climatological and Geophysical Agency (BMKG) of Indonesia presented two endorsed Ocean Decade programs led by the agency. The Society of Entrepreneurs and Ecology (SEE) Foundation introduced its Blue Partnership Action Fund, highlighting outcomes in flagship marine species conservation, critical ecosystem restoration, sustainable fisheries governance, and public ocean science outreach. Attendees expressed strong interest in engaging stakeholders such as foundations in advancing Ocean Decade actions and pledged to leverage DCC-OCC as a pivotal multilateral platform to facilitate more regional Ocean Decade initiatives. The second event was organized by the Third Institute of Oceanography (TIO), MNR, China, and consisted of welcome remarks, invited speeches, and video showcase. By introducing the Blue Citizen Initiative and strengthening partnerships among governments, research institutions, and the private sector, this event formed an action-oriented Blue Citizen Network to support sustainable ocean practices and enhanced commitment from participants to support ocean conservation and literacy programs in their respective communities.

On the afternoon of November 28, five parallel sessions were convened, with the themes: 1) Ocean and Climate Observation, Forecasting, and Services; 2) Marine Ecosystem Protection, Biodiversity Conservation, and Biotechnology Development; 3) Marine Geosciences and Disaster Mitigation; 4) Marine Policy and Management; and 5) East Asia Summit Workshop on Developing Coastal Economy.

Session One, chaired by Dr. Chang Zhao, Dr. Intan Suci Nurhati, and

Dr. Salvienty Makarim, gathered about 40 experts from China, Indonesia, Bangladesh, Thailand, and Malaysia. A total of 26 oral presentations, including nine invited reports, were delivered, focusing on ocean climate change, ocean observation, ocean model and forecasting system, and ocean acidification and ecology. Exchanges centered on Indo-Pacific air-sea interaction, El Niño, and La Niña phenomena and their impacts on marine productivity and fisheries, observational methods and outcomes such as buoy and mooring observations and ecosystem monitoring in the Karimata Strait, Banda Sea, and South China Sea. Discussions were also held on numerical studies of typical regions, such as the Gulf of Thailand, the application of forecasting systems to coral reef bleaching early warning, ocean acidification observation and forecasting, heatwaves in the Bay of Bengal, primary productivity in the Banda Sea, and biogeochemical responses. All participants acknowledged the importance of ocean climate observation, marine early warning and forecasting, and public product development and committed to actively advancing public services in these fields.

Session Two was chaired by Dr. Xuelei Zhang, Dr. Udhi Eko Hernawan, and Dr. Riyanti. Around 40 participants attended the session, with 20 oral presentations from China, Cambodia, Indonesia, Malaysia, and Thailand. The session focused on marine biodiversity, marine protected areas (MPAs), marine bio-ecology, pollution and environmental change, biosafety, and the development of new technologies. In-depth discussions were held on the application of smart marine ecological observation technologies such as in-situ coral reef monitoring, monitoring of endangered megafauna, and eDNA. New areas of cooperation were identified in the selection and monitoring of MPAs, socio-economic-ecological benefit assessment, research on environmental variability and blue carbon, marine food safety and red tides, as well as product development, protection, and restoration of biodiversity.

Session Three was presided over by Dr. Xuefa Shi, Dr. Adrin Tohari,

and Dr. Che Abd Rahim Bin Mohamed. More than 30 participants from China, Malaysia, Thailand, Vietnam, Indonesia, and other countries attended. A total of 18 oral presentations were delivered, including four invited reports. Participants conducted in-depth exchanges on sediment and organic matter distribution, marine disaster research, sediment transport processes, and evolution of ocean circulation. The session proposed joint multilateral research projects on marine sedimentology, strengthened observation of modern sedimentary processes, and numerical simulation studies on sea-level change, monsoon variability, and the uplift of the Qinghai-Tibet Plateau.

Session Four, chaired by Dr. Zhiwei Zhang, Dr. Wahyu Widodo Pandoe, and Dr. Ir. I Nyoman Suyasa, attracted 40 participants from China, Malaysia, Myanmar, the Philippines, and Indonesia. Featuring 21 oral presentations, the session covered topics including marine spatial planning (MSP) and integrated coastal zone management (ICZM), marine fisheries management, marine conservation and restoration, and the blue economy. Participants noted that MSP is advancing rapidly at both national and regional levels, evolving toward the integration of marine biodiversity. Conservation and restoration of critical habitats such as mangroves, seagrass beds, and coral reefs, as well as the protection of rare marine species, have become key management priorities for all countries.

Session Five was chaired by Dr. Wei Zheng and Prof. Maria Dyah Nur Meinita. Assembled around 60 representatives of government departments, international organizations, and marine-related enterprises, the session comprised guest speeches, initiative announcement, keynote speeches, and roundtable discussions. Four representatives delivered welcome speeches, followed by the release of the initiative “Promote China-Southeast Asia Marine Industry Innovation Cooperation”. Subsequently, eight representatives gave keynote presentations related to the blue economy development of China and Southeast Asian countries, and seven representatives from government departments, enterprises, and universities

conducted a roundtable discussion on how to promote communication and cooperation in ocean economy under the framework of the UN Ocean Decade. Concurrently, a China-Indonesia business sharing session themed “Best Practices for Global Seaweed Industry” was jointly organized by the Ocean Decade International Cooperation Center and multiple Indonesian ministries and agencies, including the Coordinating Ministry for Economic Affairs, the Coordinating Ministry for Food Affairs, the National Economic Council, the Ministry of Marine Affairs and Fishery, the Coordinating Ministry for Maritime Affairs and Investment, and BRIN. The event brought together ten partners from the United Nations, Japan, the Netherlands, and other countries, along with representatives from more than ten Chinese and Indonesian companies and five industry associations, including the Indonesian Seaweed Association, totaling over 60 participants. Relevant enterprises conducted targeted business promotion, with letters of intent signed for fisheries resource cooperation and raw material procurement partnerships on-site.

After the parallel sessions, the plenary session was reconvened on the morning of November 29, co-chaired by Prof. Fangli Qiao and Prof. Maria Dyah Nur Meinita. Five session chairs presented summaries of their respective sessions, including basic information, scientific progress, and potential cooperation between China and Southeast Asian countries. Heated discussions followed on how to strengthen cooperation under the Ocean Decade Framework. All participants spoke highly of the forum for facilitating academic and managerial experience exchanges in marine fields and expressed expectations for sustained and in-depth regional maritime cooperation. Prof. Fangli Qiao delivered closing remarks, marking the successful conclusion of the forum.

The forum agenda and participant list are attached in Annex I and Annex II, respectively.

Annex I

The 8th China-Southeast Asian Countries Marine Cooperation Forum Agenda

November 28-29, 2024

BRIN headquarters, Jakarta, Indonesia

November 28, 2024 (Thursday)	
08:00 - 13:00 (UTC+7)	
Time	Program
08:00 - 08:50	Registration
Plenary Session - Opening Ceremony (Auditorium, 3rd Floor, BRIN headquarters)	
<i>Moderator: Ms. Danhong Chen, Director General of International Cooperation Department, Ministry of Natural Resources, China</i>	
09:00 - 09:05	Welcoming remarks by Mr. Laksana Tri Handoko, Chairman of National Research and Innovation Agency (BRIN), Indonesia
09:05 - 09:10	Welcoming remarks by Mr. Shuxian Sun, Vice Minister of Ministry of Natural Resources (MNR), China
<i>Moderator: Ms. Maftuha Rifka Auliya, Bureau for Legal and Cooperation, BRIN</i>	
09:10 - 09:15	MOU Signing Ceremony between BRIN and MNR
09:15 - 09:20	Unveiling ceremony of Indonesia-China Center for Ocean and Climate
09:20 - 09:25	Achievement release - <i>Ocean and Climate Early wArNing Universal System (OCEANUS) in Southeast Asia</i>

09:25 - 09:30	Initiative release - <i>China-Southeast Asia Coral Reef Conservation and Restoration Alliance Initiative</i>
Plenary Session - Keynote Speech (Auditorium, 3rd Floor, BRIN headquarters)	
<i>Moderator: Prof. Tiegang Li, Director General of First Institute of Oceanography, MNR, China</i>	
09:30 - 09:50	Keynote speech by Prof. Fangli Qiao, Deputy Director General of First Institute of Oceanography, MNR, China (Title: <i>Let's Work Together for Prevention and Mitigation on Ocean to Climate Disasters</i>)
09:50 - 10:10	Keynote speech by Dr. Nyoman Radiarta, Chairman of Agency for Marine and Fisheries Extension and Human Resource Development, Ministry of Marine Affairs and Fisheries, Indonesia (Title: <i>Implementation of Blue Economy Policies in Indonesia</i>)
10:10 - 10:40	Group Photo & Coffee Break & Poster Display
<i>Moderator: Dr. Suci Intan Nuthati, Director of Research Centre for Deep Sea, BRIN, Indonesia</i>	
10:40 - 11:00	Keynote speech by Vladimir Ryabinin, Former Executive Secretary of Intergovernmental Oceanographic Commission of UNESCO (online) (Title: <i>Ocean Science for Sustainability</i>)
11:00 - 11:20	Keynote speech by Ms. Sumana Kajonwattanakul, Director of Marine and Coastal Resources Research and Development Institute, Ministry of Natural Resources and Environment, Thailand (Title: <i>Impacts of Marine Debris to Marine Resource and Ecosystem: the Challenge and Lesson Learned in Thailand</i>)
11:20 - 11:40	Keynote speech by Prof. Nor Aieni Haji Mokhtar, Former Chancellor of Universiti Malaysia Terengganu (Title: <i>International Marine Cooperation - Spotlight for Early Career Ocean Professionals</i>)
11:40 - 13:00	Lunch (Auditorium, 3rd Floor)
12:20 – 13:00	Special Event 1: Lunch Dialogue on Promoting UN Ocean Decade through Regional Cooperation (Auditorium, 3rd Floor)
12:30 - 13:00	Special Event 2: Empowering Coastal Communities: The Blue Citizen Initiative in Action (JIRAP Meeting Room, 3rd

	Floor)		
14:00 - 18:00 (UTC+7)			
Parallel Sessions			
Session 1: Ocean and climate observation, forecasting, and services (13:00-18:00) (IPTEK Meeting Room, 3rd Floor)			
13:00 - 13:30	Registration and Welcome Remarks		
Part One: Ocean Climate Change Convener: Dr. Intan Suci Nurhati			
13:30 - 13:45	A decade study of Indian-Pacific ocean exchange and its role in climate (Invitation Report)	Dongliang Yuan	First Institute of Oceanography (FIO), Ministry of Natural Resources, China
13:45 - 14:00	Understanding Upwelling Process Related to Productive Ocean, Fishery Production and Climate Variability: Case Study in Indonesia Waters (Invitation Report)	Augy Syahailatua	Research Center for Oceanography, National Research and Innovation Agency, Indonesia
14:00 - 14:12	South Pacific water intrusion into the sub-thermocline Makassar Strait in the winter of 2016-2017 following a super El Niño	Mingting Li	School of Marine Sciences, Sun Yat-sen University, China
14:12 - 14:24	A new sea ice cover regime emerging in the Bering Sea	Weibo Wang	Third Institute of Oceanography, Ministry of Natural Resources, China
14:24 - 14:36	Variability of Surface Freshwater Transport in Indonesian Throughflow Pathway during 1998-2001 and 2020-2023 Triple-Dip La Niñas	Agus Setiawan	National Research and Innovation Agency, Indonesia
14:36 - 14:48	Seasonal reversal of mesoscale eddy polarities in marginal seas of the West Pacific	Lingling Xie	Guangdong Ocean University, China

Part Two: Ocean Observation Convener: Dr. Salvienty Makarim			
14:48 - 15:03	Towards an integrated, cost-effective and efficient coastal ecosystem monitoring strategy for developing countries (Invitation Report)	Subrata Sarker	Department of Oceanography, Shahjalal University of Science and Technology, Bangladesh
15:03 - 15:18	On Near Inertial Mixing in The Banda Sea (Invitation Report)	Albert Sulaiman	Research Center for Climate and Atmosphere, Badan Riset dan Inovasi Nasional (BRIN), Bandung, Indonesia
15:18 - 15:30	Amplitude Modulations of Seasonal Variability in the Karimata Strait throughflow	Shujiang Li	First Institute of Oceanography, Ministry of Natural Resources, China
15:30 - 15:42	Comparison of tidal currents in the Sunda Strait using various models and HF radar	Subekti Mujiasih	National Research and Innovation Agency (BRIN), Indonesia
15:42 - 15:54	Atmospheric and oceanic parameters observed by a metocean buoy in the southern South China Sea	Wee Cheah	Universiti Malaya, Malaysia
15:54 - 16:06	Utilization of Drifting Buoys for Ocean Current Monitoring: Trajectory Mapping in the Segara Anakan Lagoon Area	Rizqi Rizaldi Hidayat	Department Marine Science, Jenderal Soedirman University, Indonesia
16:06 - 16:30	Coffee break and Group Photo		
Part Three: Ocean Model and Forecasting System Convener: Dr. Chang Zhao			
16:30 - 16:45	Ocean Seamless Forecasting: Regional Partnership in developing multi-hazard early warning system (Invitation Report)	Mohd Fadzil Mohd Akhir	Institute Oceanography and Environment, Universiti Malaysia Terengganu, Malaysia
16:45 - 17:00	Seawater based Electricity Production in the Coastal Area of Bangladesh (Invitation Report)	K M Azam Chowdhury	University of Dhaka, Bangladesh
17:00 - 17:15	Toward an application of Ocean Forecast System in early warning coral bleaching in Thailand coastal seas (Invitation Report)	Chalermrat Sangmanee	Department of Marine and Coastal Resources, Thailand

17:15 - 17:27	Numerical Study on the Circulation in the Gulf of Thailand and Its Seasonal Water Exchange with the South China Sea	Changshui Xia	First Institute of Oceanography (FIO), Ministry of Natural Resources, China
17:27 - 17:39	Preliminary Results on The Application of FIO-OFS For Detecting Coral Heat Stress In Indonesia Seas	Dwiyoga Nugroho	Research Centre for Oceanography, National Research and Innovation Agency (BRIN), Indonesia
17:39 - 17:51	Operational ocean forecasting services in China	Zhang Zhihua	National Marine Environmental Forecasting Center/Tsunami Warning Center, MNR, China
17:51 - 18:03	Observing and forecasting ocean acidification: multi-annual carbonate system dynamic in the Sunda Shelf Sea	A'an Johan Wahyudi	Research Center for Oceanography, National Research and Innovation Agency, Indonesia
Session 2: Marine ecosystem protection, biodiversity conservation, and biotechnology development (14:00 - 18:15) (JIRAP Meeting Room, 3rd Floor)			
Conveners: Dr. Xuelei Zhang, Dr. Udhi Eko Hernawan, Dr. Riyanti			
14:00 - 14:15	Conservation of Marine Endangered Species in the Indo-Pacific Convergence Area	Shenghao Liu	First Institute of Oceanography (FIO), Ministry of Natural Resources, China
14:15 - 14:30	Designation of Marine Protected Areas: A Case Study of Local Community Perception in Kep Province, Cambodia	Dara Sum	Department of Coastal Zone and Marine Conservation, Ministry of Environment, Cambodia
14:30 - 14:45	A Description of Physicochemical and Biological Characteristics of Marine Waters on Small Islands in Southwest Maluku, Indonesia	Iis Triyulianti	National Research and Innovation Agency (BRIN), Indonesia
14:45 - 15:00	SMART Perception of Marine Ecosystems	Xuelei Zhang	First Institute of Oceanography (FIO), Ministry of Natural Resources, China
15:00 - 15:15	Habitat use of Indo-Pacific humpback dolphins, <i>Sousa chinensis</i> , in Khanom-Donsak Bay, Thailand	Watchara Sakornwimon	Marine and Coastal Research and Development Insitute, Ministry of Natural Resources and Environment, Thailand

15:15 - 15:30	Impact of Urban Development on Marine Dynamics: A Study of Chlorophyll-a and Phytoplankton in Balikpapan Bay, Indonesia	Iwan Pramesti Anwar	Faculty of Earth Sciences and Technology, Institut Teknologi Bandung, Indonesia
15:30 - 15:45	Resilience in peril: can coral reefs survive consecutive extreme events in a protection zone?	Xijie Zhou	Third Institute of Oceanography (TIO), Ministry of Natural Resources, China
15:45 - 16:00	Regeneration and growth of horizontally fragmented anthocyatus and anthocaulus of coral <i>Fungia fungites</i> (Fungiidae, Scleractinia) under different Light spectrum and intensities	Widiastuti	Department of Marine Science, Faculty of Marine and Fisheries, Universitas Udayana, Indonesia
16:00 - 16:15	Multi-annual change of Jakarta Bay's carbonate system	Camellia Tito	National Research and Innovation Agency (BRIN), Indonesia
16:15 - 16:30	Observation and ocean modelling of Balikpapan Bay to support strategic plan of Nusantara Capital City development	Mutiara Rachmat Putri	Faculty of Earth Science and Technology, Institute of Technology Bandung (ITB), Indonesia
16:30 - 16:45	Physical drivers of <i>Noctiluca scintillans</i> (Dinophyceae) blooms outbreak in the northern Taiwan Strait: A numerical study	Haifeng Gu	Third Institute of Oceanography (TIO), Ministry of Natural Resources, China
16:45 - 17:00	Benthic harmful dinoflagellate community in coral reef ecosystem of Perhentian Island, Malaysia	Po Teen Lim	Bachok Marine Research Station, Institute of Ocean and Earth Sciences (IOES), University of Malaya, Malaysia
17:00 - 17:15	Food safety concerns to Indonesian bivalve molluscs and the potential risk to human health	Dwiyitno	National Research and Innovation Agency (BRIN), Indonesia
17:15 - 17:30	Spatial distribution of total petroleum hydrocarbon (TPHs) in sediments of three bays in Lombok Island, Indonesia	Deny Yogaswara	National Research and Innovation Agency (BRIN), Indonesia
17:30 - 17:45	Long-term trend analysis of the summer hypoxia off the Changjiang Estuary and compounding severe events with El Niño	Feng Zhou	Second Institute of Oceanography (SIO), Ministry of Natural Resources, China
17:45 - 18:00	Do mangroves benefit the carbon sequestration in their adjacent seagrass meadows	Guangcheng Chen	Third Institute of Oceanography (TIO), Ministry of Natural Resources, China

18:00 - 18:15	Temporal heterogeneity of phytoplankton diversity in the Beibu Gulf and its application to marine zonation	Feiyang Ge	South China Sea Ecological Center, Ministry of Natural Resources, China
Session 3: Marine geosciences and disaster mitigation (INOVASI Meeting Room, 3rd Floor)			
Conveners: Dr. Xuefa Shi, Dr. Adrin Tohari, Dr. Che Abd Rahim Bin Mohamed			
14:00 - 14:15	Biogenic elements in the suspended particles and surface sediments of Kelantan and Pahang Deltas, Malaysia (Invited Report)	Che Abd Rahim Mohamed	Universiti Kebangsaan Malaysia
14:15 - 14:30	Marine geology at the Upper Gulf of Thailand and its sister impacts (Invited Report)	Niran Chaimanee	Department of Marine and Coastal Resources, Thailand
14:30 - 14:45	Distribution and burial of sedimentary organic carbon in the eastern China seas	Shuqing Qiao	FIO, MNR, China
14:45 - 15:00	Progress in the study of North Pacific Intermediate Water Evolution during the Late Quaternary	Jianjun Zou	FIO, MNR, China
15:00 - 15:15	Development and the application of the China's Ocean Satellites	Bin Zou	National Satellite Ocean Application Service, China
15:15 - 15:30	Changes in accumulation of land-based organic matter under recent climate change and anthropogenic impact: A tropical coastal perspective	Limin Hu	Ocean University of China, China
15:30 - 15:45	Can we distinguish provenance by difference of shape characteristics of suspended sediment particle?	Jian Chen	TIO, MNR, China
15:45 - 16:00	Coffee break		
16:00 - 16:15	Mapping sediment type of the South China Sea (Invited Report)	Xuefa Shi	FIO, MNR, China
16:15 - 16:30	Physical and biogeochemical factors act as controlling factors on the distribution of dissolved methane in Arctic	Oanh Thi Ngoc Bui	Vietnam National University, Vietnam

	Ocean summertime		
16:30 - 16:45	Riverine sediment geochemistry and its dispersal pattern on the western Sunda Shelf	Nicholas Chia Wei Ng	Tongji University, China
16:45 - 17:00	Assessment of geochemical accumulation and anthropogenic enrichment of heavy metals in Jakarta Bay sediment	Idha Ikhsani	National Research and Innovation Agency, Indonesia
17:00 - 17:15	Suspended sediment transport along tropical river catchment-estuary-coastal shelf system	Aijun Wang	TIO, MNR, China
17:15 - 17:30	Analyze the dynamics of seiches and harbour oscillations caused by the Hunga Tonga-Hunga Ha'apai tsunami	Zulfa S Zakia	Universitas Jendral Soedirman, Indonesia
17:30 - 17:45	Rare Earth Element Geochemistry of Kelantan and Pahang River Fluvial Sediments	Abdul Hafidz Yusofff	Universiti Malaysia Kelantan
Session 4: Marine Policy and Management (RISET Meeting Room)			
Conveners: Dr. Zhiwei Zhang, Dr. Wahyu Widodo Pandoe			
14:00 - 14:20	DCC-OCC's Strategy Development Plan supporting Southeastern Asian Regional Marine Cooperation	Weidong Yu	Sun Yat-Sen University, Zhuhai, China
14:20 - 14:40	Scenario Development for Sustainable Marine Tourism: The Case of Super Priority Marine Tourism Destination (SPMTD) of Labuan Bajo, Indonesia	Suharyanto	Ministry of Marine Affairs and Fisheries, Indonesia
14:40 - 15:00	Social-Ecological System Approach to Fisheries Management and Ocean Governance in Indonesia – Some Empirical Studies	Luky Adrianto	IPB University, Indonesia
15:00 - 15:12	Habitat-use-based spatial planning: an overlooked aspect in Indonesian Marine Spatial Planning	Achmad Sahri	National Research and Innovation Agency (BRIN), Indonesia
15:12 - 15:24	UN21: Accelerate Marine Spatial Planning in the Western Pacific	Chen Ma	First Institute of Oceanography (FIO), Ministry of Natural Resources, China

15:24 - 15:36	The Ecosystem-Based Management (EBM) policy making	Johan Risandi	National Research and Innovation Agency (BRIN), Indonesia
15:36 - 15:48	Development Path of Island Ecotourism Based on Human-Sea Interaction	Fenggui Chen	Third Institute of Oceanography (TIO), Ministry of Natural Resources, China
15:48 - 16:00	Typical Cases of Blue Carbon Ecological Protection in Guangxi, China	Wendan Mu	Fourth Institute of Oceanography (4IO), Ministry of Natural Resources, China
16:00 - 16:12	Coastal Protection Strategy in National Asset Zones Against Disasters Utilizing Hybrid Engineering Approaches	Khusnul Setia Wardani	National Research and Innovation Agency (BRIN), Indonesia
16:12 - 16:36	Coffee break		
16:36 - 16:48	Enabling Marine Spatial Planning Governance in Thailand	Sakanan Plathong	Prince of Songkla University, Thailand
16:48 - 17:00	Assessing the Sustainability of Indonesia's Red Snapper Fishery in the Arafura and Timor Sea: A Triple Bottom Line Review Using Fishery Performance Indicators	Kamaluddin Kasim	Bandung Institute of Technology, Indonesia
17:00 - 17:12	Formulating an Integrated Policy Approach: Marine Spatial Planning and DPSIR for Eutrophication Control in Malaysia	Sazlina Salleh	University Sains Malaysia, Malaysia
17:12 - 17:24	Facilitating Coastal Erosion along the Shoreline of Naic and Ternate, Cavite, through Adaptive Approach	Anabelle Cayabyab	Environment and Natural Resources Office, Provincial Government of Cavite, Philippines
17:24 - 17:36	Constraints-Innovations and Driving Factor of Lobster Aquaculture with A Bibliometric Approach	I Nengah Putra Winata	Bandung Institute of Technology, Indonesia
17:36 - 17:48	Some Information of the policies, law, regulations and conservations related to Integrated Coastal Zone Management (ICM) of Myanmar	Nang Mya Han	Marine Science Department, Myeik University, Myanmar
17:48 - 18:00	Examining the Role of Indonesian Fishing Ports in Contributing to Ocean Plastic Pollution: A	Tri Yuwono	Ministry of Marine Affairs and Fisheries, Indonesia

	Comprehensive Review		
Session 5: East Asia Summit Workshop on Coastal Economy Development (BRIN Auditorium, 3rd Floor)			
Conveners: Dr. Wei Zheng, Dr. Maria Dyah Nur Meinita			
14:00 - 14:20	Stage 1: Guest Speeches Moderator: Wei Zheng, Executive Director of Ocean Decade International Cooperation Center		
14:00 - 14:05	Welcome Speech	Danhong Chen	Director of the International Cooperation Department, Ministry of Natural Resources, China
14:05 - 14:10	Welcome Speech	Haixia Xie	Minister-Counsellor of the Mission of the People's Republic of China to the Association of Southeast Asian Nations (ASEAN)
14:10 - 14:15	Welcome Speech	Mego Pinandito	Deputy Chairman of Policy Development, BRIN
14:15 - 14:20	Welcome Speech	Yali Zhao	Vice President of the Pacific Economic Cooperation Council China National Committee
14:20 - 14:25	Stage 2: Initiative Announcement Moderator: Wei Zheng, Executive Director of Ocean Decade International Cooperation Center		
14:20 - 14:25	Initiative Announcement—Promote China-Southeast Asia Marine Industry Innovation Cooperation	Haoyu Zang	Deputy District Mayor of Qingdao West Coast New Area, Director of the Management Committee of the Ocean Decade International Cooperation Center
14:25 - 16:40	Stage 3: Keynote Speeches Moderator: Maria Dyah Nur Meinita, Professor of Jenderal Soedirman University (UNSOED) Wei Zheng, Executive Director of Ocean Decade International Cooperation Center		
14:25 - 14:40	How to support coastal economic development by	Weiling Song	Deputy Director of the Marine Economy

	better measuring the Ocean economy		Research Office of National Marine Data and Information Service
14:40 - 14:55	Enhancing Coastal Economy through Essential Ocean Variables	A'an Johan Wahyudi	Principal Research Scientist of National Research and Innovation Agency of Indonesia
14:55 - 15:10	From Nearshore to Offshore, Relaying for Land-Sea Aquaculture: Practice of Modern Marine Ranching in Guangdong Province, China	Lei Wang	Deputy Director of the Third Institute of Planning of Guangdong Urban-Rural Planning and Design Research Institute Technology Group Co., Ltd.
15:10 - 15:25	Marine Aquaculture in Malaysia	Noor Hasmayana Yahaya	Head of the Marine Aquaculture Section of the Aquaculture Division of the Department of Fisheries Malaysia
15:25 - 15:40	Research on Key Technologies for the Development and Utilization of Fucoxanthin from Kelp	Xiaomin Xi	Doctor of the Engineering Innovation Center for the Development and Utilization of Marine Bioresources of the Third Institute of Oceanography, Ministry of Natural Resources
15:40 - 15:55	Seaweed Blue Economy: Potential and Challenge of Seaweed Development in Indonesia	Maria Dyah Nur Meinita	Professor of Jenderal Soedirman University (UNSOED)
15:55 - 16:10	Improving the high-value utilization of Indonesian red algae resources and making more contributions to building a community with a shared future for mankind	Yang Wu	Vice president of Qingdao Gather Great Ocean Algae Industry Group Co., Ltd.
16:10 - 16:25	Current Status of Ocean Renewable Energy Research in Indonesia	Erwandi Erwandi	Researcher of Research Center for Hydrodynamic Technology, BRIN
16:25 - 16:40	The Role of Seagrass Ecosystems in Blue Carbon for Sustainable Blue Economy Development in Thailand	Tipamat Upanoi	Director of Phuket Marine Biological Center, Marine and Coastal Resources Research and Development Institute, Department of Marine and Coastal Resources, Ministry of Natural Resources and Environment

			Of Thailand
16:40 - 16:55	Coffee Break		
16:55 - 17:25	Stage 4: Roundtable Discussion		
16:55 - 17:25	How to promote communication and cooperation in ocean economy under the framework of the United Nations “Decade of Ocean Science for Sustainable Development”	Moderator: Maria Dyah Nur Meinita	Professor of Jenderal Soedirman University (UNSOED)
		Discussants:	
		Tharika Chheng	Chief of the Research and Development Office of the Department of Science and Technology of Ministry of Environment, Cambodia
		Jie Yu	Director of Institute of Natural Carbon Sink
		Erwandi Erwandi	Researcher of Research Center for Hydrodynamic Technology BRIN
		Yongchun Fan	Deputy General Manager of China Energy Engineering Group Guangdong Electric Power Design Institute Co., Ltd.
		Buntora Pasaribu	Doctor of the Department of Marine Science of Universitas Padjadjaran
		Jian Zhang	Executive Vice President of Qingdao Bright Moon Seaweed Group Co., Ltd.
		Zhongcheng Zeng	Chairman of Fuzhou Dahua Smart Technology Co., Ltd.
17:25 - 17:30	Closing Remark		
18:30 - 20:00	Dinner Banquet		

November 29, 2024 (Friday)			
09:00 - 13:30 (UTC+7)			
Session 1: Ocean and climate observation, forecasting, and services (08:30-10:30) (IPTEK Meeting Room, 3rd Floor)			
Part Four: Ocean Acidification and Ecology Convener: Dr. Intan Suci Nurhati			
08:30 - 08:45	A Three-Dimensional Structure of Salinity Anomalies Induced by Tropical Cyclones (Invitation Report)	Dongxiao Wang	School of Marine Sciences, Sun Yat-Sen University , China
08:45 - 09:00	Effects of El Niño–Southern Oscillation, Monsoons, and Indian Ocean Dipole on Spatial and Temporal Variations of Surface Chlorophyll-a in the Gulf of Thailand and Andaman Sea (Invitation Report)	Anukul Buranaprathepra	Department of Aquatic Science, Faculty of Science, Burapha University, Chonburi, Thailand
09:00 - 09:12	Understanding Marine Heatwaves in the Bay of Bengal: Progresses and Future Endeavors	Yun Qiu	Third Institute of Oceanography, Ministry of Natural Resources, China
09:12 - 09:24	Dynamics of the primary productivity in the Banda Sea: the role of the physical processes	Faisal Hamzah	Research Centre for Oceanography, National Research and Innovation Agency (BRIN), Indonesia
09:24 - 09:36	Biogeochemical responses to the dynamic processes associated with the Equatorial Undercurrent in the tropical Eastern Indian Ocean	Qinsheng Wei	First Institute of Oceanography (FIO), Ministry of Natural Resources, China
09:36 - 09:48	Effect of pH Changing on dissolved Inorganic Trace Metal Distribution at Tropical Coastal Water	Khairul Nizam Mohamed	Department of Environment, Faculty of Forestry and Environment, Universiti Putra Malaysia, Malaysia
09:48 - 10:00	Navigating the Future of Ocean Data in Indonesia: Bridging Gaps and Unlocking Access	Ghelby Muhammad Faid	Komitmen Research Group, Indonesia
Session 2: Marine ecosystem protection, biodiversity conservation, and biotechnology development (JIRAP Meeting Room, 3rd Floor)			

09:00 - 09:15	Bioprospecting nudibranch-symbiotic bacteria from the waters of Kapoposan, North Sulawesi, Indonesia, for bioactive compounds and bioproducts with therapeutic applications	Ira Handayani	National Research and Innovation Agency (BRIN), Indonesia
09:15 - 09:30	Diversity of associated microorganisms and exploration of polysaccharide degrading enzymes on surface of Macroalgae	Jiang Li	First Institute of Oceanography (FIO), Ministry of Natural Resources, China
09:30 - 09:45	Metabolomic analysis of <i>Galbibacter</i> sp. PAP.153 isolated from Indonesian marine sponge	Riyanti	Jenderal Soedirman University, Indonesia
09:45 - 10:00	Marine Biodiversity of Guangxi Zhuang Autonomous Region, China	Jinyu Xie	Guangxi Oceanic Administration, China
Session 3: Marine geosciences and disaster mitigation (INOVASI Meeting Room, 3rd Floor)			
09:00 - 09:15	Understanding the fluctuation of past upwelling from three sites in the Indonesian Seas (Invited Report)	Rina Zuraida	BRIN, Indonesia
09:15 - 09:30	Sources and processes affecting the seawater Nd isotope compositions in the Western Equatorial Pacific during 2017-2018	Wei Wang	Tongji University, China
09:30 - 09:45	Silicate weathering and CO ₂ consumption records in the southern South China Sea since the last deglaciation	Chao Li	Tongji University, China
09:45 - 10:00	Taiwan Strait: An ocean-current-dominated shallow-water setting with a river-fed detached muddy contourite deposit	Xin Shan	FIO, MNR, China
Session 4: Marine Policy and Management (RISET Meeting Room, 3rd Floor)			
09:00 - 09:12	Mutual recognition of marine standards and sharing of Ocean Best Practices	Lingling Yuan	National Center of Ocean Standards and Metrology, China

09:12 - 09:24	Assessing the Ocean Health Index Framework by Addressing Data Gaps for Effective Marine Protected Areas Management	Freshty Yulia Arthatiani	Ministry of Marine Affairs and Fisheries, Indonesia
09:24 - 09:36	The Role of International Cooperation in Marine Eco-Environmental Protection under the Vision of a Maritime Community of Shared Future: China's Policies, Practices and Prospects	Luo Gang	China Institute for Marine Affairs, Ministry of Natural Resources of P.R. China
09:36 - 09:48	Promoting Blue Economy through Research and Development on Small Islands: From Concept to Implementation	Zainal Arifin	Research Centre for Oceanography, BRIN, Indonesia
09:48 - 10:00	Carbon Footprint of Purse Seine Fishing Vessels at Cilacap Fishing Port	Syamdidi	Ministry of Marine Affairs and Fisheries, Indonesia
10:05 - 10:30	Coffee Break and Poster Display		
Plenary Session			
Moderator: Prof. Fangli Qiao, First Institute of Oceanography, MNR, China Prof. Maria Dyah Nur Meinita, Jenderal Soedirman University, Indonesia			
10:20 - 11:10	Session chairs report to the plenary (10 mins each)		
11:10 - 11:30	Discussion on how to strengthen cooperation under the Ocean Decade Framework & Closing Remarks		
11:30 - 12:30	Coffee Break & Poster Display		
11:30 - 12:30	Lunch (Auditorium, 3rd Floor)		

Annex II

Participants List

No.	Name	Affiliation	Nationality
1	Subrata Sarker	Shahjalal University of Science and Technology	Bangladesh
2	K M Azam Chowdhury	University of Dhaka	Bangladesh
3	Chheng Tharika	Ministry of Environment	Cambodia
4	Dara Sum	Ministry of Environment	Cambodia
5	Fajar Nugroho	Balai Pendidikan dan Pelatihan Aparatur Sukamandi	Indonesia
6	Iwan Pramesti Anwar	Bandung Institute of Technology	Indonesia
7	Mutiara Rachmat Putri	Bandung Institute of Technology	Indonesia
8	Kamaluddin Kasim	Bandung Institute of Technology	Indonesia
9	I Nengah Putra Winata	Bandung Institute of Technology	Indonesia
10	Azalea Ayuningtyas	Birufinery	Indonesia
11	Amadeus Pribowo	Birufinery	Indonesia
12	M. Agung Nugraha	Bogor Agricultural University	Indonesia
13	Luky Adrianto	Bogor Agricultural University	Indonesia
14	Anindya Wirasatriya	Diponegoro University	Indonesia
15	Nuning Vita Hidayati	Jenderal Soedirman University	Indonesia
16	Maria Meinita	Jenderal Soedirman University	Indonesia
17	Elly Tugiyanti	Jenderal Soedirman University	Indonesia
18	Riyanti	Jenderal Soedirman University	Indonesia
19	Mukti Trenggono	Jenderal Soedirman University	Indonesia
20	Rizqi Rizaldi Hidayat	Jenderal Soedirman University	Indonesia
21	Zulfa S Zakia	Jenderal Soedirman University	Indonesia

22	Ghelby Muhammad Faid	Komitmen Research Group	Indonesia
23	Suharyanto	Ministry of Marine Affairs and Fisheries	Indonesia
24	Tri Yuwono	Ministry of Marine Affairs and Fisheries	Indonesia
25	Freshty Yulia Arthatiani	Ministry of Marine Affairs and Fisheries	Indonesia
26	Syamdidi	Ministry of Marine Affairs and Fisheries	Indonesia
27	Salvienty Makarim	Ministry of Marine Affairs and Fisheries	Indonesia
28	Nyoman Radiarta	Ministry of Marine Affairs and Fisheries	Indonesia
29	Agus Setiawan	National Research and Innovation Agency	Indonesia
30	Albert Sulaiman	National Research and Innovation Agency	Indonesia
31	Subekti Mujiasih	National Research and Innovation Agency	Indonesia
32	Dwiyoga Nugroho	National Research and Innovation Agency	Indonesia
33	Faisal Hamzah	National Research and Innovation Agency	Indonesia
34	Iis Triyulianti	National Research and Innovation Agency	Indonesia
35	Camellia Tito	National Research and Innovation Agency	Indonesia
36	Dwiyitno	National Research and Innovation Agency	Indonesia
37	Deny Yogaswara	National Research and Innovation Agency	Indonesia
38	Ira Handayani	National Research and Innovation Agency	Indonesia
39	Pipit Pitriana	National Research and Innovation Agency	Indonesia
40	Idha Ikhsani	National Research and Innovation Agency	Indonesia
41	Rina Zuraida	National Research and Innovation Agency	Indonesia
42	Taufan Wiguna	National Research and Innovation Agency	Indonesia
43	Abdul Basit	National Research and Innovation Agency	Indonesia
44	Achmad Sahri	National Research and Innovation Agency	Indonesia

45	Johan Risandi	National Research and Innovation Agency	Indonesia
46	Khusnul Setia Wardani	National Research and Innovation Agency	Indonesia
47	Mego Pinandito	National Research and Innovation Agency	Indonesia
48	Augy Syahailatua	National Research and Innovation Agency	Indonesia
49	Dinar Istiyanto	National Research and Innovation Agency	Indonesia
50	Noor Cahyo Aryanto	National Research and Innovation Agency	Indonesia
51	Erwandi Erwandi	National Research and Innovation Agency	Indonesia
52	Zainal Arifin	National Research and Innovation Agency	Indonesia
53	A'an Johan Wahyudi	National Research and Innovation Agency	Indonesia
54	Wahyu Widodo PANDOE	National Research and Innovation Agency	Indonesia
55	Ari Kuncoro	National Research and Innovation Agency	Indonesia
56	Laksana Tri Handoko	National Research and Innovation Agency	Indonesia
57	Maftuha Rifka Auliya	National Research and Innovation Agency	Indonesia
58	Suci Intan Nuthati	National Research and Innovation Agency	Indonesia
59	Udhi Eko Hernawan	National Research and Innovation Agency	Indonesia
60	Julio Dewo Wicaksono	PT Matsya Kualitas	Indonesia
61	Agus Sastra Wiguna	PT Sea Six Energy	Indonesia
62	Nelson Vadassery	PT Sea Six Energy	Indonesia
63	Esha E. Saratoga	PT. Sonar Nusantara Utama	Indonesia
64	Yazidio Sesar Razadi	PT. Sonar Nusantara Utama	Indonesia
65	Ricky Valentino	Timur Bahari Timur Samudra Sejahtera	Indonesia
66	Rachmat Wahyudi	Timur Bahari Timur Samudra Sejahtera	Indonesia
67	Adi Prabowo	Timur Bahari Timur Samudra Sejahtera	Indonesia

68	Buntora Pasaribu	Universitas Padjadjaran	Indonesia
69	Widiastuti	Universitas Udayana	Indonesia
70	Noor Hasmayana Yahaya	Department of Fisheries	Malaysia
71	Che Abd Rahim Mohamed	Universiti Kebangsaan Malaysia	Malaysia
72	Abdul Hafidz Yusoff	Universiti Malaysia Kelantan	Malaysia
73	Mohd Fadzil Mohd Akhir	Universiti Malaysia Terengganu	Malaysia
74	Nor Aieni Haji Mokhtar	Universiti Malaysia Terengganu	Malaysia
75	Khairul Nizam Mohamed	Universiti Putra Malaysia	Malaysia
76	Wee Cheah	University of Malaya	Malaysia
77	Po Teen Lim	University of Malaya	Malaysia
78	Sazlina Salleh	University Sains Malaysia	Malaysia
79	Nang Mya Han	Myeik University	Myanmar
80	Anabelle Cayabyab	Environment and Natural Resources Office	Philippines
81	Anukul Buranaprathepra	Burapha University	Thailand
82	Niran Chaimanee	Department of Marine and Coastal Resources, Ministry of Natural Resources and Environment	Thailand
83	Chalermrat Sangmanee	Department of Marine and Coastal Resources, Ministry of Natural Resources and Environment	Thailand
84	Watchara Sakornwimon	Marine and Coastal Research and Development Institute	Thailand
85	Sumana Kajonwattanakul	Marine and Coastal Resources Research and Development Institute	Thailand
86	Tipamat Upanoi	Ministry of Natural Resources and Environment	Thailand
87	Sakanan Plathong	Prince of Songkla University	Thailand
88	Oanh Thi Ngoc Bui	Vietnam National University	Vietnam
89	Yongchun Fan	China Energy Engineering Group Guangdong Electric Power Design Institute Company	China

90	Chuangang Guo	China Energy Engineering Group Guangdong Electric Power Design Institute Company	China
91	Guokai Yuan	China Energy Engineering Group Guangdong Electric Power Design Institute Company	China
92	Luo Gang	China Institute for Marine Affairs	China
93	Yali Zhao	China National Committee for Pacific Economic Cooperation	China
94	Zhenyu Wang	China National Committee for Pacific Economic Cooperation	China
95	Xiaodong Mei	Department of Natural Resources of Shandong Province	China
96	Dongliang Yuan	First Institute of Oceanography, Ministry of Natural Resources	China
97	Shujiang Li	First Institute of Oceanography, Ministry of Natural Resources	China
98	Changshui Xia	First Institute of Oceanography, Ministry of Natural Resources	China
99	Qinsheng Wei	First Institute of Oceanography, Ministry of Natural Resources	China
100	Shenghao Liu	First Institute of Oceanography, Ministry of Natural Resources	China
101	Xuele Zhang	First Institute of Oceanography, Ministry of Natural Resources	China
102	Jiang Li	First Institute of Oceanography, Ministry of Natural Resources	China
103	Tao Xia	First Institute of Oceanography, Ministry of Natural Resources	China
104	Chunlei Gao	First Institute of Oceanography, Ministry of Natural Resources	China
105	Shuqing Qiao	First Institute of Oceanography, Ministry of Natural Resources	China
106	Xuefa Shi	First Institute of Oceanography, Ministry of Natural Resources	China
107	Jianjun Zou	First Institute of Oceanography, Ministry of Natural Resources	China
108	Xin Shan	First Institute of Oceanography, Ministry of Natural Resources	China
109	Chen Ma	First Institute of Oceanography, Ministry of Natural Resources	China
110	Fangli Qiao	First Institute of Oceanography, Ministry of Natural Resources	China

111	Song Guan	First Institute of Oceanography, Ministry of Natural Resources	China
112	Li Li	First Institute of Oceanography, Ministry of Natural Resources	China
113	Lin Zhou	First Institute of Oceanography, Ministry of Natural Resources	China
114	Zhiwei Zhang	First Institute of Oceanography, Ministry of Natural Resources	China
115	Chang Zhao	First Institute of Oceanography, Ministry of Natural Resources	China
116	Tiegang Li	First Institute of Oceanography, Ministry of Natural Resources	China
117	Yiyun Peng	First Institute of Oceanography, Ministry of Natural Resources	China
118	Xingyong Xu	Fourth Institute of Oceanography, Ministry of Natural Resources	China
119	Wendan Mu	Fourth Institute of Oceanography, Ministry of Natural Resources	China
120	Quandi Zhang	Fujian Ocean-Sky Silkroad Satellite Technology Company	China
121	Zhongcheng Zeng	Fuzhou Dahua Smart Technology Company	China
122	Jun Huang	Guangdong Huazhihang Technology Company	China
123	Zhichao Jia	Guangdong Huazhihang Technology Company	China
124	Minling Mo	Guangdong Lankun Marine Technology Company	China
125	Sheng Jiang	Guangdong Lankun Marine Technology Company	China
126	Zhu Chen	Guangdong Ocean Association	China
127	Lingling Xie	Guangdong Ocean University	China
128	Chuang Li	Guangdong Ocean University	China
129	Zhisheng Zhang	Guangdong Ocean University	China
130	Chenyu Zheng	Guangdong Ocean University	China
131	Jiming You	Guangdong Ocean University	China
132	Lei Wang	Guangdong Urban-Rural Planning and Design Research Institute Technology Group Company	China

133	Yifan Zhang	Guangdong Urban-Rural Planning and Design Research Institute Technology Group Company	China
134	Weihong He	Guangdong Urban-Rural Planning and Design Research Institute Technology Group Company	China
135	Liling Liu	Guangdong Urban-Rural Planning and Design Research Institute Technology Group Company	China
136	Jinyu Xie	Guangxi Oceanic Administration	China
137	Zhihao Li	Guangzhou Hestoon Electronic Technology Company	China
138	Peng Liu	Hope Great (Shenzhen) Tech Company	China
139	Lingling Zhao	Hope Great (Shenzhen) Tech Company	China
140	Jie Yu	Institute of Natural Carbon Sink	China
141	Shaofeng Zhang	Institute of Natural Carbon Sink	China
142	Haixia Xie	Ministry of Foreign Affairs	China
143	Peng Chen	Ministry of Foreign Affairs	China
144	Shuxian Sun	Ministry of Natural Resources	China
145	Danhong Chen	Ministry of Natural Resources	China
146	Xinwei Yu	Ministry of Natural Resources	China
147	Lingling Yuan	National Center of Ocean Standards and Metrology	China
148	Weiling Song	National Marine Data and Information Service	China
149	Zhang Zhihua	National Marine Environmental Forecasting Center	China
150	Wei Peng	National Ocean Technology Center	China
151	Bin Zou	National Satellite Ocean Application Service	China
152	Wei Zheng	Ocean Decade International Cooperation Center	China
153	Limin Hu	Ocean University of China	China
154	Dong Yan	Oceanic Administration of Shandong Province	China
155	Guangkai Xu	Oceanic Administration of Shandong Province	China

156	Xinjing Du	Oceanic Administration of Shandong Province, China	China
157	Yuqun Song	Peneson Geological Technology Company, China	China
158	Jian Zhang	Qingdao Bright Moon Seaweed Group Company	China
159	Shipeng Wu	Qingdao Gather Great Ocean Algae Industry Group Company	China
160	Jifa Wu	Qingdao Gather Great Ocean Algae Industry Group Company	China
161	Yang Wu	Qingdao Gather Great Ocean Algae Industry Group Company	China
162	Runze Liu	Qingdao Luhai Feng Food Group Company	China
163	Ping Zhang	Qingdao West Coast New Area Marine Development Bureau	China
164	Lei Liu	Qingdao West Coast New Area Marine Development Bureau	China
165	Chonghao Xu	Qingdao West Coast New Area Marine Development Bureau	China
166	Haoyu Zang	People's Government of Qingdao West Coast New Area	China
167	Feng Zhou	Second Institute of Oceanography, Ministry of Natural Resources	China
168	Jing Wang	SEE Foundation	China
169	Zhang Jing,	SEE Foundation	China
170	Chunmei Liu	Shandong Healcell Biomaterials Technology Company	China
171	Yongyun Zheng	Shandong Ocean Development Research Society	China
172	Hongjun Liu	Shandong Ocean Development Research Society	China
173	Bo Lei	South China Sea Bureau	China
174	Feiyang Ge	South China Sea Ecological Center	China
175	Shaobo Ma	South China Sea Ecological Center	China
176	Dongxiao Wang	Sun Yat-Sen University	China
177	Mingting Li	Sun Yat-Sen University	China

178	Weidong Yu	Sun Yat-Sen University	China
179	Weibo Wang	Third Institute of Oceanography, Ministry of Natural Resources	China
180	Yun Qiu	Third Institute of Oceanography, Ministry of Natural Resources	China
181	Xijie Zhou	Third Institute of Oceanography, Ministry of Natural Resources	China
182	Haifeng Gu	Third Institute of Oceanography, Ministry of Natural Resources	China
183	Guangcheng Chen	Third Institute of Oceanography, Ministry of Natural Resources	China
184	Shunyang Chen	Third Institute of Oceanography, Ministry of Natural Resources	China
185	Jian Chen	Third Institute of Oceanography, Ministry of Natural Resources	China
186	Aijun Wang	Third Institute of Oceanography, Ministry of Natural Resources	China
187	Fenggui Chen	Third Institute of Oceanography, Ministry of Natural Resources	China
188	Yang Wei	Third Institute of Oceanography, Ministry of Natural Resources	China
189	Xiaomin Xi	Third Institute of Oceanography, Ministry of Natural Resources	China
190	Nicholas Chia Wei Ng	Tongji University	China
191	Wei Wang	Tongji University	China
192	Chao Li	Tongji University	China