

Third China-Southeast Asian Countries Marine Cooperation Forum



December 28-29, 2015

Lan Hai Hotel, Qingdao, China

Host: State Oceanic Administration, P.R. China

Local Organizer: First Institute of Oceanography, SOA

Sponsors: IOC Sub-Commission for the Western Pacific

Minutes of Third China-Southeast Asian Countries Marine Cooperation Forum

The Third China-Southeast Asian Countries Marine Cooperation Forum was successfully convened in Qingdao, China during December 28-29, 2015. The Forum was sponsored by the State Oceanic Administration of China (SOA) and the IOC Sub-Commission for the Western Pacific (WESTPAC), and was organized by the First Institute of Oceanography (FIO) of SOA. The goal of this Forum is to strengthen the scientific communication amongst the Southeast Asian countries and China, and to strengthen the existing platforms for future cooperation. 74 scientists and government officials from Cambodia, Indonesia, Laos, Malaysia, Myanmar, Thailand, as well as China attended the Forum.

Ms. CHEN Yue, Dr. Somkiat Khokiattiwong and Dr. QIAO Fangli, on behalf of the sponsors and local organizer, addressed the opening session of the Forum and expressed their strong support to the regional marine cooperation among the Southeast Asian countries and China.

39 presentations were given by experts under four themes of the Forum, namely: 1) Ocean and Climate Change, 2) ocean forecasting system and Observation, 3) Marine Environment and Biodiversity, and 4) Coastal Management and Development of Marine Technology. Dr. YU Weidong (China), Dr. Somkiat Khokiattiwong (Thailand), Dr. QIAO Fangli (China), Dr. Mohd Fadzil (Malaysia), Dr. ZHANG Xuelei (China), Dr. Kongkiat Kittiwatanawong (Thailand), Dr. CHEN Jian (China) and Dr. Thay Chantha (Cambodia) served as co-chairs of the thematic sessions.

Based on comprehensive discussion and communication, the participants agreed that it was important to develop marine cooperation initiatives in this region and strengthen the partnership mechanism among marine research institutes and universities of the Southeast Asian Countries and China. The priorities of future cooperation include:

1. Ocean and Climate Change
 - 1.1 Cooperative study and research of boundary current and upwelling in Indian Ocean area, especially the implementation of Eastern Indian Ocean Upwelling Research Initiative (EIOURI).
 - 1.2 Development monsoon monitoring and research on the monsoon's prediction, and its impacts on coastal marine ecosystem and society.
2. Ocean forecasting system
 - 2.1 Participating in the ongoing Ocean Forecasting System (OFS) project of IOC/WESTPAC and share data, technology and forecasting products.
 - 2.2 Development of sub-domain high-resolution ocean forecasting system for the interested ocean areas.
3. Marine Environment and Biodiversity
 - 3.1 Development of the regional collaborative study of marine ecosystem such as

algal and jellyfish blooms, environmental safety, blue carbon, and marine biodiversity in particular marine endangered species (MES).

- 3.2 Continued supporting and participating in the MES projects under the framework of China-ASEAN Maritime Cooperation Fund and IOC/WESTPAC.
4. Coastal Management and Development of Marine Technology
 - 4.1 Development of the coastal management and marine technology, such as coastal zone, mangrove ecosystem, marine functional zoning, and etc.
5. Strengthen capacity building including training and education
 - 5.1 Participating in the annual training course in the future, this will be organized by UNESCO/IOC Regional Training and Research Center on Ocean Dynamics and Climate (ODC center) and WESTPAC.
 - 5.2 Organizing training program such as project training, technology training in the area of surface wave-tide-circulation coupled model, marine environmental microbial monitoring, and etc.
 - 5.3 Diligently applying for education, including the Chinese Marine Scholarship Ph.D and Master Degree course.
 - 5.4 Cooperation on establishing and strengthening regional/national ocean observation system and implementing joint research cruises.
 - 5.5 Exchanging scientists, technologists and academics among Southeast Asian Countries and China.

The participants welcomed the continuation of the Forum among the Southeast Asian countries and China to promote marine scientific cooperation. The Agenda and participants lists are attached in Annex I and Annex II, respectively.

Annex I Agenda of the Third China - Southeast Asian Countries Marine Cooperation Forum

Annex II Participants List

Annex I Agenda of the Third China - Southeast Asian Countries Marine Cooperation Forum

Day1, December 28th, 2015, Monday

Time	Activities	
08:30 – 09:00	Registration	
	Opening Ceremony Chair: Mr. Wang Antao	
09:00 – 09:05	Remarks from State Oceanic Administration (Ms. Chen Yue, Deputy Director-General, Department of International Cooperation, SOA, China)	
09:05 – 09:10	Remarks from UNESCO/IOC/WESTPAC (Dr. Somkiat Khokiattiwong, Chair of IOC/WESTPAC and Vice Chair of IOC)	
09:10 – 09:15	Welcome remarks from First Institute of Oceanography (Dr. Qiao Fangli, Secretary General, FIO, SOA, China)	
09:15 – 09:30	Photo Group	
09:30– 09:50	Coffee Break	
09:50-12:30	Session 1: Ocean and Climate Change Co-chairs: Dr. Yu Weidong (China), Dr. Somkiat Khokiattiwong(Thailand)	
	MOMSEI Science and Collaboration Development	Dr. Yu Weidong FIO, China
	Ocean Acidification Monitoring Project Under the Frame Work of IOC/WESTPAC	Dr. Somkiat Khokiattiwong Thailand
	Effect of Climate change on the marine organisms in the coastal ecosystem of Yellow Sea	Dr. Shao Kuishuang NMEMC, China
	Coupling between SST and wind speed over mesoscale eddies in the south China sea	Dr. Sun Shuangwen FIO, China
	Long Term Trend of Winter Surface Wind over SCS	Dr. Liu Baochao FIO, China
	Emergency Response of Marine Disaster in Bohai and Huanghai Sea	Dr. Li Rui NCSFC, China
	Discussion	
12:30– 14:00	Lunch Break	
Time	Activities	
14:00 – 18:00	Session 2 : Ocean Forecasting System and Observation Co-chairs: Dr. Qiao Fangli (China), Dr. Mohd Fadzil (Malaysia)	
	The cooperation among China and southeast Asian countries	Dr. Qiao Fangli FIO, China
	Upwelling, thermal fronts and water intrusion features in southern South China Sea	Dr. Mohd Fadzil Malaysia

	The EAKF data assimilation of ocean and climate models	Dr. Yin Xunqiang FIO, China
	Variation Characteristics of Marine Ecosystem Environment in the East China Sea: A Numerical Modeling Study	Dr. Ji Xuanliang NMEFC, China
	The joint development of Ocean Forecasting System for Southeast Asia areas	Dr. Somkiat Khokiattiwong Thailand
	Coffee Break	
	An Overview on marine satellite application services in China	Dr. Zou Yarong NSOAS, China
	The development of the eddy-resolving FIO surface wave-tide-circulation coupled model	Dr. Shu Qi FIO, China
	Research Progress on Ocean Climate Prediction in NMEFC	Dr. Jiang Hua NMEFC, China
	Survey of Risk Sources and Sensitive resources of Ocean oil Spill	Dr. Shi Xiaoyong NMHMS, China
	Risk assessment of storm surge disaster for China coastal areas	Dr. Chen Xinping NMHMS, China
	Discussion	
18:00 – 21:00	Dinner	

Day 2, December 29th, 2015, Tuesday

Time	Activities	
8:30-12:30	Session 3: Marine Environment and Biodiversity Co-chairs: Dr. Kongkiat Kittiwatanawong (Thailand), Dr. Zhang Xuelei (China)	
	Human and veterinary pharmaceutical wastes and other emerging contaminants in the coastal marine environment of Malaysia: a threat to the aquatic organisms and ecosystems health	Dr. Mohamad Pauzi Zakaria Malaysia
	Distribution characteristics of antibiotic resistance bacteria and related resistance genes in mariculture area of Shandong	Dr. Qu Lingyun FIO, China
	Coastal eutrophication and harmful algal blooms: Emerging threats to seafood safety and sustainable mariculture	Dr. Po Teen LIM Malaysia
	Coral reefs monitoring by high resolution remote sensing	Dr. Ma Yi FIO, China
	Assessing mangrove rehabilitation in Thailand	Dr. Ajcharaporn Piumsomboon Thailand

	Preliminary study on the genetic diversity of venomous jellyfish and coral (<i>Porites lutea</i>) in Thai waters	Dr. Xiao Jie FIO, China
	Coffee Break	
	Integrated study of the marine endangered species	Dr. Zhang Xuelei FIO, China
	Status assessment and conservation of marine endangered species in Thailand with the emphasis on SEA collaboration	Dr. Kongkiat Kittiwattanawong Thailand
	Update Mekong dolphin conservation management	Dongdavanh Sibounthong Lao PDR
	Cetaceans in the Bay of Brunei, Malaysia: species composition, distribution, and group size	Dr. Saifullah A. Jaaman Malaysia
	Multidisciplinary strategies for the protection and conservation of the coastal and marine resources of the South China Sea	Dr. Mohammed Rizman bin Idid Malaysia
	Marine biodiversity protection of island and coastal zone	Dr. Liu Xu IRC, China
12:30 – 14:00	Lunch Break	
14:00 -17:00	Session4: Coastal Management and Development of Marine Technology Co-chairs: Dr. Thay Chantha (Cambodia), Dr. Chen Jian (China)	
	Introduction of Coastal use in China and initiative of building China-ASEAN coastal sustainable use network (CoSUN)	Dr. Chen Jian TIO, China
	Introduction of Department of Marine and Coastal Zone Conservation	Dr. Thay Chantha Cambodia
	One Belt, One Road: Challenges and Opportunities for Marine Research Collaboration	Dr. Chen Keliang TIO, China
	Community-based ecotourism management in the context of "Sustainable for Coastal Mangrove Ecosystem Management"	Dr. Meas Rithy Cambodia
	Research Progress of China Marine Functional Zoning	Dr. Teng Xin NOTC, China
	Coffee Break	
	Source to Sink process of the pyrogenic organic chemicals along the Asia continental margin: implications for anthropogenic impact and regional responses	Dr. Hu Limin FIO, China
	Satellite Remote Sensing of Ocean Dynamic Envi	Dr. Yang Jinsong

	Environment	SIO, China
	Tropical Mountainous River 'Source – to – Sink' Research	Dr. Wang Aijun TIO, China
	The Propose of Blue Economic Cooperation between China and Southeastern Countries	Dr. Yu Ting NOFC, China
	Marine Technology and ISO Focus	Dr. Ma Letian SIO, China
	Discussion	
17:00-18:00	Closing Ceremony	

Annex II Participants List

NO.	STATE/ ORGANIZATION	NAME	AFFILIATION
1.	UNESCO	Zhu Wenxi	UNESCO/IOC/WESTPAC
2.	Cambodia	Thay Chantha	Department of Marine and Coastal Zone Conservation, Ministry of Environment , Cambodia
3.	Cambodia	Meas Rithy	Department of Marine and Coastal Zone Conservation, Ministry of Environment , Cambodia
4.	Indonesia	Andhika Hermawanto	Indonesia Agency for Meteorology, Climatology and Geophysics (BMKG)
5.	Laos	Dongdavanh Sibounthon	Fisheries Resource Management Section, Livestock and Fisheries, MAF, Laos
6.	Malaysia	Saifullah Arifin Jaaman	Institute of Oceanography and Environment, Universiti Malaysia Terengganu, Malaysia
7.	Malaysia	Po Teen Lim	Institute of Ocean and Earth Sciences, University of Malaya, Malaysia
8.	Malaysia	Mohd/Fadzil Bin Mohd Akhir	Institute of Oceanography and Environment, Universiti Malaysia Terengganu, Malaysia
9.	Malaysia	Mohamad Pauzi Zakaria	Institute of Ocean and Earth Sciences, University of Malaya, Malaysia
10.	Malaysia	Mohammed Rizman bin Idid	Institute of Ocean and Earth Sciences, University of Malaya, Malaysia
11.	Myanmar	Myat Lwin	Myanmar Maritime University, Myanmar
12.	Thailand	Somkiat Khokiattiwong	Phuket Marine Biological Center, Thailand
13.	Thailand	Kongkiat Kittiwattanawong	Phuket Marine Biological Center, Thailand
14.	Thailand	Ajcharaporn Piemsomboon	Aquatic Resources Research Institute and Department of Marine Science Chulalongkorn University, Thailand
15.	Thailand	Porntep Punarak,	Aquatic Resources Research Institute and Department of Marine Science Chulalongkorn University, Thailand
16.	China	Chen Yue	Department of International Cooperation, State Oceanic Administration
17.	China	Wang Antao	Department of International

			Cooperation, State Oceanic Administration
18.	China	Liu Juanjuan	Department of International Cooperation, State Oceanic Administration
19.	China	Jiang Fan	National Center of Ocean Standards and Metrology
20.	China	Teng Xin	National Ocean Technology Center
21.	China	Zou Yarong	National Satellite Ocean Application Service
22.	China	Zhang Yanjie	National Satellite Ocean Application Service
23.	China	Shao Kuishuang	National Marine Environmental Monitoring Center
24.	China	Jiang Hua	National Marine Environmental Forecasting Center
25.	China	Zhang Lu	National Marine Environmental Forecasting Center
26.	China	Ji Xuanliang	National Marine Environmental Forecasting Center
27.	China	Yang Jinkun	National Marine Data and Information Service
28.	China	Yu Ting	National Marine Data and Information Service
29.	China	Shi Xiaoyong	National Marine Hazards Mitigation Service
30.	China	Chen Xinping	National Marine Hazards Mitigation Service
31.	China	Jiang Bingguo	National Marine Hazards Mitigation Service
32.	China	Yu Zijiang	North China Sea Branch of State Oceanic Administration
33.	China	Li Rui	North China Sea Forecasting Center, SOA
34.	China	Lan Liqian	North China Sea Marine Technical Support Center of SOA
35.	China	Yu Hao	North China Sea Marine Technical Support Center, SOA
36.	China	Du Banjun	East China Sea Forecasting Center, SOA
37.	China	Ma yi	South China Sea Planning and Environmental Research Institute
38.	China	Lin Jingrou	South China Sea Planning and Environmental Research Institute

39.	China	Liu Bin	South China Sea Planning and Environmental Research Institute
40.	China	Sun Qingyang	South China Sea Planning and Environmental Research Institute
41.	China	Han Liuyu	South China Sea Planning and Environmental Research Institute
42.	China	Xie Chungang	The Institute of Seawater Desalination and Multipurpose Utilization
43.	China	Yu Kaiben	National Deep Sea Center
44.	China	Li Zhengguang	National Deep Sea Center
45.	China	Liu Xu	Island Research Center
46.	China	QiaoFangli	First Institute of Oceanography, SOA
47.	China	Yang Yafeng	First Institute of Oceanography, SOA
48.	China	Tan Gongke	First Institute of Oceanography, SOA
49.	China	Shi Xuefa	First Institute of Oceanography, SOA
50.	China	Zhang Xuelei	First Institute of Oceanography, SOA
51.	China	Yu Weidong	First Institute of Oceanography, SOA
52.	China	Liu Lin	First Institute of Oceanography, SOA
53.	China	Yin Xunqiang	First Institute of Oceanography, SOA
54.	China	Shu Qi	First Institute of Oceanography, SOA
55.	China	Xiao Bin	First Institute of Oceanography, SOA
56.	China	Wang Guansuo	First Institute of Oceanography, SOA
57.	China	Xiao Jie	First Institute of Oceanography, SOA
58.	China	Qu Lingyun	First Institute of Oceanography, SOA
59.	China	Hu Limin	First Institute of Oceanography, SOA
60.	China	Sun Shuangwen	First Institute of Oceanography, SOA
61.	China	Liu Baochao	First Institute of Oceanography, SOA
62.	China	Feng Xuwen	Second Institute of Oceanography, SOA
63.	China	Yang Jinsong	Second Institute of Oceanography, SOA
64.	China	Ma Letian	Second Institute of Oceanography, SOA
65.	China	Chen Jian	Third Institute of Oceanography, SOA
66.	China	Chen Keliang	Third Institute of Oceanography, SOA
67.	China	Wang Aijun	Third Institute of Oceanography, SOA
68.	China	Xu Changan	Third Institute of Oceanography, SOA
69.	China	Gu Haifeng	Third Institute of Oceanography, SOA
70.	China	Li Qingsheng	Third Institute of Oceanography, SOA
71.	China	Wu Jianwei	Third Institute of Oceanography, SOA
72.	China	Zhou Zaiming	Third Institute of Oceanography, SOA
73.	China	Niu Fuqiang	Third Institute of Oceanography, SOA
74.	China	Zhou Qianqian	Third Institute of Oceanography, SOA

