

The First Training Workshop of ISA - China Joint Training and Research Center

Mineral resources, environmental management and data

24-26 May 2022

DAY 1	Tuesday, 24 May 2022: Opening Ceremony Chair: Mr. Wu Changbin, Director-General of China Deep	
	Ocean Affairs Administration Opening remarks	
6:30-6:35pm ¹	Ms. Gu Wu, Director of the JTRC	live
6:35-6:40pm	Mr. Pan Xinchun, Vice President and Secretary-General of China Oceanic Development Foundation	live
6:40-6:45pm	H.E. Mr. Michael Lodge, Secretary-General of the ISA	video
6:45-6:50pm	Mr. Wang Hong, Vice Minister of Ministry of Natural Resources, P.R.C, Administer of State Oceanic Administration	video
6:50-7:00pm	Break	
MODULE I	Survey and Assessment of Mineral Resources in the Area Chair: Mr. Liu Feng, Chair of the JTRC Steering Committee	
	Lecture 1: Overview, distribution characteristics and the	
Session 1	status quo of the exploration work of mineral resources in the Area	
7:00-7:25pm	Lecturer: Georgy Cherkashov (Member of LTC, ISA; Member of Steering Committee of JTRC)	live
	Group 1 (facilitator: Du Xinguang, China Ship Scientific	live
Group discussion	Research Center) Group 2 (facilitator: Shen Honglei, China University of Mining and Technology)	
7:25-7:50pm	Group 3 (facilitator: Filipa Marques, Chief Research Officer, International Sharing University)	
7:50-8:10pm	Break	

¹ Time zone: Beijing, China (GMT+8)

Session 2 8:10-8:35pm	Lecture 2: Assessment methodologies and investigation techniques of three types of mineral resources (PMN, PMS and CFC) in the Area Lecturer: Tao Chunhui (Professor of Second Institute of Oceanography, Ministry of Natural Resources of China)	lie ee
Group discussion 8:35-9:00pm	Group 1 (facilitator: Du Xinguang, China Ship Scientific Research Center) Group 2 (facilitator: Shen Honglei, China University of Mining and Technology) Group 3 (facilitator: Ren Xiangwen, First Institute of Oceanography, Ministry of Natural Resources of China)	live
9:00-9:20pm	Break	
Session 3	Lecture 3: Status quo and development of mining technology for mineral resources in the Area	
9:20-9:45pm	Lecturer: Li Xiangyang (Professor of China Ocean Mineral Resources R & D Association)	
Group discussion 9:45-10:10pm	Group 1 (facilitator: Du Xinguang, China Ship Scientific Research Center) Group 2 (facilitator: Shen Honglei, China University of Mining and Technology) Group 3 (facilitator: Ren Xiangwen, First Institute of Oceanography, Ministry of Natural Resources of China)	live
10:10-10:15pm	Module closing remarks: <i>Mr. Liu Feng, Chair of the JTRC Steering Committee</i>	live
	Wednesday, 25 May 2022	
DAY 2	Chair: Qian Peiyuan, Professor of Hong Kong University of Science and Technology	
MODULE II	Characteristics of Deep Sea Ecosystems and Environmental Management	
Session 1	Lecture 1: Scientific knowledge on deep sea ecosystems and habitats in the Area	
6:30-6:55pm	Lecturer: Malcolm Clark, Member of LTC, ISA	
Group discussion	Group 1 (facilitator: Sun Jin, Ocean University of China) Group 2 (facilitator: Lan Yi, Hong Kong University of Science and Technology) Group 3 (facilitator: Liu Qian, Second Institute of	live
6:55-7:20pm	Oceanography, Ministry of Natural Resources of China)	
7:20-7:40pm	Break	

Session 2 7:40-8:05pm Group discussion 8:05-8:30pm	Lecture 2: Protection of the marine environment in the Area through regional environmental management planning and impact assessments Lecturer: Malcolm Clark, Member of LTC, ISA Group 1 (facilitator: Sun Jin, Ocean University of China) Group 2 (facilitator: Lan Yi, Hong Kong University of Science and Technology) Group 3 (facilitator: Liu Qian, Second Institute of Oceanography, Ministry of Natural Resources of China)	live
8:30-8:50	Break	
Session 3 8:50-9:15pm	Lecture 3: Marine scientific research to enhance knowledge on deep-sea biodiversity Lecturer: Qian Peiyuan, Professor of Hong Kong University of Science and Technology	livo
Group discussion 9:15-9:40pm	Group 1 (facilitator: Sun Jin, Ocean University of China) Group 2 (facilitator: Lan Yi, Hong Kong University of Science and Technology) Group 3 (facilitator: Liu Qian, Second Institute of Oceanography, Ministry of Natural Resources of China)	live
9:40-9:45pm	Module closing remarks: Qian Peiyuan, Professor of Hong Kong University of Science and Technology	live
DAY 3	Thursday, 26 May 2022 Chair: Shi Xianpeng, National Deep Sea Center of China	
MODULE III	Global Repository of Data from Exploration Activities in the Area	
Session 1 6:30-6:55pm	Lecture 1: Structure and functionalities of DeepData Lecturer: Sheldon Carter, Database Manager, ISA	
Group discussion 6:55-7:20pm	Group 1 (facilitator: Liu Ying, China Ocean Mineral Resources R & D Association) Group 2 (facilitator: Zheng Hao, Changsha Research Institute of Mining and Metallurgy, China Minmetals Corporation) Group 3 (facilitator: Sun Miao, National Marine Data and Information Service of China)	live
7:20-7:40pm	Break	
Session 2 7:40-8:05pm	Lecture 2: Reporting templates and database management strategy of DeepData Lecturer: Ulrich Schwarz-Schampera, Programme Manager for Mining Geology, ISA and Sheldon Carter, Database	live

	Manager, ISA	
Group discussion 8:05-8:30pm	Group 1 (facilitator: Liu Ying, China Ocean Mineral Resources R & D Association) Group 2 (facilitator: Zheng Hao, Changsha Research Institute of Mining and Metallurgy, China Minmetals Corporation) Group 3 (facilitator: Sun Miao, National Marine Data and Information Service of China)	
8:30-8:50	Break	
Session 3 8:50-9:15pm	Lecture 3: Case study of data management of survey activities in the Area Lecturer: Han Chunhua, (National Marine Data and Information Service of China)	
Group discussion 9:15-9:40pm	Group 1 (facilitator: Liu Ying, China Ocean Mineral Resources R & D Association) Group 2 (facilitator: Zheng Hao, Changsha Research Institute of Mining and Metallurgy, China Minmetals Corporation) Group 3 (facilitator: Sun Miao, National Marine Data and Information Service of China)	live
9:40-9:45	Module closing remarks: Shi Xianpeng, National Deep Sea Center of China	live
9:45-9:50	Workshop closing remarks: <i>Dr. Marie Bourrel-McKinnon,</i> Senior Policy Officer & Special Assistant to the Secretary-General of the ISA	live