



XMAS

The Sixth Xiamen Symposium on Marine Environmental Sciences

January 9-12, 2023

Xiamen, China



近海海洋环境科学国家重点实验室 (厦门大学)
State Key Laboratory of Marine Environmental Science
(Xiamen University)



Department of Earth Sciences, National Natural Science
Foundation of China



Welcome

Message from the Chairs

On behalf of the Scientific Advisory and Local Organizing Committees, we welcome you to the 6th Xiamen Symposium on Marine Environmental Sciences (XMAS-VI). Under the theme ‘Multidisciplinary and Solution Sciences for a Sustainable and Healthy Ocean,’ this year’s XMAS brings together ocean scientists to share their findings, communicate ideas, establish connections, and explore solutions for the environmental as well as social challenges the ocean is facing today. The Symposium features keynote speeches, scientific sessions, workshops, tutorials and other events on interdisciplinary, innovative and cutting-edge ocean science topics.

XMAS has been successfully held five times with many fruitful results since its launch in 2014. Though XMAS-VI remains a hybrid symposium, we are excited that pandemic restrictions are lifting and at least some of the participants will be able to gather together in Xiamen. And more than anything, we hope that after the most challenging last few years, this year’s XMAS will provide new initiatives to revive international exchanges, and promote collaborative research within and beyond our communities.

XMAS would not happen without your continued support. So last but not least, we thank you for your participation, and we sincerely hope that this will be an exciting and productive event for everyone.

Chair: Minhan Dai
Scientific Advisory Committee

Co-Chairs: Zhimian Cao & Feili Li
Local Organizing Committee



CONTENTS

Let's Go Green to Get Our Globe Clean	1
Introduction	2
Logistics	3
Venue	3
Floor Plan	4
Registration	5
Organized Events	6
COVID-19 Protocols	7
Contacts for Logistics	7
Dining	8
Program	9
Presentation Guidelines	9
Program Layout	11
Program	15
Poster List	40
Notes	58
Exhibitors	62

Let's Go Green to Get Our Globe Clean

Waste Reduction Suggestions

In order to reduce our impact on the environment:

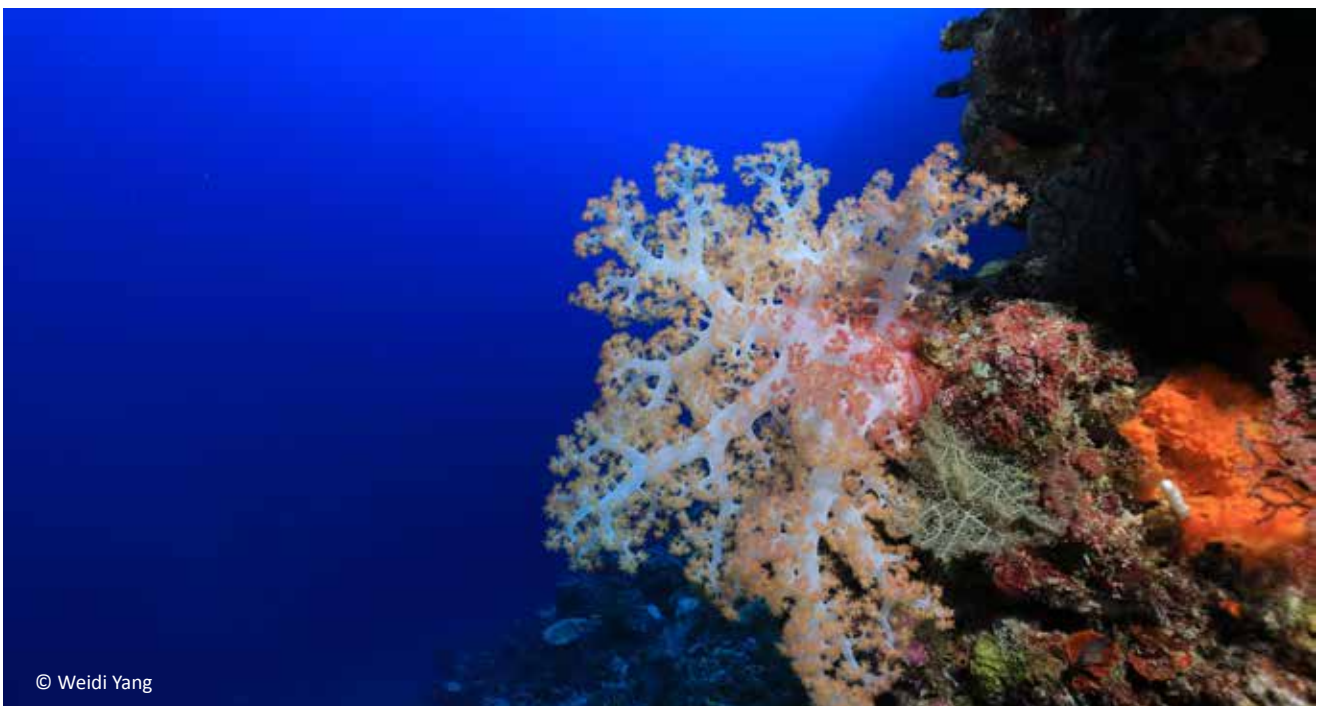
1. We ask all participants to please bring a reusable water bottle with them as refill stations will be set up throughout the conference.
2. Digital copies of the program are available through the XMAS-VI website.
3. Please take note of the waste disposal classification when you are throwing away your trash. Xiamen has established a waste classification scheme that allows the municipal government to better dispose of our trash. We therefore ask you LOOK before you TOSS to make sure your trash goes into the correct receptacle.
4. While recycling is good, REDUCING and REUSING are even better. Therefore at coffee breaks, please reuse your

paper coffee/tea cups should you decide you want a second cup rather than getting a new one. Same goes for paper plates and utensils.

5. Bike-sharing systems are provided around the city to reduce carbon emissions.

XMAS-VI aims towards a net-zero symposium, by minimizing our carbon footprint and purchasing carbon offsets through the Fujian Forest Certificated Emission Reduction (FFCER).

If you have suggestions or recommendations on how we can further reduce the environmental footprint of this symposium, please let us know! Every little bit helps and together we CAN make a difference.



Introduction

To foster knowledge and ideas exchange within the marine environmental science community and in particular, to promote interdisciplinary studies, the State Key Laboratory of Marine Environmental Science (MEL, <http://mel.xmu.edu.cn/en>) of Xiamen University initiated the Xiamen Symposium on Marine Environmental Sciences (XMAS). The first five symposia were held in 2014, 2015, 2017, 2019 and 2021, and attracted over 3130 participants from more than 190 institutions across 54 countries and regions.

XMAS-VI will be held in Xiamen from January 9th to 12th, 2023 focusing on "Multidisciplinary and Solution Sciences for a Sustainable and Healthy Ocean." The symposium will consist of various interconnected sessions covering physical oceanography, marine biogeochemistry, biological oceanography, geological oceanography, and marine ecotoxicology along with workshops and other events for emerging topics in marine environmental sciences such as ocean-based carbon removal and ocean sustainability.

MEL was established in 2005 under sponsorship from the Ministry of Science and Technology of China (MOST). It has been awarded consecutive Excellent State Key Laboratory in two recent official reviews by MOST. MEL is dedicated to interdisciplinary cutting-edge research in marine environmental sciences, with particular strengths in marine biogeochemistry and ecosystem studies.

Organizers and Sponsors

State Key Laboratory of Marine Environmental Science, Xiamen University

Department of Earth Sciences, National Natural Science Foundation of China

Co-sponsors

- Atmosphere and Ocean Research Institute, The University of Tokyo
- Basic Science Center for Marine Carbon Pumps and Biogeochemical Processes
- China SCOR
- China-ASEAN College of Marine Sciences, Xiamen University Malaysia
- Chinese Society of Oceanography
- College of Earth, Ocean, and Environment, University of Delaware
- College of Ocean and Earth Sciences, Xiamen University
- College of the Environment and Ecology, Xiamen University
- GEOMAR Helmholtz Centre for Ocean Research Kiel
- Global Ocean Oxygen Decade
- Hong Kong University of Science and Technology
- Institute of Ocean and Earth Sciences, University of Malaya
- IOC Sub-Commission for the Western Pacific
- Ocean Negative Carbon Emissions (ONCE) Program
- Ocean Science and Engineering, Georgia Institute of Technology
- School of Marine Sciences, Sun Yat-Sen University
- State Key Laboratory of Marine Pollution, City University of Hong Kong
- State Key Laboratory of Satellite Ocean Environment Dynamics
- Surface Ocean - Lower Atmosphere Study
- Swire Institute of Marine Science, The University of Hong Kong
- Taiwan Ocean University

Scientific Advisory Committee

Chair: Minhan Dai

Member: Eric Achterberg, Chris Bowler, Annalisa Bracco, Fei Chai, Tai-Wen Hsu, Zhengtang Guo, Nianzhi Jiao, Kenneth Mei Yee Leung, Kitack Lee, Paul Liu, Christelle Not, Lim Phaik Eem, Francois Primeau, Hiroaki Saito, Dalin Shi, Fabrice Veron, Wenxi Zhu

Local Organizing Committee

Chair: Zhimian Cao & Feili Li

Member: Xing Jian, Xin Lin, Xin Liu, Jian Ma, Yuan Shen, Weilei Wang, Weiwei You, Yue Zheng, Xudong Zhu, Jiayu Guo (Student Delegate)

Logistics

Venue

City Hotel Xiamen (厦门宾馆), Xiamen, China
 Address: No. 16 Huyuan Road, Xiamen, Fujian, China 361003
 Tel: 13696931119

Venue layout

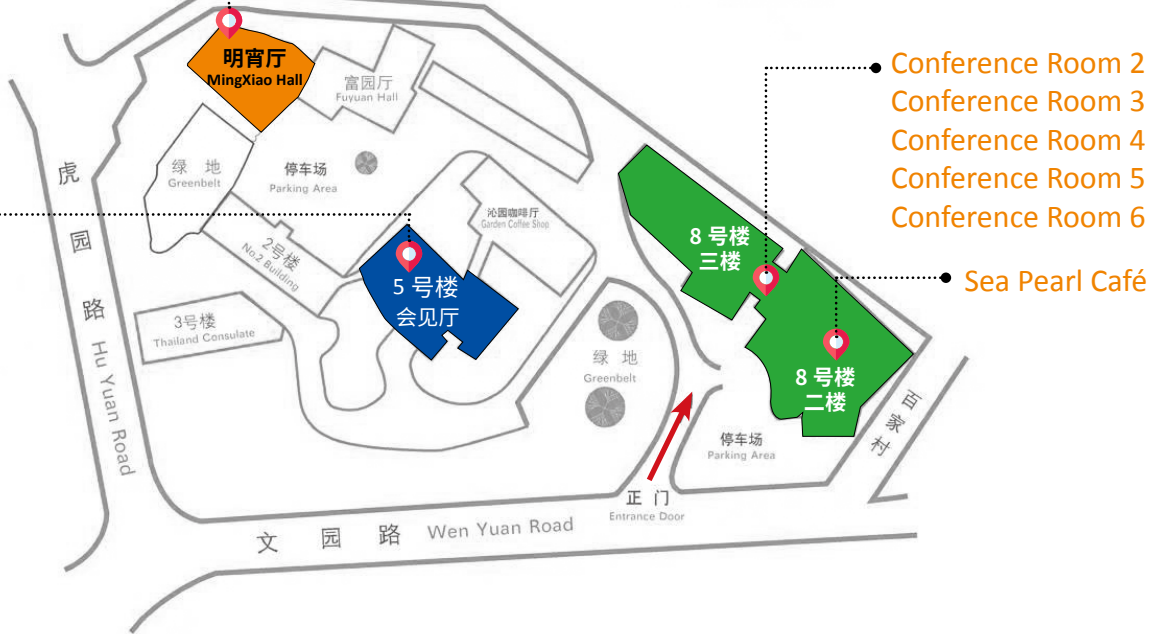
Room ID	Location	Building
Conference Room 1	MingXiao Hall 明宵厅	MingXiao Hall
Conference Room 2	LiQuan Multi-Function Hall 1 礼泉厅 (1)	3 rd floor, Building No. 8 8 号楼三楼
Conference Room 3	GuangYi Meeting Room 广益厅	
Conference Room 4	LiQuan Multi-Function Hall 2 礼泉厅 (2)	
Conference Room 5	YinHe Meeting Room 饮和厅	
Conference Room 6	QiongLin Meeting Room 琼林厅	
Conference Room 7	Interview Room 会见厅	1 st floor, Building No. 5 5 号楼一楼
	Sea Pearl Café 海上明珠咖啡厅	2 nd Floor, Building No. 8 8 号楼二楼

Floor plan

Conference Room 1

Conference Room 7

厦门宾馆平面示意图
Plane of City Hotel



Floor Plan of 3rd Floor, Building No. 8



Online

For online participants, the symposium will be virtually organized via Zoom and webcast. Only registered participants will receive Zoom information through the XMAS-VI account. Zoom IDs and passwords should not be shared. Please enter Zoom meeting rooms with your registered name.

Webcast is available for unregistered attendees: <https://v.ttv.cn/watch/xmas6>.

On-site

Registration

Jan. 8: 1400-2000

Location: Building No. 8

Jan. 9-11: 0730-1700

Location: MingXiao Hall



Organized Events

1. Student Activities

Online Student Poster Presentations

All student posters will be presented virtually at the scheduled time following live discussions. Students are expected to discuss their posters during online poster sessions.

Time: 1650-1750 Jan. 9 and 1610-1730 Jan. 10

Student Award

Best student posters will be selected by the review committee. Winners will receive a 2,000 RMB prize.

2. Women in Science Salon

While the ratio of female to male researchers in ocean and environmental sciences fields have steadily increased over the years, the number of female scientists within the higher tiers of science remains disappointingly low. Join several leading women scientists in the field in an open discussion about the opportunities and challenges for women in science.

Time: 1610-1730 Jan. 10

Location: Conference Room 2/LiQuan Multi-Function Hall 1 (Building No. 8)

3. Town Hall

SOLAS in the new era: harnessing partnership and transforming science into solutions

The Surface Ocean - Lower Atmosphere Study (SOLAS) is an international initiative to achieve quantitative understanding of the key biogeochemical-physical interactions and feedbacks between the ocean and the atmosphere, and how this coupled system affects and is affected by climate and environmental change. This town hall will allow XMAS-VI attendees to provide direct input and contribute new ideas to SOLAS in planning future activities, notably on how SOLAS can most usefully facilitate scientific research in understudied regions, identify the research priorities of underrepresented communities, and discuss how SOLAS science can be transformed to societal solutions. Ideas for new partnership models are also welcome.

Time: 1330-1730 Jan. 11

Location: Conference Room 5/YinHe Meeting Room (Building No. 8)

4. Meet the Editor

Dr. Xuhua Jiang, senior editor from *Nature Geoscience* will provide insights for early career scientists on how to better publish their work.

Time: 1610-1710 Jan. 11

Location: Conference Room 3/GuangYi Meeting Room (Building No. 8)

COVID-19 Protocols

We will do the utmost to prevent the spread of COVID-19 at the symposium. In addition to working with the venue to ensure thorough disinfection and ventilation, we ask for the cooperation of all participants at the venue as follows.

- We require all participants to wear a mask and keep a safe social distance.
- If you feel sick or are experiencing COVID-like symptoms prior to traveling to or while onsite in Xiamen, we ask that you do not participate in person.
- Alert our staff if you feel unwell, start experiencing symptoms, or test positive for COVID-19.

Contacts for Logistics

<i>Logistics</i>	<i>Secretary</i>	<i>Email</i>	<i>Cell phone +86-</i>
Coordinator	Ying Huang	xmas@xmu.edu.cn	18650137781
Facilities & Website	Zhaoying Li	lizhaoying@xmu.edu.cn	13860473552
Meals	Xinya Xu	xuxinya@xmu.edu.cn	18005960255
Visas	Guanfei Wang	gfwang@xmu.edu.cn	13385926818
Registration	Vera Shi	vera_shiwei@xmu.edu.cn	13950003935
Housing	Xinya Xu	xuxinya@xmu.edu.cn	18005960255
Exhibition & Posters	Jun Zhang	junzhang@xmu.edu.cn	13860426122
Transportation	Lili Zhang Guanfei Wang	lilizhang@xmu.edu.cn gfwang@xmu.edu.cn	13015767756 13385926818
COVID-19 Protocols	Junzi Chen	junzichen@xmu.edu.cn	19802116707
Volunteers	Tinglin Yang	tinglin@xmu.edu.cn	13515964262
Media	Shaomin Gan	gsmin@xmu.edu.cn	15259266360

Dining

<i>Date</i>	<i>Event</i>	<i>Time</i>	<i>Location</i>
Jan. 9	Dinner (Buffet)	1800-2100	Sea Pearl Café (2 nd Floor, Building No. 8)
Jan. 9-11	Lunch (Buffet)	1150-1330	Sea Pearl Café (2 nd Floor, Building No. 8)
Jan. 12	Lunch (Buffet)	1150-1410	Sea Pearl Café (2 nd Floor, Building No. 8)

All Coffee Break Locations: Mingxiao Hall and Building No. 8

For those with specific dietary needs (i.e. allergies, vegetarian, vegan) please inquire at the reception for other options or recommendations on how to order.



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Program



Oral Presentation Guidelines

- ★ Keynote speeches are 40 minutes each, including 5 minutes for Q&A and 5 minutes for an introductory video.
- ★ All other talks are 20 minutes each*, including at least 5 minutes for discussion. The time limit will be strictly enforced to facilitate flow between sessions.

In-Person Speakers

- ★ Please upload your presentations to the XMAS computers prior to your session. Only PowerPoint, KEYNOTE, and PDF files will be accepted. All files will be erased after the symposium.
 - For those attendees arriving on Jan 8, you may upload them directly to our computer at the registration area.
 - For all others, you must upload your presentations at least one hour before your session, directly onto the computers in your session's conference room. Volunteers will be on hand to assist should you run into difficulties.
- ★ To ensure the fluidity of the symposium, speakers are not allowed to use their own computers.
- ★ Arrive at the session room 10 minutes before the start of your session and introduce yourself to the session chair(s).
- ★ No audio or video recording is allowed in any session room during the symposium.

Online Speakers

- ★ Use a PC or laptop instead of a mobile phone if possible; an Ethernet connection instead of WI-FI is recommended to guarantee the security and stability of the network.
- ★ Turn off your camera if the network connection is poor.

Please be sure to check your presentations for viruses before uploading and presenting at the meeting.

* Tutorials will be 1 hour and 40 minutes, Workshop-02 and Workshop-03 will be 2 hours and 20 minutes.

Poster Presentation Guidelines

- ★ Posters (PDF, size<5MB) should be uploaded under your XMAS registration account before Jan 7, 2023 (UTC+8).
- ★ All posters will be posted on the XMAS-VI website from Jan 9-12, 2023 (UTC+8).
- ★ IDs that begin with “S” are posters presented by graduate students.

Poster Online Lightning Talks (POLIT)

Online lightning talks are held in the conference rooms from 1650-1750 on Jan. 9 and 1610-1730 on Jan. 10 (UTC+8).

- ★ Posters will be sorted according to the program.
- ★ The lightning talk slide should be uploaded under your XMAS registration account before Jan 7, 2023 (UTC+8). Use ONE slide to summarize the main results. You can record the presentations (2 minutes max) on the slide.
- ★ The presentations will be lined up ahead of time on a single computer and will be played non-stop.
- ★ Live discussions will be held immediately thereafter.

Onsite Poster Session

- ★ Jan. 11 ONLY. Location: FuYuan Hall. Time: 1410-1750
- ★ Those who want to display their posters on-site should check “In person” in the field of “Attend XMAS-VI” under their XMAS-VI accounts.
- ★ Each onsite poster will be assigned an ID corresponding to its location on the display board.
- ★ Poster dimensions should not exceed 110 cm (height) and 90 cm (width) and should be in portrait orientation.
- ★ The text should be readable from five feet away. Use a minimum font size of 20 points.
- ★ We recommend that in-person poster presenters hang their posters before the afternoon sessions on Jan. 11 (UTC+8). They must be removed at the end of the session (1750).
- ★ The in-person poster presenters should be available for the onsite poster session on Jan. 11 (1610-1750)

Best Student Poster Award

- ★ All student posters will be presented virtually at the scheduled time following live discussion. Students are expected to discuss their posters during online poster sessions.
- ★ Best student posters will be selected by the review committee. Winners will receive a 2,000 RMB prize from XMAS.

Language

English is the official language of the symposium. PowerPoint slides and posters should be in English. Oral talks should also be presented in English.

Presentation Tips

- ★ Oral presenters may visit the conference room to familiarize themselves with the equipment or ask technical questions.
- ★ Prepare your presentation in advance so that your ideas are logically organized, and your points are clear.
- ★ Rehearse your presentation to ensure your presentation runs no longer than the allotted time. We will be strict on time.
- ★ Use 1 or 2 slides to introduce the background of the study. Speak slowly and clearly. Word choice should be as simple as possible. Use active words and short sentences.
- ★ Use the microphone and speak to the audience.

Program Layout

Location Time (UTC+8)	Room 1 MingXiao Hall	Room 2 LiQuan Hall 1 (Bldg. 8)	Room 3 GuangYi Room (Bldg. 8)	Room 4 LiQuan Hall 2 (Bldg. 8)	Room 5 YinHe Room (Bldg. 8)	Room 6 QiongLin Room (Bldg. 8)	Room 7 Interview Room (Bldg. 5)	
Jan. 9	0800-0830	Opening (MingXiao Hall)						
	0830-0910	Keynote: Buesseler, Ken (MingXiao Hall)						
	0910-0930	Coffee Break (MingXiao Hall and Building No. 8)						
		INT-01	BGC-03	PHY-01	BGC-07	BIO-03	GEO-04	
	0930-0950	Hu, Min (Invited)	Wagner, Sasha (Invited)	Moore, Kent (Invited)	Chen, Chen-Tung Arthur (Invited)	Xu, Zhimeng	Yu, Jimin (Invited)	
	0950-1010	Huang, Rujin (Invited)	Yang, Ziming (Invited)	Hu, Xiaoming (Invited)	Gouretski, Viktor	Lee, Li Keat	Zhang, Yancheng	
	1010-1030	Zhou, Lei	Zhao, Zhao	Zhang, Murong	Zhang, Wenxia (Invited)	Sun, Ying	Liu, Xiting	
	1030-1050	Huang, Shan	Li, Yuqing	Huang, Jie	Meng, Qicheng	Xu, Mengyang	Su, Xiang	
	1050-1110	Hu, Wei	Xin, Yu	Li, Shutong	Gong, Hongjing	Zhuang, Yunyun	Hu, Rong	
	1110-1130	Jiang, Keyue	Cai, Zongwei	Wang, Yuanqi	Li, Penghui		Du, Jinlong	
	1130-1150	Xue, Jiao	Yang, Liyang	Zhang, Kun	Yu, Liuqian			
	1150-1330	Lunch (Sea Pearl Café - 2 nd Floor, Building No. 8)						
		INT-01	BGC-03	PHY-01	BGC-09	BIO-05	GEO-04	
	1330-1350	Latif, Mohd Talib (Invited)	Wang, Junjian (Invited)	Feng, Zhixuan (Invited)	Du, Chuanjun	Gomes, Helga do Rosario	Zhao, Ning	
	1350-1410	Zhan, Liyang (Invited)	Jiang, Peng	Hopwood, Mark James (Invited)	Liang, Zhou	Wu, Jinghui	Luo, Yiming	
	1410-1430	Guieu, Cécile (Invited)	He, Chen	Yang, Yijun	Mao, Shihai	Deng, Lin	Zheng, Xufeng	
	1430-1450	Su, Jianzhong	Yi, Yuanbi (Invited)	Shi, Qian	Li, Qian (Invited)	Song, Luping	Chen, Xuefei	
	1450-1510	Zhou, Zhen	Fang, Futao	Jiang, Xian	Breyer, Eva	Brewin, Bob	Ma, Wentao	
	1510-1530	Zhang, Tianle	Ge, Jinfeng	Zhang, Chao	Jiang, Siyu	Bouman, Heather A. (Invited)	Ng, Hong Chin (Invited)	
	1530-1550		Li, Minchun	Jin, Ying	Wang, Peixuan	Sathyendranath, Shubha (Invited)	Rae, James W. B. (Invited)	
	1550-1610	Coffee Break (MingXiao Hall and Building No. 8)						
	1610-1650	Keynote: Falciatore, Angela (MingXiao Hall)						
		Poster Online Lightning Talks						
	1650-1750	BGC-01/ BGC-02/ BGC-07	BGC-03/ BGC-05/ BGC-06/ BGC-08	BIO-01/ BIO-02	BIO-03/ BIO-05/ BIO-06/ BIO-07/ BIO-08	INT-01/ EVT-01/ WS-01	PHY-01/ PHY-05	PHY-04/ PHY-06
	1800-2100	Dinner (Sea Pearl Café - 2 nd Floor, Building No. 8)						

Location Time (UTC+8)	Room 1 MingXiao Hall	Room 2 LiQuan Hall 1 (Bldg. 8)	Room 3 GuangYi Room (Bldg. 8)	Room 4 LiQuan Hall 2 (Bldg. 8)	Room 5 YinHe Room (Bldg. 8)	Room 6 QiongLin Room (Bldg. 8)	Room 7 Interview Room (Bldg. 5)	
Jan. 10	0830-0910	Keynote: Levin, Lisa (MingXiao Hall)						
	0910-0930	Coffee Break (MingXiao Hall and Building No. 8)						
		PHY-04	BGC-05	BIO-02	PHY-03	BIO-06	INT-02	
	0930-0950	Xu, Shiming (Invited)	Lin, Yuxuan	Liu, Zhiqiang (Invited)	Wang, Xiaohua (Invited)	Quattrini, Andrea (Invited)	Peng, Xuefeng (Invited)	
	0950-1010	Wang, Lu (Invited)	Cui, Quanchao (Invited)	Bao, Senliang (Invited)	Cheng, Lijing (Invited)	Pham, Anh H. (Invited)	Sun, Xin (Invited)	
	1010-1030	Yu, Xiaolong	Jiang, Ning	Du, Juan (Invited)	Wang, Jinping	Novi, Lyuba	Xie, Wei	
	1030-1050	Yang, Yang	Wang, Tengteng	Cai, Zhongya (Invited)	Sun, Jingxuan	Wu, Wenxue	Yang, Jinyu	
	1050-1110	Cao, Yuan	Dan, Solomon Felix	Li, Guancheng	Yuan, Jiacan		Xu, Min	
	1110-1130	Guo, Xin	Tan, Ehui	Wang, Yishan	Jin, Yi		Xiang, Hua	
	1130-1150	Jiang, Yuwu	Feng, Yang	Ye, Suwen	Lin, Wenqiang		Tang, Jinming	
	1150-1330	Lunch (Sea Pearl Café - 2 nd Floor, Building No. 8)						
		PHY-04	BGC-05	BIO-02	PHY-02	BIO-07	INT-11	
	1330-1350	Xie, Jin-Han (Invited)	Ribeiro, Sofia (Invited)	Zhang, Linlin	Zhang, Xu (Invited)	Yan, Xiaohai (Invited)	Jiao, Nianzhi	
	1350-1410	Barkan, Roy (Invited)	Krisch, Stephan	Kang, Jingliang	Chen, Jiao	Liao, Enhui	Qiao, Fangli	
	1410-1430	Wang, Peng	Nariño Vargas, Maria Jose (Invited)	Barnes, Natasha	Wu, Sheng	Han, Mingyu	Lin, Xiaopei	
	1430-1450	Yi, Daling Li	Scholz, Florian (Invited)	Tan, Yue	Oltmanns, Marilena	Song, Hongjun	Li, Xiuzhen	
	1450-1510	Zou, Zhongshui	Oliver, Hilde	Pan, Yuying	Petit, Tillys	Pan, Yaoru	Leung, Kenneth M. Y.	
	1510-1530	Jiang, Xianyang	Liu, Te	Zheng, Huayi	Bracco, Annalisa		Li, Daoji	
	1530-1550		Zhang, Zhouling		Karstensen, Johannes (Invited)		Luo, Ya-Wei	
	1550-1610	Coffee Break (MingXiao Hall and Building No. 8)						
	1610-1730	Women in Science Salon (LiQuan Multi-Function Hall 1, Building No. 8)						
	1610-1730	Poster Online Lightning Talks						
		BGC-07/ BGC-09	BGC-01/ BGC-02/ BGC-03/ BGC-05/ BGC-06	BIO-01/ BIO-07	ENV-01/ ENV-03/ GEO-01/ GEO-03/ GEO-04	INT-02/ INT-12	PHY-01/ PHY-02/ PHY-03/ PHY-05/ PHY-06	INT-01/ INT-02/ INT-12/ WS-01/ PHY-04

Location	Room 1 MingXiao Hall	Room 2 LiQuan Hall 1 (Bldg. 8)	Room 3 GuangYi Room (Bldg. 8)	Room 4 LiQuan Hall 2 (Bldg. 8)	Room 5 YinHe Room (Bldg. 8)	Room 6 QiongLin Room (Bldg. 8)	Room 7 Interview Room (Bldg. 5)	
Time (UTC+8)	0830-0910	Keynote: Ren, Haojia Abby (MingXiao Hall)						
	0910-0930	Coffee Break (MingXiao Hall and Building No. 8)						
	PHY-04	BIO-01	PHY-06	BGC-06	WS-03*	BGC-08		
0930-0950	Chen, Bicheng (Invited)	Nagai, Satoshi (Invited)	Xu, Zhenhua (Invited)	Claustre, Hervé (Invited)	Chen, Bob (Online Only)	Jiao, Nianzhi (Invited)		
0950-1010	Li, Qing (Invited)		Lai, Zhigang (Invited)	Strutton, Peter (Invited)		Leung, Kenneth M. Y.		
1010-1030	Dong, Jihai	Shang, Lixia	Li, Qiang	Cornec, Marin		Hu, Yubin		
1030-1050	Zhang, Xiujie	Hii, Kieng Soon (Invited)	Robertson, Robin	Xue, Cunjin		Zhou, Linbin		
1050-1110	Chen, Si-Yuan (Sean)	Zhou, Muyao	Yang, Wei	Huang, Yibin		Guo, Jiaying Abby		
1110-1130	Ruan, Xi	Hu, Jiarong	Chen, Liang	Wu, Yingxu		Hou, Lei		
1130-1150	Zhou, Guidi	Wang, Hongwei	Zhang, Peiwen	Fassbender, Andrea J.				
1150-1330	Lunch (Sea Pearl Café - 2 nd Floor, Building No. 8)							
		BIO-01	PHY-06	WS-01		TH-01	BGC-08	GEO-01
1330-1350		Lim, Po Teen (Invited)	Song, Haibin (Invited)	Merder, Julian (Invited)	SOLAS Town Hall	Yao, Wanxuan	Timmermann, Axel (Invited)	
1350-1410		Zhang, Hao	Wang, Zhan (Invited)	Shi, Quan		Wang, Yuntao	Zhang, Yige (Invited)	
1410-1430		Benico, Garry A. (Invited)	Tang, Qunshu	Li, Xiaolin		Gao, Guang	Zhang, Yazhou	
1430-1450		Chai, Zhaoyang	Yuan, Chunxin	Lu, Kaijun		Li, Xiao-Jun	Botond, Lázár	
1450-1510		Mohddin, Monaliza	Gong, Yankun	Fujii, Manabu (Invited)		Zhao, Zihao	Yu, Zhaojie	
1510-1530		Leng, Tianze	Zhang, Han	Liu, Zhanfei		Keller, David P. (Invited)	Hu, Jun	
1530-1550			Chen, Zhiwu	Song, Guixue		Smetacek, Victor (Invited)	Mohtadi, Mahyar	
1550-1610	Coffee Break (MingXiao Hall and Building No. 8)							
1610-1710	Meet the Editor (GuangYi Meeting Room, Building No. 8)							
1610-1750	Onsite Poster Session (Fuyuan Hall)							

* Presentations in this workshop will be 2 hours and 20 minutes in length.

Location		Room 1 MingXiao Hall	Room 2 LiQuan Hall 1 (Bldg. 8)	Room 3 GuangYi Room (Bldg. 8)	Room 4 LiQuan Hall 2 (Bldg. 8)	Room 5 YinHe Room (Bldg. 8)	Room 6 QiongLin Room (Bldg. 8)	Room 7 Interview Room (Bldg. 5)
Time (UTC+8)								
Jan. 12	0830-0910	Keynote: Galbraith, Eric (MingXiao Hall)						
	0910-0930	Coffee Break (MingXiao Hall and Building No. 8)						
			BIO-01	PHY-05	BGC-02	BGC-01	TUT-01 [†]	WS-02*
	0930-0950		Deng, Yunyan (Invited)	Cai, Wenju (Invited)	Baltar, Federico (Invited)	Heimbürger-Boavida, Lars-Eric (Invited)	Wang, Wei-Lei	King, Emily (In Person Only)
	0950-1010		Zhou, Fucang	Wang, Dongxiao	Liu, Yi (Invited)	Chen, Jiubin (Invited)		
	1010-1030		Li, Jianping (Invited)	Li, Qiuxian (Invited)	Zhu, Xiaoyuan	Han, Seunghee (Invited)		
	1030-1050		Gao, Hang	Guo, Guijun	Fang, Ziming	Wang, Feiyue		
	1050-1110		Ollevier, Anouk	Wang, Xiaoqiao	Li, Xinxin	Li, Yanbin		
	1110-1130		Chen, Tao	Chen, Jiajia	Wang, Weilei	Cui, Xinyun		
	1130-1150		Zhang, Wenguang	Jing, Wandi		Yang, Shaochen		
	1150-1410	Lunch (Sea Pearl Café - 2 nd Floor, Building No. 8)						
	1410-1450	Keynote: Hermes, Juliet (MingXiao Hall)						
	1450-1510	Student Poster Award and Closing Ceremony (MingXiao Hall)						

* Presentations in this workshop will be 2 hours and 20 minutes in length.

† Presentations in this tutorial will be 1 hour and 40 minutes in length.

Program

Sunday, January 8, 2023

Registration: 1400-2000 (Building No. 8)

Monday, January 9, 2023

MingXiao Hall		
0730-1700	On-site registration	
Conference Room 1 (MingXiao Hall)		
0800-0830	Opening	
0830-0910	Buesseler, Ken	Keynote Speech: Exploring ocean climate solutions
0910-0930	Break	

INT-01-Surface Ocean and Lower Atmosphere Study: Air-Sea interaction and its climatic and environmental impacts Conference Room 1 (MingXiao Hall) Chairs: Zhang, Guiling Wang, Bingbing Du, Lin Wu, Zhijun		
0930-0950	Hu, Min	Air Sea Interaction: from marine biologic DMS to continental anthropogenic impacted aerosols (Invited)
0950-1010	Huang, Rujin	Marine particle and cloud formation (Invited)
1010-1030	Zhou, Lei	Skillful prediction of subseasonal monsoon precipitation
1030-1050	Huang, Shan	Chemical composition, sources, size distribution, and hygroscopicity of aerosols over the remote ocean
1050-1110	Hu, Wei	Wildfires Input Water-soluble Dicarboxylic Acids in summertime Arctic aerosols
1110-1130	Jiang, Keyue	The occurrence of the Antarctic sea fogs in austral summer
1130-1150	Xue, Jiao	Micro-spectroscopic characterization and ice formation potential of particles collected during a cruise between South Korea to Antarctica

BGC-03-Processing and transformation of natural dissolved organic matter across ecosystems Conference Room 2/LiQuan Multi-Function Hall 1 (Building No. 8) Chairs: Chen, Hongmei He, Ding Liu, Zhanfei Bao, Hongyan Shen, Yuan		
0930-0950	Wagner, Sasha	Tracking biorefractory condensed aromatic petroleum products in a shallow aquifer (Invited)
0950-1010	Yang, Ziming	DOM-mineral-phosphorous interactions in the coastal shoreline of the Great Lakes (Invited)
1010-1030	Zhao, Zhao	From individuals to the whole: the complex networks of microbial-DOM interactions in the sea.
1030-1050	Li, Yuqing	Dissolved oxygen affects DOM degradation by regulating microbial community composition: A case study of the Yangtze River estuary
1050-1110	Xin, Yu	How to resolve the cycling of dissolved organic nitrogen in the marine environment?
1110-1130	Cai, Zongwei	Determination of environmental micro-(nano-) plastics
1130-1150	Yang, Liyang	Expanding the spectral characterization from dissolved to particulate and sediment organic matter: Responses to the natural and anthropogenic drivers

PHY-01-Arctic Ocean: Physical processes and their effects on climate and the ecosystem Conference Room 3/GuangYi Meeting Room (Building No. 8) Chairs: Lin, Peigen Pickart, Robert S Moore, G.W.K.		
0930-0950	Moore, Kent	Anomalous transport associated with extreme end states of the Beaufort High leads to thick and old sea ice in the Beaufort Sea during the summers of 2020 and 2021 (Invited)
0950-1010	Hu, Xiaoming	A quantitative analysis of the source of inter-model spread in Arctic surface warming response to increased CO ₂ concentration (Invited)
1010-1030	Zhang, Murong	Feeling the pulse from Arctic stratosphere: Impacts and precursors of mixed-type sudden stratospheric warming
1030-1050	Huang, Jie	Structure and variability of Barrow Canyon outflow from two high-resolution shipboard surveys in 2018
1050-1110	Li, Shutong	Upwelling of Atlantic water in Barrow Canyon, Chukchi Sea
1110-1130	Wang, Yuanqi	Spatial and temporal variability of upper water column stratification in the Pacific Arctic Region
1130-1150	Zhang, Kun	Investigating eddies from coincident seismic and hydrographic measurements in the Chukchi Borderlands, the western Arctic Ocean

BGC-07-Drivers and consequences of marine dissolved oxygen depletion: from estuaries to the open ocean.
Conference Room 4/LiQuan Multi-Function Hall 2 (Building No. 8)

Chairs: Zhu, Zhuoyi | Zhao, Yangyang | Song, Guodong | Yu, Liuqian | Meng, Qicheng | He, Ding

0930-0950	Chen, Chen-Tung Arthur	Weakened Atlantic Meridional Overturning Circulation accelerates deep-ocean acidification (Invited)
0950-1010	Gouretski, Viktor	Quality control procedure and bias assessment for the global oxygen profile dataset
1010-1030	Zhang, Wenxia	Regional projection of climate warming effects on coastal seas in east China (Invited)
1030-1050	Meng, Qicheng	How the coupled pelagic-benthic processes mediate hypoxia on the East China Sea shelf inferred from modeling
1050-1110	Gong, Hongjing	Vertical expansion of global oxygen minimum zone under climate change
1110-1130	Li, Penghui	Molecular characteristics of dissolved organic matter in the hypoxic zones of the Yangtze River Estuary and their biogeochemical implications
1130-1150	Yu, Liuqian	Impacts of sediment-water fluxes on hypoxia formation off the Pearl River Estuary

BIO-03-Diversity, dynamics and function of host-associated microbiomes in marine organisms

Conference Room 5/YinHe Meeting Room (Building No. 8)

Chairs: Zhuang, Yunyun | Lin, Senjie | Li, Caiwen | Chen, Jianwei

0930-0950	Xu, Zhimeng	Cold seep sediment is a hotspot of microeukaryotic diversity in deep-sea ecosystems
0950-1010	Lee, Li Keat	Molecular diversity and assemblages of coral symbionts (Symbiodiniaceae) in diverse scleractinian coral species
1010-1030	Sun, Ying	Ecological filtering drives distinct intestinal microbiota signatures in fish populations along salinity gradients
1030-1050	Xu, Mengyang	Symbiont-Screener: a reference-free tool to separate host sequences from symbionts for error-prone long reads
1050-1110	Zhuang, Yunyun	Metabarcoding revealed the diversity of <i>in situ</i> diet and symbiont assembly on marine copepods in Chinese marginal seas

GEO-04-Millennial to orbital oceanic carbon cycle in the Quaternary: processes and mechanisms Conference Room 6/QiongLin Meeting Room (Building No. 8) Chairs: Chen, Tianyu Huang, Enqing		
0930-0950	Yu, Jimin	Millennial atmospheric CO ₂ changes linked to multiple modes of ocean ventilation (Invited)
0950-1010	Zhang, Yancheng	Enhanced North Pacific Subtropical Gyre circulation during late Holocene cool intervals
1010-1030	Liu, Xiting	Decoupling between export productivity and organic carbon burial in the subtropical West Pacific since the last glacial period
1030-1050	Su, Xiang	Late Quaternary coccolith weight variations in the South China Sea and their implications to carbon cycle
1050-1110	Hu, Rong	U/Ca and U/Mn in foraminiferal coatings as a proxy for ocean oxygenation changes: new calibration and comparative analyses of Holocene and last peak glacial sediments
1110-1130	Du, Jinlong	Southern control of interhemispheric synergy on glacial marine carbon sequestration

1150-1330

Lunch (Sea Pearl Café - 2nd Floor, Building No. 8)

INT-01-Surface Ocean and Lower Atmosphere Study: Air-Sea interaction and its climatic and environmental impacts Conference Room 1 (MingXiao Hall) Chairs: Zhang, Guiling Wang, Bingbing Du, Lin Wu, Zhijun		
1330-1350	Latif, Mohd Talib	Sea-to-air fluxes of isoprene and monoterpenes in the coastal region of the Malaysian Peninsula (Invited)
1350-1410	Zhan, Liyang	Observation of nitrous oxide in the surface polar ocean using an automatic underway system (Invited)
1410-1430	Guieu, Cécile	Biogeochemical response in surface ocean after wildfire ash deposition: results from minicosms experiment. (Invited)
1430-1450	Su, Jianzhong	Differences in air-sea CO ₂ exchange among three tropical estuaries (Hainan, China)
1450-1510	Zhou, Zhen	Occurrence and microbial consumption of methanol in the northwest Pacific Ocean
1510-1530	Zhang, Tianle	Transport and impacts of three Asian dust events in spring 2021 in the northwestern Pacific

BGC-03-Processing and transformation of natural dissolved organic matter across ecosystems Conference Room 2/LiQuan Multi-Function Hall 1 (Building No. 8) Chairs: Chen, Hongmei He, Ding Liu, Zhanfei Bao Hongyan Shen, Yuan		
1330-1350	Wang, Junjian	Biogeochemistry of forest soil-derived dissolved organic matter with environmental changes: Molecular-level insights (Invited)
1350-1410	Jiang, Peng	Comparing the isotopic and molecular composition of dissolved organic carbon between the oligotrophic South China Sea and the north Pacific Ocean: signals of biodegradation, conservative mixing, and terrestrial input
1410-1430	He, Chen	Molecular composition of dissolved organic matter across diverse ecosystems: Implications for biogeochemical cycling
1430-1450	Yi, Yuanbi	Will different interpretation strategies of the same ultra-high-resolution mass spectrometry data tell different biogeochemical stories? A first assessment based on natural aquatic samples (Invited)
1450-1510	Fang, Futao	Succession in main phytoplankton population off the Changjiang Estuary in the East China Sea and its impacts on DOM pool
1510-1530	Ge, Jinfeng	Fluorescence and molecular signatures of dissolved organic matter to monitor and assess its multiple sources from a polluted river in the farming-pastoral ecotone of Northern China
1530-1550	Li, Minchun	The distribution pattern of fluorescent dissolved organic matter and its underlying mechanism in sediments in the northern South China Sea since MIS 3

PHY-01-Arctic Ocean: Physical Processes and their Effects on Climate and the Ecosystem
Conference Room 3/GuangYi Meeting Room (Building No. 8)
Chairs: Lin, Peigen | Pickart, Robert S | Moore, G.W.K.

1330-1350	Feng, Zhixuan	Synchronicity between spring-summer sea ice retreat and phytoplankton bloom in the Pacific Arctic Ocean: implications of the pelagic-benthic coupling in an era of rapid climate change (Invited)
1350-1410	Hopwood, Mark James	How does runoff from Greenland affect marine biogeochemistry? Insights from nutrient stoichiometry and chlorophyll time series. (Invited)
1410-1430	Yang, Yijun	The evolution of the Fram Strait sea ice volume export decomposed by age: estimating with parameter-optimized sea ice-ocean model outputs
1430-1450	Shi, Qian	Arctic sea ice deformation from passive microwave imagery
1450-1510	Jiang, Xian	Numerical simulation of the Canada Basin planetary boundary layer reaction to the sea ice of varying underlying surface conditions with the Polar Weather Research and Forecasting model
1510-1530	Zhang, Chao	Dynamic link of Arctic sea-ice anomalies to snow cover increment in the Tibetan Plateau
1530-1550	Jin, Ying	Sea level variation in the Arctic Ocean since 1979 basing on ORAS5 data

BGC-09-Understanding the upper ocean biogeochemistry in the oligotrophic subtropical gyres
Conference Room 4/LiQuan Multi-Function Hall 2 (Building No. 8)
Chairs: Zhou, Kuanbo | Browning, Tom | Liu, Qian

1330-1350	Du, Chuanjun	Diapycnal fluxes of nutrients in the North Pacific Subtropical Gyre
1350-1410	Liang, Zhou	Comparative surface ocean DOC:DON:DOP stoichiometry between the Atlantic and Pacific Oceans
1410-1430	Mao, Shihai	Atmospheric deposition enhances methane production by impacting microbial phosphorus acquisition in the Northwest Pacific Ocean
1430-1450	Li, Qian	Emerging insights on biological processes and potential biogeochemical consequences in North Pacific Subtropical Gyre (NPSG) (Invited)
1450-1510	Breyer, Eva	Biomass and community structure of pelagic fungi: from productive coastal waters to oligotrophic subtropical gyres
1510-1530	Jiang, Siyu	Diverse Prochlorococcus populations across the surface Eastern Indian Ocean: variations in physiologies and genomes
1530-1550	Wang, Peixuan	Proportion of dead cells in phytoplankton controls community structure

BIO-05\INT-06-Remote sensing of oceanic primary production Conference Room 5/YinHe Meeting Room (Building No. 8) Chairs: Lee, Zhongping Goes, Joaquim Brewin, Robert		
1330-1350	Gomes, Helga do Rosario	Promise and potential of variable fluorescence based measurements of photosynthetic electron transport in support of diurnal net primary productivity estimates from geostationary ocean color sensors
1350-1410	Wu, Jinghui	Estimates of diurnal and daily Net Primary Productivity using the Geostationary Ocean Color Imager (GOCI) data
1410-1430	Deng, Lin	Estimation of vertical size-fractionated phytoplankton primary production in the northern South China Sea
1430-1450	Song, Luping	On the spatial and temporal variations of primary production in the South China Sea
1450-1510	Brewin, Bob	Surface and subsurface primary production across the Atlantic Ocean
1510-1530	Bouman, Heather A.	Variability in the Photosynthesis-Irradiance Parameters of Marine Phytoplankton in Space and Time (Invited)
1530-1550	Sathyendranath, Shubha	Primary Production and Carbon-to-Chlorophyll Ratio of Marine Phytoplankton (Invited)

GEO-04-Millennial to orbital oceanic carbon cycle in the Quaternary: processes and mechanisms Conference Room 6/QiongLin Meeting Room (Building No. 8) Chairs: Chen, Tianyu Huang, Enqing		
1330-1350	Zhao, Ning	Glacial deep ocean ventilation reconstructed from radiocarbon data and inverse modeling
1350-1410	Luo, Yiming	Reorganization of Atlantic deep water masses during the Last Glacial Maximum
1410-1430	Zheng, Xufeng	One-to-one coupling between Southern Ocean productivity and Antarctica climate
1430-1450	Chen, Xuefei	AMO imprint on the (sub)tropical seawater pH revealed by coral $\delta^{11}\text{B}$ datasets
1450-1510	Ma, Wentao	Variability in the Indonesian throughflow and associated carbon cycle during the LGM
1510-1530	Ng, Hong Chin	Changes in Labrador Sea deep water transport over the past Millennium - Implications for carbon uptake?
1530-1550	Rae, James W. B.	How and why does CO_2 change? Oceanic records of carbon storage, outgassing, and atmospheric CO_2

1550-1610**Break**

Conference Room 1 (MingXiao Hall)		
1610-1650	Falciatore, Angela	Keynote Speech: Light-driven processes to unveil the molecular mysteries of diatoms and the reasons for their success in the marine environment
All Conference Rooms and Halls		
1650-1750	Poster Online Lightning Talks (POLIT)	

1800-2100**Dinner (Sea Pearl Café - 2nd Floor, Building No. 8)**

Tuesday, January 10, 2023

Conference Room 1 (MingXiao Hall)		
0830-0910	Levin, Lisa	Keynote Speech: Deep-sea biodiversity challenges and opportunities in the 21st Century: Climate, resource extraction and sustainability
0910-0930	Break	

PHY-04-Cross-scale interactions in (sub)mesoscale motions, internal waves, surface waves and boundary layer turbulence		
Conference Room 1 (MingXiao Hall)		
Chairs: Yu, Xiaolong Wang, Peng Zhan, Peng Dong Jihai		
0930-0950	Xu, Shiming	OMARE - Modeling the ocean's mesoscale and submesoscale with adaptive grid refinement (Invited)
0950-1010	Wang, Lu	Effects of mesoscale dynamics on the path of fast-sinking particles to the deep ocean (Invited)
1010-1030	Yu, Xiaolong	Observed equatorward propagation and chimney effect of near-inertial waves in the midlatitude ocean
1030-1050	Yang, Yang	Spatial and Temporal Characteristics of the Submesoscale Energetics in the Gulf of Mexico
1050-1110	Cao, Yuan	Global estimate of tropical cyclone-induced diapycnal mixing and its links to climate variability
1110-1130	Guo, Xin	Extreme acceleration of the Agulhas Current triggered by upstream anticyclones
1130-1150	Jiang, Yuwu	Submesoscale physical-biological processes in the winter and spring Taiwan Strait

BGC-05-Coastal biogeochemical processes in a climatically sensitive ocean
Conference Room 2/LiQuan Multi-Function Hall 1 (Building No. 8)
Chairs: Xie, Ruifang C. | Hopwood, Mark J.

0930-0950	Lin, Yuxuan	Iron-sulfur coupling regulates sediment phosphorus biogeochemistry and fluxes in coastal oceans
0950-1010	Cui, Quanchao	Spatial and seasonal variations of silicon isotopes in the Yellow River Estuary and Bohai Sea (Invited)
1010-1030	Jiang, Ning	The Connection of phytoplankton biomass in the Marguerite Bay Polynya of the Western Antarctic Peninsula to the Southern Annular Mode
1030-1050	Wang, Tengting	The preservation of terrestrial organic carbon in small subtropical estuarine systems as implicated by fatty acid carbon isotopes
1050-1110	Dan, Solomon Felix	Baseline assessment of the heavy metals influencing factors in surface sediments of the Cross River Estuary and surrounding environments, South East Nigeria, using a Bayesian Network Model
1110-1130	Tan, Ehui	Sedimentary nitrate respiration compromises the CO ₂ sink by marginal seas
1130-1150	Feng, Yang	Drivers of phytoplankton variability in and Near the Pearl River Estuary, South China Sea during Typhoon Hato (2017): A numerical study

BIO-02-Key changes in ocean variability and the effects of climate change
Conference Room 3/GuangYi Meeting Room (Building No. 8)
Chairs: Zhou, Yuntao | Cheng, Lijing | Zhang, Linlin | Cao, Long

0930-0950	Liu, Zhiqiang	Coherent interannual-decadal variability of temperature in the Tropical-North Pacific Ocean and Deep South China Sea (Invited)
0950-1010	Bao, Senliang	Reconstruction of 3D Temperature and Salinity Profiles from Remote Sensing Sea Surface Measurements (Invited)
1010-1030	Du, Juan	Climatological annual cycle of the global ocean oxygen anomaly (Invited)
1030-1050	Cai, Zhongya	Coastal water renewal in the Northern South China Sea under climatic control (Invited)
1050-1110	Li, Guancheng	A global gridded ocean salinity dataset with 0.5° horizontal resolution since 1960 for the upper 2000 m
1110-1130	Wang, Yishan	Trends in marine heatwaves and cold-spells attributed to sea surface temperature change
1130-1150	Ye, Suwen	High chlorophyll-a anomalies near the northern Antarctic Peninsula during the austral summer of 2006

PHY-03-Sea level rise: understanding, observing, and modelling
Conference Room 4/LiQuan Multi-Function Hall 2 (Building No. 8)
Chairs: Lyu, Kewei | Zhang, Xuebin | Cheng, Xuhua | Hu, Jianyu

0930-0950	Wang, Xiaohua	The effects of wave-current interactions on modelling coastal sea level (Invited)
0950-1010	Cheng, Lijing	Estimate of ocean heat content and steric sea level change (Invited)
1010-1030	Wang, Jinping	Updating sea-level reconstruction since 1900
1030-1050	Sun, Jingxuan	Decadal and long-term variability of sea level in the Southwestern Pacific during 1948-2018
1050-1110	Yuan, Jiacan	Emulating ocean dynamic sea level by two-layer pattern Scaling
1110-1130	Jin, Yi	Projected mean and extreme sea level changes in the China marginal seas based on dynamical downscaling
1130-1150	Lin, Wenqiang	Relative contributions of open-ocean forcing and local wind to coastal sea level variability

BIO-06-INT-07-Ecological connectivity in the ocean-past, present and future. Environmental influences, and implications for biodiversity and conservation.
Conference Room 5/YinHe Meeting Room (Building No. 8)
Chairs: Bracco, Annalisa | Montoya, Joseph

0930-0950	Quattrini, Andrea	Genomic approaches to assess population connectivity in the deep: from deep reefs to cold seeps (Invited)
0950-1010	Pham, Anh H.	Planktonic habitats in the Amazon plume region of the western tropical North Atlantic (Invited)
1010-1030	Novi, Lyuba	A machine learning approach to coral reefs ecoregions connectivity, biodiversity and bleaching resilience
1030-1050	Wu, Wenxue	Selection surpasses homogenizing dispersal in shaping highly connected bacterial communities along strong environmental gradients

INT-02-New understanding of marine nitrogen cycle: from microbes to the global ocean Conference Room 6/QiongLin Meeting Room (Building No. 8) Chairs: Zheng, Yue Wan, Xianhui Wei, Qin Zhang Yao		
0930-0950	Peng, Xuefeng	Nitrous oxide production by four fungal strains isolated from salt marsh sediments (Invited)
0950-1010	Sun, Xin	Anaerobic nitrite oxidation: A missing component of the marine nitrogen budget (Invited)
1010-1030	Xie, Wei	The importance of Thaumarchaeota on the nitrogen and carbon cycling in deep ocean
1030-1050	Yang, Jinyu	Comparison of nitrate isotopes between the South China Sea and western North Pacific Ocean: Insights into biogeochemical signals and water exchange
1050-1110	Xu, Min	Diel change in inorganic nitrogenous nutrient dynamics and associated oxygen stoichiometry along the Pearl River Estuary
1110-1130	Xiang, Hua	NosZ I and NosZ II N ₂ O-reducing bacteria co-regulate N ₂ O reduction in the Pearl River Estuary sediments, China
1130-1150	Tang, Jinming	The biological transformation of ammonium and urea in a eutrophic estuarine system in southern China

1150-1330

Lunch (Sea Pearl Café - 2nd Floor, Building No. 8)

PHY-04-Cross-scale interactions in (sub)mesoscale motions, internal waves, surface waves and boundary layer turbulence Conference Room 1 (MingXiao Hall) Chairs: Yu, Xiaolong Wang, Peng Zhan Peng Dong Jihai		
1330-1350	Xie, Jin-Han	Oceanic dual kinetic energy cascade and its seasonality (Invited)
1350-1410	Barkan, Roy	The dual energy cascade in oceanic turbulence (Invited)
1410-1430	Wang, Peng	Surface wave effects on coastal submesoscale currents
1430-1450	Yi, Daling Li	Satellite-observed time and length scales of global sea surface salinity variability: a comparison of three satellite missions
1450-1510	Zou, Zhongshui	The marine atmospheric boundary layer turbulence modulated by ocean surface waves
1510-1530	Jiang, Xianyang	Localised competition between stratification and flow motions in stratified shear layers

BGC-05-Coastal biogeochemical processes in a climatically sensitive ocean
Conference Room 2/LiQuan Multi-Function Hall 1 (Building No. 8)
Chairs: Xie, Ruifang C. | Hopwood, Mark J.

1330-1350	Ribeiro, Sofia	Holocene ecosystem dynamics in the sub-arctic fjord Nuup Kangerlua (SW Greenland) based on biogenic proxy records (Invited)
1350-1410	Krisch, Stephan	The Arctic Ocean is a net source of dissolved micronutrients toward the Atlantic Ocean through the gateway of Fram Strait
1410-1430	Nariño Vargas, Maria Jose	Drivers of changing phytoplankton distributions during austral winters of the northern Antarctic Peninsula, 2013 to 2016 (Invited)
1430-1450	Scholz, Florian	Benthic-pelagic coupling and isotopic fractionation of barium in a seasonally hypoxic Fjord (Invited)
1450-1510	Oliver, Hilde	Slope sea diatom hotspots driven by western boundary current instability
1510-1530	Liu, Te	Shelf sediments in the Benguela Upwelling System as a major source of trace metals to the shelf and eastern South Atlantic Ocean
1530-1550	Zhang, Zhouling	Decoupling of barium and silicon at the Congo River-dominated Southeast Atlantic margin: insights from combined barium and silicon isotopes

BIO-02-Key changes in ocean variability and the effects of climate change
Conference Room 3/GuangYi Meeting Room (Building No. 8)
Chairs: Zhou, Yuntao | Cheng, Lijing | Zhang, Linlin | Cao, Long

1330-1350	Zhang, Linlin	Low-frequency variability of the South Pacific Subtropical Gyre as seen from satellite altimetry and hydrographic data
1350-1410	Kang, Jingliang	Molecular acclimation to ocean acidification in temperate fish at natural volcanic CO ₂ seeps
1410-1430	Barnes, Natasha	Effect of trace metals on marine bacterial community
1430-1450	Tan, Yue	Adaptive synonymous mutation interacts with microhabitat heterogeneity to influence thermal resistance
1450-1510	Pan, Yuying	Annual cycle in upper ocean heat content and its role in the global energy budget
1510-1530	Zheng, Huayi	Global and regional salinity changes related to ENSO

PHY-02-Atlantic Ocean variability in a changing climate Conference Room 4/LiQuan Multi-Function Hall 2 (Building No. 8) Chairs: Li, Feili Fu, Yao Oltmanns, Marilena Zou, Sijia		
1330-1350	Zhang, Xu	Background dependent bifurcation of Atlantic Meridional Overturning Circulation: A lesson from past abrupt climate change (Invited)
1350-1410	Chen, Jiao	Control by the circulation adjustment outside the Arctic on transient response of AMOC to global warming
1410-1430	Wu, Sheng	The meridional coherence of Atlantic meridional heat transport under global warming
1430-1450	Oltmanns, Marilena	Accelerated North Atlantic freshwater cycle triggered by increased regional melt
1450-1510	Petit, Tillys	Impact of resolution in the dense water formation over the North Atlantic for a hierarchy of climate model HadGEM3
1510-1530	Bracco, Annalisa	The role of submesoscale circulations in modulating deep water formation in the Labrador Sea
1530-1550	Karstensen, Johannes	The 53°N observatory: 25 years time series data from the exit of the Labrador Sea (Invited)

BIO-07\INT-08-Data Science for Marine Ecosystem Studies (DS4MES) Conference Room 5/YinHe Meeting Room (Building No. 8) Chairs: Lu, Wenfang Xiao, Wupeng Wang, Wei-Lei		
1330-1350	Yan, Xiaohai	Big data, small satellites and deep ocean remote sensing in climate change studies (Invited)
1350-1410	Liao, Enhui	Tropical pacific ocean carbon response to El Niños
1410-1430	Han, Mingyu	Global research trends and hotspots on oceanography from 1992 to 2021
1430-1450	Song, Hongjun	Seasonal phytoplankton blooms dynamics revealed by remote sensing and ecosystem modeling data: Yellow Sea and Arctic Ocean cases.
1450-1510	Pan, Yaoru	Machine learning in tracking the dynamics of beach wrack from image datasets

INT-11-Endorsed or Planned Actions of the UN Decade of Ocean Science for Sustainable Development in Asia and Beyond
Conference Room 6/QiongLin Meeting Room (Building No. 8)
Chairs: Dai, Minhan | Qiao, Fangli | Leung, Kenneth | Li, Xiuzhen | Luo, Ya-Wei | Chen, Nengwang

1330-1350	Jiao, Nianzhi	Ocean Negative Carbon Emissions: A UN ocean decade program
1350-1410	Qiao, Fangli	UN Decade Programme: Ocean to climate Seamless Forecasting system (OSF)
1410-1430	Lin, Xiaopei	Introduction of the Second Cooperative Study of the Kuroshio and Adjacent Regions (CSK-2)
1430-1450	Li, Xiuzhen	MegaDelta Programme and Joint International Laboratory of Deltas Project
1450-1510	Leung, Kenneth M. Y.	The Global Estuaries Monitoring (GEM) Programme for cleaner and safer coastal marine environments
1510-1530	Li, Daoji	Ocean Decade Action Project: Stem the tide of Asia's riverine plastic emission into the ocean
1530-1550	Luo, Ya-Wei	Introduction of COASTAL-SOS: An action for coastal zone sustainability

1550-1610
Break
LiQuan Multi-Function Hall 1, Building No. 8

1610-1730	Women in Science Salon
All Conference Rooms and Halls	
1610-1730	Poster Online Lightning Talks (POLIT)

Wednesday, January 11, 2023

Conference Room 1 (MingXiao Hall)		
0830-0910	Ren, Haojia Abby	Keynote Speech: Centennial increase of the Western Boundary Transport in the tropical South Pacific
0910-0930	Break	

PHY-04-Cross-scale interactions in (sub)mesoscale motions, internal waves, surface waves and boundary layer turbulence Conference Room 1 (MingXiao Hall) Chairs: Yu, Xiaolong Wang, Peng Zhan, Peng Dong Jihai		
0930-0950	Chen, Bicheng	The role of diurnal forcings on the merging of surface and bottom boundary layers in the coastal ocean and their implications on vertical mixing. (Invited)
0950-1010	Li, Qing	Langmuir turbulence in a diurnal cycle (Invited)
1010-1030	Dong, Jihai	Turbulence regimes in the surface boundary layer globally
1030-1050	Zhang, Xiujie	Effects of submesoscale processes and internal waves on steric height in the mid-latitude ocean
1050-1110	Chen, Si-Yuan (Sean)	Strong abyssal flows induced by surface current instabilities: Implications for benthic storms
1110-1130	Ruan, Xi	Assessing the impact of mesoscale eddy parameterizations on physical and biogeochemical responses under climate change
1130-1150	Zhou, Guidi	Origin of submonthly SST perturbations in the Kuroshio Extension in winter: forced vs intrinsic

BIO-01-Harmful algal blooms under changing climate: mechanisms, monitoring, and mitigation for a sustainable, safe and healthy ocean

Conference Room 2/LiQuan Multi-Function Hall 1 (Building No. 8)

Chairs: Lim, Po Teen | Wang, Dazhi | Gu, Haifeng | Tang, Yingzhong | Li, Jianping

0930-1010	Nagai, Satoshi	Prediction of appearances of plankton species in Mombetsu, Hokkaido, Japan, using AI technology (Invited)
1010-1030	Shang, Lixia	Metagenomic sequencing identifies highly diverse assemblages of dinoflagellate cysts in sediments from ships ballast tanks
1030-1050	Hij, Kieng Soon	Comparative whole transcriptome analysis of toxic and non-toxic <i>Azadinium</i> species (Dinophyceae) (Invited)
1050-1110	Zhou, Muyao	Interspecific interactions between <i>Noctiluca scintillans</i> and <i>Pseudo-nitzschia</i>
1110-1130	Hu, Jiarong	Mapping of four main harmful algal species in the East China Sea (Yangtze River estuary) and their possible response to main ecological status via a global vision
1130-1150	Wang, Hongwei	Stimulated cell growth and physiological response by mariculture <i>in situ</i> DOM, insight from mixotrophic dinoflagellate <i>Prorocentrum donghaiense</i>

PHY-06-Internal Waves in the Ocean: Generation, Evolution and Implication

Conference Room 3/GuangYi Meeting Room (Building No. 8)

Chairs: Bai, Xiaolin | Xu, Zhenhua | Liu, Zhiyu | Chen, Zhiwu

0930-0950	Xu, Zhenhua	High-resolution, non-hydrostatic simulation of internal tides and solitary waves in the southern East China Sea (Invited)
0950-1010	Lai, Zhigang	Numerical study on the spatial and temporal characteristics of nonlinear internal wave energy in the northern South China Sea (Invited)
1010-1030	Li, Qiang	Mean flow due to generation and evolution of internal waves
1030-1050	Robertson, Robin	Tides and tidal mixing at the shelf break in the Timor Sea north of Australia
1050-1110	Yang, Wei	Internal waves, pycnocline shear and turbulence properties in the seasonally stratified Yellow Sea
1110-1130	Chen, Liang	Mooring observed mode-2 internal solitary waves in the northern South China Sea
1130-1150	Zhang, Peiwen	Numerical simulations of internal solitary wave evolution beneath an ice keel

BGC-06-INT-04-Monitoring Ocean Health and Studying the Biological Carbon Pump with the Global Biogeochemical-Argo (BGC-Argo) Array Conference Room 4/LiQuan Multi-Function Hall 2 (Building No. 8) Chairs: Xing, Xiaogang Fassbender, Andrea J. Schallenberg, Christina Organelli, Emanuele		
0930-0950	Claustre, Hervé	Robots Explore Plankton-driven Flux in the marine twilight zone : the REFINE project (Invited)
0950-1010	Strutton, Peter	Progress towards understanding Southern Ocean biogeochemistry using BGC-Argo (Invited)
1010-1030	Cornec, Marin	Connections between North Atlantic Net Primary Production and Net Community Production based on Estimates from Biogeochemical Argo floats
1030-1050	Xue, Cunjin	A value-added spatiotemporal approach for exploring ocean dissolved oxygen from BGC-Argo
1050-1110	Huang, Yibin	Biological activity maintains the seasonal southern ocean carbon sink
1110-1130	Wu, Yingxu	Integrated analysis of carbon dioxide and oxygen reveals ocean processes and sensor performance
1130-1150	Fassbender, Andrea J.	Ocean of uncertainties: Moving toward persistent, real-time monitoring (and improved comprehension) of ocean productivity

BGC-08-Ocean Negative Carbon Emission and Sustainable Development Conference Room 6/QiongLin Meeting Room (Building No. 8) Chairs: Xiu, Peng Zhang, Yao Wells, Mark Andrew Lenton		
0930-0950	Jiao, Nianzhi	Ocean Negative Carbon Emissions: A UN ocean decade program (Invited)
0950-1010	Leung, Kenneth M. Y.	Eco-engineered shoreline designs for promoting marine biodiversity and facilitating carbon neutrality
1010-1030	Hu, Yubin	Impact of olivine addition on seawater carbonate system and microbial community: A laboratory study
1030-1050	Zhou, Linbin	Ocean aluminum fertilization as a negative emission technology
1050-1110	Guo, Jiaying Abby	Investigating the effect of nickel concentration on phytoplankton growth to assess potential side-effects of ocean alkalinity enhancement
1110-1130	Hou, Lei	Dynamics of microbial metabolism on marine snow aggregates

WS-03-Teaching Introductory Aquatic Sciences Courses: Methods to Engage ALL Students

Conference Room 7/Interview Room (Building No. 5)

Chair: Chen, Bob

0930-1150

1150-1330
Lunch (Sea Pearl Café - 2nd Floor, Building No. 8)
BIO-01-Harmful algal blooms under changing climate: mechanisms, monitoring, and mitigation for a sustainable, safe and healthy ocean

Conference Room 2/LiQuan Multi-Function Hall 1 (Building No. 8)

Chairs: Lim, Po Teen | Wang, Dazhi | Gu, Haifeng | Tang, Yingzhong | Li, Jianping

1330-1350	Lim, Po Teen	Emerging Harmful Algal Blooms and recent advancement in Malaysia (Invited)
1350-1410	Zhang, Hao	Multi-omics profiling reveals resource allocation and acclimation strategies to temperature changes in a marine dinoflagellate
1410-1430	Benico, Garry A.	Characterization of bloom-forming, harmful dinoflagellate <i>Takayama sp.</i> associated with the series of fish kill events in the coastal areas of Obando, Bulacan, Central Luzon Philippines (Invited)
1430-1450	Chai, Zhaoyang	Harmful algal blooms significantly reduce the resource use efficiency in a coastal plankton community
1450-1510	Mohddin, Monaliza	Prolonged high biomass diatom blooms induced the formation of hypoxic-anoxic zones in the inner part of Johor Strait (Malaysia)
1510-1530	Leng, Tianze	First observation of <i>Hetercapasa niei</i> (Dinophyceae) from the East China Sea

PHY-06-Internal Waves in the Ocean: Generation, Evolution and Implication
Conference Room 3/GuangYi Meeting Room (Building No. 8)
Chairs: Bai, Xiaolin | Xu, Zhenhua | Liu, Zhiyu | Chen, Zhiwu

1330-1350	Song, Haibin	On the shoaling process of internal solitary waves in the Dongsha region of South China Sea by seismic oceanography method (Invited)
1350-1410	Wang, Zhan	Three-dimensional nonlinear internal waves and signatures (Invited)
1410-1430	Tang, Qunshu	Research series on internal solitary waves using seismic oceanography in northern South China Sea
1430-1450	Yuan, Chunxin	Oblique internal solitary wave-wave interactions in a bidirectional isotropic theoretical model
1450-1510	Gong, Yankun	A directional decomposition method to estimate the reflection and transmission of nonlinear internal waves over a slope
1510-1530	Zhang, Han	Near-inertial waves after a typhoon on a continental slope in the South China Sea
1530-1550	Chen, Zhiwu	Tide-induced near-inertial internal waves (NIWs) and their interaction with wind-induced NIWs

WS-01-Characterization of natural DOM-techniques and solutions
Conference Room 4/LiQuan Multi-Function Hall 2 (Building No. 8)
Chairs: He, Ding | Cai, Ruanhong | Qi, Yulin | Fu, Qinglong | Lu Kaijun

1330-1350	Merder, Julian	Processing and analyzing ultrahigh-resolution mass spectrometry data of dissolved organic matter: Statistical challenges and solutions (Invited)
1350-1410	Shi, Quan	Molecular characterization of dissolved organic matter by high resolution Orbitrap MS
1410-1430	Li, Xiaolin	Molecular and isotopic evidence of diazotroph-derived nitrogen in the marine dissolved organic nitrogen
1430-1450	Lu, Kaijun	Application of stable isotope labeling to trace the formation of refractory dissolved organic nitrogen from free amino acids in the ocean
1450-1510	Fujii, Manabu	Challenges and opportunities in the FT-ICR-MS post-analysis for understanding NOM functions in the engineered systems (Invited)
1510-1530	Liu, Zhanfei	Thermal slicing ramped pyrolysis coupled with GC/MS is a unique tool to provide structural and molecular information of natural DOM
1530-1550	Song, Guixue	Can we isolate marine dissolved organic matter (DOM) using an in-situ device? Recent progress in our laboratory for DOM isolation and extraction from large-volume seawaters

TH-01-SOLAS in the new era: harnessing partnership and transforming science into solutions
Conference Room 6/QiongLin Meeting Room (Building No. 8)
Chairs: Guieu, Cécile | Doorn, Erik van | Latif, Mohd Talib | Li, Li | Mahajan, Anoop | Marandino, Christa | Miller, Lisa | Singh, Arvind | Zhang, Guiling

1330-1550

BGC-08-Ocean Negative Carbon Emission and Sustainable Development
Conference Room 6/QiongLin Meeting Room (Building No. 8)
Chairs: Xiu, Peng | Zhang, Yao | Wells, Mark | Andrew Lenton

1330-1350	Yao, Wanxuan	Are the Earth system models suitable for the assessment of marine-based carbon dioxide removal options?
1350-1410	Wang, Yuntao	Episodic hazardous events nourishes ocean phytoplankton bloom
1410-1430	Gao, Guang	The potential of seaweed cultivation to achieve carbon neutrality and mitigate deoxygenation and eutrophication
1430-1450	Li, Xiao-Jun	Controls of reduced methane emission in the carbon sink region of the North Pacific Ocean
1450-1510	Zhao, Zihao	Activity, metabolism and trophic basis of microbes living in the deep ocean
1510-1530	Keller, David P.	An assessment framework for proposed methods of marine CO ₂ removal (Invited)
1530-1550	Smetacek, Victor	On establishing sustainable aquaculture farms in the open ocean subtropical gyres by artificial upwelling of nutrient-rich deep water (Invited)

GEO-01-Modern and past processes of ocean-atmosphere-climate interactions in the low-latitude western Pacific and Indian Ocean Conference Room 5/YinHe Meeting Room (Building No. 8) Chairs: Steinke, Stephan Mohtadi, Mahyar Groeneveld, Jeroen		
0930-0950	Timmermann, Axel	Regime shift in planetary energy transport during the Mid-Pleistocene transition (Invited)
0950-1010	Zhang, Yige	Connecting warming patterns of the paleo-ocean to our future (Invited)
1010-1030	Zhang, Yazhou	Impact of the South China Sea summer monsoon on the Indian Ocean dipole in CMIP5 models
1030-1050	Botond, Lázár	Rainfall and vegetation changes in the Western Pacific Warm Pool during the last 15.000 years
1050-1110	Yu, Zhaojie	Millennial-scale precipitation variability in the Indo-Pacific region over the last 40 kyr
1110-1130	Hu, Jun	ENSO modulation of the Asian summer monsoon in Last2k paleoclimate data assimilation reconstructions
1130-1150	Mohtadi, Mahyar	A high-resolution reconstruction of SST and paleoproductivity from the Banda Sea, Indonesia across the mid-Brunhes event (last 820 kyr)

1550-1610

Break

Conference Room 3/GuangYi Meeting Room, Building No. 8	
1610-1710	Jiang, Xujia Meet the Editor
FuYuan Hall	
1610-1750	Onsite Poster Session

Thursday, January 12, 2023

Conference Room 1 (MingXiao Hall)		
0830-0910	Galbraith, Eric	Keynote Speech: Learning from fishermen: using global observations of fishing activity to better understand marine animals and their links to biogeochemistry
0910-0930	Break	

BIO-01-Harmful algal blooms under changing climate: mechanisms, monitoring, and mitigation for a sustainable, safe and healthy ocean Conference Room 2/LiQuan Multi-Function Hall 1 (Building No. 8) Chairs: Lim, Po Teen Wang, Dazhi Gu, Haifeng Tang, Yingzhong Li, Jianping		
0930-0950	Deng, Yunyan	"Active" and "inactive" genes in the resting cysts of dinoflagellates detected in laboratory-reared and sediment-buried cysts and possible implications (Invited)
0950-1010	Zhou, Fucang	A Lagrangian-based Floating Macroalgal Growth and Drift Model (FMGDM v1.0): application to the Yellow Sea green tide
1010-1030	Li, Jianping	Towards intelligent <i>in situ</i> imaging observation of marine plankton. (Invited)
1030-1050	Gao, Hang	A case study of <i>in situ</i> observation on particles and plankton in East China Sea by using of the Continuous Particle Imaging and Classification System (CPICS)
1050-1110	Ollevier, Anouk	Lessons learned from <i>in situ</i> plankton imaging in shallow and turbid coastal waters in the Belgian part of the North Sea: a Video Plankton Recorder study
1110-1130	Chen, Tao	Deep focus-extended darkfield imaging for <i>in situ</i> observation of marine plankton
1130-1150	Zhang, Wenguang	Assessment of resins on paralytic shellfish toxins adsorption, with one-year trial in the mussel culture ranch of Zhoushan

PHY-05-Southern Ocean heat uptake and transport in a changing climate Conference Room 3/GuangYi Meeting Room (Building No. 8) Chairs: Liu, Fukai Luo, Yiyong Li, Xichen		
0930-0950	Cai, Wenju	Antarctic shelf ocean warming accelerated by projected increase in El Niño variability. (Invited)
0950-1010	Wang, Dongxiao	Attributing interdecadal variations of southern tropical Indian Ocean dipole mode to rhythms of Bjerknes feedback intensity
1010-1030	Li, Qiuxian	The role of ocean circulation in Southern Ocean heat uptake, transport and storage response to quadrupled CO ₂ . (Invited)
1030-1050	Guo, Guijun	Intrusion of warm modified circumpolar deep water and its impact on dense shelf water formation
1050-1110	Wang, Xiaoqiao	The response of sea ice and high salinity shelf water in the Ross Ice Shelf Polynya to cyclonic atmosphere circulations
1110-1130	Chen, Jia-Jia	Processes controlling the Southern Ocean temperature change
1130-1150	Jing, Wandi	Changes of upper-ocean temperature in the Southeast Indian Subantarctic Mode Water formation region since the 1950s

BGC-02-Towards a more holistic understanding of the biological carbon pump Conference Room 4/LiQuan Multi-Function Hall 2 (Building No. 8) Chairs: Xiang, Yang Shen, Yuan Wang, Wei-Lei Nguyen Trang Belcher, Anna		
0930-0950	Baltar, Federico	Global contribution of pelagic fungi to carbohydrate and protein degradation in the ocean. (Invited)
0950-1010	Liu, Yi	Reduced CO ₂ uptake and growing nutrient sequestration from slowing overturning circulation. (Invited)
1010-1030	Zhu, Xiao-Yuan	Strong particle dynamics counteract the nutrient-pumping effect leading to weak carbon flux in a cyclonic eddy
1030-1050	Fang, Ziming	Top-down coupling of POC and DOC in the northwestern Weddell Sea and its implication for the Antarctic continental shelf pump
1050-1110	Li, Xinxin	POC cycling and microbial activities in the hadalpelagic of the Atacama Trench
1110-1130	Wang, Wei-Lei	Decades of hydrographic data collection reveals a robust picture of the biological carbon pump

BGC-01-Mercury biogeochemical cycling in the ocean Conference Room 5/YinHe Meeting Room (Building No. 8) Chairs: Yanbin Li Wang, Feiyue		
0930-0950	Heimbürger-Boavida, Lars-Eric	Arctic ocean mercury and methylmercury cycling (Invited)
0950-1010	Chen, Jiubin	Progresses in the study of mercury isotope compositions in the ocean (Invited)
1010-1030	Han, Seunghee	Photoproduction and air-sea exchange of dissolved gaseous mercury in the Arctic Ocean (Invited)
1030-1050	Wang, Feiyue	The marine methylmercury myth
1050-1110	Li, Yanbin	Low system efficiency of producing methylmercury controls the current and future risk of mercury in China Coastal Seas
1110-1130	Cui, Xinyun	Exploring the role of the upwelling on particulate mercury dynamics in the California Current ecosystem
1130-1150	Yang, Shaochen	Combining of C, N and specific Hg stable isotopes to track monomethylmercury (MMHg) bioaccumulation in seafood

TUT-01-Tutorial on biogeochemical inverse models Conference Room 6/QiongLin Meeting Room (Building No. 8)		
0930-1130	Wang, Wei-Lei	

WS-02-The Science of Good Science Communication (In-person only) Conference Room 7/Interview Room) (Building No. 5)		
0930-1150	King, Emily	

1150-1410
Lunch (Sea Pearl Café - 2nd Floor, Building No. 8)

Conference Room 1 (MingXiao Hall)		
1410-1450	Hermes, Juliet	Keynote Speech: TBD
1450-1510	Student Poster Award and Closing Ceremony	

Posters

Monday, January 9, 2023

1650-1750

No.	POLIT Seq.	Presenter	Poster Title
Conference Room 1 (MingXiao Hall)			
S-BGC-01-01	1	Eom, Sangwoo	Distribution of dissolved gaseous mercury concentrations and photo-induced reduction rate constants of divalent mercury in the Southern Beaufort Sea
S-BGC-01-02	2	Jeong, Hakwon	Influences of submarine permafrost thawing on mercury methylation in the Arctic shelves of the East Siberian Sea and Beaufort Sea
S-BGC-01-03	3	Zhang, Xiaoyan	Dark reduction of mercury by microalgae-associated aerobic bacteria in marine environments
S-BGC-01-04	4	Zhou, Zhengwen	Spatial and temporal (1936-2019) variation in the pollution status and sources of mercury in the Jiaozhou Bay
S-BGC-02-01	5	Deng, Yueping	Factors regulating the diurnal variation in suspended particulate organic carbon in the euphotic zone of South China Sea basin
S-BGC-02-02	6	Fan, Wenxin	Microbial metabolism and POC attenuation in the euphotic and mesopelagic realm of the oligotrophic west Pacific
S-BGC-02-03	7	Shipan, Hossen	Impact of sediment resuspension on POM properties in the water column revealed by AA molecular indicators
S-BGC-02-04	8	Li, Shasha	The ballast effect of riverine lithogenic matter and its influence on POC fluxes in the ocean
S-BGC-02-05	9	Liu, Yao	Quantification for overestimation of bacterial respiration rates through bottle incubation
S-BGC-02-06	10	Shi, Penglan	Phytoplankton community structure and carbon fixation potential in mangrove protection aquatic area of Dongzhai Harbor
S-BGC-02-07	11	Shi, Zhexuan	Classification of multi-types Carbonic anhydrases (CAs) of dinoflagellate, differential expression pattern and physiological implication in Symbiodiniaceae
S-BGC-02-08	12	Su, Jiaoyang	New estimates of Southern Ocean annual net community production revealed by BGC-Argo floats
S-BGC-02-09	13	Sun, Chengpeng	Characteristics of isoprenoid and branched tetraether lipids in the deep ocean: implications from surface sediments in seamount area of the Western Pacific Ocean

No.	POLIT Seq.	Presenter	Poster Title
Conference Room 1 (MingXiao Hall)			
S-BGC-02-10	14	Zhao, Xin	Particles contributed to microbial respiration in hadalpelagic realm of Atacama Trench
S-BGC-02-11	15	Zhang, Wenjing	Nitrogen limitation increased the cellular carbon content of <i>Emiliana huxleyi</i>
S-BGC-07-01	16	Chen, Zheng	Long-term changes and regulating factors of low-oxygen conditions in the Pearl River Estuary
S-BGC-07-02	17	Jiang, Zhihao	Parameterization of SPM Contribution to PAR Attenuation in the Changjiang Estuary and its Adjacent Waters
S-BGC-07-03	18	Li, He	Ocean deoxygenation enhances photosynthetic performance and increases N ₂ fixation in the marine cyanobacterium <i>Trichodesmium</i> under elevated pCO ₂
S-BGC-07-04	19	Liu, Anqi	Inter-annual variations of dissolved oxygen and hypoxia off the northern Changjiang (Yangtze River) Estuary in summer from 1997 to 2014
S-BGC-07-05	20	Zhang, Zhihao	Revealing sedimentary oxygen consumption contribution to water column total oxygen depletion in very shallow offshore waters via oxygen isotope approach

Note: IDs that begin with “S” are posters presented by graduate students.

No.	POLIT Seq.	Presenter	Poster Title
Conference Room 2/LiQuan Multi-Function Hall 1 (Building No. 8)			
S-BGC-03-01	1	Chen, Xiaoxia	Microbially mediated DOM distribution in cold seep sediments of the South China Sea
S-BGC-03-02	2	Huang, Xiaofang	The development of the analytical method for carbon isotopic analysis of isoprenoids
S-BGC-03-03	3	Li, Jiachen	Refractory particulate organic carbon as the major portion of POC exported by a mangrove system from the Southeast of China
S-BGC-03-04	4	Li, Jiashun	Phytate as a phosphorus nutrient and anti-iron nutrient for phytoplankton: insights from diatom <i>Phaeodactylum tricornutum</i>
S-BGC-03-05	5	Li, Keyuan	Study on solid phase extraction efficiency of lignin in estuary
S-BGC-03-06	6	Zhang, Ruoyang	Seasonal variation and source of organic carbon in aerosols in Xiamen
S-BGC-03-07	7	Zhan, Xiaoqian	The responses of the biodegradation of various dissolved organic matter components from different sources to temperature variation
S-BGC-03-08	8	Zhao, Chen	Improved understanding of photochemical processing of DOM using machine learning approaches

No.	POLIT Seq.	Presenter	Poster Title
Conference Room 2/LiQuan Multi-Function Hall 1 (Building No. 8)			
S-BGC-03-09	9	Zhao, Ruoshi	Characteristics of chromophoric dissolved organic matter in the Northern Andaman Sea
S-BGC-03-10	10	Zhao, Weiqiang	Resolving the transport of terrestrial dissolved organic matter in a small subtropical estuary via FT-ICR-MS and biomarker method under variable fluvial discharge
S-BGC-03-11	11	Zhou, Xiao	Estuarine chemistry of nutrients and dissolved organic matter during summer in the Hanjiang River Estuary, SE China
S-BGC-05-01	12	Dai, Guiyuan	Metagenome insight into methanogenesis pathways from seagrass sediments
S-BGC-05-02	13	Hu, Heng	Effects of Ross Sea Circulation on Biological Transport and Accumulation
S-BGC-05-03	14	Wu, Shuang	Spatial and temporal variations of physical-ecological processes controlled by freshwater plume in the Changjiang Estuary
S-BGC-05-04	15	Zhong, Xihuang	Response to the alternation of seasons about redox-sensitive metals (RSMs) in the porewater of salt marsh wetland: a case of the Yellow River Estuary, China
S-BGC-06\INT-04-01	16	Hu, Qiwei	Seasonal Variability of Phytoplankton Biomass Revealed by Satellite and BGC-Argo Data in the Central Tropical Indian Ocean
S-BGC-06\INT-04-02	17	Nargis, Aklima	Level of polycyclic aromatic hydrocarbons by polyurethane foam-passive air samplers in Bangladesh: Source apportionment and health risk assessment
S-BGC-06\INT-04-03	18	Xu, Chao	Constraining the twilight zone remineralization rate in South China Sea basin: insights from a multi-method intercomparison
S-BGC-06\INT-04-04	19	Xu, Wenlong	Mesoscale eddy modulation of subsurface chlorophyll maximum layers in the South China Sea
S-BGC-08-01	20	Chen, Huanhuan	Australian fire nourishes ocean phytoplankton bloom
S-BGC-08-02	21	Ge, Yuncong	Relationships between phytoplankton composition and environment factors in the Ross and Amundsen Seas during austral summer

Note: IDs that begin with S are posters presented by graduate students.

No.	POLIT Seq.	Presenter	Poster Title
Conference Room 3/GuangYi Meeting Room (Building No. 8)			
S-BIO-01-01	1	Gu, Yifan	Biogeographic patterns of planktonic generalists and specialists along the south to north corridor of Fujian coastal sea
S-BIO-01-02	2	Guo, Guannan	Colorization for in situ marine plankton images
S-BIO-01-03	3	Li, Wei	Application of Imaging FlowCytoBot in Coast of Zhoushan -- Fast Approaching of Unexpected <i>Mesodinium rubrum</i> bloom
S-BIO-01-04	4	Lin, Zhonghao	Massive blooms of <i>Noctiluca scintillans</i> (Dinophyceae) as a response to climate change in Pingtan, Fujian in 2022
S-BIO-01-05	5	Lv, Weihao	Design of a multi-spectral sensor for accurate and real-time detection of harmful algal blooms (HABs)
S-BIO-01-07	7	Wang, Jingtian	Active viral infection on a dinoflagellate during blooms indicates dinoflagellate-viral co-adaptation
S-BIO-01-08	8	Wang, Jinping	Accurate quantification of 18S ribosomal RNA gene copy numbers per single harmful algal cell by digital PCR
S-BIO-01-09	9	Wang, Junyue	Isolation and characterization of a high-efficiency algicidal bacterium <i>Pseudoalteromonas</i> sp. LD-B6 against the harmful alga <i>Noctiluca scintillans</i>
S-BIO-01-10	10	Wang, Yichong	Spring bloom and associated temperature rise and nutrients pulse of the Xiamen Bay: A coupled physical-biological modeling approach
S-BIO-01-11	11	Yang, Feng	Whole genome and transcriptome analysis of natural accessions diversity in the model diatom <i>Phaeodactylum tricornutum</i>
S-BIO-02-01	12	Chen, Ruiying	Impacts of ENSO on Tropical Pacific Chlorophyll Biomass: including historical and RCP8.5 scenarios
S-BIO-02-02	13	Deng, Lixia	Elevated temperature relieves phosphorus limitation of marine unicellular diazotrophic cyanobacteria
S-BIO-02-03	14	Gao, Zuyuan	Mixotrophic green algae adjust the nutritional strategy to different temperature-light conditions
S-BIO-02-04	15	Huang, Le	Effects of Light Intensity on Growth & Photosynthesis of Marine Phytoplankton
S-BIO-02-05	16	Lei, Jiaqi	Effects of temperature on growth and feeding on the mixotrophic dinoflagellate <i>Lepidodinium</i> sp.
S-BIO-02-06	17	Pang, Mengwen	Nutrient concentration influences the thermal response of natural diatoms
S-BIO-02-07	18	Wang, Huan	The effect of ocean acidification on different ecotypes of <i>Synechococcus</i> under iron limited conditions
S-BIO-02-08	19	Wang, Xiaowen	Different biological responses to the 1997-98 and 2015-16 El Niño events in the equatorial Pacific: Did PDO play a role?
S-BIO-02-09	20	Zhang, Xiaodong	Phylogenetic composition of <i>Synechococcus</i> in the cyclonic and anticyclonic eddies in western South China Sea
S-BIO-02-10	21	Zhang, Xin	Effect of ocean acidification and light intensity change on <i>Prochlorococcus</i> under iron limitation

Note: IDs that begin with "S" are posters presented by graduate students.

No.	POLIT Seq.	Presenter	Poster Title
Conference Room 4/LiQuan Multi-Function Hall 2 (Building No. 8)			
S-BIO-03-01	1	Feng, Xuejin	Differentiation and environmental adaptation of Prochlorococcus high-light-adapted clade II
S-BIO-03-02	2	Fu, Qianqian	Reduced salinity exacerbates the viral infection on the coccolithophorid <i>Emiliana huxleyi</i> at elevated pCO ₂
S-BIO-03-04	4	Ma, Minglei	Microbial rhodopsin of <i>Breviolum minutum</i> and its potential function when facing phosphorus deficiency
S-BIO-03-05	5	Wang, Yingxia	Assembly mechanism and co-occurrence pattern of microeukaryotic plankton and their associated prokaryotes in Pearl River Estuary
S-BIO-03-06	6	Yu, Chen	Broad host range of the marine <i>Alteromonas</i> phages
S-BIO-03-07	7	Lin, Xin	Study of communities living on plastic in mesocosms shows ocean acidification has a strong effect
S-BIO-05\INT-06-01	8	Chen, Weili	Assessment of the Impact of Ultraviolet Radiation on Global Marine Primary Productivity Observations
S-BIO-05\INT-06-02	9	Lv, Hang	Seasonal Variability of Satellite-derived Primary Production with an Absorption-based Model in South China Sea
S-BIO-06\INT-07-01	10	Chung, Arthur	Metabarcoding diet analysis of the introduced TGGG hybrid grouper in Hong Kong
S-BIO-06\INT-07-02	11	Ou, Rimei	Simulation Experiment on Environmental Impact of Deep-sea mining: Response of Phytoplankton Community to Polymetal-lic Nodules and Sediment Enrichment in Surface Water
S-BIO-07\INT-08-01	12	Li, Wei	Remote Sensing of Sea Surface pCO ₂ Based on a Random Forest Algorithm (RF) in the Yellow Sea
S-BIO-07\INT-08-02	13	Wang, Changyun	Present and future distributions of cryptophytes in China seas
S-BIO-07\INT-08-03	14	Yan, Lyu	Global ocean dimethyl sulfide characteristics reveal positive feedback with ocean warming using an artificial neural network
S-BIO-07\INT-08-04	15	Zhu, Jie	A review of multivariate statistical analysis in phytoplankton ecology: Based on meta-analysis
S-BIO-08-01	20	Mandal, Arkaprava	Mapping the Changes in Coastal Biotopes of Bay of Bengal- Applicability of Benthic Foraminifera Coenosis as Bioproxy
S-BIO-08-02	21	Sun, Yongxu	Microhabitat thermal environment controls community structure of macrobenthos on coastal infrastructures
BIO-08-03	16	Bhadury, Punyasloke	The response of the largest coastal lagoon of Asia to a very severe cyclonic storm-importance of benthic fauna for ecological assessment
BIO-08-04	17	Liu, Xiaoshou	Response of macrofaunal assemblages to different pollution pressures of two types of ports

No.	POLIT Seq.	Presenter	Poster Title
Conference Room 4/LiQuan Multi-Function Hall 2 (Building No. 8)			
BIO-08-05	18	Ingels, Jeroen	The multiplicity of meiobenthos and Nematoda in detecting and monitoring anthropogenic impacts and change
BIO-08-06	19	Wang, Zhi	To Genus/Species Level: the Strength of Local DNA Barcoding Database in Annotating eDNA-metabarcoding Data

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No.	POLIT Seq.	Presenter	Poster Title
Conference Room 5/YinHe Meeting Room (Building No. 8)			
S-INT-01-01	1	Bai, Xianwei	Ice nucleation ability of laboratory generated potassium salts
S-INT-01-02	2	Deng, Ting	Vertical distribution of particles chemical composition and mixing state in Shenzhen, China
S-INT-01-03	3	Jiang, Yue	Delineation of typhoon induced oceanic responses in northwest Pacific
S-INT-01-04	4	Liu, Qiao	Dynamics and controls of methane oxidation in the aerobic waters of East China Sea and Yellow Sea
S-INT-01-05	5	Lu, Juying	Vertical distribution of chemical composition and mixing state for particles collected over Bohai Sea
S-INT-01-06	6	Luo, Yulan	Evaluation of Meteorological Reanalysis Data over the Tropical Western Indian Ocean Based on Buoy Observations in 2022
S-INT-01-07	7	Ma, Xueying	Interannual Variability of Sea Surface Chlorophyll a in the Southern Tropical Indian Ocean: Local versus Remote Forcing
S-INT-01-08	8	Qi, Murong	Sea Surface Energy flux's response to Quasi-Biweekly Oscillation: A case study in the South China Sea
S-INT-01-09	9	Wang, Jian	Impact on the atmospheric VOCs in the marginal sea of China: the terrestrial outflow from East Asian
S-INT-01-10	10	Wang, Shengkai	The physicochemical properties and ice-nucleating ability of dust particles from the Tengger Desert
S-INT-01-11	11	Wu, Zhiguang	Distribution and influencing factors of Net community productivity in the East China Sea and Yellow Sea in summer
S-INT-01-12	12	Yan, Shibo	High-resolution distribution and emission of dimethyl sulfide (DMS) and its relationship with pCO ₂ in the Northwest Pacific Ocean
S-INT-01-13	13	Yao, Yao	Ice nucleation in mixed organic/inorganic droplets

No.	POLIT Seq.	Presenter	Poster Title
Conference Room 5/YinHe Meeting Room (Building No. 8)			
S-INT-01-14	14	Yi, Mingzhao	Physicochemical property of atmospheric particles collected over Bohai sea
S-INT-01-15	15	Zhang, Tian	Physiochemical properties of atmospheric particles collected over South China Sea in the summer of 2021
S-INT-01-16	16	Zhao, Jun	Size-resolved ice nucleation performance of atmospheric particulates in typical coastal cities
S-INT-01-17	17	Zhong, Qingwen	An Exceptional Indian Equatorial Intermediate Current Event Co-inspired by Monsoon and MJO
S-INT-01-18	18	Zhong, Wenjing	The eddy dipole in the northwestern Bay of Bengal: Characteristics and interannual variability
S-TH-01-01	19	Sitofile, Miranda	Seasonality of physical speciation of dissolved iron and manganese in the open ocean waters of the south Atlantic sector of the Southern Ocean.
S-WS-01-01	20	Chen, Yuling	Targeted and un-targeted screening of emerging organic pollutants by high-resolution mass spectrometry in sewage wastewater during the pandemic of COVID-19
S-WS-01-02	21	Li, Yuguo	Molecular Composition of Marine Dissolved Organic Matter Revealed by UHPLC-Orbitrap MS/MS
S-WS-01-03	22	Zhuo, Xiaocun	Molecular backbone structures characterization of dissolved organic matter using a hydrodeoxygenation method

Note: IDs that begin with “S” are posters presented by graduate students.

No.	POLIT Seq.	Presenter	Poster Title
Conference Room 6/QiongLin Meeting Room (Building No. 8)			
S-PHY-01-01	1	Chen, Lanying	The Arctic sea ice thickness change in CMIP6’s historical simulations
S-PHY-01-02	2	Ji, Jiaoyue	The multiyear variation and mechanisms of the Arctic halocline depth
S-PHY-01-03	3	Liu, Yanchi	Influence of surface types on the seasonality and inter-model spread of Arctic amplification
S-PHY-01-04	4	Liu, Yihan	Evaluating the impact of COVID-19 on Arctic shipping with the AIS records
S-PHY-01-05	5	Wang, Yanlin	The role of frontal dynamics in phytoplankton distributions in the Norwegian Sea slope region
S-PHY-01-07	7	Yang, Shun	A mesoscale eddy with submesoscale spiral bands observed from seismic reflection sections in the Northwind Basin, Arctic Ocean
S-PHY-01-08	8	Zhang, Haohao	A numerical study of the feedback of melt water in the Coupled Arctic Sea Ice-Ocean System

No.	POLIT Seq.	Presenter	Poster Title
Conference Room 6/QiongLin Meeting Room (Building No. 8)			
S-PHY-01-09	9	Zhang, Xiufei	The decadal spatiotemporal variation in AO
S-PHY-01-10	10	Zhao, Min	Relationships between Sea Ice and low-level cloud during Melting Season in the Beaufort Sea
S-PHY-01-11	11	Zhao, Rong	Production of sediment nitrous oxide from macroalgae farms and corresponding climate feedbacks
S-PHY-05-01	12	Chen, Ruonan	A study of Antarctic sea ice change and its mechanism
S-PHY-05-02	13	Luo, Fengyun	Southern Ocean warm bias in CMIP6 models
S-PHY-05-03	14	Masanja, Fortunatus	Exploring HSP90 as a Biomarker for Marine Heatwaves in <i>Pinctada maxima</i>
S-PHY-05-04	15	Wang, Peixi	Revisiting the role of Drake Passage on the interhemispheric asymmetry in global warming
S-PHY-05-05	16	Wei, Zheng	The Thermodynamic and Dynamic Control of the Sensible Heat Polynya in the Western Cosmonaut Sea
S-PHY-05-06	17	Wen, Jianwen	Spatial and temporal differences in N ₂ O distribution and flux over the tip of Antarctic Peninsula and the effect of upwelling
S-PHY-05-07	18	Xie, Chuan	Effects of SAM and ENSO on winter climate over the Ross Sea and the Amundsen Sea
S-PHY-05-08	19	Yang, Chengcheng	Acceleration of Antarctic Circumpolar Current at the Drake Passage during the GRACE era
S-PHY-05-09	20	Chen, Yuanjie	Dynamics for cross-slope exchanges of water masses in the Ross Sea, Antarctica
S-PHY-05-10	21	Zhang, Yihan	Asymmetric warming due to distinct efficiency of seasonal energy transfer mechanism

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No.	POLIT Seq.	Presenter	Poster Title
Conference Room 7/Interview Room (Building No. 5)			
S-PHY-04-01	1	Han, Jiehong	Kuroshio meanders induced downward energy transfer and deep-ocean energy cascade
S-PHY-04-02	2	Hao, Zhanjiu	Dynamics of interannual eddy kinetic energy variability in the Sulawesi Sea
S-PHY-04-03	3	Li, Jintao	The strategies preventing particles transporting into the inlet of the nuclear power plant: mechanisms of physical oceanography
S-PHY-04-04	4	Li, Yixuan	Intraseasonal Variability in Barrier Layer Thickness in the Bay of Bengal and its Causes
S-PHY-04-05	5	Ma, Xiaocong	a 4d-variational ocean data assimilation application for the South China Sea

No.	POLIT Seq.	Presenter	Poster Title
Conference Room 7/Interview Room (Building No. 5)			
S-PHY-04-06	6	Sun, Haowei	The Variability of the Volume Transport in the Taiwan Strait and its Response to Tropical MJO Convection: a numerical approach
S-PHY-04-07	7	Wu, Wei	Large South Equatorial Current Meander in the Southeastern Tropical Indian Ocean Captured by Surface Drifters Deployed in 2019
S-PHY-04-08	8	Xu, Mengdi	Multi-factor governed synoptical winter bloom in the northern South China Sea
S-PHY-04-09	9	Xue, Sihan	Retrieving ocean surface winds and waves from augmented dual-polarization Sentinel-1 SAR data using deep convolutional residual networks
S-PHY-04-10	10	Yang, Guijing	Three-dimensional characteristics of mesoscale eddies simulated by a regional model in the northwestern Pacific Ocean during 2000-2008
S-PHY-04-11	11	Wang, Yifan	Dependence of submesoscale simulation on turbulence closure schemes in the Regional Ocean Modelling System (ROMS)
S-PHY-04-12	12	Yin, Hang	Wave runup and intertidal beach terrain measurements by means of video monitoring
S-PHY-04-13	13	Zhang, Ridong	Relationship between vertical velocity structure and the characteristics of mesoscale eddies and their ecological effects
S-PHY-04-14	14	Zhou, Yifei	Spatiotemporal characteristics and dynamic mechanisms of submesoscale processes in the northern Bay of Bengal based on numerical simulations
S-PHY-06-01	15	Hong, Weiqi	Modified parameterization for near-inertial waves
S-PHY-06-02	16	Ma, Jiajun	On the dissipation of internal solitary wave fission
S-PHY-06-03	17	Mu, Yurong	Variation of NIW energy in the Kuroshio Extension from observed PIES Array
S-PHY-06-04	18	Qian, Xingshang	Effects of different stratification changes on both sides of the typhoon track on near-inertial energy propagation
S-PHY-06-05	19	Tian, Yonghe	Tidal Energetics in Eddying ocean: An investigation in the South China Sea
S-PHY-06-06	20	Wang, Jiannan	Along-slope Bottom Currents Driven by Dissipation of Internal Tides in the northeastern South China Sea
S-PHY-06-07	21	Zhang, Ruijie	Seasonal variations of internal tides near the diurnal critical latitude of the East China Sea Shelf

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Tuesday, January 10, 2023
1610-1730

No.	POLIT Seq.	Presenter	Poster Title
Conference Room 1 (MingXiao Hall)			
S-BGC-09-01	1	An, Lina	Effects of ocean currents and mesoscale eddies on phytoplankton communities in the Northwest Pacific Ocean
S-BGC-09-02	2	Cai, Shujie	Phytoplankton phosphorus stress in the northern South China Sea under the influence of both a river plume and coastal upwelling
S-BGC-09-03	3	Cao, Axiang	Dissolved rare earth elements in the North Pacific Subtropical Gyre: Lithogenic sources and water mass mixing control (CHN GEOTRACES GP09)
S-BGC-09-04	4	Wang, Chengwang	Distribution of Dissolved Iron in the North Pacific Subtropical Gyre
S-BGC-09-05	5	Guan, Wenkai	Estimation of atmospheric iron inputs to the NPSG based on field sampling
S-BGC-09-06	6	Guo, Jiayu	Mixotrophic strategies of nanophytoplankton in the euphotic zones of the northern South China Sea
S-BGC-09-07	7	Jiang, Ruotong	Spatial and seasonal patterns of biological nitrogen fixation in the subtropical western North Pacific and its regulating factors
S-BGC-09-08	8	Jiang, Yucheng	Occurrence and Fate of Hydrogen in the East Indian Ocean
S-BGC-09-09	9	Liang, Qianqian	Potential iron chelating ligands released by the coccolithophore <i>Emiliana huxleyi</i> under iron limitation
S-BGC-09-10	10	Lin, Wen	Microbial degradation dynamics and controls of dissolved organic nitrogen in the north Pacific subtropical gyre
S-BGC-09-11	11	Su, Bei	Factors governing global patterns of alkaline phosphatase activity in the ocean
S-BGC-09-12	12	Xu, Zhuowei	Is the integrity of fish communities threatened by re-oligotrophication? A structural equation modelling analysis in the Bay of Quinte, Ontario, Canada
S-BGC-09-13	13	Yang, Jinchang	Sectional Distributions of Ni and Cu in the Subtropical Northwestern Pacific and Their Relationships to Macronutrients
S-BGC-09-14	14	Zhang, Lusong	Controls of the distributions of dissolved organic carbon, nitrogen, and phosphorus in North Pacific Subtropical Gyre
BGC-07-06	15	Guo, Ruoyu	Microbial community structures and important taxa across oxygen gradients in the Andaman Sea and eastern Bay of Bengal epipelagic waters

No.	POLIT Seq.	Presenter	Poster Title
Conference Room 1 (MingXiao Hall)			
BGC-07-07	16	Han, Yu	Transcriptomic evidences for microbial carbon and nitrogen cycles in the coastal deoxygenated seawaters of China
BGC-07-08	17	Li, Gang	Decreasing O ₂ availability reduces cellular proteins content in a marine diatom
BGC-07-09	18	Su, Bei	Coupled physical-biogeochemical modelling of the oxygen minimum zone in the eastern tropical South Pacific: sensitivity to the southern boundary conditions
BGC-07-10	19	Yao, Runkun	Effect of the dissolved oxygen concentration in seawater on the oxygen consumption rate of the sediment
BGC-07-11	20	Zhao, Changjin	Low dissolved oxygen in the Dongjiang River Network: seasonal variability, regulating factors and management suggestions

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No.	POLIT Seq.	Presenter	Poster Title
Conference Room 2/LiQuan Multi-Function Hall 1 (Building No. 8)			
BGC-01-05	1	Chen, Lufeng	Mass Budget of Mercury (Hg) in the Seawater of Eastern China Marginal Seas: Importance of the Sediment-water Transport Processes
BGC-01-06	2	Goswami, Virendra	Role of Catalytic Oxidants in Remediation of subsurface cum above-ground Water Systems & Marine Pollution through Models of Chemical Reaction Kinetics (MCRK)
BGC-01-07	3	Rosati, Ginevra	Modeling fate and transport of mercury species at different spatial-temporal scales in a polluted coastal lagoon
BGC-01-08	4	Wang, Yingjun	Suspended particulate matter controls distribution, partitioning and transport of mercury in the Yellow River and nearby Estuary
BGC-02-12	5	Liang, Junrong	Spatiotemporal distribution, diversity, and export fluxes of diatoms in the North Pacific Subtropical Gyre
BGC-02-13	6	Liu, Xiaoqing	Influence of terrigenous supply from the African continent on sedimentary CaCO ₃ distribution in the Southeast Atlantic Ocean
BGC-02-14	7	Liu, Xin	Disrupted growth and production periodicities of the warm-adapted copepod in Lake Biwa, Japan
BGC-02-15	8	Lu, Yandu	Sterol biosynthesis in dinoflagellates
BGC-02-16	9	Zhang, Shanshan	Distribution and spatial-temporal variation of organic matter along the Yangtze River-ocean continuum

No.	POLIT Seq.	Presenter	Poster Title
Conference Room 2/LiQuan Multi-Function Hall 1 (Building No. 8)			
BGC-03-12	10	Zhang, Aiyu	Examination on the evolution of molecular size and composition signatures of dissolved organic matter during photo-flocculation process from estuarine waters
BGC-03-13	11	Chen, Xiaofeng	Ubiquitous occurrence of a biogenic sulfonate in marine environment
BGC-03-14	12	Guo, Weidong	DOM turnover: from dark oceans to dark inland waters
BGC-03-15	13	Lin, Hui	Dynamic changes in size-fractionated dissolved organic matter composition in a seasonally ice-covered Arctic River
BGC-03-16	14	Wu, Junwen	Constraining the origin of organic matter in the Hanjiang River estuary using $\delta^{13}C$ and $\delta^{15}N$ in sediment
BGC-03-17	15	Zhu, Peiyuan	Implications of estuary saltmarsh in nitrogen cycling and the effect by invasion vegetation
BGC-05-05	16	Gao, Xuxu	Springtime spatial distributions of biogenic sulfur compounds in the Yangtze River Estuary and their responses to seawater acidification and dust
BGC-05-06	17	Gu, Yuanyuan	Spatial and temporal variations in Fe across the Peruvian shelf from 1984-2017
BGC-05-08	19	Zhu, Xunchi	Incubation experiments to characterize particle-dissolved trace metal (Fe, Mn, Co, Cu, Ni and Cd) dynamics in glacier plumes
BGC-06\INT-04-05	20	Gong, Xiang	Retrieving subsurface chlorophyll maxima in the basin of South China Sea by deep learning
BGC-06\INT-04-06	21	Guo, Mingxian	Enhanced role of intensified eddy and front in Northwest Pacific biological carbon pump observed by BGC-Argo

No.	POLIT Seq.	Presenter	Poster Title
Conference Room 3/GuangYi Meeting Room (Building No. 8)			
BIO-01-12	1	Gu, Haifeng	Metabarcoding revealed a high diversity of Amphidomataceae (Dinophyceae) and the seasonal distribution of their toxigenic species in the Taiwan Strait
BIO-01-13	2	Ji, Nanjing	Transcriptomic response of the harmful algae <i>Heterosigma akashiwo</i> to polyphosphate utilization and phosphate stress
BIO-01-14	3	Lee, Fred Wang-Fat	Algicidal activity of P4, a bacterial strain isolated from an algal bloom in Hong Kong, against <i>Karenia mikimotoi</i>
BIO-01-15	4	Liu, Yuyang	Geographic distribution and historical presence of the resting cysts of <i>Karenia mikimotoi</i> in the seas of China
BIO-01-16	5	Shi, Xinguo	Decoding osmotic-activated regulatory mechanisms occurring with ambient salinity shift in a dinoflagellate

No.	POLIT Seq.	Presenter	Poster Title
Conference Room 3/GuangYi Meeting Room (Building No. 8)			
BIO-01-17	6	Zhang, Shuwen	Community dynamics of free-living and particle-attached bacteria over sequential blooms of heterotrophic dinoflagellate <i>Noctiluca scintillans</i> and mixotrophic ciliate <i>Mesodinium rubrum</i>
BIO-01-18	7	Wu, Zhengchao	Regulation of allelochemical on the dynamics of coastal algal blooms and their potential impacts on the environment and ecology
BIO-01-19	8	Pei, Lulu	Morphologic and phylogenetic characterization of two bloom-forming planktonic <i>Prorocentrum</i> (Dinophyceae) species and their potential distribution in the China Sea
BIO-02-11	9	Huang, Ruiping	Diatoms enhance CO ₂ concentrating mechanisms under moderate ocean warming conditions
BIO-02-12	10	Kong, Liangliang	Long-term adaptive response of an oceanic diatom to copper deficiency
BIO-02-13	11	Fan, Bingxiong	Coupled Land-Sea Warming Dominates the Net Land Carbon Uptake Variability in the Greater Bay Area of South China
BIO-02-14	12	Xu, Yi	Unravelling environmental drivers of chlorophyll seasonal and interannual variability in the East China Sea
BIO-02-15	13	Yi, Xiangqi	Impact of ultraviolet radiation nearly overpowers the effects of elevated pCO ₂ on a prominent nitrogen-fixing cyanobacterium
BIO-02-16	14	Zhang, Di	Eco-Physiological Response of Macroalgae to Ocean Acidification: Results from an <i>In-situ</i> CO ₂ Seep
BIO-03-08	15	Lin, Xin	Ocean acidification alters microeukaryotic and bacterial food web interactions in a eutrophic subtropical mesocosm
BIO-03-09	16	Zhang, Wenjing	Environment drives the co-occurrence of bacteria and microeukaryotes in a typical subtropical bay
BIO-03-10	17	Zhou, Weiguo	Inoculation with plant growth-promoting rhizobacteria enhanced seagrass photosynthesis performance and shifted rhizosphere microbiome
BIO-05\INT-06-03	18	Joaquim, Goes	Comparison of oceanic net primary productivity estimated using absorption versus biomass based models
BIO-05\INT-06-04	19	Ma, Chunlei	Machine Learning Based Long-Term Chlorophyll-a and Total Suspended Solid Concentrations in the Turbid Pearl River Estuary, China
BIO-05\INT-06-05	20	Zhong, Yanping	Modulation of anticyclonic eddies on phytoplankton community under the influence of internal waves
BIO-07\INT-08-05	21	Li, Jiajun	Merits and drawbacks of satellite-AIS and night-time light remote sensing in tracking North Pacific high-sea fisheries
BIO-07\INT-08-06	22	Lu, Wenfang	Remote sensing reconstruction for the chlorophyll-a in the South China Sea: dataset, application, and outlook

No.	POLIT Seq.	Presenter	Poster Title
Conference Room 3/GuangYi Meeting Room (Building No. 8)			
BIO-07\INT-08-07	23	Wang, Yinzhao	Microbial interactions in hydrothermal systems
BIO-07\INT-08-08	24	Xiao, Wupeng	Phytoplankton Community Succession in Coastal Seas and its Response to Global Changes

No.	POLIT Seq.	Presenter	Poster Title
Conference Room 4/LiQuan Multi-Function Hall 2 (Building No. 8)			
S-ENV-01-01	1	Chen, Gaojie	Observation of molecular chlorine and nitryl chloride in the marine environment of southeast China: abundances, sources, and impact on atmospheric oxidation capacity
S-ENV-01-02	2	Fang, Guizhen	Distribution characteristics and sources of volatile halocarbons in the marine atmospheric boundary layer over Northern South China Sea and Northeastern Indian Ocean
S-ENV-01-03	3	Zhang, Rongjie	Critical Role of Iodous Acid in Neutral Iodine Oxoacid Nucleation
S-ENV-03-01	4	Gao, Shike	The different ways microplastics from the water column and sediment accumulate in fish in Haizhou Bay
S-GEO-01-01	6	Li, Wenpeng	Impacts of Climate Change and Human Perturbations on Organic Carbon Burial in the Pearl River Estuary Over the Last Century
S-GEO-01-02	7	Singh, Pradyumna	Late deglacial-middle Holocene evolution of upper water column structure in the eastern equatorial Indian Ocean and its relation to the Indian Ocean Dipole (IOD)-like mean state changes
S-GEO-03\INT-10-01	9	Belasy, Mohamed	Predicting the future of scleractinian corals under the influence of expected climate changes ($p\text{CO}_2$ and temperature)
S-GEO-04-01	10	Huang, Bingyue	Productivity in the Antarctic Zone and its dynamic coupling with atmosphere-ocean-ice processes over 800,000 years
ENV-01-04	11	He, Zhen	Comprehensive investigation on marine-derived halocarbons over the coastal and open ocean of the western Pacific sources, emissions, and environmental effects
ENV-01-05	12	Keng, Fiona Seh-Lin	Emission of brominated volatile halocarbons from farmed tropical seaweeds
ENV-01-06	13	Luo, Yuhan	Study of an Arctic blowing snow-induced bromine explosion event in Ny-Ålesund, Svalbard

No.	POLIT Seq.	Presenter	Poster Title
Conference Room 4/LiQuan Multi-Function Hall 2 (Building No. 8)			
ENV-03-04	15	Wang, Xinhong	Microplastic fluxes to the sea from a subtropical river estuary: evaluated by riverine, underground water input and atmospheric deposition
ENV-03-05	16	Zhu, Zuhao	Fate and mass budget of microplastic in the Beibu Gulf, the Northern South China Sea
GEO-01-04	17	Groeneveld, Jeroen	Reconstructing the Oxygen Minimum Zone in the Arabian Sea using Mn/Ca in planktonic foraminifera
GEO-01-05	18	Steinke, Stephan	Sea surface temperature evolution across the Coral Sea during the last glacial-interglacial cycle
GEO-01-06	19	Li, Nannan	Holocene sea-level change and monsoon climate variation codetermine sedimentary environment evolution in Liaodong Bay, China
GEO-01-07	20	Yu, Fengling	Evolution history of Holocene sedimentary environment in the Dongshan Bay, southern Fujian coast
GEO-03\INT-10-02	21	Li, Tangcheng	Coral bleaching from a nutrient perspective is understudied: A bibliometric survey
GEO-03\INT-10-03	22	Li, Tao	Deep-sea coral evidence for enhanced subglacial discharge from Antarctica during the last deglaciation
GEO-03\INT-10-04	23	Jesus, Amaury De	The living environment of shallow water corals
GEO-03\INT-10-05	24	Yu, Yang	Monthly resolved coral barium isotopes record increased riverine inputs during the South Asian summer monsoon
GEO-04-02	25	Chen, Tianyu	The history of biological pump in the North Pacific ocean desert during the late Pleistocene
GEO-04-03	26	Wan, Sui	Deep-water ventilation changes in the eastern Indian Ocean since the last glacial period

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No.	POLIT Seq.	Presenter	Poster Title
Conference Room 5/YinHe Meeting Room (Building No. 8)			
S-INT-02-01	1	Chen, Mingming	Highly diverse and active diazotrophs and their potential adaptive mechanisms in a shallow submarine hydrothermal system
S-INT-02-02	2	Guo, Xiaolan	Compositions, sources, and transformations of nitrogen in a subtropical watershed, southeastern China
S-INT-02-03	3	Han, Lili	Transition of source/sink processes and fate of ammonium in groundwater along with redox gradient
S-INT-02-04	4	Hu, Xiaohua	Effect of light on the release and transfer of Trichodesmium derived nitrogen

No.	POLIT Seq.	Presenter	Poster Title
Conference Room 5/YinHe Meeting Room (Building No. 8)			
S-INT-02-05	5	Liu, Li	Reduced primary nitrite maximum by cyclonic eddies in the northwest Pacific subtropical gyre
S-INT-02-06	6	Luo, Weicheng	N ₂ fixation in <i>Trichodesmium</i> does not require spatial segregation from photosynthesis
S-INT-02-07	7	Ni, Silin	Disentangle effects of microzooplankton grazing on phytoplankton nitrogen uptake using combined method of nitrogen isotope and dilution technique
S-INT-02-08	8	Pei, Shengxiang	Mangrove-specific anammox bacteria which may originate from sea or land, but live and work well in coastal mangrove wetlands
S-INT-02-09	9	Shang, Yanpeng	The evolutionary strategies of <i>Crocospaera watsonii</i> in the surface oceans
S-INT-02-10	10	Sun, Zekun	Survival the fittest: metabolically versatile ammonia-oxidizing archaea (AOA) adapting to in situ periodically-anoxic environment settle in the mangrove sediments
S-INT-02-11	11	Wu, Sang	Research progress on copper: Relationship with Marine nitrogen cycle, a review
S-INT-02-12	12	Tan, Zuoli	Nitrogen fixation in mangrove water at Dongzhai Port
S-INT-12-01	13	Cai, Lei	Using Habitat Classification and Large-Scale Spatial Planning Model to Identify Environmental Areas: A Case Study in the Area of the Northwest Pacific Ocean
S-INT-12-02	14	Li, Zeming	The Potential Predictability of Marine Surface Chlorophyll in Community Earth System Model
S-INT-12-03	15	Li, Zheng	Scientific challenges and policy opportunities for pilot blue carbon trading in the Guangdong-Hong Kong-Macao Greater Bay Area
S-INT-12-04	16	Lin, Shuangshuang	Effects of crushed manganese nodules on marine surface phytoplankton
S-INT-12-05	17	Shao, Zhibo	Ecological niches of marine diazotrophs
S-INT-12-06	18	Wang, Mengwei	Red tide detection and identification using crosstalk fluorescence spectroscopy analysis algorithm
S-INT-12-07	19	Xie, Le	Assessment of Explicit Representation of Dynamic Viral Processes in Regional Marine Ecological Models
S-INT-12-08	20	Xu, Yangchun	An updated version of marine nitrogen fixation database
S-INT-12-09	21	Xue, Chengwen	A method that enables the transformation of bright-field and dark-field images of medium-sized zooplankton based on Cycle-GAN
S-INT-12-10	22	Zhang, Jingyao	Evaluation the Efficiency of Carbon Fixation in the Mixotrophic Mesodinium and Dinophysis system
S-INT-12-11	23	Zhang, Jinhu	Bioinspired Hydrogel Jellyfish with Mechanical Flexibility and Acoustic Transparency

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No.	POLIT Seq.	Presenter	Poster Title
Conference Room 6/QiongLin Meeting Room (Building No. 8)			
S-PHY-02-01	1	Ren, Chunyu	On the Decadal Variability in the Subpolar North Atlantic Upper-layer Ocean Heat Content
S-PHY-03-01	2	Fan, Linlin	Modulation of atmospheric winds to extreme sea level under climate change framework
S-PHY-03-02	3	Fan, Mingshun	Variations of the Kuroshio Extension Axis Controlled by Local Wind Stress Curl
S-PHY-03-03	4	Huang, Ruhui	The Historical Changes of the Subtropical Gyre Circulation and Associated Sea Level over 1960-2018 in the Pacific Ocean
S-PHY-03-04	5	Liu, Heng	The dynamic mechanism of sea level variation in the Bohai Sea and Yellow Sea
S-PHY-03-05	6	Zhou, Han	Kerama Gup - the "crossroads" of the western boundary current system in the North Pacific Ocean.
PHY-01-12	7	Leng, Hengling	Temporal Evolution of a Geostrophic Current under Sea Ice: Analytical and Numerical Solutions
PHY-01-13	8	Li, Min	Characteristics and transformation of watermass in the Chukchi Sea in winter
PHY-02-02	9	Fu, Yao	Seasonal cycle of the overturning circulation in the subpolar North Atlantic
PHY-02-03	10	Sun, Qiwei	Sea Surface Salinity changes and trans-basin water vapor transport between the Atlantic and Pacific under CMIP6 abrupt-4xCO ₂ scenario
PHY-02-04	11	Wu, Baolan	Oceanic Reemergence Memory Links Atlantic and Pacific Multidecadal Variability
PHY-02-05	12	Zhai, Yujia	The Eastern Atlantic Basin Pathway for the Export of the North Atlantic Deep Waters
PHY-03-06	13	Lyu, Kewei	Understanding ocean warming patterns and changes in meridional ocean heat transport under transient climate change
PHY-03-07	14	Qin, Jianhuang	Mechanism of Interannual Variability of Ocean Bottom Pressure in the South Pacific
PHY-03-08	15	Qu, Ying	Drivers for seasonal variability in sea level around the China seas
PHY-05-11	16	Yu, Lu-Sha	Interannual Variation of Summer Sea Surface Temperature in the Amundsen Sea, Antarctica
PHY-05-12	17	Zu, Yongcan	Changes of Circumpolar Deep Water between 2006 and 2020 in the south-west Indian Ocean, East Antarctica
PHY-06-08	18	Bai, Xiaolin	Internal Solitary Waves Generated by Joint effects of tidal and steady currents
PHY-06-09	19	Xu, Jiexin	Observations of different effects of an anti-cyclonic eddy on internal solitary waves in the South China Sea

Note: IDs that begin with "S" are posters presented by graduate students.

No.	POLIT Seq.	Presenter	Poster Title
Conference Room 7/Interview Room (Building No. 5)			
INT-01-19	1	Banerjee, Dhruva	The Case study of characteristics and vulnerability power of Tropical Cyclone in the Bay of Bengal and the Arabian Sea in 2018 and the possible solar linkage with them.
INT-01-20	2	Zhao, Lisi	Ice nucleation potential of particles collected during dust storm events in March 2021, China
INT-02-13	3	Hou, Lei	Long-term ammonia starvation response of <i>Nitrosopumilus maritimus</i> SCM1 reveals survival strategies of marine ammonia-oxidizing archaea in oligotrophic environments
INT-02-14	4	Yan, Xiuli	Nitrogen dynamics in the upper northern South China Sea
INT-02-15	5	Zhang, Run	Potential link between N ₂ fixation and zooplankton 15N based preliminary results in the South China Sea
INT-12-12	6	Huang, Yuanguang	Swell-driven sediment resuspension in the Yangtze Estuary during tropical cyclone events
INT-12-13	7	Xie, Peiwei	Leading-depression tsunami wave generation in Navier-Stokes Solver
PHY-04-15	8	Ge, Jianzhong	Formation and Breakdown of Offshore Summer Cold-Water Zone and Its Effect on Phytoplankton
PHY-04-16	9	He, Yinghui	Revisit the Vertical Structure of the Eddies and Eddy-Induced Transport in the Leeuwin Current System
PHY-04-17	10	Hui, Yuchao	Seasonal and interannual modulations of subthermocline eddy kinetic energy east of the Philippine coast
PHY-04-18	11	Yu, Kai	Characterizing SST macroturbulence in the Kuroshio Extension on scales 1 - 1000 km using VIIRS and model data
PHY-04-19	12	Liu, Tongya	A global Lagrangian eddy dataset based on satellite altimetry
PHY-04-20	13	Liu, Xiaohui	Cross-Kuroshio modulation of mesoscale eddies on the upwelling near the shelfbreak of East China Sea
PHY-04-21	14	Shi, Fei	Asymmetric modulation of winter mixed layer depth induced by mesoscale eddies alongside the Kuroshio Extension jet
PHY-04-22	15	Zhang, Guang	Wave effects on sediment transport and entrapment in a channel-shoal estuary: The Pearl River Estuary in the dry winter season
PHY-04-23	16	Zhao, Zhonghua	Off-Coast Phytoplankton Bloom in the Taiwan Strait During the Northeasterly Monsoon Wind Relaxation Period: Idealized Model Experiments
WS-01-04	17	He, Ding	Molecular fingerprint database and platform: an exciting path to push frontiers in DOM research

Notes

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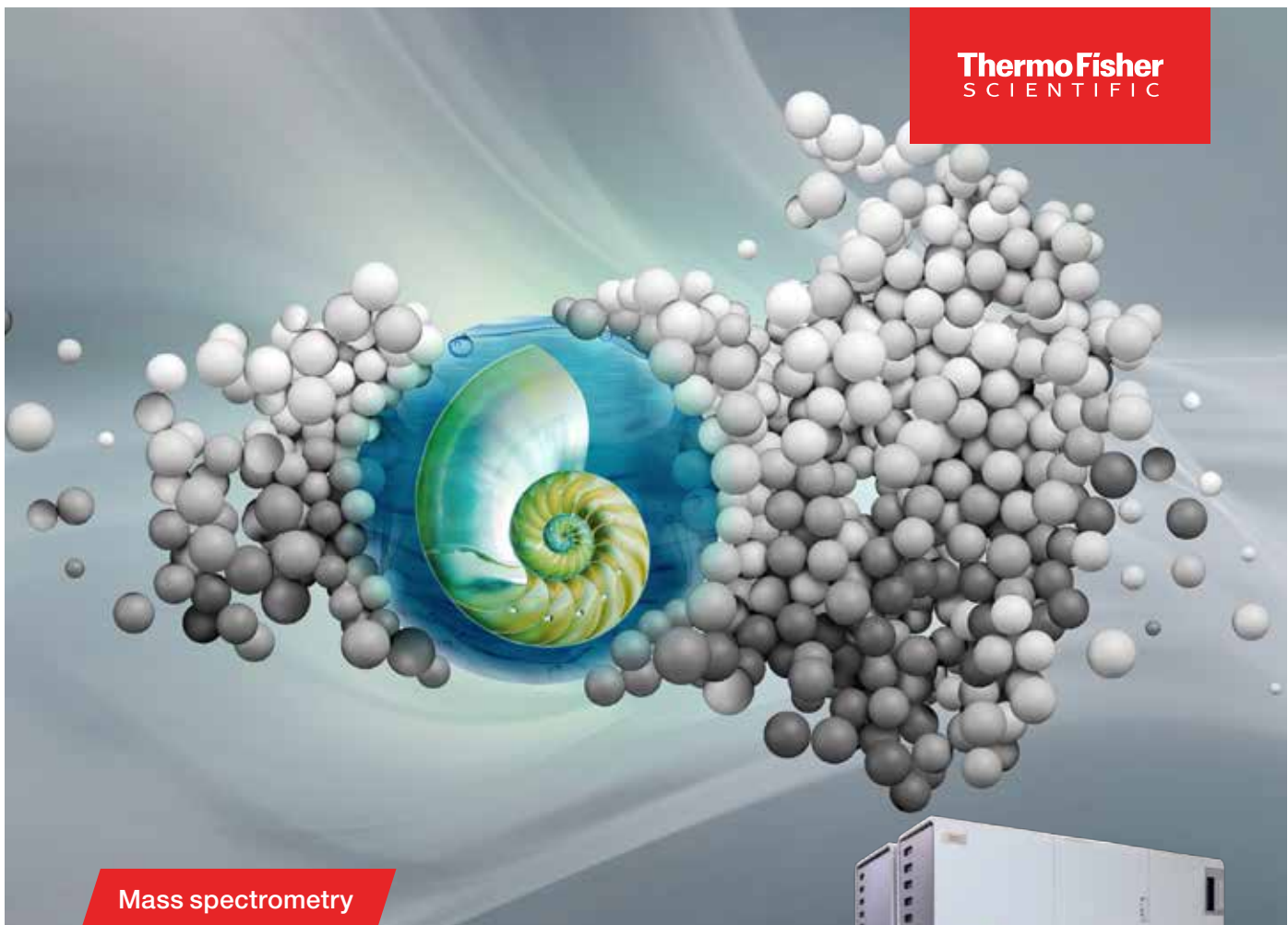
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