



Joint Conference of the
13th International Conference on Tropical
Marine Environmental Changes (MEC) &
6th CLIVAR Climate Dynamics Panel (CDP) Annual Workshop on
“ABRUPT CHANGES AND TIPPING POINTS”

CONFERENCE PROGRAM

April 13-16, 2026

Guangzhou, China

State Key Laboratory of Tropical Oceanography,
South China Sea Institute of Oceanography, CAS

NOTES FOR THE JOINT CONFERENCE

01 ▶ Venue

Nansha Campus, South China Sea Institute of Oceanology (SCSIO)

📍 Address: No. 1119 Haibin Road, Nansha District, Guangzhou, 511458, China

📏 Distances:

- Shenzhen Bao'an International Airport: 51 km (≈ 1 hour drive)
- Guangzhou Baiyun International Airport: 97 km (≈ 1.5 hours drive)
- Nansha North Railway Station: 23 km (≈ 0.5 hour drive)
- Guangzhou South Railway Station: 61 km (≈ 1 hour drive)
- Shenzhen North Railway Station: 70 km (≈ 1.5 hours drive)



02 ▶ On-Site Registration/Check-in

🕒 Time: 12:00-21:00, April 12

📍 Location: Hotel Lobby

03 ▶ Transportation & Dining Arrangements

April
12

Official Conference Dinner (Buffet) 18:00-21:00

Cafe Flora LN Garden Hotel Nansha Guangzhou

Shuttle Bus

18:00/18:40: Guangzhou Nansha Hotel → LN Garden Hotel Nansha Guangzhou

20:00/21:00: LN Garden Hotel Nansha Guangzhou → Guangzhou Nansha Hotel

April
13-15

Dining hall, Nansha Campus, SCSIO

Lunch 12:00

Dinner 17:30

Transportation:

8:00 Hotel → Nansha Campus, SCSIO

19:10 Nansha Campus, SCSIO → Hotel

Shuttle Bus Boarding Point: Near Building 2,
Nansha Campus / Hotel Lobby Exit



Live Photo Streaming

04 ▶ Local Climate

SUN

4-12

MON

4-13

TUE

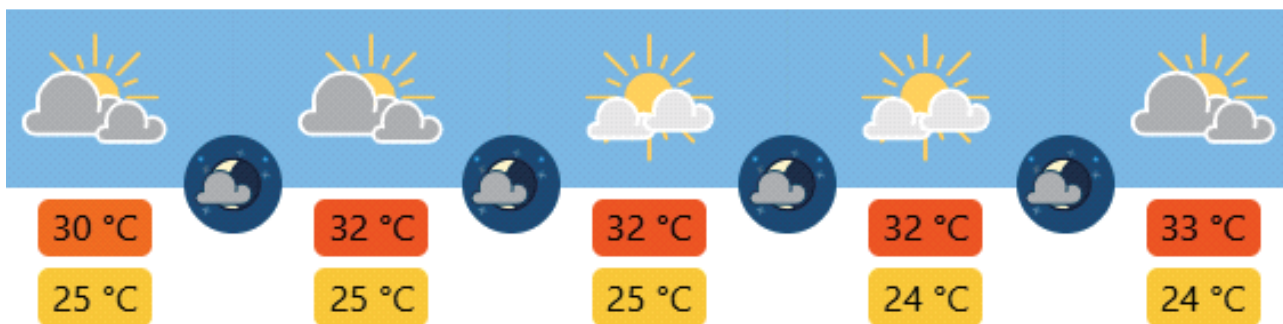
4-14

WED

4-15

THU

4-16



05 ▶ Contact

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PROGRAM

► April 13, Monday

Venue: Conference Room 204, 2nd floor of building 2, Nansha Campus, South China Sea Institute of Oceanology

Time	Title	Speaker & Affiliation	Moderator
08:30-09:00	<p>Opening Remarks</p> <ul style="list-style-type: none"> • Chaolun Li, Director General of the South China Sea Institute of Oceanology, CAS • Haitao Chen, Representative of Bureau of International Cooperation, CAS • Di Zhang, CLIVAR IPO/ Ocean University of China • Lei Zhang, Deputy director of State Key Laboratory of Tropical Oceanography, SCSIO • Yan Du, Director of State Key Laboratory of Tropical Oceanography, SCSIO 		Yan Du
09:00-09:30	Interdecadal shift in the influence of East Asian winter monsoon on El Niño: The role of the Arctic oscillation	Renhe Zhang Fudan University	
09:30-10:00	Tipping dynamics of complex coastal systems	Minhan Dai Xiamen University	
10:00-10:30	Group Photo & Poster Session Convention Hall, 1st Floor		
10:30-11:00	Nonlinear response of ENSO and the IOD to greenhouse warming	Wenju Cai Laoshan Laboratory	
11:00-11:30	Causes and Impacts of the Pattern of Tropical Pacific SST Changes	Matthew Collins University of Exeter	Lei Zhang
11:30-12:00	The key roles of surface waves in Typhoon and climate systems	Fangli Qiao First Institute of Oceanography, MNR	
12:00-14:00	Lunch and Rest 3rd floor of building 3, Dining hall, Nansha Campus, SCSIO		
14:00-14:30	Three-Ocean Interactions and Climate Variability in TBIMIP Pacemaker Experiments	Chunzai Wang South China Sea Institute of Oceanology	

Time	Title	Speaker & Affiliation	Moderator
14:30-14:45	Time-varying heat storage of the Indian Ocean shaped by heat fluxes and the throughflow	Yuanlong Li Institute of Oceanology, CAS	Xin Wang
14:45-15:00	Nonlinear Response of the Indonesian Throughflow to External Greenhouse Gas Forcing and Its Tipping Point	Shijian Hu Hohai University	
15:00-15:15	Compounding sea level rise and climate variability accelerate extreme sea level hazards in western tropical Pacific islands	Kewei Lyu Xiamen University	
15:15-15:30	Potential Rapid Shoaling of the Global Ocean Mixed Layer Driven by Declining Anthropogenic Aerosols and Increasing Greenhouse Gas Forcing	Shangmin Long Hohai University	
15:30-16:00	Poster Session & Afternoon tea		
16:00-16:15	Three-Ocean Influences on Southeastern Pacific MHWs under Super El Niño Conditions	Changming Dong Nanjing University of Information and Technology	Gengxin Chen
16:15-16:30	Amazon deforestation weakens Atlantic Niño variability	Xin Wang South China Sea Institute of Oceanology	
16:30-16:45	Warming pattern formation of surface ocean and emergent constraint on global cloud feedback	Jian Ma Hainan Tropical Ocean University	
16:45-17:00	Emergence of the enhanced equatorial Atlantic warming as a fingerprint of global warming	Lu Dong Ocean University of China	
17:00-17:15	A dynamical model of the tropical Pacific zonal SST gradient change under global warming	Jun Ying Second Institute of Oceanography, MNR	
17:15-17:30	How will Tropical Pacific Trends Affect the Future of the Southern Annular Mode?	Weiteng Qiu Chinese Academy of Meteorological Sciences	
17:30-19:00	Dinner 3rd floor of building 3, Dining hall, Nansha Campus, SCSIO		

► April 14, Tuesday

Venue: Conference Room 204, 2nd floor of building 2, Nansha Campus, South China Sea Institute of Oceanology

Time	Topic	Speaker & Affiliation	Moderator
08:30-09:00	Past and Recent Changes in the Abyssal Southern Ocean: Antarctic Bottom Water Transport and Properties	Kathy Gunn University of Southampton	Qingyou He
09:00-09:30	Amplified Antarctic shelf warming and ice-shelf melt driven by an abyssal overturning slowdown	Matthew England (online) University of New South Wales	
09:30-09:45	Optimal control near polar sea-ice tipping point	Jian Lu Ocean University of China	
09:45-10:00	Geographic Origins of Asymmetric Polar Amplification	Xiao-ming Hu Sun Yat-sen University	
10:00-10:15	Abrupt Warming in the Arctic Ocean Trigger by An Increase in Extreme Events	Ruijian Gou Laoshan Laboratory	
10:15-10:45	Poster Session & Morning tea		
10:45-11:15	AI deep learning for weather-climate forecasts	Jing-Jia Luo Nanjing University of Information and Technology	Xuhua Cheng
11:15-11:30	Non-Stationary Teleconnections Between Tropical Ocean SSTs and Indian Summer Monsoon Rainfall	Bishoyi Ratna Satyaban India Meteorological Department	
11:30-11:45	Mechanisms and Decadal Variability of the Warm-Pool Dipole Mode's Influence on South China Spring Rainfall	Wen Xing South China Sea Institute of Oceanology	
11:45-12:00	UN Decade of Ocean Science for Sustainable Development: Serving Marine Ecological Sustainability	Yuntao Wang International Cooperation Center, Second Institute of Oceanography, MNR	

Time	Topic	Speaker & Affiliation	Moderator
12:00-12:15	The Surface Ocean-Lower Atmosphere Study: from science towards solutions	Li Li SOLAS International Project Office, Xiamen, China	
12:15-14:00	Lunch and Rest 3rd floor of building 3, Dining hall, Nansha Campus, SCSIO		
14:00-14:30	A New Dynamic Regime in the North Pacific Climate System after 2018	Bo Qiu University of Hawaii at Manoa	
14:30-15:00	Global Climate Extremes of 2023-2024 and Record-Breaking Heat in the Kuroshio-Oyashio Region: Drivers and Implications for Future Tipping Points	Shoshiro Minobe Hokkaido University	Jian Lu
15:00-15:15	Diminished subsurface oxygen maximum linked to collapsing North Pacific Central Mode Water	Lixiao Xu Ocean University of China	
15:15-15:30	The multi-year La Niña to El Niño was key to Earth's extreme energy uptake in 2022-2023	Ko Tsuchida RCAST, The University of Tokyo	
15:30-16:00	Poster Session & Afternoon tea		
16:00-16:30	A Climate Regime Shift in the 1990s: From Tropical ENSO Dynamics to Subtropical ENSO Dynamics	Jin-Yi Yu University of California, Irvine	
16:30-16:45	Multi-year La Niña dampens the Southern Oscillation during subsequent El Niño through tropical Pacific-rooted dynamics	Hanjie Fan Sun Yat-sen University	
16:45-17:00	ENSO Forcing of the North Pacific Meridional Mode	Yu Zhang Ocean University of China	Yuanlong Li
17:00-17:15	Mean-state Change and ENSO Diversity Reshape the Indian Ocean Tripole Mode	Mengyan Chen South China Sea Institute of Oceanology	
17:15-17:30	A coupled ocean-atmosphere mode charging extreme El Niño events at onset	Yu Liang The Hong Kong University of Science and Technology (Guangzhou)	
17:30-19:00	Dinner 3rd floor of building 3, Dining hall, Nansha Campus, SCSIO		



► April 15, Wednesday

Venue: Conference Room 204, 2nd floor of building 2, Nansha Campus, South China Sea Institute of Oceanology

Time	Topic	Speaker & Affiliation	Moderator
08:30-09:00	Can we use AMOC variability as a tool to control the surface temperature variation	Aixue Hu National Center for Atmospheric Research	Yunlong Yao
09:00-09:30	Role of natural variability and anthropogenic forcing in Antarctic sea ice variability	Yushi Morioka Japan Agency for Marine-Earth Science and Technology	
09:30-09:45	Has the North Atlantic Deep Water transport strengthened during GRACE era?	Xuhua Cheng Hohai University	
09:45-10:00	Contrasting Responses of Extratropical and Tropical North Atlantic Upper-Ocean Temperature to AMOC Multidecadal Variability under Global Warming in CESM1-LE	Junchao Yang Ocean University of China	
10:00-10:15	Topographic Locking versus Eddy-Driven Meridional Shift of ACC Fronts	Chengcheng Yang Shanghai Jiao Tong University	
10:15-10:45	Poster Session & Morning tea		
10:45-11:15	CO ₂ , orbits, and circulation as competing controls on past climates	James Rae University of St Andrews	Satyaban Bishoyi Ratna
11:15-11:30	Milankovitch theory's low-latitude puzzle	Hu Yang Southern Marine Science and Engineering Guangdong Laboratory (Zhuhai)	
11:30-11:45	Unified Description Model and Typology Classification of Coastal Tipping Points	Zhaoyuan Yu Nanjing Normal University	
11:45-12:00	Indian Ocean Dipole and North Atlantic Oscillation as Key Drivers of Accelerated High Tide Flooding along the U.S. East Coast in Recent Decades	Yingli Zhu Institute of Oceanology, CAS	

Time	Topic	Speaker & Affiliation	Moderator
12:00-12:15	Emergence of decadal linkage between Western Australian coast and Western–central tropical Pacific	Yuewen Ding South China Sea Institute of Oceanology	
12:15-14:00	Lunch and Rest 3rd floor of building 3, Dining hall, Nansha Campus, SCSIO		
14:00-14:15	Sea surface salinity mode in the tropical Indian Ocean and its relationship with Indo-Pacific climate	Yuhong Zhang South China Sea Institute of Oceanology	Yineng Li
14:15-14:30	Integrated Marine Biosphere Research (IMBeR): A Review, Planning, and Platform Development for the Third Decade	Fang Zuo IMBER International Project Office	
14:30-14:45	Shifts in Ocean Dynamics and Marine Productivity in the Bay of Bengal under Extreme Climate Events	K M Azam Chowdhury International Centre for Ocean Governance (ICOG), University of Dhaka	
14:45-15:00	Marine heatwaves in global coral reef zones	Yulong Yao South China Sea Institute of Oceanology	
15:00-15:15	Distinct trends of Arctic sea fog frequency depend on sea ice concentration: observations and model simulations	Shutong Song Ocean University of China	
15:15-15:45	Poster Session & Afternoon tea		
15:45-16:00	International cooperation of First Institute of Oceanography, Ministry of Natural Resource of China	Lin Liu Center for Ocean and Climate Research, First Institute of Oceanography, MNR	Yuhong Zhang
16:00-16:15	The Most Extreme Marine Heatwaves in the Tropical Atlantic since the Satellite Era	Shenglong Li Ocean University of China/ Laoshan Laboratory	
16:15-16:30	Decadal Oceanic Variability Amplified Recent Heatwave in the Northern Hemisphere	Nan Lei Lanzhou University	
16:30-16:45	Abrupt Changes in Upper Ocean Stratification in the Bay of Bengal: Insights from High-Resolution Ocean Analysis	Tahrim Jannat Mowsumi Ocean University of China; First Institute of Oceanography	
16:45-17:00	Numerical Simulation of Suspended Sediment Concentration in the Northern Bay of Bengal	Shakhawat Hossain Ocean University of China	
17:00-17:30	Closing Ceremony & Award		
17:30-19:00	Dinner 3rd floor of building 3, Dining hall, Nansha Campus, SCSIO		



► April 16, Thursday

09:00-12:00	Visit the Haizhu Campus of SCSIO & City Cultural Excursion
12:00-13:00	Lunch
13:00	Return to the hotel

POSTER

Name	Title	No.
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