



PAGES 2025

7th OPEN SCIENCE MEETING
5th YOUNG SCIENTISTS MEETING

Earth System Changes
*from the Past towards
the Future*

PAGES 2025 HANDBOOK

7th OPEN SCIENCE MEETING

21-24 May 2025 | Shanghai, China



中国科学院
CHINESE ACADEMY OF SCIENCES



scnat
swiss academy of sciences

Welcome Message

From the Chairs of Scientific Committee

Dear participants,

Welcome to the PAGES 7th Open Science Meeting. This meeting will focus on “Earth System Changes from the Past towards the Future”. We are honored to host this distinguished gathering of researchers, scholars and professionals dedicated to advancing our understanding of past global changes and their implications for the future.

This conference serves as a vital platform for interdisciplinary dialogue, bringing together experts from diverse fields to share the latest scientific findings, innovative methodologies and emerging perspectives. As we face unprecedented environmental and climatic challenges, fostering collaboration and knowledge exchange has never been more crucial.

Beyond the scientific program, we encourage you to take advantage of the opportunity to connect with colleagues, engage in thought-provoking sessions, and explore the local culture and surroundings. We are committed to creating an enriching and stimulating environment for all participants, and we sincerely appreciate your contributions to making this conference a success.

Warm regards,

Chairs

Martin Grosjean
Zhengtang Guo



1	General Information	Introduction	01
		Organizers and Sponsors	01
		Scientific Committee	02
		Local Organizing Committee	02
2	Logistics	Important Dates	04
		Registration	04
		Meeting Venue	06
		Hotel and Accommodation	08
		Transport and Directions	09
		Catering	11
		Visa Assistance	11
		Accessibility	12
		Practical Information	13
3	Conference Program	Program at a Glance	14
		Plenaries	16
		Social Events and Refreshments	20
		Field Trips	20
		Sessions	21
		Presenter Guidelines	26
4	Timetable	Academic Program	27
5	Appendices	Code of Conduct	104
		Gender Equity and Diversity Statement	105
		Picture Permission Policy	106
6	Acknowledgements		107
7	Contact Us		107

Table of Contents

1 General Information

1.1 Introduction

The PAGES Open Science Meeting (OSM) is the PAGES flagship event held approximately every four years and is a much anticipated fixture on the paleoscience calendar.

Just before the OSM, PAGES will conduct the 5th PAGES Young Scientists Meeting (YSM) from 19-20 May 2025.

The 7th OSM will focus on “Earth System Changes from the Past towards the Future”. This conference aims to promote interdisciplinary scientific exchange and international collaboration, and to strengthen the connections among PAGES communities.

By integrating various spheres of the Earth's system, this conference will illustrate the changes in the key components of the Earth's surface system (air, water, ice, land, life, society, etc.) across timescales, with the ultimate goal of improving predictions for future climate and environment.

Themes

Earth System Changes
from the Past towards the Future

Location Shanghai, China

Dates 21-24 May 2025

Email

pages2025@tongji.edu.cn

Official Website

www.pages2025.org.cn

WeChat Official Account

PAGES 2025



1.2 Organizers and Sponsors



海洋地质
全国重点实验室
State Key Laboratory of
Marine Geology



中国大洋发现计划
INTERNATIONAL OCEAN
DISCOVERY PROGRAM, CHINA

1.3 Scientific Committee

Chairs

Martin Grosjean	University of Bern, Switzerland
Zhengtang Guo	Institute of Geology and Geophysics, Chinese Academy of Sciences, Beijing, China

Members

(in alphabetical order of the surnames)

Ilham Bouimetarhan	University Ibn Zohr, Agadir, Morocco
Aster Gebrekirstos	CIFOR-ICRAF, Nairobi, Kenya
Iván Hernández-Almeida	PAGES International Project Office (IPO), Bern, Switzerland
Fabrice Lambert	Pontifical Catholic University of Chile, Santiago, Chile
Marie-France Loutre	PAGES International Project Office (IPO), Bern, Switzerland
Yair Rosenthal	Rutgers University, New Brunswick, USA
Blas L. Valero Garcés	Spanish National Research Council (CSIC), Zaragoza, Spain
Liping Zhou	Peking University, Beijing, China

1.4 Local Organizing Committee

Co-Chairs

(in alphabetical order of the surnames)

Zhimin Jian	Tongji University, Shanghai, China
Zhifei Liu	Tongji University, Shanghai, China

Members

(in alphabetical order of the surnames)

Yanjun Cai	Xi'an Jiaotong University, Xi'an, China
Haowen Dang	Tongji University, Shanghai, China
Qiaomei Fu	Institute of Vertebrate Paleontology and Paleoanthropology, Chinese Academy of Sciences, Beijing, China
Juzhi Hou	Institute of Tibetan Plateau Research Chinese Academy of Sciences, Beijing, China
Chunju Huang	China University of Geosciences (Wuhan), Wuhan, China
Tiegang Li	First Institute of Oceanography Ministry of Natural Resources, Qingdao, China
Jian Liu	Nanjing Normal University, Nanjing, China
Huayu Lu	Nanjing University, Nanjing, China
Youbin Sun	Institute of Earth Environment Chinese Academy of Sciences, Xi'an, China
Cunde Xiao	Beijing Normal University, Beijing, China
Shiling Yang	Institute of Geology and Geophysics Chinese Academy of Sciences, Beijing, China
Kefu Yu	Guangxi University, Nanning, China
Enlou Zhang	Nanjing Institute of Geography and Limnology Chinese Academy of Sciences, Nanjing, China
Yan Zhao	Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, Beijing, China
Liping Zhou	Peking University, Beijing, China

Secretary General

Shouting Tuo	Tongji University, Shanghai, China
--------------	------------------------------------

2 Logistics

2.1 Important Dates

1 Dec 2023	Call for session proposals
15 May 2024	Deadline for session proposals
1 Aug 2024	Registration and abstract submissions open
10 Dec 2024	Deadline for abstract submissions
1 Mar 2025	Conference program, deadline for early registration
2 Mar - 20 April 2025	Late registration, deadline for hotel reservation is 20 April
20-24 May 2025	On-site registration

2.2 Registration

Types of Registration Fees (including 6% VAT)

Means of participation		Regular participation	Student *	Companion (Spouse or Family)	One-Day Pass	Conference Dinner (Thurs) 22 May 2025
OSM Registration	Early Bird (Thurs) 1 Aug 2024 ~ (Sat) 1 Mar 2025	3000 CNY	1500 CNY	1500 CNY	N/A	400 CNY
	Late Registration (Sun) 2 Mar ~ (Sun) 20 April 2025	3600 CNY	2200 CNY	1500 CNY	1500 CNY	400 CNY
	On-site Registration (Thu) 20 May ~ (Sat) 24 May 2025					
	YSM Registration (for selected participants)			1500 CNY		

Please visit the official conference website to register online. You can update personal information, submit an abstract, register for the conference, check your payment status and book accommodation, as well as field trips in the user center.

After completing your registration, download and print your confirmation email. Once registered, attendees can pick up their conference materials on-site. The registration desk is located in the lobby on the first floor of the meeting venue, open from 12:00 to 20:00 on 20 May, 08:00 to 18:00 on 21-24 May. Please bring your registration confirmation email and valid ID for check-in.

Claim your name badge at the registration desk. Please be sure to wear your name badge at all times, as you will not be able to access the venue without it.

Notes

- One-Day pass is for participants who wish to attend 1 specific day in-person.
- The conference dinner ticket is priced at 400 CNY per person.
- * Undergraduate or postgraduate (Masters/PhD) student.

Online registration is open until midnight Sunday, 20 April 2025 (23:59 CST, UTC/GMT+08). If you would like to register for the event and learn more, please visit the website: <https://www.pages2025.org.cn/Data/List/Register-OSM>

Payment Details

- Credit Card
VISA, MASTERCARD, JCB, American Express
- Alipay, WeChat payment
20 major domestic banks
- Bank (Wire) Transfer
Payment by bank transfer is available until 20 April 2025

Invoice

Attendees may enter their invoice information in the registration system on the official website. After the payment is completed, attendees can fill in the relevant information in the system to obtain the invoice.

Cancellation Policy

Cancellation requests must be emailed to the Conference Secretariat.

Cancellations made before 1 March 2025 will be fully refunded. Participants cancelling before 20 April 2025 will receive a 50% refund. No cancellation allowance is possible from 21 April 2025 onwards.

As an alternative to cancellation, your OSM registration may be transferred to another participant by 20 April 2025 without incurring any cost penalty. The Local Organizing Committee must be advised in writing of any alterations or transfers by this date.

Accompanying person(s): The fees for both the meeting and registration for any accompanying

person(s) will be refunded according to the date of cancellation (see above), whether the main participant attends the conference or not.

There will be no cancellation allowance for failure to secure a visa to China. The organizing committee reserves the right to make the final decision on a case-by-case basis for granting a refund in extenuating circumstances. Check your travel insurance policy to see if it covers problems about obtaining a visa.

Important note: We are entitled to cancel the event or postpone it in the case of Force Majeure (such as a pandemic, natural disaster, public measures, as well as operational disruptions). In such a case, participants will be informed in due time. Participants will be refunded 60% of all payments, if the event is not going to take place; further claims by the participant are excluded in this case.

2.3 Meeting Venue



Plenary Room	– Oriental Hall 1 (3rd floor)
Poster Hall	– Oriental Hall 2 (3rd floor)
Fuyue Hall	– (3rd floor)
Room 1	– No.1 Yuegui Hall (2nd floor)
Room 2	– No.2 Yuegui Hall (2nd floor)
Room 3	– No.3 Yuegui Hall (2nd floor)
Room 4	– No.1 Yuehua Hall (2nd floor)
Room 5	– No.2 Yuehua Hall (2nd floor)
Registration Desk	– Hotel Lobby (1st floor)
Xinxiangyuan	– Catering Area (1st floor)
Manhadun	– Catering Area (1st floor)

Shanghai Fuyue Hotel

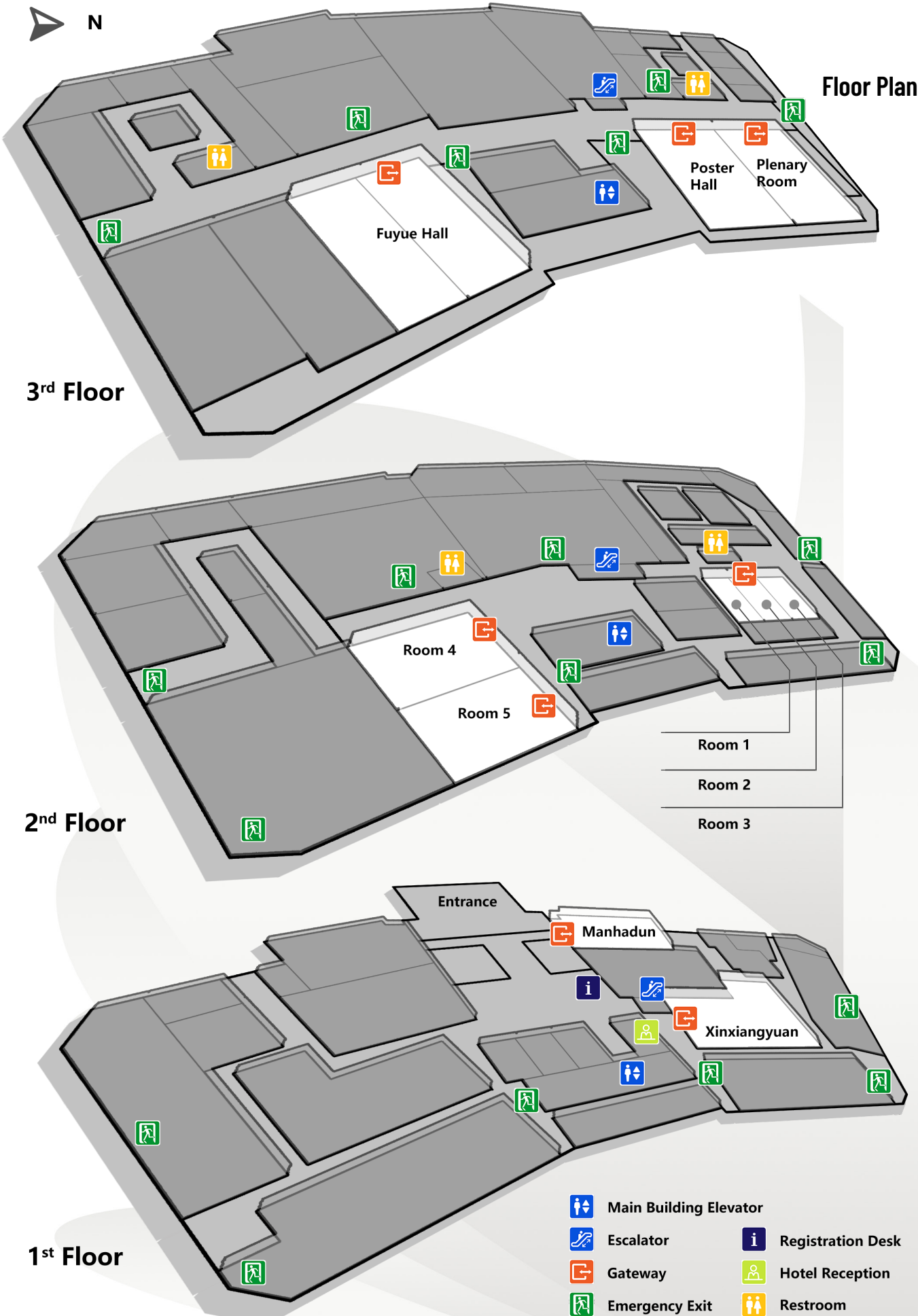
上海富悦大酒店

Address

Lane 208, Rongyue Road, Songjiang District, Shanghai, China

上海市松江区茸悦路 208 号

Claim your name badge at the registration desk. Please be sure to wear your name badge at all times, as you will not be able to access the venue without it.



2.4 Hotel and Accommodation

The PAGES OSM and YSM 2025 Local Organizing Committee have negotiated special rates with Shanghai Fuyue Hotel (Lane 208, Rongyue Road, Songjiang District, Shanghai, China). Below are some details about the hotel.

Please note that hotel reservation is available in the user center (<https://www.pages2025.org.cn/Passport/Login>).

The number of available discounted rooms is limited. We suggest you submit your reservation request as soon as possible.

Please make sure to complete your registration before making a hotel reservation.

Address

Lane 208, Rongyue Road, Songjiang District, Shanghai

Contact

Email: 78552543@qq.com

- Please book your rooms at the Shanghai Fuyue Hotel through the PAGES 2025 user center. If you would like to choose other hotels around the venue, please make reservations through third-party platforms such as Booking and Trip.
- All hotel expenses must be settled directly with the hotel upon check-out, and the invoice of accommodation will be obtained at that time.



Map of hotels around the venue and walking route (red line) from the subway station to the Fuyue Hotel

2.5 Transport and Directions

From Shanghai Pudong International Airport




	By Shuttle Bus	By Taxi	By Metro
Duration	~ 1h 30 min	~ 1h 20 min	~ 2h 30 min
Fare	Free	~ 200 CNY	12 CNY
Additional fee	None	0 to 29 CNY for using the expressway. No extra charges should be applied.	Line 2 (Exit train at Century Avenue) -> Line 9 (Exit train at Songjiang University Town)-> 30-min walk or 7-min by Taxi (additional 16 CNY) from subway station to venue
Operating hours	Every 1 h, from 11:00-20:00	24 h	(Pick up time) 06:30-21:30 (approx.)

From Shanghai Hongqiao International Airport



	By Shuttle Bus	By Taxi	By Metro
Duration	~ 45 min	~ 40 min	~ 1 h 30 min
Fare	Free	~ 120 CNY	8 CNY
Additional fee	None	0 to 7 CNY for using the expressway. No extra charges should be applied.	Line 10 (Exit train at Jiao Tong University) -> Line 11 (Exit train at Xujianghai) -> Line 9 (Exit train at Songjiang University Town) -> 30-min walk or 7-min by Taxi (additional 16 CNY) from subway station to venue
Operating hours	Every 1 h, from 14:00-20:00	24 h	(Pick-up time) 05:26-22:00 (approx.)

From Shanghai Hongqiao Railway Station



	By Taxi	By Metro
Duration	~ 40 min	~ 1 h 30 min
Fare	~ 120 CNY	8 CNY
Additional fee	0 to 7 CNY for using the expressway. No extra charges should be applied.	Line 10 (Exit train at Jiao Tong University) -> Line 11 (Exit train at Xujianghai) -> Line 9 (Exit train at Songjiang University Town) -> 30-min walk or 7-min by Taxi (additional 16 CNY) from subway station to venue
Operating hours	24 h	(Pick-up time) 05:26-22:00 (approx.)



From Shanghai South Railway Station

	By Taxi	By Metro
Duration	~ 50 min	~ 1 h 30 min
Fare	~ 100 CNY	7CNY
Additional fee	0 to 4 CNY for using the expressway. No extra charges should be applied.	Line 15 (Exit train at Guilin Road)-> Line 9 (Exit train at Songjiang University Town)-> 30-min walk or 7-min by Taxi (additional 16 CNY) from subway station to venue
Operating hours	24 h	(Pick-up time) 05:57-22:30 (approx.)



From Shanghai Railway Station

	By Taxi	By Metro
Duration	~ 1h	~ 1 h 30 min
Fare	~ 125 CNY	8 CNY
Additional fee	0 to 7 CNY for using the expressway. No extra charges should be applied.	Line 1 (Exit train at Xujiacui) -> Line 9 (Exit train at Songjiang University Town)-> 30-min walk or 7-min by Taxi (additional 16 CNY) from subway station to venue
Operating hours	24 h	(Pick-up time) 05:30-22:00 (approx.)

- The most convenient choice is to utilize the conference-provided shuttle bus. The staff will be holding a "PAGES 2025" sign at the airport exit to guide you to the shuttle. Attendees arriving at

Shanghai Hongqiao Railway Station who wish to take the shuttle bus can proceed to the nearest Exit of Terminal 2 at Shanghai Hongqiao Airport, where staff will be available to assist.

2.6 Catering

Daily lunch and coffee breaks will be provided at the venue. Attendees should pay attention to catering updates during the conference.

Special Dietary Requirements

If you have special dietary requirements, such as vegetarian, halal meals, or are allergic to

certain ingredients, please let us know via the conference user center - Dietary Preference (<https://www.pages2025.org.cn/UserCenter/DietaryPreference>). Please complete this dietary selection on the conference website by 30 April.

2.7 Visa Assistance for International Attendees

China requires the citizens of many foreign countries to obtain visas to enter the People's Republic of China. If you are not a Chinese citizen and are intending to attend PAGES 2025, please ensure you obtain the correct visa to enter the country. Please check your Chinese consular in your country to verify the entry, exit, visa, vaccination and passport validity requirements for travelling to China.

- You can find information about visas for China at www.visaforchina.cn
- Ensure you apply for the visa at least two months prior to the conference to allow enough time for processing.

China has extended a pilot short-stay visa waiver policy for ordinary passport holders of 38 countries. For more details, please visit the Chinese government website (<http://cs.mfa.gov.cn/wgrlh/lhqz/lhqzjjs/>). Until 31 December 2025, ordinary passport holders from these countries can enter China visa-free and stay for up to 30 days for business and trade, tourism, family and friends visits and transit purposes. Travelers from the above-

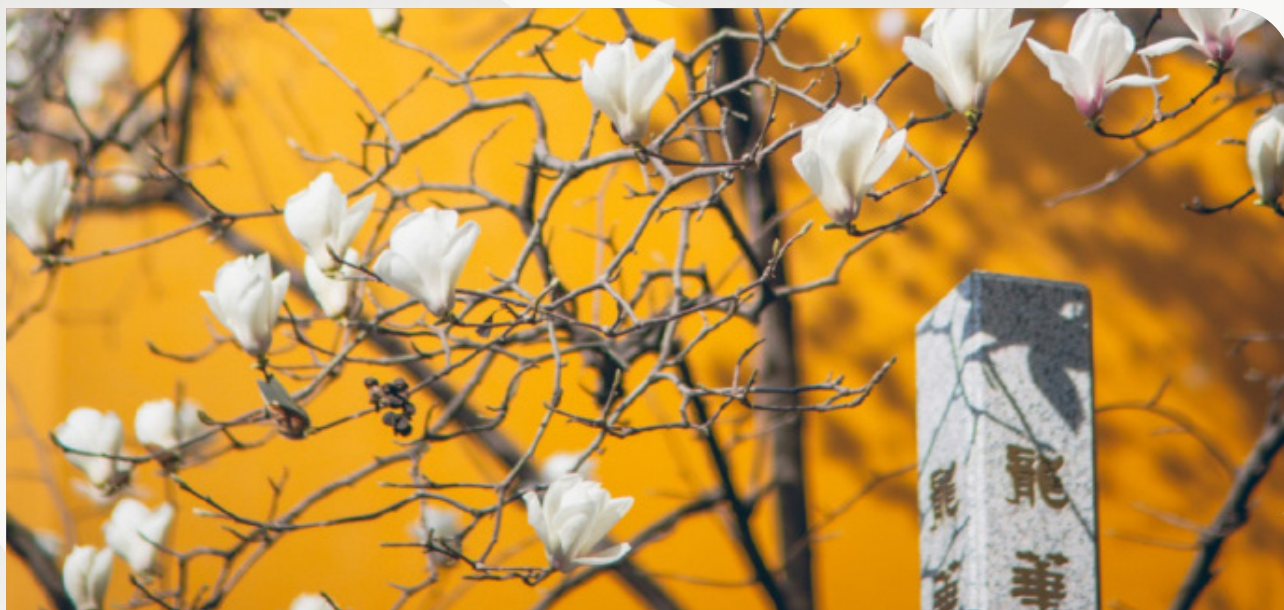
mentioned countries who do not meet the conditions for visa exemption still need to apply for a visa before entering China.

PAGES 2025 Visa Letter

The option to request an invitation letter will be made available during your online registration. The LOC supplies this letter for visa purposes only. For further details, please consult the website of the relevant Chinese Embassy or Consulate General to check the entry and health requirements for China.

List of Chinese Embassies https://www.fmprc.gov.cn/eng/zwjg/zgdsg/2491_665346/

List of Chinese Consulates General https://www.fmprc.gov.cn/eng/gjhdq_665435/2675_665437/



2.8 Accessibility

One Stop Service Point for participants with specific needs

The PAGES OSM and YSM 2025 Local Organizing Committee is committed to accommodating people with disabilities. Before 20 April, please get in touch with pages2025@tongji.edu.cn indicating “Accessibility Services” in advance.

At the PAGES 2025 Information (“Info”) Desk, you will get help and support throughout the whole conference. Please get in touch whenever there is something to be arranged for you!

Accessible Travel in Shanghai

The city’s public transportation system is well-equipped with ramps and elevators. Shanghai offers accessible tourist spots like The Bund

and Yu Garden. Moreover, the city's modern metro system is generally wheelchair-friendly.

International hotels like the Fuyue Hotel often have multiple, accessible room options.

Accessible Accommodation

Please check as soon as possible for accessible rooms - get in touch with pages2025@tongji.edu.cn should you need assistance with accessible accommodation.

Specific Needs Assistants

Our staff will also help you to find your way at the venue.

If you need help during the conference, please don't hesitate to ask for help. You will find assistance at the Info Desk.

If you want to make use of any of the above mentioned services or want to announce other issues, please get in touch as soon as possible by email: pages2025@tongji.edu.cn

2.9 Practical Information

Payment and Currency Tips

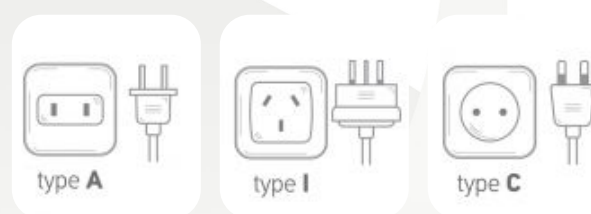
for Foreign Visitors to China

- **Cash:** It's recommended to have some local currency, the Chinese yuan (CNY), with you upon arrival, for immediate expenses. You can exchange foreign currency for CNY in advance before your arrival. Foreign bank cards can be used at ATMs to withdraw CNY. Ensure your card is enabled for international transactions and check for any fees.
- **Credit/Debit Cards:** While international cards like Visa, MasterCard, and American Express are increasingly accepted in Shanghai, for example at airports, in commercial areas and tourist spots, they are not always accepted at smaller businesses, locals shops or street vendors.
- **Mobile Payments:** **Mobile payment platforms like WeChat Pay and Alipay are commonly used in China. You can link your international bank card to these apps for seamless transactions. You'll need to set up an account. Once set up, scanning QR codes at merchants is the most common way to pay.**
- **Tipping:** Tipping is not a common practice in China, and it's not expected in most places. In fact, many restaurants and services include a service charge in the bill.

To learn more, please check <https://english.shanghai.gov.cn/en-BankingServices/>

Electrical Standards in China

Please be advised that China operates on a 220V, 50Hz electrical system. The power outlets typically use Type A, Type I and Type C plugs. We recommend bringing a suitable power adapter for your devices to ensure they work properly during your stay, if necessary, a voltage converter to ensure safe usage to avoid any inconvenience.



Emergency Numbers

For your safety and convenience during your stay in China, please take note of the following emergency contact numbers:

Police: 110

Fire Emergency: 119

Medical Emergency: 120

Traffic Accidents: 122

A medical station is located on the first floor of Fuyue Hotel.

For questions or further information, please email us at pages2025@tongji.edu.cn.

For urgent matters, please call Shouting Tuo at +86-136 0187 2997.

20 May (Tuesday)	Venue	21 May (Wednesday)	22 May (Thursday)	23 May (Friday)	24 May (Saturday)	
		Opening Keynote 1	Keynote 3	Keynote 5	Keynote 7	
08:15-08:30 (21 May)	On-site Registration /Check-in (12:00 - 20:00 on 20 May, 08:00 - 18:00 on 21-24 May)	Plenary Room	Opening Ceremony			
08:30-10:00 (22-24 May)			Thomas Felis	Daniela Kröhling	Nathalie Dubois	Thomas Laepple
			Ran Feng	Qing Pei	Nikita Kaushal	Benjamin Horton
10:00-11:00			Coffee			
		Poster Hall	Posters (Session 20, 31 half)	Posters (Session 30, 31 half)	Posters (Session 09)	Posters (Session 15, 06)
		Oral Presentations 1 Oral Presentations 3 Oral Presentations 5 Oral Presentations 7				
11:00-12:30		Room 1	Session 04	Session 27	Session 09	Session 02
		Room 2	Session 19	Session 07	Session 15 (1)	Session 15 (2)
		Room 3	Session 31 (1)	Session 31 (3)	Session 03 (1)	Session 21
		Room 4	Session 18 (1)	Session 28 (1)	Session 24 (1)	Session 16 (1)
		Room 5	Session 01 (1)	Session 23 (1)	Session 22 (1)	Session 22 (3)
12:30-14:00			Lunch			
		Poster Hall	Posters (Session 04, 19, 18)	Posters (Session 28, 23)	Posters (Session 03, 24)	Posters (Session 16, 21)

- Poster Presentation Schedule: Each poster will be displayed for either 21-22 May or 23-24 May. Authors presenting posters are required to be present at their respective posters during the designated poster session times for discussion.
- (1), (2), (3), (4): Time slot numbers indicate the first, second, third, and fourth sessions of the respective topic. Each time slot is 90-minutes long and includes six oral presentations. Sessions with only one time slot will not be marked with a time slot number.
- The meeting will start at 8:30 daily from 22 May. Note that the first day will commence at 8:15.

20 May (Tuesday)		Venue	21 May (Wednesday)	22 May (Thursday)	23 May (Friday)	24 May (Saturday)	
Oral Presentations 2 Oral Presentations 4 Oral Presentations 6 Oral Presentations 8							
14:00-15:30	On-site Registrations /Check-in (12:00 - 20:00 on 20 May, 08:00 - 18:00 on 21-24 May)	Room 1	Session 12	Session 29	Session 06	Session 05	
		Room 2	Session 25	Session 14	Session 17	Session 15 (3)	
		Room 3	Session 31 (2)	Session 31 (4)	Session 03 (2)	Session 08	
		Room 4	Session 18 (2)	Session 28 (2)	Session 24 (2)	Session 16 (2)	
		Room 5	Session 01 (2)	Session 23 (2)	Session 22 (2)	Session 13	
15:30-16:30			Coffee				
		Poster Hall	Posters (Session 01, 12, 25)	Posters (Session 29, 14, 07, 27)	Posters (Session 17, 22, 02)	Posters (Session 11, 26, 05, 08, 13)	
			Keynote 2		Keynote 4	Keynote 6	Panel Discussion on IPCC Closure
16:30-18:00		Plenary Room		Haowen Dang	Kaustubh Thirumalai	Laurie Menviel	16:30-17:30 Thomas Stocker Fabrice Lambert Aditi Dave
				Asfawossen Asrat	Chenxi Xu	Massanobu Yamamoto	17:30-18:30 Closing Ceremony
18:30-20:30	OSM Icebreaker	Fuyue Hall		Conference Dinner			

Legend Notes



Sessions include 1 slot



Sessions include 2 slots



Sessions include 3 slots



Sessions include 4 slots



Keynote

3.1 Program at a Glance

3.2 Plenaries

Invited Speakers

(in alphabetical order of the surnames)



Nathalie Dubois

Societal impacts on the Earth System - from the past towards the future

Department of Surfaces Waters Research + Management,
Eawag, Dübendorf, Switzerland
Department of Earth Sciences, ETHZ, Zürich, Switzerland

08:30-09:15 **23 May**



Thomas Felis

Time scales of climate change and environmental stress across the tropical oceans

MARUM-Center for Marine Environmental Sciences, University
of Bremen, Bremen, Germany

08:30-09:15 **21 May**



Ran Feng

Integrating geological archives and climate models to understand the pliocene and inform the future

Department of Earth Sciences, University of Connecticut, Storrs,
CT, USA

09:15-10:00 **21 May**



Benjamin Horton

Sea-Level Science in Singapore and Southeast Asia

The School of Energy and Environment, City University of Hong
Kong, China

09:15-10:00 **24 May**



Nikita Kaushal

SISAL the speleothem and cave monitoring database: Enabling modern karst water estimates to understanding past rapid climate changes

Earth and Planetary Sciences Department, American Museum of Natural History, New York, USA

09:15-10:00 **23 May**



Daniela M. Kröhlting

Quaternary geology of south america at multiple scales: A key to understanding hydroclimatic extreme events

Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET) and Universidad Nacional del Litoral (UNL), Santa Fe, Argentina

08:30-09:15 **22 May**



Thomas Laepple

The space-time structure of climate variability

Alfred-Wegener-Institut Helmholtz-Zentrum für Polar- und Meeresforschung MARUM—Center for Marine Environmental Sciences and Faculty of Geosciences, University of Bremen, Bremen, Germany

08:30-09:15 **24 May**



Qing Pei

History of climate and society: climate reconstruction and impact based on archives of societies in china

Department of Land Surveying and Geo-Informatics, Department of Chinese History and Culture, The Hong Kong Polytechnic University, China

09:15-10:00 **22 May**

Keynote Speakers

(in alphabetical order of the surnames)



Asfawossen Asrat

Rain or Shine: Hominin evolution and dispersal in response to environmental shifts – insights from a ~620 kyr climate record from Lake Chew Bahir in eastern Africa

School of Earth Sciences and Engineering, Botswana International University of Science and Technology, Palapye, Botswana

17:15-18:00 **21 May**



Haowen Dang

Western tropical Pacific as the heat and moisture engine: From late Quaternary to deeper and recent times

State Key Laboratory of Marine Geology, Tongji University, Shanghai, China

16:30-17:15 **21 May**



IPCC Session | Aditi Dave

The opinion of the ECR network at large

University of Lausanne, Switzerland

16:55-17:00 **24 May**



IPCC Session | Fabrice Lambert

Plans for AR7; How you can contribute to AR7

Climatology at the Pontificia Universidad Catolica de Chile, Chile

16:45-16:55 **24 May**



Laurie Menviel

Role of the Southern Ocean in changes of past atmospheric CO₂ and implications for the future

Climate Change Research Centre, University of New South Wales, Australia

16:30-17:15 **23 May**



IPCC Session | Thomas Stocker

The role of paleo in IPCC assessments, game-changing paleo contributions to IPCC assessments since FAR

Climate and Environmental Physics at the University of Bern, Switzerland

16:30-16:45 **24 May**



Kaustubh Thirumalai

Future increase in extreme El Niño supported by past glacial changes

Department of Geosciences, University of Arizona, USA

16:30-17:15 **22 May**



Chenxi Xu

Impact of global warming on the Asian summer monsoon

Key Laboratory of Cenozoic Geology and Environment, Institute of Geology and Geophysics, Chinese Academy of Sciences, Beijing, China

17:15-18:00 **22 May**



Masanobu Yamamoto

Pleistocene CO₂ variability inferred from the Bay of Bengal leaf-wax carbon isotopes

Faculty of Environmental Earth Science, Hokkaido University, Japan

17:15-18:00 **23 May**

3.3 Social Events and Refreshments

Icebreaker

TIME

18:30-20:30, 20 May

VENUE

Fuyue Hall (3rd floor)

Conference Dinner

TIME

18:30-20:30, 22 May

VENUE

Fuyue Hall (3rd floor)

- The icebreaker is open to all registered participants and everyone is welcome to attend. However, the conference dinner is exclusively available to those who paid for the dinner during the conference registration process.
- Coffee Breaks will be available in the venue during the times allocated for oral presentations. Refreshments will also be available during the poster sessions.

3.4 Field Trips

A short (1 day) and two longer field excursions will be organized for delegates and accompanying persons between 25 and 28 May 2025, and the registration deadline for the field trips is 31 March. The specific information will be directly sent to those who have registered for field trips.



Chongming Island



The Hulu Cave



Loess Plateau

Route 1 Chongming Island and National Wetland Park in the Changjiang Delta, Shanghai

25 May 2025
One day

Route 2 The Hulu Cave—High-Resolution Record of East Asian Monsoon and Anthropologic Evolution, Jiangsu Province

25–26 May 2025
Two days

Route 4 The Yellow River Basin—Geological Fieldtrip to Ancient Chinese Heritage, Shaanxi Province

25–28 May 2025
Four days

3.5 Sessions

Num. of pages

- 01 Hydroclimate of the Common Era (The 2k Network)**
Conveners: Alyssa Atwood, Georgy Falster, Benjamin Henley, Matthew Jones, Lukas Jonkers, Nikita Kaushal, Anaïs Orsi
- 02 Scales and scaling in the climate system: Climate, macroclimate, megacclimate**
Conveners: S. Lovejoy, R. Hébert, K. Rehfeld, C. Franzke, J. Fan, A. Spiridinov, F. Lambert
- 03 Human Traces of Earth system changes**
Conveners: Guangjie Chen, Sakonvan Chawchai, Nathalie Dubois
- 04 Transdisciplinary approach to address environmental issues**
Conveners: Qiaoyu Cui, Charuta Kulkarni, Laurent Marquer, Estelle Razanatsoa, Michal Slowinski
- 05 Understanding drivers of paleo sea-level changes through proxies and modeling**
Conveners: Juliet Sefton, Matteo Vacchi, Tamaro Pico, Roger Creel, Holly Han
- 06 Reconstructing marine responses: Oxygen and pH dynamics through time**
Conveners: Helena L. Filipsson, Xiaoyi Guo, Babette Hoogakker, Dominik Hülse, Katrin Meissner, Sha Ni, James Rae, Jimin Yu, Shuzhuang Wu

33
39
40

80
88

69
71
76

31
34

95
99

75
86

07 The end of the '41-kyr world' and the transition to the '100-kyr world'

Conveners: Daniel Baggenstos, Laurie Menviel, Joel Pedro, Chronis Tzedakis, Xu Zhang

49
61

08 Leveraging paleoecology for sustainable ecosystem restoration in the Anthropocene

Conveners: Ke Zhang, Estelle Razanatsoa, Ondřej Mottl, Lindsey Gillson

96
100

09 Pleistocene to Common Era climate reconstructions and insights from speleothem and allied archives

Conveners: Jun Hu, Haiwei Zhang

66
68

11 New horizons for paleosciences outreach

Conveners: Boris Vannière, Iván Hernández-Almeida

98

12 Arctic to sub-Arctic climate evolution during the Quaternary and their impact on modulating paleoclimate and paleoceanographic change worldwide

Conveners: Harunur Rashid, Matt O'Regan, Wenshen Xiao, Li Wu, Min Zeng

37
42

13 Assessing plants diversity in time and space may help conservation approaches

Conveners: Rachid Cheddadi, Kangyou Huang

97
101

14 Atmospheric paleo-particles and global environmental impacts

Conveners: Steve Pratte, François De Vleeschouwer, Zhiwen Dong, Gaël Le Roux, Weijun Li

56
60

- 15 Climate and environmental changes in permafrost regions: Paleoecological perspectives**
Conveners: Olga Solomina, Elena Novenko, Xiaolin Hou, Yukun Fan, Natalia Kuzmenkova
- 68 84
88 95
- 16 Emerging physical and geochemical proxies in sedimentary paleoclimate studies**
Conveners: Nazik Ogretmen, Stergios Zarkogiannis, Sonal Khanolkar, Charlotte Prud'homme, Yama Dixit, Stephen Obrochta
- 89
91
96
- 17 Eolian processes and landscape dynamics in drylands**
Conveners: Peng Liang, Andrew Gunn, Abi Stone, Yue Li, Xiaokang Liu
- 75
78
- 18 Exploring rapid cultural change: Tipping points, cascading impacts and human societal evolution**
Conveners: Martin Hinz, Albert Hafner
- 32
36
38
- 19 Historical climate reconstruction and societal impacts from written records**
Conveners: Sam White, Qing Pei, William Hutchison, Heli Huhtamaa
- 31
35
- 20 Paleoclimate for sustainable water strategies**
Conveners: Charlie Marshall, Kelsey Murphy, Jiayue Yin
- 28
- 21 Millennial-scale changes in tropical precipitation: Lessons from the past for a changing future**
Conveners: Cristiano M. Chiessi, Martina Hollstein, Haiwei Zhang, Ilham Bouimetarhan, Francisco W. Cruz, Hai Cheng
- 89
93

22 Understanding thresholds, tipping points, and abrupt climate change across different spatial-temporal scales

Conveners: Aixue Hu, Martin Grosjean, Ilham Bouimetarhan, Bette Otto-Bliesner, Frerk Pöppelmeier

70 77
78 90

23 Advancing climate prediction with paleoclimate data and models

Conveners: Pedro DiNezio, Timothy Shanahan, Jiang Zhu, Bette Otto-Bliesner

51
53
58

24 Pacific, Indian and Atlantic: Tropical climate mean-state and variability across time scales

Conveners: Isma Abdelkader Di Carlo, Pascale Braconnot, Josephine Brown, Chris Brierley, Matthieu Carré, Mary Elliot

69
72
76

25 Interdisciplinary perspectives on tephra and volcanic hazards in the context of climate change

Conveners: Shuang Zhang, Chunqing Sun, Victoria Smith, Feng Shi, Simon Blockley

37
43

26 Contribution of past fire time-series and models to fire science across the Earth system

Conveners: Boris Vannière, Douglas I. Kelley, Chantelle Burton, Douglas S. Hamilton

98

27 Reconstructing intermediate circulation and water mass properties through time

Conveners: Norbert Frank, Isabelle Gil, Graeme MacGilchrist, Lélia Matos, Nazik Ogretme

49
62

- 28 Southeast Asian monsoon evolution during the Quaternary: Records, synthesis and model results**
Conveners: Harunur Rashid, Shengfa Liu, Rong Xiang, Yang Wang
- 29 The missing piece: Holocene records from remote areas**
Conveners: Nannan Li, Giorgia Camperio, Tobias Schneider, Ronald Lloren, Nathalie Dubois
- 30 Holocene coastal marine environments in the Arctic: Proxy records and development**
Conveners: Beth Caissie, Maija Heikkilä, Anna Pieńkowski, Christof Pierce
- 31 Open session on past global changes**
Conveners: Marie-France Loutre, Iván Hernández-Almeida, Martin Grosjean, Liping Zhou

50

52

57

56

59

46

28 32

38 46

50 57



3.6 Presenter Guidelines

Oral Presentation

Oral presentations are organized in sessions scheduled in specific lecture rooms, which is indicated in this program.

- Each oral presentation is 15 minutes. The presentation length includes the time for change-overs and discussion. The allocated presentation time cannot be exceeded!
- All sessions are run on-site using the lecture room settings for in-person attendees. There is no virtual option available.
- The presentation slides for the morning sessions must be uploaded to the computer using a usb stick in the corresponding meeting room half an hour before the start of the first presentation. Slides for the afternoon sessions must be uploaded half an hour before the start of the afternoon meeting. Alternatively, presenters may copy their presentation slides to the designated registration desk computer during registration on 20 May.
- There will be one computer available. Switching between computers will not be possible.
- Presentation slides are suggested to be saved in *.pptx or *.pdf formats with aspect ratio of 16:9 to have an optimum use of the screen. Please remember to use a conventional font (Arial, Times New Roman, Calibri) in order to avoid unwanted font distortion while presenting.

Official language

The official language of the conference is English. Simultaneous translation is not available. It is therefore expected that authors are able to present their research more or less fluently in the English language.

Poster Presentation and Attendance

Presenters are required to print their own posters and bring them to the Poster Hall. The posters can be displayed for 2 consecutive days during the conference. Each poster is assigned with a poster ID.

- Participants can also print their posters at the printing shop near the conference venue. More detailed information will be provided during on-site registration.
- Poster boards are in portrait A0 format, and authors can make use of the full dimensions of 841 mm width × 1189 mm height.
- Removable tapes for attaching posters to the poster board are available in the Poster Hall. Additional tapes can be requested from the facility desk in the poster area.
- Presenters are kindly requested to put up their posters either on 21 or 23 May before 8am of their allocated display time. The poster can remain hanging for extended discussion for either 21-22 May or 23-24 May, but the presenter must be present at the poster for their attendance time (1/1.5 hour) indicated in the timetable.
- Posters must be removed by 6pm either on 22 or 24 May; any remaining posters will be removed and discarded by conference staff.

4 Timetable

Academic Program

Plenary room

Opening Ceremony

Chair: Marie-France Loutre

Time	Speaker	Affiliation
08:15-08:20	Zhaohui Wu	Chinese Academy of Sciences, Beijing, China
08:20-08:25	Martin Grosjean	University of Bern, Bern, Switzerland
08:25-08:30	Zhimin Jian	Tongji University, Shanghai, China

Keynote 1

Chair: Yan Zhao

Time	Title	Speaker	Affiliation
08:30-09:15	Time scales of climate change and environmental stress across the tropical oceans	Thomas Felis	MARUM-Center for Marine Environmental Sciences, University of Bremen, Germany
09:15-10:00	Integrating geological archives and climate models to understand the Pliocene and inform the future	Ran Feng	Department of Earth Sciences, University of Connecticut, Storrs, CT, USA

ORAL

Wed. 21 May

Poster Sessions

10:00-11:00

Session 20. Paleoclimate for sustainable water strategies

No.	Title	Presenter	Abstract ID
S20-P-1	Prehistoric climatic extremes and collapses of Indus valley civilization: A valuable insight for transboundary river basin governance to climate change adaptation in South Asia in twenty first century	Prakash Tiwari	A0223
S20-P-2	Greater Azau Glacier history during the late Holocene (Northern Caucasus, Russia)	Olga Solonina	A0537
S20-P-3	Sustainability of semi-arid ecosystems under hydrological extremes and anthropogenic impacts: The case of Iriki Lake in southern Morocco	Athmane Khettouch	A0996
S20-P-4	The temperature changes during past 2000 years reconstructed from the Dundee ice core on the Tibetan Plateau	Ji De	A1019

Session 31. Open session on past global changes

S31-P-1	On the potential of glaciochemical analysis of Joinville Island firn core for the sea ice reconstruction around the northern Antarctic Peninsula	Sérgio Gonçalves Jr.	A0954
S31-P-2	Micromorphological analysis of Maastrichtian-aged paleosols from the Lameta Formation: Insights into pre-Deccan volcanic environments in central India	Anjali Kumari	A0798
S31-P-3	Shelf-basin carbonate partitioning shapes Cenozoic carbon cycle on eccentricity timescales	Fenghao Liu	A0419
S31-P-4	Productivity dynamics during the late Miocene biogenic bloom: Insights from the XRF evidence at ODP Site 1143	Jianxiong Hu	A0222
S31-P-5	Paleodiet and paleoenvironment through dung analyses of a ground sloth from Cacao 1A site, Southern Argentinian Puna	Nadia Jimena Velázquez	A1039
S31-P-6	Unraveling the secrets of coral reef prosperity during the warm Miocene	Song Zhao	A0462
S31-P-7	Identification of the Cretaceous-Paleogene boundary at northern Ninetyeast Ridge: Evidence from Planktonic Foraminiferal Biostratigraphy and Portable X-Ray Fluorescence Analysis	Yawen Shang	A0179

No.	Title	Presenter	Abstract ID
S31-P-8	Comparison of ocean dynamics using two different Earth system models for the Mid-Miocene Climate Optimum	Ning Tian	A0886
S31-P-9	Comparison REVEALS Estimates vegetation simulations – a perspective from China	Furong Li	A0999
S31-P-10	Reconstructing global temperature timeseries of 3.6 million years	Jeanne Millot Weil	A0273
S31-P-11	Enhanced seasonality of surface air temperature over China during the mid-Holocene	Zhiping Tian	A0291
S31-P-12	Using luminescence dating to constrain the age model for 1.1 Ma Lake Bosumtwi drill core, Ghana, western Africa	Laura Streib	A0497
S31-P-13	Macrophyte pollen as indicator of lake-ecosystems changes in the past	Tatyana Gazizova	A0202
S31-P-14	Varved sediments of Lake Gorzyńskie, western Poland: A new archive of climatic and environmental changes during the late glacial and the Holocene in central Europe	Wojciech Tylmann	A1006
S31-P-16	Multi-dimensional analysis of glacier dynamics in the Alaknanda Basin, western Himalaya: Integration of area change assessment and equilibrium line altitude studies (1994–2023)	Kaushal Kumar	A0825
S31-P-17	Potential contribution of leading modes of climate variability to the Arctic temperature variations in the 20th century according to observations and CMIP6 models.	Daria Bokuchava	A0708
S31-P-18	Gridded Holocene temperature data in China upscaled from proxy-based reconstructions and application in simulating potential cropland distribution	Jia Qi	A0498
S31-P-19	The Younger Dryas event recorded in maar lakes from the tropical to cool temperate zone	Guoqiang Chu	A0918
S31-P-20	Different origins of Al-Sahabi Paleo-River, Libya	Belkasem Alkaryani	A0763
S31-P-21	Community building for open and FAIR phytolith data: International Committee on Open Phytolith Science (ICOPS)	Abraham Dabengwa	A0306
S31-P-22	The Holocene sedimentary evolution history and driving mechanism of the alluvial plain in the middle and lower reaches of the Yangtze River	Chong Kong	A1003
S31-P-23	Impact of climate change and migration rates on mammalian biodiversity in North America	Zhe Meng	A0155

No.	Title	Presenter	Abstract ID
S31-P-24	Valencia, Spain, October 29,2024: An extreme hydroclimate event explained with ENSO lagged influences	Jorge Sanchez Sesma	A0502
S31-P-25	Climate of the Arctic: Non conventional Northern Hemisphere temperature and the Arctic sea-ice (ASI) cover scenarios for the 21st century	Jorge Sanchez Sesma	A0505
S31-P-26	Land snails: Seasonal to weather timescale climatic change records in the terrestrial realm	Jibao Dong	A0068
S31-P-27	Transient climate simulation of the past 4.5 million years based on the coupled intermediate complexity model, iLOVECLIM	Alicia Meng Xiao Hou	A0051

Oral Sessions

Session 04

ROOM 1

Transdisciplinary approach to address
environmental issues

Time	Title	Speaker	Abstract ID
11:00-11:15	Millennial-scale dynamics of cyanobacterial communities and their driving mechanisms in Huguang Maar Lake, South China	Jin Xu	A0056
11:15-11:30	Dendrochemical potential of <i>Brachystegia longifolia Benth</i> unravels reduced copper smelting-induced sulphur dioxide emissions in Mufulira, Zambia	Charles Mulenga	A0081
11:30-11:45	Pollen-based reconstruction of Holocene plant diversity changes in Southern Sweden	Xiaolei Liu	A0092
11:45-12:00	A geohistorical and remote sensing assessment of urbanization and climate impacts on the wetland 'Bahía Serena' enclosed in the city of Bariloche (Patagonia)	Florencia Petruzzella	A0203
12:00-12:15	Ecology of economically important <i>teak Tectona grandis</i> and <i>sal Shorea robusta</i> informed by palaeo-data	Meghna Agarwala	A0698
12:15-12:30	Immigrations of war refugees leads to significant land cover changes in subtropical mountainous areas of Southeastern China	Ting Ma	A0818

Session 19

ROOM 2

Historical climate reconstruction and societal impacts
from written records

Time	Title	Speaker	Abstract ID
11:00-11:15	Floods, politics, and society: Rainstorm and flood in 1668 and the Kangxi Emperor's response	Wei Liu	A0382
11:15-11:30	Reconstruction and analysis of summer heatwave events in modern Shanghai (1873–1949) – based on Republican-era newspapers and Xujiahui Station temperature data	Qi Hu	A0594
11:30-11:45	Agrometeorological relationships and food security in early modern Sweden	Martin Skoglund	A0309
11:45-12:00	New series of meteorological measurements for Wrocław (SW Poland), 1773–1781: Description and analysis	Rajmund Przybylak	A0585

ORAL

Wed. 21 May

Time	Title	Speaker	Abstract ID
12:00-12:15	Learning from past and present to build resilience to climate change: The ICARUS Belize project	Sarah Metcalfe	A0604
12:15-12:30	Historical documents reveal the early warning signals of extreme rainstorm-flood events in the Haihe River Basin	Zhixin Hao	A0869

ROOM 3 Session 31

Open session on past global changes

Time	Title	Speaker	Abstract ID
11:00-11:15	Advancing climate model simulations for the past 2000 years: The PMIP Past2K working group initiative	Myriam Khodri	A0736
11:15-11:30	Two-millennia-long temperature reconstruction derived from X-ray computed tomography of bristlecone pine samples from the White Mountains, California, USA	Vladimir Matskovsky	A0611
11:30-11:45	Monsoon dynamics: Integrating records and simulations of key late Cenozoic intervals	Yong Sun	A0487
11:45-12:00	Sea surface temperature variability in the western Indian Ocean over the Common Era	Marie Alexandrine Sicre	A0948
12:00-12:15	Proxy-based global climate field reconstructions over the Common Era using sequential particle filter: Quantifying uncertainty sources and robust features	Beyrem Jebri	A0376
12:15-12:30	Proxy-informed enhancement of ocean memory in an Earth system model to simulate long-term climate variability	Vanessa Skiba	A1033

ROOM 4 Session 18

Exploring rapid cultural change: Tipping points, cascading impacts and human societal evolution

Time	Title	Speaker	Abstract ID
11:00-11:15	Holocene variability of East Asian winter monsoon dominated human activity in central and eastern China	Rui Zhang	A0020

Time	Title	Speaker	Abstract ID
11:15-11:30	Climatic and environmental promotion of the earliest rice cultivation in the Hemudu culture, China	Takuya Gonda	A0079
11:30-11:45	Bronze age tells and mega-sites in the Carpathian Basin around 1500 BC – decline, cultural change and rise	Rüdiger Krause	A0130
11:45-12:00	Possible roles of culture and climate in Denisovan extinction	Jiaoyang Ruan	A0135
12:00-12:15	The impact of human activities on vegetation during the late Holocene in the West Liao River region	Jinrui Zhang	A0145
12:15-12:30	Modeling spatiotemporal Neanderthal population dynamics in response to cultural evolution	Muhammad Abdul Wasay	A0236

Session 01 ROOM 5

Hydroclimate of the Common Era (The 2k Network)

Time	Title	Speaker	Abstract ID
11:00-11:15	Phase 5 of the PAGES 2k Network: Hydroclimate2k	Georgina Falster	A0386
11:15-11:30	Transient simulation of past 2000 years with the isotope-enabled Earth System Model MPI-ESM-wiso	Alexandre Cauquoin	A0515
11:30-11:45	Spatiotemporal drought variability in Europe over the past millennium	Huihong Xue	A0323
11:45-12:00	Reconstruction of climate variability over the Common Era with paleoclimate data assimilation	Jingya Cheng	A0551
12:00-12:15	North Atlantic region isoscapes through the common Era	Matthew Jones	A0356
12:15-12:30	Last millennium changes in Mississippi River Basin hydroclimate as a framework for understanding future anthropogenic impacts	Kelsey Murphy	A0603

ORAL

Wed. 21 May

Poster Sessions

12:30-14:00

Session 04. Transdisciplinary approach to address environmental issues

No.	Title	Presenter	Abstract ID
S04-P-1	Using climate reanalysis to signal glacial lake outburst floods in the Central Himalaya	Lin Peng	A0165
S04-P-2	New inventory and spatiotemporal changes of glacial lakes in Alaknanda River Basin, Uttarakhand, India from 1990 to 2020: A multi-temporal Landsat analysis	Rekha Sahu	A0184
S04-P-3	Fire activities in the Northern Tianshan of China over the past 400 years	Haicheng Zheng	A0198
S04-P-4	Parasites in rodent middens as indicators of ecological and environmental dynamics during the Late Quaternary in the Atacama Desert	Agustín Bellusci	A0199
S04-P-5	Pollution history and anthropogenic-induced increase in the transport of toxic metals from Australia to Sub-Antarctic islands	Margot Schneider	A0218
S04-P-6	Chronology of the urban evolution of ancient Loulan City	Deke Xu	A0299
S04-P-7	Wooden coffin remains reveal popularization tendency of Imperial China	Keyan Fang	A0367
S04-P-8	Anthropogenic forcing and Pacific internal variability-determined decadal increase in summer precipitation over the Asian Water Tower	Yong Liu	A0401
S04-P-9	Investigation of the cold-water coral ecosystem on a mound at the northern South China Sea using in-situ observations by manned submersible	Luo Liquan	A0408
S04-P-10	Impact of climatic and anthropogenic factors on the content of biogenic elements in the small rivers of Tyumen Region, Russia	Yulia Kreven	A0552
S04-P-11	Environmental and ecological impacts of European colonialism in South Asia	Deepak Kumar Jha	A0845
S04-P-12	Winter warming revealed by pollen records in the northernmost mountain regions of China during the Holocene	Jing Wu	A0967
S04-P-13	Steppe development and mammalian adaptation in the Middle Miocene, North Junggar Basin, Central Asia	Jian Wang	A0987

No.	Title	Presenter	Abstract ID
S04-P-14	The differences of tree species and tree ring width were used to identify old landslides in the degraded permafrost area of northeast China	Ying Chen	A1009
Session 19. Historical climate reconstruction and societal impacts from written records			
S19-P-1	From fire to famines? The climate and human impacts of the 1831 and 1835 volcanic eruptions in India, China and Japan	Richard Warren	A0048
S19-P-2	A cross-continental comparison of drought impacts and social responses in Germany and Jing-Jin-Ji Region (China) since the 19th century	Diyang Zhang	A0127
S19-P-3	Climatic anomalies and their impact on the market economy: The relationship between reconstructed solar radiation and crop prices during the 1830s famine in Japan	Mika Ichino	A0318
S19-P-4	A 40-year pre-industrial reanalysis dataset since 1802 produced by assimilating non-instrumental meteorological records of Japan	Xiaoxing Wang	A0341
S19-P-5	Wind and atmospheric pressure changes on Labrador's coast in the late 18th century	Garima Singh	A0343
S19-P-6	Expanding archaeological understanding through multi-index tree-ring dating of medieval wooden artifacts from the Atsuta B site in Nagoya, Japan	Sakshi Wanwey	A0346
S19-P-7	Anemological and atmospheric pressure conditions in south-eastern Greenland in the second half of the 18th century	Konrad Chmist	A0450
S19-P-8	An investigation of historical low-temperature events in the warm season in China and the related atmospheric circulation	Siyu Chen	A0478
S19-P-9	Wine, vagrants and volcanoes: Impacts of 17th century multi-eruption events on municipal hospitals in early modern Switzerland	Niklaus Emanuel Bartlome	A0564
S19-P-10	Rainfall, runoff and soil erosion in the Wuding River Basin over the past 300 years	Zhuangzhuang Bai	A0718
S19-P-11	A cartographic representation study of Atlas of extreme droughts and floods in China during the past millennium (1000-2020)	Wei Liu	A0758

No.	Title	Presenter	Abstract ID
S19-P-12	The HISTRHÔNE database: Current role in writing a climate history of Mediterranean France and future directions	Nicolas Maughan	A0776
S19-P-13	Hydroclimatic representativeness and reassessment of the predictive skill to reconstruct precipitation by the dryness/wetness index from Chinese historical documents	Yang Liu	A0958
Session 18. Exploring rapid cultural change: Tipping points, cascading impacts and human societal evolution			
S18-P-1	Evidence-based hydroclimate policy outcomes of climate change induces water shortages in tropical cities	Ayansina Ayanlade	A0034
S18-P-2	Indigenous perspectives and sensitivities to climate change impacts and adaptation capacities: A participatory research among smallholder farmers	Ayansina Ayanlade	A0036
S18-P-3	Rapid or gradual cultural change: Exploring the Bantu migration and its impacts on the indigenous communities in East and southern Africa	Philbert Katto	A0105
S18-P-4	Assessing the impacts of climate change on endemic species in central Morocco: The case of <i>Argania spinosa</i>	Sokaina Tadoumant	A0208
S18-P-5	Unstable pre-modern urbanism?	Dan Penny	A0895
S18-P-6	Biogeochemical tools to reveal the interaction between climate, archaeology, and arid forest landscapes in the Atacama Desert over the last 13,000 years (Pampa del Tamarugal)	Matias Frugone Álvarez	A0933
S18-P-7	Signals of change: A semi-quantitative approach to social and demographic tipping points	Martin Hinz	A0997
S18-P-8	Exploring rapid cultural change in early farming societies: The role of past climate and environment	Albert Hafner	A1008

Oral Sessions

Session 12

ROOM 1

Arctic to sub-Arctic climate evolution during the Quaternary and their impact on modulating paleoclimate and paleoceanographic change worldwide

Time	Title	Speaker	Abstract ID
14:00-14:15	Upper ocean variability during MIS 11 and its impact of deep water ventilation	Benoit Thibodeau	A0153
14:15-14:30	Productivity and upwelling changes in the Northwest Pacific over the last five glacial cycles and implications for CO ₂ changes	Zhengquan Yao	A0175
14:30-14:45	Sediment transport dynamics in the deep western Arctic Ocean basins during the middle to late Pleistocene	Duanping Shi	A0276
14:45-15:00	Influences of pre-aged terrigenous organic carbon on deep-sea ventilation reconstruction	Jingyu Liu	A0426
15:00-15:15	The subpolar surface water masses dynamics of the North Atlantic since the last glacial cycle	Min Zeng	A0449
15:15-15:30	Glaciation Dynamics and Challenges in Northeastern Siberia	Mariya Ukyanycheva	A0669

Session 25

ROOM 2

Interdisciplinary perspectives on tephra and volcanic hazards in the context of climate change

Time	Title	Speaker	Abstract ID
14:00-14:15	What's in a shard? Potential insights from sparse cryptotephra deposits	Gill Plunkett	A0819
14:15-14:30	Volcanic impacts on global monsoon precipitation: Latitude dependence and the role of SST pattern	Meng Zuo	A0210
14:30-14:45	A ~120 ka cryptotephra framework of Japan Sea for revealing volcanic eruptive histories and tephra dispersals of Japanese volcanoes	Yuxin Chen	A0317
14:45-15:00	First discovery of the Laacher See Tephra in the eastern Alps: Necessity for reassessing fallout patterns	Verena Meier	A0364

ORAL

Wed. 21 May

Time	Title	Speaker	Abstract ID
15:00-15:15	Linking tephra layers to climate shifts: A multi-proximal approach from Björn Drift contourite deposits (IODP Expedition 395)	Thena Thulasi Doss	A0359
15:15-15:30	Developing late Quaternary Eastern Mediterranean marine tephrostratigraphy: Implications for regional volcanic histories	Shuang Zhang	A0705

ROOM 3 Session 31

Open session on past global changes

Time	Title	Speaker	Abstract ID
14:00-14:15	Multiple sources of atmospheric CO ₂ activated by AMOC recovery at the onset of interglacial MIS 9	Florian Krauss	A0350
14:15-14:30	How can Norwegian mountain peatbogs represent useful archives to understand the effect of precipitation on peatlands carbon budget?	Christian Zagaceta	A0077
14:30-14:45	Embracing joint species distribution models to better analyse palaeoecological time series	Gavin Simpson	A0778
14:45-15:00	Ancient environmental DNA in past global change research: From taxon detection to population genetics	Kevin Nota	A0274
15:00-15:15	FREE SODA – a fair record collection to unravel Southern Ocean dynamics over the last glacial cycle	Lena Thöle	A0535
15:15-15:30	How rabbits caused chaos: Mercury increase on the remote sub-Antarctic Macquarie Island	Margot Schneider	A0217

ROOM 4 Session 18

Exploring rapid cultural change: Tipping points, cascading impacts and human societal evolution

Time	Title	Speaker	Abstract ID
14:00-14:15	Trace of prehistoric human migrations from lowland to highland in South Asia: An illustration of population movement from Indus Basin to Himalaya as adaptation to climate change	Prakash Tiwari	A0693
14:15-14:30	300 years of rapid cultural and climatic changes at annual resolution: Bronze Age 'Pile Dwellings' and the Lössen Cold Period (1750–1450 BCE)	Caroline Heitz	A0894

Time	Title	Speaker	Abstract ID
14:30-14:45	Beyond local limits: External resources and socio-ecological resilience on ancient <i>Euboea</i>	Maria Elena Castiello	A0928
14:45-15:00	Relationship of ancient Liangzhu city development and environmental changes	Chunmei Ma	A0985
15:00-15:15	Palaeolandscape evolution during the period of Middle Stone Age occupation of Blombos Cave, South Africa.	Ella Walsh	A1038
15:15-15:30	Discussion		

Session 01 ROOM 5

Hydroclimate of the Common Era (The 2k Network)

Time	Title	Speaker	Abstract ID
14:00-14:15	ITCZ and tropical rainfall in the Little Ice Age: Was it southward?	Nicollas Duque Gardezabal	A0194
14:15-14:30	What controls the summer hydroclimate in Japan? – Detailed comparisons of paleo-records between relative humidity, air temperature and sea surface temperature during last 2k	Takeshi Nakatsuka	A0630
14:30-14:45	Four century long winter and spring season regional drought history reconstructions from western Nepal Himalaya using tree rings	Narayan Prasad Gaire	A0430
14:45-15:00	Spatio-temporal variability of Indian summer monsoon in the Western Ghats of south-western India during the Common Era	Sandeep Kizhur	A0214
15:00-15:15	New evidence of the Little Ice Age in the tropical montane forests of South America	María Eugenia Ferrero	A0949
15:15-15:30	Climate change and human-environment interactions in the coastal loess area of Shandong Province, eastern China over the past 2000 years	Xiaolin Ren	A0702

ORAL

Wed. 21 May

Poster Sessions

15:30-16:30

Session 01. Hydroclimate of the Common Era (The 2k Network)

No.	Title	Presenter	Abstract ID
S01-P-1	Mg/Ca, $\delta^{18}\text{O}$, and $\delta^{13}\text{C}$ of different species of planktonic foraminifera from offshore Northwest Africa	Asmae Baqloul	A0526
S01-P-2	PDO influenced interdecadal summer precipitation change over East China in mid-18th century	Xiangyu Li	A0122
S01-P-3	Global temperature trends modulated by Pacific decadal variability back to pre-industrial times	Tao Han	A0186
S01-P-4	Global multiproxy ENSO reconstruction over the past millennium	Wenmin Man	A0196
S01-P-5	Concurrent Pan-Pacific decadal hydroclimate extremes driven by Pacific decadal variability over the last millennium	Anson Cheung	A0623
S01-P-6	Ostracode $\delta^{18}\text{O}$ values from Kiritimati Island reconstruct central tropical Pacific climate over the past 1700 years	Shane Lusk	A1043
S01-P-7	Deciphering the variability of East Asian monsoon precipitation isotopes using an isotope-enabled atmospheric model	Yuan Gao	A0246
S01-P-10	Climatic response of stone birch wood density records from Kamchatka peninsula derived from X-ray computed tomography	Veronika Kuznetsova	A0610
S01-P-11	Spatial patterns of Larch climate response in the Kamchatka peninsula	Ekaterina Dolgova	A0662
S01-P-12	Evaluating simulated Arctic sea ice variability during the last Millennium	Tove Hermansson	A0685
S01-P-13	Ring width and blue intensity chronologies for the past 8 centuries from Solovetsky Archipelago used for the paleoclimatic reconstructions and dating of archeological monuments	Nadezhda Semenyak	A0689
S01-P-14	Over 150 years of streamflow behavior inferred from freshwater pearl mussel shell oxygen isotopes in northern Sweden	Christoph J. Gey	A0944

No.	Title	Presenter	Abstract ID
S01-P-15	Records of the Holocene paleoenvironmental changes in coastal sedimentary archives of Sri Lanka	Amila Sandaruwan Ratnayake	A0024
S01-P-16	Exploring the potential of cold-water corals for reconstructing temperature changes in the upper ocean of the central South China Sea since the industrial revolution	Xinru Hui	A0394
S01-P-17	Persistent wetting trend in the northwestern China since 1700s	Wenling An	A0862
S01-P-18	Late Holocene high-resolution sedimentary paleoflood reconstruction and hydroclimate changes in the lower Yangtze River	Runyu Geng	A0975
S01-P-19	Synchronous climate and civilization changes spanning the Common Era: High-resolution biomarker record from a mountain peat in East China	Liping Tian	A1024
S01-P-20	Reconstructing hydroclimatic variability in western China and northern Pakistan through tree-ring records	Dr Sarir Ahmad	A0858
S01-P-21	Understanding hydroclimate variability over the Indian sub-continent during the Common Era: A critical analysis of paleoclimate models and data assimilation products. (an evaluation)	Aharna Sarkar	A1032
S01-P-22	Vegetational and climatic changes in the Ladakh Himalaya, India: Insights from stable isotope and pollen analysis of a ~3200 year sedimentary record	Sakshi Maurya	A0113
S01-P-23	Spatial summer precipitation reconstruction based on tree-ring $\delta^{18}\text{O}$ records from the south-eastern Tibetan Plateau	Santosh Shah	A0653
S01-P-24	A millennial context for the late 20th-Century drought in the Sahel	Ashish Sinha	A0258
S01-P-25	The “Medieval Climate Anomaly” and the “Little Ice Age” in the mid-latitudes of western South America: A summer temperature reconstruction based on chironomids from Laguna El Pillo	Alejandra Martel-Cea	A1041

Session 12. Arctic to sub-Arctic climate evolution during the Quaternary and their impact on modulating paleoclimate and paleoceanographic change worldwide

S12-P-1	Provenance evidence for the late Pleistocene East Siberian ice sheet	Liming Ye	A0087
S12-P-2	A decrease in river discharges in the recent past in the Arctic	Aleksey Sidorchuk	A0118
S12-P-3	Sea ice history in the Western Arctic Ocean over the past 600 ka: Reconstruction based on foraminifera and ostracod indicators	Rujian Wang	A0261
S12-P-4	Unusual changes in East Asian winter monsoon during MIS 8 as recorded in Chinese loess and the implications for ice age dynamics	Qingzhen Hao	A0354
S12-P-6	Sedimentary record of sea ice rafting in the Laptev Sea during the Holocene	Qiuling Li	A0688
S12-P-7	Paleomagnetism and Rock Magnetism in Quaternary Arctic Ocean sediments: Implications on stratigraphy and environmental reconstructions	Jingyuan Zhang	A0710
S12-P-8	Dynamics of environmental evolution in the sea of Okhotsk since the Last Glacial period	Qingchao Wang	A0711
S12-P-9	Holocene sequestration of permafrost carbon along the East Siberian Arctic Shelf: Implications for terrestrial carbon release under a warming climate	Limin Hu	A0801
S12-P-10	Chronostratigraphy and paleoclimate implication of the Core ARC9-21B from the Alpha Ridge	Meinan Shi	A0837
S12-P-11	Reconstruction of the North Atlantic subpolar dynamics during MIS 7 based on micropaleontology and sediment geochemistry	Harunur Rashid	A0914
S12-P-12	Pre-aged terrigenous organic carbon biases ocean ventilation-age reconstructions in the North Atlantic	Yipeng Wang	A0915
S12-P-13	Ancient tunnel valleys: A snapshot into the Quaternary glacial dynamics	Xiaoxia Huang	A0923

Session 25. Interdisciplinary perspectives on tephra and volcanic hazards in the context of climate change

S25-P-1	A new tephrochronological record of a raised bog in eastern lowland Scotland	Li Wang	A0392
S25-P-2	Climate impacts of volcanic eruptions across multi-timescales	Yuan Yuan Yang	A0513
S25-P-3	Determining the seasonality of volcanic eruptions from tephra layers recorded in ice cores	Mengwen Yang	A0541
S25-P-4	Historical variability in the summer Temperature-Humidity-Wind index across the Qinghai-Tibet Plateau over the past 500 years	Boya Zhang	A0871
S25-P-5	West African summer monsoon variability over the past half millennium	Pengzhen Ren	A0887
S25-P-6	~60 ka tephra-framework of northwest Pacific Ocean: Depicting regional eruptive history and radiocarbon reservoir effect	Chunqing Sun	A0931
S25-P-7	Major Late-Pleistocene explosive eruptions of Changbaishan and Japanese volcanoes revealed by a 100 kyr tephra record from the Japan Sea	Jia Chen	A0355
S25-P-8	Dwindling effective radiative forcing of large volcanic eruption: The compensation role of ocean latent heat flux	Chaochao Gao	A0234
S25-P-9	Developing a tephrochronological framework for synchronisation of archaeological and environmental records in the southern Caucasus for MIS 3	Shuang Zhang	A0019

POSTER

Wed. 21 May

Plenary room

Keynote 2

Chair: Ilham Bouimetarhan

Time	Title	Speaker	Affiliations
16:30-17:15	Western tropical Pacific as the heat and moisture engine: From late Quaternary to deeper and recent times	Haowen Dang	State Key Laboratory of Marine Geology, Tongji University, Shanghai, China
17:15-18:00	Rain or shine: Hominin evolution and dispersal in response to environmental shifts – insights from a ~620 kyr climate record from Lake Chew Bahir in eastern Africa	Asfawossen Asrat	School of Earth Sciences and Engineering, Botswana International University of Science and Technology, Palapye, Botswana

ORAL

Wed. 21 May

Plenary room

Keynote 3

Chair: Martin Grosjean

Time	Title	Speaker	Affiliations
08:30-09:15	Quaternary geology of South America at multiple scales: A key to understanding hydroclimatic extreme events	Daniela M. Kröhling	Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET) and Universidad Nacional del Litoral (UNL), Santa Fe, Argentina
09:15-10:00	History of climate and society: Climate reconstruction and impact based on archives of societies in China	Qing Pei	Department of Land Surveying and Geo-Informatics, Department of Chinese History and Culture, The Hong Kong Polytechnic University, China

ORAL

Thu. 22 May

Poster Sessions

10:00-11:00

Session 30. Holocene coastal marine environments in the Arctic: Proxy records and development

No.	Title	Presenter	Abstract ID
S30-P-1	Western Arctic environments and biological communities since the Industrial Revolution	Masanobu Yamamoto	A0141
S30-P-2	Arctic marine environments and ecosystems during the Holocene Thermal Maximum	Anna Pieńkowski	A0377
S30-P-3	Influence of Arctic surface air temperature and sea ice on terrestrial organic matter export to the Chukchi Sea during the last three centuries	Bassem Jalali	A0405
S30-P-4	Holocene diatom-based environmental reconstructions for the Bay of Sept-Îles, Canada	Emilie Arseneault	A0635
Session 31. Open session on past global changes			
S31-P-28	X-ray micro-CT pipeline optimized for large-scale tree-ring palaeoclimate research	Vladimir Matskovsky	A0847
S31-P-29	Coccolithophore-environment relationship in the Western Pacific Ocean: Insights from a compiled surface sediment dataset	Joeven Austine Calvelo	A0683
S31-P-30	Towards a global-scale temperature reconstruction for the Marine Isotope Stage 11 “super-interglacial”	Emily Kraus	A0743
S31-P-32	Multi-proxy reconstructions of paleotemperature in the southern South China Sea since the last deglaciation	Li Li	A1023
S31-P-33	Antarctic circumpolar current dynamics and marine productivity in the Pacific Antarctic Zone over the last 280 kyr	Jiakai Wang	A0925
S31-P-34	Enhanced oceanic CO ₂ buffering capacity due to limited Carbonate Counter Pump in the early Miocene	Ruigang Ma	A0660
S31-P-35	Local summer insolation modulated Southern Ocean productivity and Antarctic icesheet evolution since MIS 5	Yihao Hu	A0848
S31-P-36	Simulating the response of land cover to Holocene climate change in the Northern Hemisphere monsoon region	Weizhe Chen	A0054

POSTER

Thu. 22 May

No.	Title	Presenter	Abstract ID
S31-P-37	A transient simulation of vegetation dynamics from the Last Glacial Maximum to present	Dan Zhu	A0110
S31-P-38	Holocene environmental changes in Morocco: A comprehensive database	Asmae Baqloul	A0530
S31-P-39	The Southern Ocean induced northern high latitude cooling since the late Pliocene	Heng Liu	A0891
S31-P-40	Dynamics of the Aurora Subglacial Basin (East Antarctic Ice Sheet) during past warm periods	Javier Maldonado	A0267
S31-P-41	Pleistocene subtropical front dynamics in the Southwest Pacific Ocean	Lena Thöle	A0577
S31-P-42	Reconstruction of atmospheric CH ₄ concentration history since the Industrial Revolution from the SE-Dome II ice core, southeastern Greenland	Mai Suzuki	A0524
S31-P-43	Paleoceanographic information from the turbidite-containing sediments in the South Shetland Trench of the Antarctic Ocean	Boo-Keun Khim	A0086
S31-P-44	An interplay of land-sea development off southern South Africa since the last deglaciation	Xueqin Zhao	A0120
S31-P-45	Orbital-scale competition of biogenic carbonate and opal production at Del Caño Rise in the southwestern Indian sector of the Southern Ocean during the late Pleistocene	Hyuk Choi	A0265
S31-P-46	Towards validating Quartz Electron Spin Resonance (ESR) – thermochronometry: Preliminary insights from Anadarko Basin borehole sediments (USA)	Aditi K. Dave	A0324
S31-P-47	Enhanced zonal trade winds warm the western South Atlantic surface during MIS 4 glacial descent	Ana Beatriz Chacon	A0637
S31-P-48	Productivity in the Antarctic Zone and its dynamic coupling with atmosphere-ocean-ice processes over 800 ka	Bingyue Huang	A0632
S31-P-49	Mediterranean circulation variability as forced by high- and low-latitude freshwater inputs over the last two glacial cycles: Inferred from Nd isotopes in fish and foraminifera	Jiawang Wu	A0379

No.	Title	Presenter	Abstract ID
S31-P-50	A conceptual model for Pleistocene to Holocene dune formation in the Pacific subtropical semi arid coast of Chile: A landscape paleoenvironmental perspective	Juan-Luis García	A0783
S31-P-51	Millennial-scale surface hydrological variations in the eastern tropical Indian Ocean linked to Northern Hemisphere high-latitude	Peng Zhang	A0491
S31-P-52	Debris flow dynamics and dendrochronological data: A case study of the Alyavumyok stream, Khibiny	Renat Bichurin	A0667
S31-P-53	Sea-level and climatic evolution in the postglacial Qiantang River incised-valley system: Insights from grain-size end-member modelling and geochemical characteristics	Xia Zhang	A0905
S31-P-54	Ecorefuges and environmental transitions: Human-plant interactions at ancient Tagua Tagua Lake	Carolina Godoy Aguirre	A0957

Oral Sessions

Session 27

ROOM 1

Reconstructing intermediate circulation and water mass properties through time

Time	Title	Speaker	Abstract ID
11:00-11:15	The temperature evolution of the Atlantic thermocline since the Last Glacial Maximum revealed through framework forming cold-water corals	Norbert Frank	A0992
11:15-11:30	Stepwise evolution of Mediterranean outflow water during the past 250 kyr	Xinyang Chen	A0168
11:30-11:45	Intermediate water circulation shifts and their role in driving paleoproductivity changes in the North Pacific	Yongzhi Chu	A0237
11:45-12:00	Deglacial and Holocene evolution of the North Pacific upper and intermediate ocean circulation	Lanlan Zhang	A0809
12:00-12:15	Millennial reorganizations of ocean circulation of the North Pacific during the last deglaciation	Jianjun Zou	A0677
12:15-12:30	Antarctic Intermediate Water transport changes in the SW Atlantic over the last 45,000 years based on sortable silt and metal/ratios	Renata Nagai	A0477

Session 07

ROOM 2

The end of the '41-kyr world' and the transition to the '100-kyr world'

Time	Title	Speaker	Abstract ID
11:00-11:15	Continuous CO ₂ reconstruction across the MPT from boron isotopes informs mechanisms of glacial CO ₂ change	James Rae	A0775
11:15-11:30	The shift to the 100-kyr world: Insights from 1.5 Ma Iberian margin SST record	Teresa Rodrigues	A0700
11:30-11:45	Stepwise synchronization of Antarctic and global climate across the Mid-Pleistocene Transition	Michael E. Weber	A0106
11:45-12:00	The evolving morphology of glacial-interglacial cycles over the course of the middle Pleistocene transition: Results from the Portuguese margin	Chronis Tzedakis	A1035

ORAL

Thu. 22 May

Time	Title	Speaker	Abstract ID
12:00-12:15	Unravelling abrupt transitions of Antarctic ice sheet dynamics during the Mid-Pleistocene Transition	Christian Wirths	A0561
12:15-12:30	Plio-Pleistocene climate and environmental evolution from 6 million year old ice at Allan Hills, Antarctica	Yuzhen Yan	A0411

ROOM 3 Session 31

Open session on past global changes

Time	Title	Speaker	Abstract ID
11:00-11:15	The last glacial cycle in the Canary Islands: New paleoclimate reconstructions from lake records	Blas Valero-Garcés	A0926
11:15-11:30	An over 500,000 years lacustrine core in the high-altitude lake Nam Co of the Tibet Plateau	Liping Zhu	A0333
11:30-11:45	Luminescence dating of long lake cores: Experience from Lake Malawi	Simon Armitage	A0378
11:45-12:00	Holocene Paleoflood records in alluvial plains: A case from abandoned channel areas of the lower Yellow River, China	Jingsong Yang	A0182
12:00-12:15	Warming on the East Antarctic Plateau inferred from ice borehole thermometry	Thom Laepple	A0795
12:15-12:30	Discussion		

ROOM 4 Session 28

Southeast Asian monsoon evolution during the Quaternary: Records, synthesis and model results

Time	Title	Speaker	Abstract ID
11:00-11:15	Orbital variability and climatic drivers modulating the East and South Asian monsoons during the last 70 krys: New insights from the Korean vegetation	Coralie Zorzi	A0147
11:15-11:30	Late Quaternary record of Indian summer monsoon from the northeastern Indian Ocean	Sijinkumar A.V.	A0158

Time	Title	Speaker	Abstract ID
11:30-11:45	Monsoon activity and paleoceanographic responses in the southwestern Andaman Sea since 1.45 Ma	Jiajian Lin	A0174
11:45-12:00	Indian winter monsoon controls sea subsurface temperature in the north Arabian Sea during the Holocene	Lanjuan Wu	A0233
12:00-12:15	Asian monsoon orbital variability directly paced by CO ₂ and precession, not eccentricity	Jeanne Millot-Weil	A0241
12:15-12:30	Holocene East Asian winter monsoon changes inferred from Mg/Ca ratio of Globigerina Bulloides: A winter proxy in the northern South China Sea	Rong Xiang	A0643

Session 23 ROOM 5

Advancing climate prediction with paleoclimate data and models

Time	Title	Speaker	Abstract ID
11:00-11:15	A novel approach to disentangle the circulation signal from Pa/Th reconstructions	Pierre Testorf	A0176
11:15-11:30	Marine carbon isotope proxy-model comparison using measurements from annually banded calcifiers and output from ocean circulation inverse models	Branwen Williams	A0257
11:30-11:45	New classes of climate model emulators to improve paleoclimate reconstructions	Auguste Gaudin	A0722
11:45-12:00	A synthesis of regional paleoclimate variations in China over the past ~21 Ka	Huayu Lu	A0348
12:00-12:15	Planning for the next palaeoclimate modelling intercomparison project (PMIP7)	Chris Brierley	A0425
12:15-12:30	Effect of the changes in atmospheric ozone on mid-Holocene and last-interglacial climates	Yasuto Watanabe	A0581

ORAL

Thu. 22 May

Poster Sessions

12:30-14:00

Session 28. Southeast Asian monsoon evolution during the Quaternary: Records, synthesis and model results

No.	Title	Presenter	Abstract ID
S28-P-1	Warming-induced changes of dry-wet boundary in northern China	Xiaofang Huang	A0133
S28-P-2	Multi-proxy paleoenvironmental reconstruction from Noboru Umeda Peat Swamp, eastern Thailand	Kannika Wangritthikraikul	A0137
S28-P-3	Orbit-induced rainfall dipole pattern in South Asia over the past 425 ka	Gaowen Dai	A0268
S28-P-4	Vegetation and climate changes in western Yunnan, China since the Last Glacial Maximum	Wenying Jiang	A0349
S28-P-5	Indian monsoon activity in the Northeast Indian Ocean since the Middle Pleistocene and its influence on the dissolution of foraminifera shells	Xuan Ding	A0389
S28-P-7	Monsoon-driven terrigenous fluxes regulate marine organic matter burial on the Sunda Shelf since the Middle Holocene	Pengfei Ma	A0511
S28-P-8	Decadal causes of the Wanli megadrought in northern China during the Ming Dynasty: Perspectives from tropical and polar regions	Xuanchen Li	A0566
S28-P-9	The vital role of vegetation cover in shaping East Asian summer monsoon changes during the late Pliocene warm period	Ruoxiao Gu	A0570
S28-P-10	Sea level and East Asian monsoon influenced chemical weathering records in the southern South China Sea over the past 21 ka	Hongchao Zhao	A0629
S28-P-11	Study on influences of calcification intensity of planktonic foraminifera in modern South China Sea	Baoqi Huang	A0674
S28-P-12	Evolution of Indian monsoon precipitation and vegetation dynamics in the Bay of Bengal region since the last glacial period	Chuanxiu Luo	A0717
S28-P-13	Eastern Indian Ocean coccolith change and its implications for South Asian monsoon variation since the last glaciation	Xiang Su	A0756

No.	Title	Presenter	Abstract ID
S28-P-14	The climate-driven mechanisms of sedimentary evolution in the mud area southwest off Cheju Island during the Holocene	Jingyi Cong	A0833
S28-P-15	Indian summer monsoon variations since late MIS3: A perspective from multiproxy evidence from Lake Xingyun in southwestern China	Haiyang Yu	A0896
S28-P-16	Indian summer monsoon history during the last glacial cycle revealed by a loess sequence from the Tibetan Plateau	Shengli Yang	A0916
S28-P-17	The origin of the modern-like East Asian Monsoon: insights from new data synthesis and climate modelling work	Zhilin He	A0940
S28-P-18	An overview of the existing foraminiferal census count and sediment geochemistry data from the northern Indian Ocean and their utility in reconstructing the past strength of the Indian summer monsoon	Xiaohui He	A0974
S28-P-19	50 kyr of water column stratification related to the Kuroshio Current and the East Asian monsoon (Core MD103264)	Ziye Li	A1027
S28-P-20	Complex interplay of forcings drives Indian vegetation and summer monsoon variability during MIS 11	Dulce Oliveira	A0716
Session 23. Advancing climate prediction with paleoclimate data and models			
S23-P-1	Differential vegetation feedback on global land monsoon during the mid-Holocene and Last Interglacial	Zhenqian Wang	A0055
S23-P-2	Tropical circulation shifts and regional climate impacts: Comparing mid-Piacenzian warmth and future warming (SSP245)	Ke Zhang	A0138
S23-P-3	Enhanced “Wind-Evaporation” effect drove the “Deep-Tropical Contraction” in the early Eocene	Zikun Ren	A0192
S23-P-4	Mesoscale convective systems from the Cenozoic into the future: Insights from high-resolution community earth system model simulations	Mary Grace Albright	A0256
S23-P-5	Atmospheric and oceanic circulation altered by global mean sea-level rise	Zhongshi Zhang	A0266

No.	Title	Presenter	Abstract ID
S23-P-6	AWI's Contribution to PlioMIP3 with two generations of earth system models	Fernanda Di Alzira Oliveira Matos	A0283
S23-P-7	Precipitation responses to atmospheric circulation in central Chile: A paleoclimatic simulation approach	Matias Briceno Yanez	A0388
S23-P-8	Role of sea level and seaway in modulating the Hadley Circulation change during the last glacial period	Yeyi Fu	A0397
S23-P-9	On the combination of different forcing factors and their impact on deglacial AMOC evolution in CESM simulations	Dragan Latinovic	A0466
S23-P-10	Contrast change of cyclogenesis in tropical and extratropical during the Eocene	Tingyu Zhang	A0506
S23-P-11	Reconciling East Asia's mid-Holocene temperature discrepancy through vegetation-climate feedback	Jie Chen	A0534
S23-P-12	Decadal climate prediction informed by paleoclimate records using the AI climate model ClimaX	Jinfeng Luo	A0648
S23-P-14	The latitudinal migration of intertropical convergence zone in response to precession across the Holocene	Yuchen Yang	A0652
S23-P-15	Reconstructions of climate during last two millennia based on hybrid gain analog offline EnKF using multiple types of proxy records	Liang Ning	A0670
S23-P-16	Impacts of mid-Pliocene ice sheets and vegetation on Afro-Asian summer monsoon rainfall revealed by EC-Earth simulations	Zixuan Han	A0719
S23-P-18	Indian Summer Monsoon evolution during the Holocene: Proxy-model comparisons from the Thar Desert Margin	Aakanksha Kumari	A0728
S23-P-19	Reducing uncertainty in rainfall projections using paleodata	Pedro DiNezio	A0754
S23-P-20	The effect of global mean sea-level rise to Maritime Continent and East Asia summer precipitation	Caoyi Dong	A0760
S23-P-21	Bezenghi and IGAN glacier cores as an archive of environmental information	Elizaveta Nikolaeva	A0767

No.	Title	Presenter	Abstract ID
S23-P-22	Fast oceanic inter-hemispheric teleconnections due to an AMOC weakening	Gabriel Pontes	A0793
S23-P-23	Examining the role of the Pacific Ocean in the unusual warming of the Western Indian Ocean over past century	Yunfan Chen	A0796
S23-P-24	Coupled seasonal data assimilation of sea ice, ocean, and atmospheric dynamics over the last millennium	Zilu Meng	A0832
S23-P-25	Modeling global silicate weathering flux during the Last Glacial Maximum in the framework of GEOCLIM	Xiangtong Huang	A0880
S23-P-26	Clearing clouds of uncertainty with the help of paleoclimate	Jiang Zhu	A0904
S23-P-27	The study of climate sensitivity during the Pliocene warm period based on a two-dimensional EBM model	Zhiyu Hao	A0913
S23-P-28	Investigating the roles of CO ₂ and paleogeography in shaping the Pliocene climate using an atmosphere-ocean-vegetation coupled model	Sachio Nakagawa	A0960
S23-P-29	Simulation of the last millennium climate with the different versions of the climate model INM-CM	Polina Morozova	A1016
S23-P-30	Orbital-Scale variations in Northern East Asian monsoon precipitation: Contributions of terrestrial and oceanic moisture sources	Xiaoxun Xie	A1047

POSTER

Thu. 22 May

Oral Sessions

ROOM 1 **Session 29**

The missing piece: Holocene records from remote areas

Time	Title	Speaker	Abstract ID
14:00-14:15	Reconstructing Holocene canal system development and water management system in Ur City (Southern Iraq) through diatom microfossils	Xinchang Wang	A0025
14:15-14:30	Environmental records from the tropical Sphagnum peatlands of Réunion Island since the Last Glacial Maximum	Xiannong Song	A0369
14:30-14:45	Holocene temperature record from sub-Antarctic Macquarie Island using sedimentary biomarkers (GDGTs)	Caitlin Selfe	A0295
14:45-15:00	Holocene environmental change in the northern Ecuadorian Andes: First insights from lake sediment archives	Lisa Feist	A0864
15:00-15:15	Millennial-scale impacts of climate and land use on fynbos vegetation in the Cape Floristic Region, South Africa	Glory Oden	A0161
15:15-15:30	Discussion		

ROOM 2 **Session 14**

Atmospheric paleo-particles and global environmental impacts

Time	Title	Speaker	Abstract ID
14:00-14:15	Iron variability reveals the interface effects of aerosol-pollutant interactions on the glacier surface of the Tibetan Plateau	Zhiwen Dong	A0062
14:15-14:30	Distribution, composition and risk assessment of PAHs and PCBs in cryospheric watersheds of the eastern Tibetan Plateau	Xiaoli Liu	A0046
14:30-14:45	Significant change in atmospheric oxidation capacity driven by warming and wetting over Tibetan Plateau	Xiao Yan	A0211
14:45-15:00	Reconstructing atmospheric sea salt aerosol variability over 800,000 years using the EPICA Dome C ice core	Sarah Jackson	A0459

Time	Title	Speaker	Abstract ID
15:00-15:15	Stratospheric and tropospheric aerosol forcing from volcanic eruptions	Andrea Burke	A0691
15:15-15:30	Atmospheric dust in peatlands: Innovative method for paleoclimate reconstruction	Constanza Marquez Gajardo	A0385

Session 31

ROOM 3

Open session on past global changes

Time	Title	Speaker	Abstract ID
14:00-14:15	Vegetation stability declines under climate and human pressures since the last deglaciation	Yue Wang	A0484
14:15-14:30	Sahara’s surface transformation forced an abrupt hydroclimate decline and Neolithic culture transition in northern China	Hao Long	A0188
14:30-14:45	Concurrent Asian monsoon strengthening and early modern human dispersal to East Asia during the last interglacial	Hong Ao	A0393
14:45-15:00	Pronounced hydroclimatic variations at Rodderberg (Germany) during MIS 11	Bernd Zolitschka	A0136
15:00-15:15	Modelling the Northern Hemisphere ice sheet evolution during the last deglaciation and MIS-11 with an ice sheet-ice shelf coupled model	Wei Liu	A0201
15:15-15:30	Discussion		

Session 28

ROOM 4

Southeast Asian monsoon evolution during the Quaternary: Records, synthesis and model results

Time	Title	Speaker	Abstract ID
14:00-14:15	Provenance of Late Quaternary sediments off Mekong River in the southern South China Sea: Insights from clay mineral and Sr-Nd isotopic compositions	Pham Nhu Sang	A0671
14:15-14:30	Hydroclimate variability records from IODP Site U1448 in the Andaman Sea over the last 1.4 million years	Erick Naim	A0696

ORAL

Thu. 22 May

Time	Title	Speaker	Abstract ID
14:30-14:45	Indian monsoon driven N ₂ O emission in the Arabian Sea during the last two interglacial cycles	Rahul Pawar	A0423
14:45-15:00	Indian summer monsoon variability and its impact on the thermal structure in the Bay of Bengal during the past 24 ka based on lipid biomarkers	Yang Wang	A0917
15:00-15:15	Simulating precipitation and isotope variability in the East Asian summer monsoon region over a precession cycle based on AWIESM-wiso	Xiaoxu Shi	A0812
15:15-15:30	Late Quaternary evolution of the sea surface water oxygen isotope stacked from the South China Sea	Chunxiao Sun	A0971

ROOM 5 Session 23

Advancing climate prediction with paleoclimate data and models

Time	Title	Speaker	Abstract ID
14:00-14:15	Mid-Holocene regional simulation of the Peruvian coastal upwelling system improve model-data paleoceanographic comparisons	Matthieu Carré	A0602
14:15-14:30	Antarctic circumpolar current evolution and its relation to Southern Hemisphere westerly winds during the Holocene	Lingfeng Wan	A0963
14:30-14:45	Seasonal precipitation evolution in the Northern Hemisphere since the Holocene and its future implications	Haibin Wu	A1014
14:45-15:00	Main drivers of low-frequency surface temperature variability in Earth system models cannot explain the observed latitudinal gradient of variability	Vanessa Skiba	A0943
15:00-15:15	Discussion		
15:15-15:30	Discussion		

ORAL

Thu. 22 May

Poster Sessions

15:30-16:30

Session 29. The missing piece: Holocene records from remote areas

No.	Title	Presenter	Abstract ID
S29-P-1	Holocene on the high country: A multi-proxy reconstruction of systemic paleoenvironmental sensitivity across high-altitude Australia	James Bakis	A0041
S29-P-2	Quantifying pre- and post-Columbian human-plant interactions and ecosystem resilience in South America	Laymara Sampaio	A0284
S29-P-3	Palynological analysis of modern and archeological ungulate feces: Investigating taxonomic diversity and agropastoral practices in a little explored Andean area from South America	Florencia Agliano	A0286
S29-P-4	Holocene vegetation dynamics, carbon deposition, sea level changes, and human impact inferred from the Blocked River channel core in the Baía de Caxiuanã Region, Northern Brazil	Bowen Wang	A0294
S29-P-5	Investigating the southern ocean's response to abrupt climate change in the Ross Sea over the last 2,000 years	Francesca Battaglia	A0325
S29-P-6	Moist Younger Dryas in Northeastern China invalidated	Nannan Li	A0370
S29-P-7	Centennial-scale variability in atmospheric circulation in Antarctica: Insights from a coastal East Antarctic ice core record	Guitao Shi	A0372
S29-P-8	Paleoenvironmental reconstruction of Laguna Ñe Luan, Patagonia, Argentina: Rock magnetic and geochemical analyses	Romina Achaga	A0468
S29-P-9	Millennial-scale perspective of the Holocene Indian Monsoon change in the central Himalaya	Muthusamy Prakasam	A0579
S29-P-10	Late Holocene vegetation and environmental changes in coastal Karnataka, southwest India - A multiproxy record based on a sediment sequence from Lake Ramasamuda	Yamuna Sali A.S.	A0733

POSTER

Thu. 22 May

No.	Title	Presenter	Abstract ID
S29-P-11	Sediments of Lake Big Kisegach: Seismoacoustic characteristics, chronology and magnetic properties	Lina Kosareva	A0784
S29-P-13	From fresh snow petrel stomach oil to deposits: A valuable archive for paleoenvironmental reconstruction	Zhongxuan Li	A0822
S29-P-14	A global high-resolution modeling of the mid-Holocene climate	Yanning Ou	A0883
S29-P-15	Sedimentation rates and accumulation of organic carbon in lakes of Southern Spitsbergen (Hornsund)	Wojciech Tylmann	A1004

Session 14. Atmospheric paleo-particles and global environmental impacts

S14-P-1	Late Holocene atmospheric dust variability inferred from an ombrotrophic peatland in southwest Patagonia	Fabrice Lambert	A0326
S14-P-2	Reconstructing stratospheric sulfur aerosol loading for extratropical volcanic eruptions: New insights from sulfur isotopes in Greenland ice cores	Yang Yu	A0618
S14-P-3	Contrasting effects of road dust and atmospheric dust on carbon accumulation in ombrotrophic peatlands	Xiaoyu Li	A0641
S14-P-4	Anthropogenic and climatic impacts in southwestern China over the last 1300 years recorded in an alpine wetland	Kunshan Bao	A0451
S14-P-5	Simulated evolution and controlling factors of the dust cycle during the Phanerozoic	Qi Cui	A0942
S14-P-6	Zn isotope tracing unveils primary anthropogenic Zn sources in glacial cryoconite of the high Asian mountains	Wu Rui	A0839
S14-P-7	Insight into radionuclide ^{235}U deposition in multiple-environmental media in Muztagh Ata Glacier Basin of the eastern Pamirs	Xiaoyu Jiao	A0840
S14-P-8	Characterization of eolian dust in surface moss samples of northeastern China and its potential environmental implications	Steve Pratte	A0745

No.	Title	Presenter	Abstract ID
S14-P-9	Air-transported contaminant composition in peat soil at different distance from the objects of metallurgic industry	Olesia Sadokova	A0213
S14-P-10	The increasing anthropogenic sources in the 21st century recorded by Tibetan ice core	Dandan Yang	A0831
Session 07. The end of the '41-kyr world' and the transition to the '100-kyr world'			
S07-P-1	Extreme drought around 900ka in southwestern Iberia: insights from IODP pollen records	Xiaowen Quan	A0027
S07-P-2	Early Pleistocene (MIS 42-45) climate dynamics and oceanographic changes reflected in the benthic foraminifera assemblages from the southern Portuguese margin (Gulf of Cadiz)	Anna Kicsi	A0314
S07-P-3	Planktonic foraminifera and temperature records highlight climatic changes on the southern Portuguese margin during the early-to-middle Pleistocene (1.54–0.75 Ma)	Monica Duque-Castaño	A0684
S07-P-4	Mediterranean vegetation and climate dynamics across the early-middle Pleistocene transition: A palynological perspective	Adele Bertini	A0924
S07-P-5	Intermediate water dynamic recorded by authigenic Nd isotope in the North Atlantic across the mid-Pleistocene transition	Antao Xu	A0129
S07-P-6	Enhanced cross-hemisphere upper-ocean heat transport since the mid-Brunhes event	Ce Yang	A0406
S07-P-7	Changes in South Atlantic deep ocean ventilation during the mid-Pleistocene transition	Luiza Costa	A0215
S07-P-9	The evolution of Southern Ocean paleoproductivity under the combined influences of ice sheet dynamics and oceanic circulation during the mid-Pleistocene transition	Dan Tan	A0638
S07-P-10	The million year ice core, Australia's oldest-ice project	Joel Pedro	A0404
S07-P-11	The evolution of the Wilkes subglacial basin from the mid Pliocene warm period until today	Johannes Sutter	A0362

No.	Title	Presenter	Abstract ID
S07-P-12	Extending accurate chronology of the Dome Fuji ice core, Antarctica to 720,000 years and its implications for the 100-kyr cycles	Kenji Kawamura	A0613
S07-P-13	Identifying oldest ice employing an isochronally calibrated ice sheet model	Antoine Hermant	A0779
S07-P-14	Orbital forcing and cyclic variations in agglutinated benthic foraminifera abundance: implications for productivity changes in the central South Pacific over the last 1.6 Ma	Sunil K. Das	A0212
S07-P-15	Transient simulation of the orbital periodic transition in equatorial Pacific sea surface temperature since the Pliocene	Xiangyu Ji	A0815
S07-P-16	The precession cycles in East Asian stalagmite records before the MPT constrained by carbonate U-Pb dating	Le Kang	A0229
S07-P-17	Precession-induced tipping of the Atlantic meridional ocean circulation implies the appearance of the 100-kyr glacial cycle during the late Pleistocene	Haobo Liu	A0950
S07-P-18	A climate-driven human genetic bottleneck in Africa 900 thousand-years ago	Shih-Wei Fang	A0351
S07-P-19	AMOC modulates ocean heat content during the last four deglaciations	Markus Grimmer	A0755
Session 27. Reconstructing intermediate circulation and water mass properties through time			
S27-P-1	pH rise in intermediate water of the South China Sea during the last deglaciation	Mengyuan Wang	A0064
S27-P-3	Radiocarbon constraints on North Indian deep ocean ventilation and deglacial carbon dioxide release	Sui Wan	A0584
S27-P-4	Mg/Ca-based Southern Ocean temperature reconstructions during mid-Miocene	Man Liang	A0499
S27-P-6	Radiocarbon evidence of a North Atlantic intermediate water reconfiguration between the 1960s and 1980s	Qian Liu	A0144
S27-P-7	Millennial-scale variations of the Holocene North Atlantic hydrology inferred from Nd isotope composition on seawater and authigenic fractions: impact on cold-water coral reef growth at the SW Rockall Trough margin	Christophe Colin	A0518

No.	Title	Presenter	Abstract ID
S27-P-8	Atlantic intermediate circulation and heat transfer during the last glacial period: A cold-water coral record	Lélia Matos	A0050
S27-P-9	Mapping the thermocline Ocean Nd-isotope composition over the past 60 ka	Norbert Frank	A1017



POSTER

Thu. 22 May

Plenary room

Keynote 4

Chair: Youbin Sun

Time	Title	Speaker	Affiliations
16:30-17:15	Future increase in extreme El Niño supported by past glacial changes	Kaustubh Thirumalai	Department of Geosciences, University of Arizona, USA
17:15-18:00	Impact of global warming on the Asian summer monsoon	Chenxi Xu	Key Laboratory of Cenozoic Geology and Environment, Institute of Geology and Geophysics, Chinese Academy of Sciences, Beijing 100029, China

ORAL

Thu. 22 May

Plenary room

Keynote 5

Chair: Keely Mills

Time	Title	Speaker	Affiliations
08:30-09:15	Societal impacts on the Earth System- from the past towards the future	Nathalie Dubois	Department of Surfaces Waters Research + Management, Eawag, Dübendorf, Switzerland Department of Earth Sciences, ETHZ, Zürich, Switzerland
09:15-10:00	SISAL the speleothem and cave monitoring database: Enabling modern karst water estimates to understanding past rapid climate changes	Nikita Kaushal	Earth and Planetary Sciences Department American Museum of Natural History New York, United States of America

ORAL

Fri. 23 May

Poster Sessions

10:00-11:00

Session 09. Pleistocene to Common Era climate reconstructions and insights from speleothem and allied archives

No.	Title	Presenter	Abstract ID
S09-P-1	Implications of synoptic-scale stable water isotope modelling in East Asia	Shengjie Wang	A0073
S09-P-2	Asynchronicity of deglacial permafrost thawing controlled by millennial-scale climate variability	Xinwei Yan	A0297
S09-P-3	Pronounced and variable typhoon landfall imprints in a Holocene precipitation isotope record from coastal South China	Jiantao Cao	A0074
S09-P-4	Chinese speleothem evidence of Holocene atmospheric circulation transitions	Bin Zhao	A0152
S09-P-5	In-phased rainfall pattern in northern and central China on millennial-scale timescales revealed by multi-proxy speleothem records	Yijia Liang	A0160
S09-P-7	The stalagmite-inferred interplay between the westerlies and the Indian summer monsoon on centennial to decadal scales over the south-western Tibetan Plateau during the last interglacial	Ruoxin Li	A0429
S09-P-8	The stable isotope records of stalagmite fluid inclusions from central China and their climate significance during the last glacial period	Mei He	A0500
S09-P-9	Prior calcite precipitation systematics in stalagmites with detrital inputs	Carlos Pérez-Mejías	A0510
S09-P-10	Stalagmite records of Holocene climate change on the Chinese Loess Plateau	Shouyi Huang	A0517
S09-P-12	A speleothem record of precipitation and temperature in the Russian Plain (Samara region)	Nikolai Tkach	A0704
S09-P-13	Climate and tectonic imprints in tufa records from Northwest Africa over the past 600 kyr: Insights from petrography and stable isotopes of microbialites	Khalil Azennoud	A0576
S09-P-14	Holocene climatic and environmental changes on the NE Tibetan Plateau from sedimentary records	Steve Pratte	A0732

No.	Title	Presenter	Abstract ID
S09-P-15	Characterizing composition of stalagmites: A non-destructive approach	Ali Raza	A0859
S09-P-16	A speleothem GDGT-based reconstruction of temperature changes through the Last Glacial Maximum to early Holocene in central China	Jingjie Zang	A0868
S09-P-17	A decade of tracing hydroclimate shifts in Northwest Africa from speleothems: Bridging the Holocene and Late Pleistocene divide	Khalid Ouaskioud	A0874
S09-P-18	Speleothem evidence of solar modulation on the south Asia monsoon intensity	Shihyu Lee	A0885
S09-P-19	Evolution of Late Cenozoic paleovegetation reconstructed from silica phytoliths preserved in paleosols and its association with climatic oscillations in the Southern Pampas, Argentina	Roberto Donna	A0947
S09-P-20	Water source variability in the Dead Sea Basin since the last deglaciation: Insights from uranium isotopes of authigenic minerals	Jie Zhao	A0953
S09-P-21	Paleoclimate changes inferred from speleothems in Qinba area during the past 100,000 years	Xing Cheng	A1025

POSTER

Fri. 23 May

Oral Sessions

ROOM 1 Session 09

Pleistocene to Common Era climate reconstructions and insights from speleothem and allied archives

Time	Title	Speaker	Abstract ID
11:00-11:15	Reconstructing sub-annual variations in hydroclimate and temperature on the Chinese Loess Plateau based on clumped isotopes of modern and glacial fossil land snail shells	Xiulan Zong	A0489
11:15-11:30	Reconstructing MIS 3 climate during Neanderthal extinction in Iberia using speleothems from Spain	Carlos Pérez-Mejías	A0416
11:30-11:45	Grand dipole response of Asian summer monsoon to orbital forcing	Qin Wen	A0739
11:45-12:00	Deciphering climate patterns across the last glacial-interglacial transition in Northwest Africa: Insights from speleothems	Khalil Azennoud	A0547
12:00-12:15	Seasonal monsoon variations and collapse of Late Bronze Age civilization in China	Fangyuan Lin	A0540
12:15-12:30	Reconstructing Drought and Climate Variability in Semi-Arid Brazil through Speleothem Records	Juliana De Sousa Nogueira	A0119

ROOM 2 Session 15

Climate and environmental changes in permafrost regions: Paleoeological perspectives

Time	Title	Speaker	Abstract ID
11:00-11:15	Insights into the Holocene peatlands carbon dynamics based on high-altitude and high-latitude peatland studies	Haiyan Zhao	A0342
11:15-11:30	Assessment of peat accumulation dynamics in Siberian peatlands using radionuclide chronology	Natalia Kuzmenkova	A0442
11:30-11:45	A vertical profile study of permafrost microbial community structure and metagenome in Arxan region, Greater Khingan Mountains	Haiwen Xia	A1000
11:45-12:00	Vegetation succession under permafrost degradation: A Case study of Northeast China	Shuhan Zhou	A1012

Time	Title	Speaker	Abstract ID
12:00-12:15	Vegetation succession driven by permafrost thawing in semi-arid regions: Pollen evidence from Northeast China	Sihan Sun	A0111
12:15-12:30	Moisture shifts in permafrost regions of inland Northeast Asia controlled by westerlies during the last millennium	Zhengyu Xia	A0955

Session 03 ROOM 3

Human Traces of Earth system changes

Time	Title	Speaker	Abstract ID
11:00-11:15	The signal of agropastoral activities in sedimentary DNA and pollen records since 3.7ka BP in the Ili River Basin, Central Asia	Peilun Liu	A0300
11:15-11:30	Large sediment methane production potential in reservoirs compared to lakes and rivers	Liu Liu	A0712
11:30-11:45	Early human impacts in the Tibet-Yi corridor: Sedimentary evidence of soil erosion from two alpine lakes	Lili Pan	A0508
11:45-12:00	Human-induced prehistoric and historical soil erosion: Sedimentary evidence from Lake Jian, southwestern China	Tao Wang	A0454
12:00-12:15	A millennium history of ancient zinc metallurgy linked to cooper coinage technological transition in Central China	Lingyang Kong	A0731
12:15-12:30	Sediment signals of early anthropogenic traces and lake ecosystem responses in Southwest China	Guangjie Chen	A0759

Session 24 ROOM 4

Pacific, Indian and Atlantic: Tropical climate mean-state and variability across time scales

Time	Title	Speaker	Abstract ID
11:00-11:15	Glacial hydroclimate over the tropical West Pacific: Inferences from vegetation landscape and modelling studies	Enqing Huang	A0169

ORAL

Fri. 23 May

Time	Title	Speaker	Abstract ID
11:15-11:30	Tracing the stepwise warming trend in the tropical Indian Ocean through a 40-year record of oxygen isotope composition in Maldives corals	Ke Lin	A0209
11:30-11:45	Indo-Pacific climate variability modulates subsurface temperature variability recorded in Andaman Sea corals during the last centuries	Hana Camelia	A0225
11:45-12:00	Reconstructing rapid climate variability in the Indo-Pacific Warm Pool: Insights from Tridacna shell during the Holocene	Clara Boutreux	A0244
12:00-12:15	Precession control of temperature seasonality changes in the West Pacific Warm Pool since the Last Glacial Maximum	Zijie Yuan	A0292
12:15-12:30	Reconstruction of the hydroclimate variability in the southern Andaman Sea over the last 110 ka	Ana Alves	A0329

ROOM 5**Session 22**

Understanding thresholds, tipping points, and abrupt climate change across different spatial-temporal scales

Time	Title	Speaker	Abstract ID
11:00-11:15	Ocean heat content as a framework for understanding global climate coupling during Dansgaard-Oeschger cycles	Joel Pedro	A0164
11:15-11:30	Role of atmospheric and ocean circulations in controlling the ITCZ movement in a warming world	Aixue Hu	A0335
11:30-11:45	Two-stage climate and vegetation change at the East Asian monsoonal margin across the Miocene Climatic Optimum	Jian Wang	A0373
11:45-12:00	Quantifying the impact of AMOC variations on atmospheric CO ₂ and ocean deoxygenation in the past climate	Bo Liu	A0374
12:00-12:15	Open ocean convection drives enhanced eastern pathway of the glacial Atlantic Meridional Overturning Circulation	Sifan Gu	A0400
12:15-12:30	Combined control of polar stratification and iron fertilization on the Late Pliocene atmospheric pCO ₂ drawdown.	Jinlong Du	A0482

Poster Sessions

12:30-14:00

Session 03. Human traces of earth system changes

No.	Title	Presenter	Abstract ID
S03-P-1	Palaeogeographical reconstructions of the Pattanam site: insights into coastal geomorphology and ancient global maritime trade networks of Kerala, India	Linto Alappat	A0173
S03-P-2	Effects of human activities on mountain forest in northern China during the middle Holocene	Xiuxiu Ren	A0259
S03-P-3	Late Holocene humidity changes and extreme drought / dust events in the central Tianshan Mountains	Xiaozhong Huang	A0304
S03-P-4	Human traces in Lake Ladoga records during Holocene	Tatyana Sapelko	A0330
S03-P-6	Radionuclides composition and migration in thermal waters from artesian wells in the eastern Black Sea region	Ekaterina Eremenko	A0435
S03-P-7	Significant shifts in lake seston C:N and trophic stoichiometry along the phosphorus and temperature gradients	Linpei Huang	A0443
S03-P-8	How much sediment is enough? A methodological test to determine the necessary amount of sediment to access microplastics in marine sediment cores	Renata Nagai	A0474
S03-P-11	Post glacial landscape of the central highlands of Kenya: unveiling ancient life and cultures	Christine Omuombo	A0713
S03-P-12	Radiocarbon fingerprinting black carbon source history in the Himalayas	Mo Wang	A0836
S03-P-13	Linked molecular and isotopic indicators of fire history, population, vegetation and climate change in the Maya lowlands	Benjamin Gwinneth	A0875
S03-P-14	The lagoon of Venice (Italy) during the latest Holocene: Insights into settlement dynamics, adaptive behaviours, and palaeoenvironmental reconstructions	Gabriele Niccolini	A0930

POSTER

Fri. 23 May

No.	Title	Presenter	Abstract ID
S03-P-15	Climate and cultural evolution drove Holocene cropland change in the Huai River valley, China	Yanyan Yu	A0935
S03-P-16	The alteration of environmental magnetism by human activities in the sediments of the Yellow River since 1855	Shuang Wang	A0991
S03-P-17	Anthropogenic impacts on western Mediterranean coastal lagoons: A multiproxy approach to historical and recent changes	Marcel Said Galofré Penacho	A1042
Session 24. Pacific, Indian and Atlantic: Tropical climate mean-state and variability across time scales			
S24-P-1	Glacial-deglacial bloom of giant diatoms in the tropical western Pacific through utilization of subsurface nutrients	Wenqin Cai	A0098
S24-P-2	30-years of palaeoenvironmental variation at the end of the Little Ice Age reconstructed from a giant clam shell from the northern Great Barrier Reef	Bohao Dong	A0227
S24-P-3	Simulated tropical Atlantic-Pacific climate variability changes under Holocene and Last Interglacial boundary conditions	Donghao Li	A0250
S24-P-4	Strong ENSO-mean state relationship in the Eastern Pacific during MIS 5e not sustained in glacial times	Matthieu Carré	A0290
S24-P-5	Extreme positive IOD events trigger widespread warming of the Indian Ocean in the following year during the last millennium	Risheng Liang	A0391
S24-P-6	The change in ENSO response outside the Pacific Cold Tongue during the 4.2ka event: Insights from coral records	Shaohua Dang	A0403
S24-P-7	Decadal sea surface temperature changes in the tropical Indian Ocean	Xianfeng Wang	A0407
S24-P-8	Transitional Evolution of the Orbital-cycles in upper-water thermal structure of the Western Equatorial Pacific since the Pliocene	Yu Ren	A0436

No.	Title	Presenter	Abstract ID
S24-P-9	Sedimentary archives from the eastern Indian Ocean showing a major change in both of the Indonesian Throughflow and Australian monsoon at ~1.6 Ma	Jian Xu	A0456
S24-P-10	Variability of the South Pacific Convergence Zone in coupled model simulations of the last glacial cycle and Holocene climate	Josephine Brown	A0509
S24-P-11	Late Miocene biogenic bloom in the western Pacific	Hua Feng	A0559
S24-P-12	Variable correlation between sea surface temperature in global ocean basins and the West African Monsoon during the Last Millennium	Ellen Berntell	A0575
S24-P-13	Emergence of modern Silk Road Pattern no later than Mid-Pliocene	Hanzhao Yu	A0583
S24-P-14	Impact of summer-persistent ENSO events on the global climate and the occurrence of extreme weather events	Anna Schultze	A0601
S24-P-15	Holocene evolution of the tropical variability at interannual scale and the evolution of the mean climate in the Pacific Ocean	Isma Abdelkader Di Carlo	A0606
S24-P-16	Reconstructing the Pacific Decadal Oscillation over the last 2000 years by fusing global terrestrial and marine records	Risheng Liang	A0644
S24-P-17	Hydroclimate variability and Indonesian Throughflow Intensity in the Makassar Strait during the last deglaciation	Marfasran Hendrizan	A0661
S24-P-18	The paleoceanography of the southwest subtropical Pacific during the past 1.2 Myr	Vera Christanti Agusta	A0785
S24-P-19	Calibration study of giant clam <i>Tridacna squamosa</i> Island of Belitung, Indonesia	Mary Elliot	A0787
S24-P-21	Tropical surface and intermediate water changes in the northern Indian Ocean over the last two glacial terminations	Siyao Yu	A0794

No.	Title	Presenter	Abstract ID
S24-P-22	Impact of relationship between El Niño Southern Oscillation and sea surface temperature interannual variability modes in the subtropical Atlantic Ocean and Indian Ocean on Monsoon Precipitation in Southern Africa	Kenedy Silverio	A0821
S24-P-23	Can ocean heat content regulate Indian summer monsoon rainfall?	Yue Wang	A0892
S24-P-24	Gradually warming western Pacific warm pool during late mid-Pleistocene transition and its relationship with the weakening of Indonesian Throughflow	Qi Jia	A0934

Oral Sessions

Session 06 ROOM 1

Reconstructing marine responses: Oxygen and pH dynamics through time

Time	Title	Speaker	Abstract ID
14:00-14:15	Weakened ocean circulation and increased river runoff as the main drivers of deglacial strengthening of the oxygen minimum zone off the Angolan margin	Rodrigo Portilho-Ramos	A1022
14:15-14:30	Reconstructing the oxygen depth profile in the Eastern equatorial Pacific during the last glacial period	Wanyi Lu	A0154
14:30-14:45	Multiproxy reconstructions for bottom water oxygenation dynamics in the Gulf of Cadiz during the Early to Middle Pleistocene Transition (EMPT)	Giulia Molina	A0595
14:45-15:00	Fish-teeth cerium anomaly evidence for bottom water oxygen in the Paleocene-Eocene Thermal Maximum	Xiuwen Zhou	A0125
15:00-15:15	Imprints of Atlantic Multidecadal Oscillation on pantropical seawater pH inferred from coral $\delta^{11}\text{B}$ records	Xuefei Chen	A0516
15:15-15:30	Orbital-timescale deep Southern Ocean CaCO_3 Saturation State variabilities during the Miocene Climate Optimum	Yuhao Dai	A0005

Session 17 ROOM 2

Eolian processes and landscape dynamics in drylands

Time	Title	Speaker	Abstract ID
14:00-14:15	Formation and evolution of the Yellow River: Controversies and solutions	Zhaodong Feng	A0298
14:15-14:30	Complex processes and nonlinear evolution of aeolian landscapes in response to climate change	Zhiwei Xu	A0453
14:30-14:45	Orbital forcing on the hydroclimatic evolution in the Arabian Peninsula since the middle Pleistocene and implications for the Hominin migration	Zhaoxia Jiang	A0956
14:45-15:00	Peat agriculture development and desertification in the Mu Us Dune Field, China	Jiabing Liu	A0544

ORAL

Fri. 23 May

Time	Title	Speaker	Abstract ID
15:00-15:15	Large-number detrital zircon U-Pb ages reveal global cooling caused the formation of the Chinese Loess Plateau during Late Miocene	Hanzhi Zhang	A0053
15:15-15:30	The relationship between the climate of the Holocene optimum and human activities in the Mu Us Desert, China	Xiaokang Liu	A0591

ROOM 3 Session 03

Human Traces of Earth system changes

Time	Title	Speaker	Abstract ID
14:00-14:15	Chronology, environment and early modern human activities in the lower Barakar-Damodar plain, eastern India	Sourav Mukhopadhyay	A0725
14:15-14:30	Holocene climate and human impact in the Mediterranean: Evidence from the semi-enclosed Mar Piccolo Basin (Southern Italy)	Gabriele Niccolini	A0919
14:30-14:45	Early human impact on Canary Island environments: A paleolacustrine perspective	Blas Valero-Garcés	A0932
14:45-15:00	Droughts and social conflict in the Andes of Capricorn during the Late Precolumbian Period (1000-1500 CE)	Mariano Morales	A0951
15:00-15:15	Synthesizing human traces in Latin American paleoenvironments	Nathalie Dubois	A1029
15:15-15:30	Disentangling the climate and human footprints in the past two millennia in South-central Chile: Lake sediment evidence from the coast to the Andes	Alejandra Martel-Cea	A1030

ROOM 4 Session 24

Pacific, Indian and Atlantic: Tropical climate mean-state and variability across time scales

Time	Title	Speaker	Abstract ID
14:00-14:15	Enhanced frequency of multi-year El Niño-Southern Oscillation across the Holocene	Zhengyao Lu	A0375

Time	Title	Speaker	Abstract ID
14:15-14:30	Intensification of the Indonesian Throughflow in a coupled GCM during the last interglacial: A model-Data comparison	Sihua Wei	A0444
14:30-14:45	Forcing mechanisms of the half-precession cycle in the western equatorial Pacific temperature	Zhipeng Wu	A0609
14:45-15:00	Nonlinear sensitivity of ENSO across climate states	Gabriel Pontes	A0614
15:00-15:15	Reconstructing the eastern Indian Ocean hydrology from 1890 to 2011 using monthly resolution coral record from Timor Sea: Implicating Indonesian Throughflow variability over the past century	Padmasini Behera	A0946
15:15-15:30	Discussion		

Session 22

ROOM 5

Understanding thresholds, tipping points, and abrupt climate change across different spatial-temporal scales

Time	Title	Speaker	Abstract ID
14:00-14:15	Precise timing, duration and impact of 4.2 ka event on monsoon seasonality and productivity in the southwestern Bay of Bengal	Mohd Salman	A0523
14:15-14:30	Millennial-scale changes in water availability and its consequences over tropical South America	Cristiano Chiessi	A0620
14:30-14:45	Trace hydrologic cycle on the Iberian Margin during abrupt climate changes	Hongrui Zhang	A0724
14:45-15:00	Long-term stability and episodic intensification of Pacific deep circulation during the Mid-Pleistocene Transition	Ke Li	A0172
15:00-15:15	The eigen-microstate approach and its applications to critical behaviors in earth systems	Yongwen Zhang	A0827
15:15-15:30	Discussion		

ORAL

Fri. 23 May

Poster Sessions

15:30-16:30

Session 17. Eolian processes and landscape dynamics in drylands

No.	Title	Presenter	Abstract ID
S17-P-1	Asynchronous palaeosol development during the past 20 ka in response to climate change across the dune fields of the Asian summer monsoonal boundary, northern China	Bing Liu	A0672
S17-P-2	Luminescence dating of young aeolian dunes in the central Tibetan Plateau	Shengli Yang	A0900
S17-P-3	Mechanism of the significant increase in dust aerosols in inland Asia since the late Miocene — a regional climate simulation	Hui Sun	A1048
S17-P-4	Characteristics of Holocene sandy peat in Mu Us Sandy Land and its implications for climate and environment	Yuhan Liu	A0553
S17-P-5	Spatio-temporal changes and suitability evaluation of photovoltaic power stations in China's desert regions	Yixue Zhao	A0514
S17-P-6	Wind-sand burial and oasis decline: A multidisciplinary perspective on desert shrub dune evolution in the lower Heihe River Basin, China	Xiaoyi Cui	A0501
S17-P-7	Human impact on dryland landscape: Insights from paleoenvironmental, remote sensing, and modeling investigations	Peng Liang	A0001

Session 22. Understanding thresholds, tipping points, and abrupt climate change across different spatial-temporal scales

S22-P-1	Astronomically forced hydrological changes during the Paleocene-Eocene Thermal Maximum	Simin Jin	A0121
S22-P-3	Large increases in Antarctic snowfall during Heinrich Stadials of the last ice age	Ikumi Oyabu	A0238
S22-P-4	Characteristics of self-sustained oscillations of the Atlantic Meridional Overturning Circulation	Frerk Pöppelmeier	A0239

No.	Title	Presenter	Abstract ID
S22-P-5	Understanding the Late Bronze Age civilisation collapse using Holocene transient simulations	Katherine Power	A0281
S22-P-6	Peatlands have the potential to emerge as significant contributors to future climate warming	Nitin Chaudhary	A0289
S22-P-7	Bottom water temperature in the Middle Miocene: Deep heat with limited ice volume	Chunyu Yang	A0308
S22-P-8	Orbitally paced local overprint of a global climate change: the Eocene-Oligocene transition in the Transylvanian Basin (Central Paratethys)	Anna Kicsi	A0310
S22-P-9	Pliocene-Pleistocene climatic transition in East Asia: new insights from the continental sedimentary archive of the Huaihe River Basin, East China	Lei Zhang	A0396
S22-P-10	Preliminary study of abrupt events around MIS M2 using U-Pb dated speleothems	Jian Wang	A0434
S22-P-11	Combined control of polar stratification and iron fertilization on the Late Pliocene atmospheric pCO ₂ drawdown.	Jinlong Du	A0482
S22-P-12	Significant amount of particulate organic carbon transported by event-triggered canyon hyperpycnal flows	Baozhi Lin	A0550
S22-P-13	In search of tipping points on a way to construct a late Pleistocene-Holocene stacked benthic $\Delta^{18}\text{O}$ record of the Caspian Sea	Alina Tkach	A0727
S22-P-14	From past to present: Diversity trends of benthic foraminifera in the margin of NW South America	Raúl Trejos Tamayo	A0777
S22-P-15	Influences of ocean states on the development of the Eurasian ice sheets following MIS 3	Lu Niu	A0855
S22-P-16	Atmospheric blocking as a stabiliser during abrupt climate change in eastern Europe during the Last Deglaciation	Benjamin Gwinneth	A0856
S22-P-17	Global-scale response of temperature and precipitation to the Dansgaard-Oeschger cycles and Heinrich events	Yuta Kuniyoshi	A0959

POSTER

Fri. 23 May

No.	Title	Presenter	Abstract ID
S22-P-18	Simulation method of frozen soil embankment considering refined 3-D structural model	Shuhao Cao	A1007
Session 02. Scales and scaling in the climate system: climate, macroclimate, megacclimate			
S02-P-1	Scaling geological time	Shaun Lovejoy	A0287
S02-P-2	Megacclimate and the scales and modes of mammalian macroevolution—a case of large mammals	Andrej Spiridonov	A1054
S02-P-3	A diagnostic method to decompose the throughflows into the wind-driven current and upwelling in the paleoclimate study	Jilin Wei	A0557
S02-P-4	Hydroclimatic evolution of the southwestern Tibetan Plateau since the last glacial maximum inferred from a multi-proxy lake record	Yuan Ling	A0901
S02-P-5	Vegetation and climate changes in the western Chinese Loess Plateau since Marine Isotope Stage 5	Xiaoxiao Yang	A0966
S02-P-7	Impact of meteorological-scale phenomena on paleoclimate reconstructions: Uncertainties in stable water isotope variations in Antarctic ice cores due to synoptic-scale atmospheric circulation	Kanon Kino	A0664
S02-P-8	Understanding the role of moisture transport in the interdecadal shift of East Asian summer monsoon precipitation variability	Wenlan Ma	A0747
S02-P-9	The potential role of the Atlantic Meridional Overturning Circulation as an internal mechanism modulating the quasi-200-year Suess/de Vries climate cycle	Ning Cao	A0554
S02-P-10	Effects of permafrost stability changes on vegetation dynamics in the middle part of the Greater Khingan Mountains	Jiaman Sun	A0990
S02-P-11	Detection of dust impact in a changing climate in small-scale insights to understanding oak forest decline (case study: Kordestan Province)	Tahereh Ensafi Moghaddam	A0026

No.	Title	Presenter	Abstract ID
S02-P-12	Explanation of the regional conditions related to the danger of heat waves and dust in the Zagros forests in western Iran (Kurdistan province)	Tahereh Ensafi Moghaddam	A0844
S02-P-13	Synoptic regimes and climatic drivers of persistent low temperature, rain-snow, and freezing extremes over South China: a comparative analysis of 2008 and 2022	Runzhao Hu	A0734

POSTER

Fri. 23 May

Plenary room

Keynote 6

Chair: Fabrice Lambert

Time	Title	Speaker	Affiliations
16:30-17:15	Role of the Southern Ocean in changes of past atmospheric CO ₂ and implications for the future	Laurie Menviel	Climate Change Research Centre, University of New South Wales, Australia
17:15-18:00	Pleistocene CO ₂ variability inferred from the Bay of Bengal leaf-wax carbon isotopes	Masanobu Yamamoto	Faculty of Environmental Earth Science, Hokkaido University, Japan

ORAL

Fri. 23 May

Plenary room

Keynote 7

Chair: Yair Rosenthal

Time	Title	Speaker	Affiliations
08:30-09:15	The space-time structure of climate variability	Thomas Laepple	Alfred-Wegener-Institut Helmholtz-Zentrum für Polar- und Meeresforschung MARUM–Center for Marine Environmental Sciences and Faculty of Geosciences, University of Bremen, Bremen, Germany
09:15-10:00	Sea-level science in Singapore and southeast Asia	Benjamin Horton	The School of Energy and Environment, City University of Hong Kong, China

Sat. 24 May

ORAL

Poster Sessions

10:00-11:00

Session 15. Climate and environmental changes in permafrost regions: Paleoeological perspectives

No.	Title	Presenter	Abstract ID
S15-P-1	Changes in the structure of atmospheric precipitation in Nuuk (SW Greenland) from the late 19th to early 21st centuries	Andrzej Arażny	A0368
S15-P-2	Characteristics of tropical lowland peatlands (mangrove swamps) in South Asia	Amila Sandaruwan Ratnayake	A0023
S15-P-3	Application of an incubation experiment as a method for assessing organic carbon decomposition rate on permafrost degradation in peat plateaus	Aleksandr Pastukhov	A0142
S15-P-4	Quantitative pollen-based reconstructions of climate characteristics and forest coverage for the permafrost zone of central Siberia: Evaluation of different techniques	Rodion Andreev	A0149
S15-P-5	Surface pollen assemblages and their interpretation: a case study of the north-western Putorana Plateau (northern Central Siberia, Russia)	Ekaterina Makarova	A0328
S15-P-6	Genesis of massive ice beds and host sediments of the coastal plains of Western Siberia and Eastern Chukotka	Lev Kuziakin	A0331
S15-P-7	Mysteries of the frozen peat bog in the northern taiga of Western Siberia	Tatiana Blyakharchuk	A0338
S15-P-8	Lithological features of Lama Lake sediments (Russia)	Anastasiia Iusupova	A0441
S15-P-9	Climatic changes in stable isotope ($\delta^{13}\text{C}$ and $\delta^{15}\text{N}$) records of palsa peat deposits in Central Siberia	Anatoly Prokushkin	A0490
S15-P-10	Carbon and nitrogen stable isotope ($\delta^{13}\text{C}$ and $\delta^{15}\text{N}$) records in peat mosses of the Central Siberia	Daria Polosukhina	A0493
S15-P-11	Main indicators and features of Late Pleistocene-Holocene sediment accumulation in Sosednee glacial Lake, North-Eastern Siberia	Denis Petrov	A0496
S15-P-12	Chemical weathering throughout the Yarlung Zangbo river system on the Tibetan Plateau	Mingyang Yu	A0520

No.	Title	Presenter	Abstract ID
S15-P-13	Environmental conditions in the Laptev Sea coastal region during the Last Interglacial based on the analysis of aquatic invertebrate communities	Larisa Frolova	A0562
S15-P-14	Climate change affecting sedimentary and fluvial processes in Arctic river deltas	Kristina Prokopeva	A0569
S15-P-15	Westerlies and Asian Summer Monsoon modulated the iodine sink in Tibetan Plateau recorded in Zoige peatland	Yukun Fan	A0588
S15-P-16	Holocene environmental changes in the southern Barents Sea based on a 14C dated palynological record from the Kola Trough	Olga Rudenko	A0592
S15-P-17	Paleochannels as indicators of climate-induced changes in runoff in the Volga river basin (East European plain)	Vadim Ukraintsev	A0616
S15-P-18	Early-Middle Holocene environmental changes as recorded in the C-N ratio of the Lorino high-centered peatlands, eastern coast of Chukchi Peninsula	Alla Vasil'chuk	A0621
S15-P-19	Features of distribution and forms of presence some metals in the bottom sediments of lakes with different anthropogenic load	Yulia Kreven	A0694
S15-P-20	Geochemistry of buried peatlands of the Ishim-Irtys interfluvium (Russia)	Natalia Larina	A0726
S15-P-21	Traces of ancient permafrost of the Upper Angara region: The Late Paleolithic site Malta-Most 3	Eseniia Shchipanova	A0749
S15-P-22	Quantitative reconstruction of permafrost and climatic conditions of the periglacial zone of Western Siberia in the Late Quaternary	Sergei Larin	A0750
S15-P-23	Hydrological response of the Kolyma River Basin to climate change in the XXI century	Anastasia Lisina	A0753
S15-P-24	The palynospectra from surface sediments of different genesis from two small arctic islands within the Lena River Delta (East Siberia) - do they adequate to modern vegetation?	Olga Rudenko	A0761
S15-P-25	Holocene and modern ice wedges at the southern limit of their distribution in the North-West Siberia	Lev Kuziakin	A0771

No.	Title	Presenter	Abstract ID
S15-P-26	Investigations of the morphology of deep scour holes in the Anadyr River within the depression of the glacier-dammed lake: First field results	Danila Shkolnyi	A0789
S15-P-27	Recent climate change has driven divergent hydrological shifts in high-latitude peatlands	Hui Zhang	A0870
S15-P-28	Reproduction and restoration of data on average annual soil surface temperature in the Yamal-Nenets Autonomous Okrug according to CMIP6 models	Ekaterina Shtol	A0909
S15-P-29	Study on the spatial heterogeneity and driving factors of geological disasters susceptibility in the permafrost regions of Northeast China	Lisha Qiu	A0981
S15-P-30	Simulation of spatiotemporal distribution and variation of 30 m resolution permafrost in Northeast China from 2003 to 2021	Chengcheng Zhang	A0989
S15-P-31	Holocene swamp carbon burial in the southernmost high-litudinal permafrost region in Northeast China: Processes and influencing factors	Ying Cheng	A1005

Session 06. Reconstructing marine responses: Oxygen and pH dynamics through time

S06-P-1	Proxies of hypoxia and submarine groundwater discharge in the coastal ocean: Foraminiferal shell chemical perspectives	Xiaoyi (Gloria) Guo	A0070
S06-P-2	Tracking the oxygen minimum zone in the Arabian Sea during the Holocene	Sha Ni	A0327
S06-P-3	Imaging the past: μ CT analysis of foraminiferal morphology to trace marine environmental changes	Helena Filipsson	A0437
S06-P-4	Redox records in the northernmost Arabian Sea: Implications of the deep circulation in Indian Ocean	Gang Li	A0483
S06-P-5	Foraminifera-bound nitrogen isotope ratio measurements from the Arabian Sea oxygen-deficient zone over the last 150 thousand years	Udara Amarathunga	A0612
S06-P-6	Extremely poleward shift of Antarctic circumpolar current by eccentricity during the last interglacial	Xufeng Zheng	A0636
S06-P-7	Did the deep subpolar North Atlantic lose its breath during glacials of the Mid-Pleistocene Transition?	Ivan Hernandez-Almeida	A0805

No.	Title	Presenter	Abstract ID
S06-P-8	Magnetofossil reconstruction of late Quaternary oxygen evolution in the Bengal Fan	Rong Huang	A0910
S06-P-9	Deep water oxygenation changes in the Northwest Pacific Ocean during the Pliocene-Pleistocene climate transition	Rong Hu	A0998
S06-P-10	Evolution of ocean oxygen-deficient zones and nitrogen cycling during the Paleocene-Eocene Thermal Maximum	Weiqi Yao	A0043
S06-P-11	The Southern Ocean's role in the global carbon cycle over the last 800 kyr constrained using reconstructions of the CO ₂ system	Chen Xu	A0150
S06-P-12	Ferromanganese nodules as archives: unravelling the paleoceanographic variations on the archipelagic aprons of seamounts in Northwestern Pacific Ocean	Pengfei Yao	A0221
S06-P-13	Variations in Mediterranean thermohaline circulation since the Last Glacial Maximum	Yan Zhang	A0228
S06-P-14	Oxygenation conditions of Pacific intermediate and deep waters during the mid-Miocene	Xiaoli Zhou	A0360
S06-P-15	The east Pacific oxygen minimum zone during the Pliocene	Jeroen Groeneveld	A0427
S06-P-16	Fe availability drove biogenic magnetite production in the early Eocene proto-Mediterranean region	Victor Piedrahita	A0465
S06-P-17	Paleoproductivity and deep-sea oxygenation in Cosmonaut Sea since the Last Glacial Maximum: impact on atmospheric CO ₂	Xibin Han	A0558
S06-P-18	Boron incorporation in coral skeletons: Biomineralization mechanisms and potential for seawater carbonate chemistry reconstructions	Sang Chen	A0631
S06-P-19	Accurate LA-ICP-MS calibration for B/Ca in coral skeleton with matrix-matched standards: A potential proxy for seawater carbonate chemistry	Zhekai Tang	A0814
S06-P-20	Possible feedback mechanisms in alkalinity transport during glacial-interglacial cycles	Yael Kiro	A0952

Sat. 24 May

POSTER

Oral Sessions

ROOM 1 Session 02

Scales and scaling in the climate system: Climate, macroclimate, megacclimate

Time	Title	Speaker	Abstract ID
11:00-11:15	Astronomical forcing and climatic cycles in Late Triassic (Norian) sedimentary records of the UK	Jianxiong Dai	A0249
11:15-11:30	Scaling Geochronologies	Shaun Lovejoy	A0288
11:30-11:45	Orbital modulation reveals the decoupling of millennial-scale climate changes in atmospheric methane and Asian monsoon	Anguo Xiao	A0573
11:45-12:00	Spectral model from macroweather to climate: The half-order EBM and ENSO models	Raphaël Hébert	A0737
12:00-12:15	Internal variability of the AMOC as a potential driver of multi-centennial climate variability on the Tibetan Plateau	Weinan Jiang	A0279
12:15-12:30	Structure and changes of multivariate climate proxy variability during the last glacial period	Johannes Lohmann	A0721

ROOM 2 Session 15

Climate and environmental changes in permafrost regions: Paleoeological perspectives

Time	Title	Speaker	Abstract ID
11:00-11:15	Reconstruction of landscape and climatic conditions of the Last Interglacial-Glacial macrocycle in North-Eastern Siberia based on palynological studies of mammoth fauna remains	Olga Borisova	A0177
11:15-11:30	Effects of climate change and fire on the middle and Late Holocene forest history of Yenisei Siberia	Elena Novenko	A0195
11:30-11:45	Microelement composition of the bottom sediment of Lake Nizhnee Multinskoe (Altai, Russia) as a basis for paleoclimatic reconstructions	Viacheslav Novikov	A0240
11:45-12:00	Holocene wildfire dynamics and their drivers in central Yakutia, Siberia: A regional composite of paleofire data based on charcoal in lake sediments	Ramesh Glueckler	A0527

Time	Title	Speaker	Abstract ID
12:00-12:15	Long-Term evolution of Yakutian Lakes: Climate-driven changes in permafrost-associated ecosystems since the Last Glacial Maximum	Izabella A. Baisheva	A0539
12:15-12:30	TBC		

Session 21

ROOM 3

Millennial-scale changes in tropical precipitation: Lessons from the past for a changing future

Time	Title	Speaker	Abstract ID
11:00-11:15	Responses of Amazonian vegetation to a slowdown of the Atlantic Meridional Overturning Circulation: Past perspectives and future insights	Thomas Akabane	A0018
11:15-11:30	Intensified North Atlantic subtropical high forcing of millennial Atlantic Warm Pool droughts	Hanying Li	A0151
11:30-11:45	The impacts of an AMOC slowdown on Australasian hydroclimate during Heinrich 5 and the 8.2 ka event	Yanxuan Du	A0336
11:45-12:00	Two regimes of meridional ITCZ adjustment during millennial-scale North Atlantic cold events	Rodrigo Nascimento	A0381
12:00-12:15	The tropical response to weakening of the Atlantic Meridional Overturning Circulation	Pedro DiNezio	A0773
12:15-12:30	Suborbital- and millennial-scale monsoon variability during Pleistocene interglacials	Youbin Sun	A0912

Session 16

ROOM 4

Emerging physical and geochemical proxies in sedimentary paleoclimate studies

Time	Title	Speaker	Abstract ID
11:00-11:15	Impact of volcanic and banana plantation derivatives in a tropical small mountainous river in Costa Rica	Ana Vasquez	A0017
11:15-11:30	Responses of Tibetan antelope population to environment changes during the Holocene	Juzhi Hou	A0052
11:30-11:45	Quaternary climate change in East Asia as recorded by microcodium on the Chinese Loess Plateau	Gaojun Li	A0099

Sat. 24 May

ORAL

Time	Title	Speaker	Abstract ID
11:45-12:00	Unraveling the causes of Pliocene warmth: Carbonate clumped-isotope palaeotemperature and pCO ₂ reconstructions in Chinese loess	Shiling Yang	A0134
12:00-12:15	Nd isotope compositions: A proxy to reconstruct past ocean circulations and lithogenic Nd input from continental erosion	Yi Huang	A0432
12:15-12:30	Li isotope composition of authigenic clays and its application across the K-Pg boundary	Chengfan Yang	A0879

ROOM 5 Session 22

Understanding thresholds, tipping points, and abrupt climate change across different spatial-temporal scales

Time	Title	Speaker	Abstract ID
11:00-11:15	Threshold on sea level rise and ice sheet melting on tropical hydrology and health	Gilles Ramstein	A0811
11:15-11:30	Tipping of Atlantic Meridional Overturning Circulation (AMOC) under different types of forcings	Yonggang Liu	A0922
11:30-11:45	Role of thermal component for driving the millennial-scale oscillations of the Atlantic meridional overturning circulation	Yuta Kuniyoshi	A1045
11:45-12:00	Bistability of AMOC and Millennial scale climate variability: Dependence on background climate condition in the past, present and future	Ayako AbeOuchi	A1050
12:00-12:15	First signs of millennial climate variability during the late Pliocene intensification of Northern Hemisphere Glaciation	Mengyao Du	A1052
12:15-12:30	Ambitious but delayed mitigation might not avoid crossing climate tipping thresholds	Anastasia Romanou	A1055

Poster Sessions

12:30-14:00

Session 16. Emerging physical and geochemical proxies in sedimentary paleoclimate studies

No.	Title	Presenter	Abstract ID
S16-P-1	Climate of the last 2500 years in the central Andes of Peru based on peatland deposition	Yizet Huaman Navarro	A0467
S16-P-2	BrGDGTs-based temperature reconstruction on the Tibetan Plateau: Insights from cumulative positive degree days	Shengfang Zhou	A0083
S16-P-3	Holocene gradual warming and drying in tropical Australia based on branched tetraether lipid evidence	Weiwei Sun	A0096
S16-P-4	Reconstructing the past functioning of the biological carbon pump: A sedimentary ancient DNA approach	Ana Manuel Resende Gomes	A0015
S16-P-5	Global reconstruction of ocean export productivity from the late Eocene to the early Oligocene	Ruiling Zhang	A0080
S16-P-6	Phosphorus cycling in the eastern equatorial Pacific during the Middle Miocene Climate Optimum	Yilin Liu	A0157
S16-P-7	Cautionary tales in paleoproductivity reconstruction: a case study from the Bay of Bengal	Sudhira Ranjan Bhadra	A0242
S16-P-8	Unravelling asynchronicity of LIA with equatorial climate of south west coast of India based on multi-proxy studies	Pooja Tiwari	A0038
S16-P-9	Reconstructing the past shifts in Southern Ocean fronts using the planktonic foraminiferal assemblages	Sreevidya Edayilam	A0361
S16-P-10	Best practice to extract Na/Ca data from epibenthic foraminifers for paleoceanographic reconstructions – a cleaning reagent comparison	Nazik Öğretmen	A0148
S16-P-11	First evidence for the reappearance of Globigerinoides ruber (pink) in downcore sediments of the northeastern Indian Ocean since 120 kyr BP	Ammoose K Jayan	A0580

Sat. 24 May

POSTER

No.	Title	Presenter	Abstract ID
S16-P-12	Holocene warming and seasonal stratification of the Arabian Sea	Ponnusamy Saravanan	A0495
S16-P-13	Exploring coccolith morphology proxies for assessing carbonate saturation changes	Amanda Gerotto	A1037
S16-P-14	Shallow benthic foraminifera as indicator of environmental changes in Singapore	Yu Ting Yan	A0647
S16-P-15	Two millennia precipitation reconstruction in northeast Brazil using luminescence sensitivity of quartz	Viviane Korres Bisch	A0109
S16-P-16	Glacial-interglacial cycles recorded in clay minerals from the eastern Tibetan Plateau over the last 800 ka and their indications	Chunxia Zhang	A0979
S16-P-17	Powerful proxies of change: deterministic rules of assembly guide the composition of diatom communities as observed in ancient Lake Towuti, Indonesia	Mariam Ageli	A0774
S16-P-18	Understanding monsoon variability in North India through lake sediments and water isotopes	Anubhav Singh	A0682
S16-P-19	Glacier and glacial lake changes: Linking the present to the Last Glacial Maximum climate in North Sikkim, Eastern Himalaya	Manasi Debnath	A0673
S16-P-20	Hyperspectral imaging and high-resolution biogenic sedimentary proxies of the mid-elevation lake Khorlaket (Western Caucasus)	Mikhail Alexandrin	A0277
S16-P-21	High-resolution precipitation records and paleo-flood events during the Middle-Early Holocene in southwest Taiwan revealed by XRF scanning of sedimentary cores	Kuoyen Wei	A0384
S16-P-22	Recognition of the sedimentary record of tropical storm deposits from granulometric characteristics from the Bichitrapur coastal area of the Bay of Bengal, India	Koushik Saha	A0322
S16-P-23	Abyssal and hadal sediment dynamics caused by the mixture of gravity flows and contour currents in the Diamantina Fracture Zone (SE Indian Ocean)	Xun Yang	A0167
S16-P-24	Holocene to Anthropocene burial of organic carbon in the Yangtze Delta	Jianfeng Su	A0417

No.	Title	Presenter	Abstract ID
S16-P-25	Reconstruction of weathering history in Himalayan foreland basin since 12 Ma: Links to global cooling and Himalayan uplift	Mohd Munazir Chauhan	A0666
S16-P-26	Incorporation of trace metals into land snail shell on the Chinese Loess Plateau as proxies for paleo-precipitation	Zixuan Hao	A0095
S16-P-27	Late-Pleistocene short-term climatic and environmental oscillations in the Mologa-Sheksna Lowland (northern East European plain): State-of-the-art	Dmitrii Sadokov	A0543
Session 21. Millennial-scale changes in tropical precipitation: Lessons from the past for a changing future			
S21-P-1	Oscillations in mid- to late Holocene environments of the lower Negro River, central Amazonia, recorded in pollen and diatom from Lake Pacú sediments	Erika Rodrigues	A0040
S21-P-2	Amazon Basin precipitation under different Atlantic Meridional Overturning Circulation and sea surface temperature scenarios during the Heinrich Stadial 1 and Younger Dryas	Júlia Grigolato	A0075
S21-P-3	Retreating ice sheet caused a transition from cold-dry to cold-humid conditions in arid Central Asia	Liangqing Cheng	A0091
S21-P-4	The fate of Amazon sediments since the Last Glacial Maximum	Renê Magalhães	A0093
S21-P-5	Paleoprecipitation pattern over the last millennia in drylands of Northeast Brazil	Giselle Utida	A0207
S21-P-6	New insights of the Heinrich events inferred by speleothems from Northeast Brazil	Haiwei Zhang	A0220
S21-P-7	ENSO modulated rainfall variations in the Western Pacific Warm Pool during the Holocene	Botond Lázár	A0232
S21-P-8	Interstadial diversity of East Asian summer monsoon linked to changes of the Northern Westerlies	Xiyu Dong	A0269
S21-P-9	Interhemispheric Monsoon Variability and its possible forcing during Heinrich Stadial 4: Insights from low latitude speleothem records	Rui Zhang	A0347
S21-P-10	Distinct responses of Asian summer monsoon circulation and precipitation to orbital forcing during six Heinrich events	MingQiang Liang	A0353

Sat. 24 May

POSTER

No.	Title	Presenter	Abstract ID
S21-P-11	Tracing climate transitions and millennial-scale monsoon variability from the Andaman Sea sediments	Sreevidya Edayilam	A0363
S21-P-12	Rapidly increased salinity of Indonesian Throughflow waters into the Indian Ocean linked to weakened AMOC during the last two terminations	Xiaolei Pang	A0399
S21-P-13	Millennial-scale variability of the Asian summer monsoon over the last 690,000 years: Insights from cave records	Xiaowen Niu	A0431
S21-P-14	The last 21,000 years of climate evolution in the South American Altiplano based on the CHELSA-TraCE21k transient simulation	Ignacio Jara	A0596
S21-P-15	The monsoon influence on sea surface temperatures in the subtropical South Atlantic during last glacial period	Francisco Cruz	A0599
S21-P-16	North Atlantic SST gradients and their influence on hydroclimate shifts and atmospheric circulation dynamics	Teresa Rodrigues	A0605
S21-P-18	Indian hydroclimate and vegetation during glacial MIS 16: Disentangling high- and low-latitude forcings	Dulce Oliveira	A0748
S21-P-19	ITCZ movement during Termination IV in South America reconstructed by speleothem records	Rishui Chen	A0804
S21-P-20	Precession driven low-latitude precipitation paced by shifting perihelion	Hu Yang	A0852
S21-P-21	Millennial-scale evolution of South Asian summer monsoon during the late Pliocene recorded in the Yuanmou Basin, southwestern China	Ze Zhang	A0908

Oral Sessions

Session 05

ROOM 1

Understanding drivers of paleo sea-level changes
through proxies and modeling

Time	Title	Speaker	Abstract ID
14:00-14:15	Holocene geomorphological evolution of a sediment-starved coastal embayment in response to sea level change: Insights from the Qing'ao Embayment, Southern China	Fengling Yu	A0531
14:15-14:30	Underestimated vertical land motion signal in sea-level projections in the Oka Estuary, Northern Spain: Insights from paleo RSL data and GIA model	Tanghua Li	A0116
14:30-14:45	Reconstructing Pliocene-Pleistocene sea-level change through drilling on the tropical Sunda Shelf	Zhifei Liu	A0626
14:45-15:00	Impact of global mean sea level on past and future climates	Gilles Ramstein	A0687
15:00-15:15	Sea levels since the Last Glacial Maximum from the Atlantic coast of Africa and Southeast Asia	Benjamin Horton	A0191
15:15-15:30	Early Holocene sea-level changes along the western Bohai Sea coast: Far-field responses to meltwater pulses	Lizhu Tian	A0390

Session 15

ROOM 2

Climate and environmental changes in permafrost regions:
Paleoecological perspectives

Time	Title	Speaker	Abstract ID
14:00-14:15	Paleoecological environmental changes in the polygonal peatlands near Novyi Port in the Southeast Yamal Peninsula over the Holocene	Alla Vasil'chuk	A0481
14:15-14:30	Climate-induced water table drawdown reduced carbon and Nitrogen sequestration in a Kobresia-dominated Peatland on the central Qinghai-Tibetan Plateau	Tingwan Yang	A0504
14:30-14:45	Towards the reconstruction of Arctic coastal landscapes dynamics in Pechora and Kara seas during Holocene	Vladislav Isaev	A0519
14:45-15:00	Constraining the Little Ice Age moraines in the Western Himalayas	Rakesh Saini	A0033

Sat. 24 May

ORAL

Time	Title	Speaker	Abstract ID
15:00-15:15	Cyclic activity of Muztagh Ata Glacier in the East Pamir and potential North Atlantic climate forcing during the mid-Holocene: Evidence from continuous glaciolacustrine sediment records	Xiaolong Zhang	A0889
15:15-15:30	Field-scale distribution of permafrost in Northeast China	Shuai Liu	A0980

ROOM 3 Session 08

Leveraging paleoecology for sustainable ecosystem restoration in the Anthropocene

Time	Title	Speaker	Abstract ID
14:00-14:15	Problems and prospects in the application of palaeoecology to managing ecosystems in the Anthropocene: Examples from Africa and China	Michael Meadows	A0799
14:15-14:30	Palaeoecology as a guide for restoration: Case of the open and mosaic ecosystems of the Central Highlands of Madagascar	Andriantsilavo H.I. Razafimanantsoa	A0311
14:30-14:45	Protecting the future by learning from the past: Salmon nursery lake ecosystem reconstruction through sedimentary DNA	Yuanyu Cheng	A0204
14:45-15:00	Integrating dendroecology into restoration practice and policy	Aster Gebrekirstos	A0982
15:00-15:15	Accelerated ecological shifts in a Tibetan alpine lake reveal ecosystem sensitivity to climate change	Yanjie Zhao	A0102
15:15-15:30	Sedimentary DNA reveals historical cyanobacterial responses to environmental and anthropogenic changes	Robin Crucitti-Thoo	A0200

ROOM 4 Session 16

Emerging physical and geochemical proxies in sedimentary paleoclimate studies

Time	Title	Speaker	Abstract ID
14:00-14:15	Morphological attributes of coccoliths as a new proxy for carbonate saturation in the South China Sea in the last 200 kyr	Amanda Gerotto	A0470

Time	Title	Speaker	Abstract ID
14:15-14:30	A marine barite perspective of the Late Miocene biogenic bloom in the equatorial Indian Ocean and equatorial Western Atlantic Ocean	Xinying Wu	A0124
14:30-14:45	What lipid biomarkers and sedaDNA tell us about the marine primary production variations on the Iberian Margin over the last millennium?	Livia Gebara M. S. Cordeiro	A0045
14:45-15:00	Evaluation of sedimentary DNA as a Southern Ocean sea ice proxy	Nele Vollmar	A0143
15:00-15:15	Ecosystem structure and biologic carbon pump efficiency: New insights from compound-specific amino acid $\delta^{15}\text{N}$	Chen Li	A0657
15:15-15:30	Multiple isotopes trace the environmental signal propagation in the East Asian continental margins	Shouye Yang	A0829

Session 13

ROOM 5

Assessing plants diversity in time and space may help conservation approaches

Time	Title	Speaker	Abstract ID
14:00-14:15	Come rain or come shine, the species richness will decline in the Moroccan mountains	Rachid Cheddadi	A0945
14:15-14:30	Modern pollen–plant diversity relationships for reliable pollen-based reconstruction of past plant taxonomic and functional diversity: A case study in Southwest Shandong, China.	Siqi Xie	A1018
14:30-14:45	Fagus diversification in China in relation to East Asian monsoon evolution	Qiuchi Wan	A0512
14:45-15:00	Changes in plant diversity in the Altai mountains during the Holocene: Trends, patterns and drivers	Natalia Rudaya	A0171
15:00-15:15	Mangrove dynamics and coastal environmental changes from Northern Hainan Island, China	Yaze Zhang	A0983
15:15-15:30	Volcanic influences on biodiversity in the northern andes: Bridging paleoecology and ecology	Catalina Gonzalez-arango	A0766

Sat. 24 May

ORAL

Poster Sessions

15:30-16:30

Session 11. New horizons for paleosciences outreach

No.	Title	Presenter	Abstract ID
S11-P-1	Preserving Klang Cave: 3D Virtual Tourism for Sustainable Development in Thailand	Sakonvan Chawchai	A0132
S11-P-2	Connecting science and society: Outreach in paleosciences through SPP 2299	Jessica Hargreaves	A0365
S11-P-3	Hands-on Paleoscience: Inspiring future generations through interactive learning	Jin Xu	A0703
S11-P-4	Bridging the past and present: Integrating art, paleoecology, and local knowledge in volcanic socio-ecological systems	Catalina Gonzalez-Arango	A0772
S11-P-5	Paleoscience comics for young adults: The future of PAGES horizons journal	Ivan Hernandez-Almeida	A0807
S11-P-6	Visualising ancient Maya environmental change	Benjamin Gwinneth	A0860
S11-P-7	Detailed investigation of pretreated arundo Donax L. biomass for efficient glucose production	Sabahat Majeed	A0976

Session 26. Contribution of past fire time-series and models to fire science across the Earth system

S26-P-1	Increasing spring dryness accelerates the transition toward pyrogenic vegetation in eastern boreal North America	Jonathan A. Lesven	A0216
S26-P-2	The history of forest fires in the central part of the East European Plain in the Holocene	Dmitriy Kupriyanov	A0344
S26-P-3	History of wildfires in the western and central part of the Central Siberian Plateau: Long-term fire activity based on peat archives	Anton Shatunov	A0420
S26-P-4	Reconstructing 13,000 years of fire history and ecosystem responses from lacustrine sediments in a low-flammability central European landscape	Alicja Bonk	A0433
S26-P-5	The history of vegetation fires recorded in annually laminated lake sediments of Lake Lehmilampi (Finland)	Alicja Bonk	A0439

No.	Title	Presenter	Abstract ID
S26-P-6	The SNSF Advanced Grant project BurnIce: Reconstructing past biomass burning emissions from atmospheric ethane concentrations	Markus Grimmer	A0757
S26-P-7	Reconstructing volcanic histories: Spectral footprints of the Doña Juana eruptions	Santiago Reinoso	A0802
S26-P-8	Spatiotemporal evolution of wildfire activity during the Paleocene-Eocene Thermal Maximum in China	Xue-Ting Wang	A0897
S26-P-9	Twentieth Century change in the fire regimes of the Blue Mountains of NSW as recorded in the accumulation and character of charcoal in Temperate Highland Peat Swamps	Maame Maisie	A0973
Session 05. Understanding drivers of paleo sea-level changes through proxies and modeling			
S05-P-1	Mid-Holocene hydro-ecological evolution and human adaptation on the Fenghua River plain, eastern China	Dezhuo Song	A0358
S05-P-3	Diatom-inferred water depth changes since 1850s in Pinqing Lagoon, a typical coastal lagoon in South China	Yupei Zhang	A0962
S05-P-4	Multidisciplinary analysis of Pleistocene beach ridges unveiling sea-level and environmental conditions during glacial-interglacial cycles in the Thai-Malay Peninsula	Smith Leknettip	A0049
S05-P-5	Terrestrial and marine palynomorphs record as a tool for paleoenvironmental reconstruction during the Holocene in the coastal plain of Paraty, Brazil	Alex Freitas	A0061
S05-P-6	Evidences of late-Quaternary sea-level changes in central Kerala, South India and its implications on global records	Shaima M M	A0571
S05-P-7	Holocene sea level dynamics and sediment distribution shaped by geomorphic transformations along the southwest Kerala coast, India	Pranav Prakash	A0686
S05-P-8	Modelling Antarctic margin response to Pleistocene-like warming	James Oneill	A0598
S05-P-9	Exploring the potential use of shallow marine sediment cores for paleoenvironmental investigation of the Yellow Sea glacial land bridge	Eunji Byun	A0193
S05-P-10	Lambert Glacier-Amery Ice Shelf system and solid Earth response since last deglaciation: evidences from lake sediments	Avirajsinh Jadav	A0525

No.	Title	Presenter	Abstract ID
S05-P-11	Centennial-scale variability in Antarctic surface mass balance and its linkages to tropical oceans	Kai Man	A1031
S05-P-12	New Common Era sea-level reconstructions from southeastern Australia	Juliet Sefton	A0993
Session 08. Leveraging paleoecology for sustainable ecosystem restoration in the Anthropocene			
S08-P-1	Extreme hydroclimatic events trigger asymmetric shocks and recovery trajectories across multitrophic levels of Tibetan Plateau lakes	Shixin Huang	A0245
S08-P-2	Late Pleistocene vegetation succession, climate change and hominin adaptation in Sandinggai site, central South China	Lili Lu	A0103
S08-P-3	Transformation in the forest ecosystem of northeastern China driven by human factors over the past 1600 years	Yong Luo	A0247
S08-P-4	Using multi-proxy to reconstruct the vegetation in northwestern Madagascar throughout the mid-Holocene and its relevance to biodiversity conservation	Fetra Randriatsara	A0254
S08-P-5	Sedimentary record of primary productivity changes in a crater lake in Northeast China since the Last Glacial Maximum	Yao Wang	A0413
S08-P-6	Centennial evolution and influencing factors of wetland landscape patterns in Jiangnan Plain	Yikai Li	A0418
S08-P-7	Transient social-ecological dynamics reveal signals of decoupling in a highly disturbed Anthropocene landscape	Ke Zhang	A0532
S08-P-8	On the applicability of combinatorial landscape-specific spatial assessment of CO ₂ emissions on the peatlands of Polistovsky Nature Reserve (Russia)	Lera Akhmetshina	A0586
S08-P-9	Quantitative contributions of different atmospheric circulation systems to Holocene aeolian activity in northwestern China: Evidence from a closed interdune lake in the Tengger Desert hinterland	Bing Liu	A0675
S08-P-10	The characteristics of the space-time change of the carbon accumulation rate of the peatland in the Changbai Mountains in the Anthropocene	Hongyan Zhao	A0746

No.	Title	Presenter	Abstract ID
S08-P-11	A Quantitative Holocene Climatic Record and Human impact in Majuli Island (world's largest river island), northeast India: A multiproxy assessment	Swati Tripathi	A0850
S08-P-12	Mediterranean archives of biodiversity variability and human impact: Past, present (and future) trends	Federica Badino	A0857
S08-P-13	Agricultural development has not necessarily caused forest cover decline in semi-arid northern China over the past 12,000 years	Qian Hao	A0986
Session 13. Assessing plants diversity in time and space may help conservation approaches			
S13-P-1	Evidence of 458-445 million-year-old land plants in India	Husain Shabbar	A0115
S13-P-2	Oak pollen infrageneric classification-based winter temperature reconstruction since the marine isotope stage 5 in southeast China	Lu Dai	A0181
S13-P-3	Pollen evidence of enhanced Yellow River provenance into the South Yellow Sea after the middle Pleistocene transition	Yang Liu	A0183
S13-P-4	Pollen atlas of sub-tropical southern Africa (pollen and spores of KwaZulu-Natal)	Angela Effiom	A0278
S13-P-5	Savanna/rainforest dynamics and hydroclimate changes in northern boundary of tropical Asia over the past 150 kyrs	Cong Chen	A0301
S13-P-6	Two general patterns of subalpine peatland development since the last glacial maximum in subtropical China	Kangyou Huang	A0302
S13-P-7	Identification of conservation sites for endangered arid tree <i>Tecomella undulata</i> in highly evolving drylands of India	Jereem Thampan	A0305
S13-P-8	Charcoal analyses: Assessing climate and vegetation history of the eastern Lesotho Highlands during the late Holocene	Busisiwe Hlophe	A0320
S13-P-9	Climate-driven coastal disparity hypothesis for mangroves	Pujarini Samal	A0445
S13-P-10	Paleoecological changes in Russian Altai during the late Holocene based on pollen data in a Zolotoe Lake core	Gulnara Nigamatzyanova	A0522

No.	Title	Presenter	Abstract ID
S13-P-12	Estimation of phytomass changes on the Kamchatka Peninsula	Irina Bushueva	A0560
S13-P-13	Forest and mosaic vegetation cut off savanna corridors during the last glacial maximum in southeast Asia recorded by marine pollen	Chuanxiu Luo	A0723
S13-P-14	Climatogenic expansion of woody vegetation in the mountain tundra of the southern part of the Urals: Models, predictions, consequences	Andrey Grigoriev	A0769
S13-P-15	Pollen evidence of eco-environment changes in the South Yellow Sea since the early Pleistocene	Jie Li	A0898
S13-P-16	Human activities have reduced plant diversity and net primary productivity of vegetation in eastern China over the last two millennia	Xianyong Cao	A0920
S13-P-17	Modern pollen–plant relationships for reliable pollen-based reconstruction of past plant diversity: Insights from southwest China	Kehan Li	A0964

Sat. 24 May

POSTER

Plenary room

Panel Discussion on IPCC and Closure

Chair: Liping Zhou

Time	Panel Discussion	Speaker
16:30-17:30	The role of paleo in IPCC assessments, game-changing paleo contributions to IPCC assessments since FAR	Thomas Stocker
	Plans for AR7; how you can contribute to AR7	Fabrice Lambert
	The opinion of the ECR network at large	Aditi Dave
	Panel Discussion	
	Chair: Zhifei Liu	
17:30-18:30	Closing Ceremony (YSM/OSM Highlights, Remarks, Award Presentation) Zhengtang Guo, PAGES IPO/co-chairs (TBD)	

Sat. 24 May

ORAL

5 Appendices

5.1 Code of Conduct

The Past Global Changes (PAGES) 2025 Open Science Meeting (OSM) and associated Young Scientists Meeting (YSM) will be a welcoming, respectful, inclusive and collaborative event. Robust dialogue and exchange of ideas are encouraged, whilst being mindful of others.

PAGES OSM and YSM 2025 are committed to advancing acceptance, accessibility, justice, equity, diversity, and inclusion across all its activities. PAGES OSM and YSM 2025 do not tolerate discrimination or harassment of any kind, including sexual or non-sexual harassment, bullying, intimidation, abuse of authority, violence, threats of violence, retaliation, or other disruptive behavior.

Any participant who is aware of disrespectful treatment, harassment, bullying or discrimination, regardless of whether it rises to the level of breach of this conduct, should immediately notify anyone from the Local Organizing Committee, either by contacting them on site or by emailing them. All reports and allegations will be handled sensitively and in confidence. Our immediate priority will be to protect the privacy of the person(s) involved and the need for further action will be assessed carefully on a case-by-case basis.

Behavior expected of all meeting participants

- Treat everyone with respect.
- Respect your fellow participants by using good practice for intercultural collaborations.
- Be mindful of your surroundings and of your

fellow participants.

- Provide your true professional identity, affiliation, and contact information whenever requested.
- No copying, taking photos or making recordings of any scientific material shown in any type of presentation, unless the presenter explicitly authorizes it.
- Respect the rules and policies of the meeting venue, hotels, online platform, or any other venue.
- Be accountable: When we, as organizers or participants, fail to meet these guidelines, work together to identify problems and adjust policy and practice together.

Last Updated: March 2025

Access PAGES' Code of Conduct here: <https://pastglobalchanges.org/about/code-of-conduct>.

5.2 Gender Equity and Diversity Statement

PAGES OSM and YSM 2025

Past Global Changes (PAGES) seeks to promote the involvement of all scientists worldwide, in particular early-career researchers (ECRs) and scientists from low- and middle-income countries. PAGES facilitates activities that address past changes in the Earth system in order to improve projections of future climate and environment, and inform strategies for sustainability. The 2025 Open Science Meeting (OSM) and associated Young Scientists Meeting (YSM) aim to promote interdisciplinary scientific exchange and international cooperation in past global change research, and to contribute to all aspects of past changes in key components of the Earth's surface system (air, water, ice, land, life, society, etc.) across timescales.

PAGES OSM and YSM 2025 are committed to ensuring broad representation in all their objectives, and to be a beacon for best practice in gender equity, diversity and inclusiveness in membership, activities, events, programs, and services.

Broader aspects of diversity include (but are not limited to) race, religion, geographic

location, disability, gender identity and sexual orientation. We aim to provide a safe, respectful, and harassment-free conference environment for everyone involved, regardless of age, sex, gender, gender identity and expression, sexual orientation, (dis)ability, physical appearance, race, ethnicity, nationality, marital status, military status, veteran status, religious beliefs, dietary requirements, childbirth- and pregnancy-related (medical) conditions or childcare requirements.

PAGES OSM and YSM 2025 acknowledges that gender equity is a key factor in achieving excellence in paleoscience research. Achieving gender equity and diversity requires active input from individuals to support, embrace, and speak out about barriers. We encourage all participants, to help us achieve our gender equity and diversity goals in all your duties and activities, and in accordance with your position.

Last updated: March 2025

5.3 Picture Permission Policy

PAGES OSM and YSM 2025

To ensure the privacy, intellectual property rights, and professional integrity of all participants, the following picture permission policy applies to the PAGES 2025 OSM and YSM, held in Shanghai, China.

Photography and Recording

Photography, audio recording, and video recording of presentations, posters, and discussions are strictly prohibited without the explicit permission of the presenter and the conference organizers.

Attendees may take general photos of the conference venue and networking sessions unless otherwise restricted by the organizers.

Media and Press

Accredited media representatives must obtain prior approval from the conference organizers before capturing any photos, videos, or interviews.

Any images or recordings intended for publication or distribution must be reviewed and approved by the conference organizers and relevant speakers.

Social Media Sharing

Participants are encouraged to share their conference experience on social media but

must respect the privacy of fellow attendees.

Any shared images must not include identifiable content from presentations or posters without the presenter's consent.

Use of Conference Photos

The conference organizers may take official photographs and recordings for promotional and archival purposes.

By attending the conference, participants grant permission for their image to be used in official conference materials unless they opt out by notifying the organizers in advance.

Enforcement and Violations

Any violation of this policy may result in removal from the conference and potential exclusion from future events.

Concerns or disputes regarding photography and recording should be reported to the conference organizers immediately.

We appreciate your cooperation in creating a respectful and professional environment for all attendees. If you have any questions about this policy, please contact the conference organizers.

Last updated: March 2025

6 Acknowledgements

On behalf of the local organizing committee and the scientific committee of the PAGES OSM 2025 Meeting, we would like to extend our gratitude to all participants, speakers, and contributors who have made this event possible. Your dedication to advancing scientific research and fostering collaboration within the global research community is invaluable.

We also wish to thank the numerous volunteers, sponsors, and partners for their unwavering support in making this conference a reality.

We are honored to welcome you to this significant gathering, and we look forward to the productive discussions and inspiring dialogues that will shape the future of environmental and Earth sciences.

Thank you for your participation and continued support.

Sincerely,

The Local Organizing Committee, Scientific Committee

PAGES 2025

7 Contact Us

Secretary General | Shouting Tuo

State Key Laboratory of Marine Geology
Tongji University

ADD. 1239 Siping Road, Shanghai, China

Tel. +86-21-65982198, +86-13601872997

Email pages2025@tongji.edu.cn

Registration | Baiyi Pan

Tel. +86-21-65981389, +86-18817759791

Logistics Support | Zhaocy Zhang

Tel. +86-21-65985090, +86-18817759802

Scientific Program | Yangyang Li

Tel. +86-21-65983441, +86-18810404284

On-site Support | Yuanshan Chen

Tel. +86-21-65982056, +86-13916480610

Exhibition | Tingyu Wen

Tel. +86-21-65985022, +86-13817664860

Transport and Field Trips | Xiaofeng Gao

Tel. +86-21-65981613, +86-15021055616



PAGES 2025

7th OPEN SCIENCE MEETING
5th YOUNG SCIENTISTS MEETING

WEBSITE



WECHAT



Local Organizing Committee
**State Key Laboratory of
Marine Geology, Tongji University**

Add. 1239 Siping Road,
Shanghai 200092, China

Email pages2025@tongji.edu.cn