

PAGES
PAST GLOBAL CHANGES

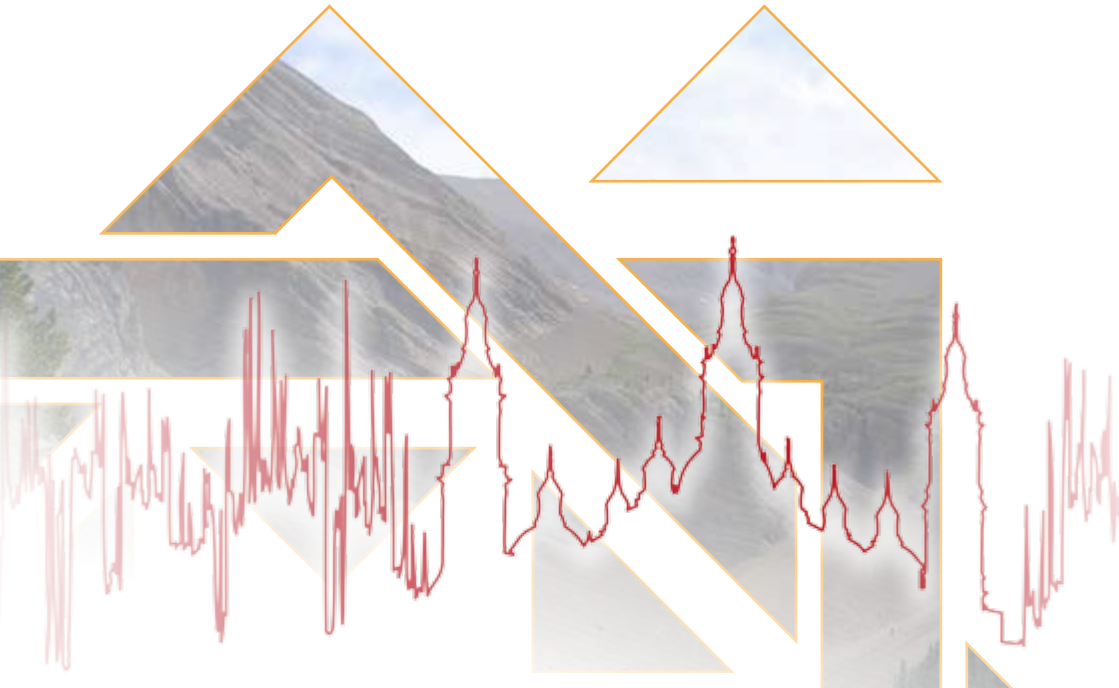


PAGES Zaragoza 2017

5th Open Science Meeting

Global Challenges for our Common Future:
a paleoscience perspective

9 - 13 MAY



Program Volume



CSIC
CONSEJO SUPERIOR DE INVESTIGACIONES CIENTÍFICAS



Universidad Zaragoza
1542

FNSNF

FONDS NATIONAL SUISSE
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sc|nat

Swiss Academy of Sciences
Akademie der Naturwissenschaften
Accademia di scienze naturali
Académie des sciences naturelles



INDEX

Session codes	pag. 4
General program	pag. 5
Committees.....	pag. 6
Welcomes	pag. 7-8
Plenary Speakers.....	pag. 9-11
Wednesday 10th May Oral Sessions.....	pag. 12-18
Wednesday 10th May Poster Sessions.....	pag. 18-23
Thursday 11th May Oral Sessions	pag. 24-30
Thursday 11th May Poster Sessions	pag. 31-35
Friday 12th May Oral Sessions	pag. 36-41
Friday 12th May Poster Sessions.....	pag. 42-47
Saturday 13th May Oral Sessions.....	pag. 48-54
Saturday 13th May Poster Sessions	pag. 54-59
Main Floor / -1 Floor.....	pag. 60
Practical info	pag. 61-63
Social Events.....	pag. 64-65
Fields trips post Meeting.....	pag. 66-67
Sponsors.....	pag. 68-71

SESSION CODES

OPEN	Open Session on past global changes	HUM	From early human impacts to the Great Acceleration: A paleoscience perspective on the climate-landscape-human multiple connections
SH	Quaternary climate and environmental change in the Southern Hemisphere	GREEN	Understanding past variations in atmospheric greenhouse gases to constrain future feedbacks in the Earth System
2K	Regional and transregional climate variability over the last 2000 years	REG	Regional syntheses of human-climate-environment interactions
MED	From the Mediterranean to the Caspian: palaeoclimate variability, environmental responses and human adaptive strategies	MON	Regional versus global in past monsoon dynamic: disentangling wind and precipitation proxies.
DIST	Disturbance dynamics across spatial and temporal scales: fire, wind, pathogens and post-disturbance run off as drivers of environmental change	AFR	Palaeoenvironments of Africa: Pliocene to Present
MPT	Before and after - climate contrasts across the MPT	DATA	Data Stewardship for Paleoscience
HIST	Historical Climate Reconstruction and Impacts of the Common Era	5MILL	The climate record of the past 5 million years: from the seasonal cycle to Ice Ages
VOLC	Volcanic eruptions: the thread connecting climate records, societal change and future climate projections?	GROUND	Climate variability signals in groundwater (and unsaturated zone) archives
PALSEA	Ice-sheet and sea-level variability during late-Cenozoic warm periods: PALSEA2	DUST	Global Dust Deposition in Past, Present, and Future Climates
INTER	Climate of Quaternary Interglacials from observations and model simulations	COMMON	Large-scale hydroclimate variability and change of the Common Era: Patterns, Impacts, and Processes
OCEAN	Trace elements and their isotopes as geochemical proxies of past ocean conditions	DNA	Ancient DNA for understanding past biodiversity, human history, and drivers of ecosystem changes: achievements, limits and perspectives
PLIO	Pliocene climate variability over glacial-interglacial timescales (PlioVAR)	FLUX	Sediment Flux: Past Peaks and Troughs
HYD	Hydroclimate variability through the ages: Data, models, mechanisms		
HOL	The Holocene - its climate variability and rapid transitions	Working groups meetings	
FLOOD	Multidisciplinary reconstruction of paleofloods	EERA	Extreme events and risk assessment
ACC	Abrupt climate change: Challenges for Earth system understanding	QUIGS	Working Group on Quaternary Interglacials
AQUA	Human Impact on Global Aquatic Systems	2K	Working Group PAGES 2k Network
BIO	Do species move, adapt or die? Exploring past biodiversity, ecological change and community dynamics in the fossil record	GPWG	Global Paleofire Working Group
		CHN	Climate History Network
		FLOOD	Floods Working Group
		PMIP	Paleoclimate Modelling Intercomparison Project
		PALCOM	INQUA Palaeoclimate Commission
		HABCOM	Humans and Biosphere INQUA Commission





TUESDAY 9th MAY						
From 18:00 Registration 19:30 Icebreak party (Multiusos room)						
WEDNESDAY 10th MAY						
8:45-10:30	Welcome ceremony Plenary talks (Mozart room): Nerilie Abram Julien Emile-Geay 10:30 – 11:00 <i>Coffee break (Hipostila room)</i>					
11:00-13:00	MED	HYD	VOLC	OCEAN	MON	PALSEA
13:00-15:00	<i>Lunch (Multiusos room) WG meetings: QUIGS (room 8) and EERA (room 6)</i>					
15:00-17:00	MED	HYD	VOLC	AFR	5MILL	
17:00-19:00	Poster sessions (Hipostila room): MED, HYD, VOLC, OCEAN, AFR, MON, 5MILL, PALSEA PMIP Town Hall Meeting (room 11)					
19:30	Soccer match: "Las Ocas" terrace bar in José Antonio Labordeta Park					
THURSDAY 11th MAY						
9:00-10:30	Plenary talks (Mozart room): Gabi Hegerl Isabel Cacho Juan Luis Arsuaga 10:30 – 11:00 <i>Coffee break (Hipostila room)</i>					
11:00-13:00	MED	COMMON	FLOOD	BIO	DNA	GREEN
13:00-15:00	<i>Lunch (Multiusos room) WG meeting: 2K (room 6)</i>					
15:00-17:00	2K	ACC	FLOOD	BIO	DUST	
17:00-19:00	Poster sessions (Hipostila room): 2K, COMMON, FLOOD, BIO, DNA, DUST, GREEN, GROUND PALCOM Meeting (room 11)					
19:30	Film night: "Before the Flood" in the Cerbuna Cine Club, C/ Pedro Cerbuna 12, 50009 Zaragoza (in Spanish)					
FRIDAY 12th MAY						
9:00-10:30	Plenary talks (Mozart room): Eric Wolff and Hannah Moersberger General discussion about PAGES 10:30 – 11:00 <i>Coffee break (Hipostila room)</i>					
11:00-13:00	2K	ACC	INTER	DIST	AQUA	
13:00-15:00	<i>Lunch (Multiusos room) WG meeting: GPWG (room 6)</i>					
15:00-17:00	2K	ACC	HOL	INTER	DIST	OPEN
17:00-19:00	Poster sessions (Hipostila room): ACC, HOL, INTER, DIST, AQUA, OPEN HABCOM Meeting (room 11)					
20:30	Gala Dinner: Aura Restaurant, Avenida de José Atarés 7, 50018 Zaragoza					
SATURDAY 13th MAY						
9:00-10:30	Poster sessions (Hipostila room): SH, REG, HIST, HUM, MPT, PLIO, DATA, FLUX WG meeting: CHN (room 8) 10:30 – 11:00 <i>Coffee break (Hipostila room)</i>					
11:00-13:00	SH	HOL	REG	HIST	MPT	DATA
13:00-15:00	<i>Lunch (Multiusos room) WG meeting: FLOOD (room 6)</i>					
15:00-17:00	SH	HOL	REG	HUM	PLIO	
17:00-19:00	Plenary talks (Mozart room): Ed Brook and Penélope González-Sampériz Closing ceremony					
19:30	Round-table discussion: "Climate change: from global to local challenges" (in Spanish), Patio de la Infanta, C/San Ignacio de Loyola 16					
SUNDAY 14th MAY						
Field trip departures						



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Ana Moreno, IPE-CSIC, Spain

Penélope González-Sampériz, IPE-CSIC, Spain

Welcome from the Local Organizing Committee

The Local Organizing Committee of the **5th PAGES Open Science Meeting** welcomes you to Zaragoza!. Zaragoza, capital of Aragón, is the most populated city in the Ebro Valley (700,000 inhabitants). Located in the floodplain and the terraces of the Ebro River and two of its tributaries, the Huerva and Gállego Rivers, the fate of the city has always been tied to the ever-changing dynamics of the rivers. Already in the first centuries of our era, the Roman Forum and the sewage system had to be rebuilt at a higher elevation due to frequent and intense flooding. The surrounding territory, both in the floodplain and in the semi-arid steppes, has been used for agriculture since Neolithic times. The recent expansion of the city and the Universal Expo 2008 on Water and Sustainability have contributed to create a new social awareness about environmental issues and global change impacts. Suffering from floods and droughts, water availability and sustainable economy are always present for Zaragoza citizens.

In these times of rapid changes, our science is more useful than ever for the citizenship. We thank you all for presenting your science, participating in the discussions and field trips and creating links to strengthen PAGES as a global community. This corner of the world showcases the complexities of climate, biological, geological and human interactions during the Quaternary in “boundary” regions, where local synergies and regional teleconnections are essential part of global processes. The strategic geographic location of the Iberian Peninsula where continents meet and oceans and seas converge provides exceptional opportunities to investigate the dynamics of climate, environmental and human evolution in these frontier regions. Besides, the Iberian Peninsula has been a cultural bridge between Europe and Africa, playing an important role in human evolution and migration. It also constitutes an essential link between the Atlantic Ocean and the Mediterranean Sea, acting as a main player in all land-ocean interactions at mid latitudes.

After the long scientific sessions, we invite you to be part of the city. Spend some time strolling the city parks and the Ebro River; have some light dinner with “tapas” in bars and terraces downtown, visit the museums and old buildings to get a taste of the rich cultural background of the city: the Roman Walls, Forum and Theater, the Muslim Aljaferia Palace, the Christian Churches, the Goya drawings. Enjoy the World Heritage Mudejar architecture, a syncretic art developed in the Christian kingdoms by Muslim artisans. The Mudejar star, the logo of our meeting, is a reminder of the positive outcomes when diverse minds and cultures meet.

We thank all supporters, sponsors and volunteers who have helped to organize and finance the 5th OSM meeting and wish you all a very productive, fruitful and inspiring meeting to face together the challenges ahead of us.

**Blas Valero-Garcés, Penélope González-Sampériz,
Graciela Gil-Romera and Ana Moreno**
on behalf of the Local Organizing Committee



Welcome from PAGES

After London (1998), Beijing (2005), Corvallis (2009), and Goa (2013), we are extremely happy to welcome you to Zaragoza for PAGES' 5th Open Science Meeting (OSM).

Since its earliest days, the OSM has been a ground-breaking event designed to facilitate interactions between scientists from all career levels, disciplines and regions. We invite you to explore the richness of the various fields included within the PAGES' umbrella and hope that this meeting will be the starting point for new collaborations.

Past Global Changes (PAGES) was founded in 1991 and supported by the US and Swiss National Science Foundations as a core project of the now defunct **International Geosphere-Biosphere Programme (IGBP)** until 2015. In 2016, PAGES became a Global Research Project of **Future Earth**, as well as a formal scientific partner of the **World Climate Research Programme (WCRP)**, and is now supported by the US National Science Foundation and the Swiss Academy of Sciences.

PAGES' scope of interest includes the physical climate system, biogeochemical cycles, ecosystem processes, biodiversity, and human dimensions, on different time scales - from the Pliocene to the recent past. It is open and inclusive to all scientists interested in past global changes. Over time, PAGES has evolved to address emerging challenges and scientific themes, with resultant changes in structure and scope. But the main objectives remain unchanged, and, after 25-years, PAGES is well-established and continues to be successful in its mission to catalyze international cooperation and foster high-quality science.

You are PAGES. Your involvement is vital. Propose, organize and/or participate in PAGES working groups and workshops, contribute articles or issue ideas for the Past Global Changes Magazine, receive up-to-date communications and opportunities via our e-news and social media accounts (Twitter and Facebook) and, of course, visit our information-rich website www.pastglobalchanges.org.

We would like to take this opportunity to thank all those who provided financial support, allowing us to organize the OSM and assemble such an inspiring, large, international group of scientists. Our thanks extend also to all those who dedicated their time and effort to ensure the event's success.

We wish everyone a productive and inspiring meeting and a pleasant stay in Zaragoza!

Marie-France Loutre, Angela Wade and Lucien von Gunten

PAGES IPO

Sheri Fritz and Willy Tinner

PAGES Co-Chairs

PLENARY SPEAKERS

Mozart Room

▶ Wednesday, 10th May



Nerilie Abram

The Australian National University, Canberra, Australia:
nerilie.abram@anu.edu.au

9:30 – 10:00 Early onset of industrial-era warming across the oceans and continents

Nerilie Abram is an Associate Professor and Future Fellow at the Australian National University. She is also a Chief Investigator for the new Australian Centre of Excellence for Climate Extremes. Her research focuses on reconstructing climate changes over the last millennium, using a variety of methods including Antarctic ice cores, tropical reef corals and speleothems. Nerilie has played leadership roles in a number of the PAGES 2k regional working groups, and is part of the coordinator team for phase 3 of the PAGES 2k project.



Julien Emile-Geay

University of Southern California, Los Angeles, USA: juliene@usc.edu

10:00 – 10:30 The future of old things: geoinformatics for better paleoscience

Julien Emile-Geay is a mathematical paleoclimatologist working as an associate professor at the University of Southern California. Using deterministic and probabilistic models, he creates mathematical representations of the climate system to shed light on its dynamics. He is particularly interested in the role of the tropics in long-term climate change, and in constraining the magnitude of internal climate variations on a variety of timescales. As part of PAGES, Julien is active in the PAGES 2k group, in two main ways: The first is to develop innovative data stewardship approaches to extract greater information from existing paleoclimate records. The second is to use the rich array of paleoclimate records from the Common Era to uncover patterns of low-frequency climate variability in the spatial, temporal, and spectral domains, and use those to evaluate and improve climate models.

▶ Thursday, 10th May



Gabriele Hegerl

Chair of Climate System Science University of Edinburgh, UK:
gabi.hegerl@ed.ac.uk

9:00 – 9:30 Determining the causes of climate change: from large scale temperatures to extreme events

Gabriele Hegerl is Professor of Climate System Science at the University of Edinburgh. Her research focuses on understanding the causes of observed climate variability and change. This includes changes in precipitation, changes in climate extremes, and temperature over the long historical record and the last two millennia. Gabi is also interested in constraining climate system parameters from observed change, including climate sensitivity and precipitation sensitivity. Gabi has a MS and PhD in applied mathematics, and did her postdoctoral work at the Max-Planck Institute for Meteorology, and the University of Washington. Gabi has published more than 130 papers and has played key roles in three recent IPCC Assessments. She is PI on an ERC Advanced Grant 'Transition Into the Anthropocene', which constrains variability and forced response from the past 200 years of observations, is the recipient of the Hans Sigrist prize of the University of Bern, and a fellow of both the American Geophysical Union and the Royal Society of Edinburgh. She also serves as one of the leads on the WCRP grand challenge on weather and climate extremes



Isabel Cacho Lascorz

University of Barcelona, Barcelona, Spain: icacho@ub.edu

9:30 - 10:00 Exploring atmosphere-ocean connections in the Western Mediterranean region during past climatic transitions: last terminations, glacial inception and some Holocene key changes

Isabel Cacho is an Associated Professor at the University of Barcelona since 2008. She graduated in Geology in 1992 and earned her PhD in 2000 at the UB. She was affiliated to the University of Cambridge as a post-doctoral researcher from 2000 to 2003 in the Godwin Laboratory. She is a specialist in the application of different geochemical tools for reconstructing past environment conditions mostly based on the analysis of deep marine sediments and also on cave speleothems. She has a strong background in the Mediterranean paleoclimatology. She is also intensively working in the Eastern Equatorial Pacific, reconstructing ocean-atmosphere coupled changes with a particular attention to the carbon cycle. Her current research is very much focused on Mediterranean thermohaline circulation changes in relation to past climate variability in the context of a recently granted ERC-Consolidator grant.



Juan Luis Arsuaga

Director of the Center for Human Evolution and Behavior;

Universidad Complutense de Madrid, Spain: jlarsufe@geo.ucm.es

10:00 – 10:30 Human Evolution And Climate

Graduate and PhD in Biology by the Madrid (Complutensis) University, Director of the Center for Human Evolution and Behavior (Centro de Evolución y Comportamiento Humanos, Universidad Complutense de Madrid-Instituto de Salud Carlos III). Full professor of Paleontology at the Department of Paleontology (Geology Faculty) of the University of Madrid. Scientific Director of the Human Evolution Museum in Burgos, Spain (Museo de la Evolución Humana), Co-director of the excavations of the Atapuerca sites (Burgos) and Pinilla del Valle sites (Madrid). Foreign Associate of the National Academy of Sciences of the United States. Editor of the archeological and anthropological journal Munibe. Vicepresident of the Atapuerca Foundation. Doctor Honoris Causa for the University of Burgos and for the Politecninc University of Valencia.

Friday, 12th May



Eric Wolff

Department of Earth Sciences; University of Cambridge, UK: ew428@cam.ac.uk

9:00 – 9:30 Warm worlds – features and lessons from the Quaternary interglacials

Eric Wolff is a Royal Society Research Professor in the Department of Earth Sciences at Cambridge University. He previously worked at the British Antarctic Survey. After graduating as a chemist, he has studied ice cores from the Antarctic and Greenland for the past 30 years, using them to understand changing climate, as well as changing levels of pollution in remote areas. He also carries out research into the chemistry of the lower parts of the Antarctic atmosphere. He chaired the science committee of the European Project for Ice Coring in Antarctica (EPICA), and co-chairs the international initiative (IPICS) to coordinate future ice core research. His main research goal is to understand the causes of climate evolution over recent glacial cycles. He coordinated the recent interglacials review paper that came out of the PAGES Past Interglacials Working Group.



Hannah Moersberger

Future Earth, Global Hub, Paris, France: hannah.moersberger@futureearth.org
9:30 – 10:00 Future Earth – vision, mission and opportunities

Hannah Moersberger works as a science officer for the Future Earth Secretariat in Paris. In this role, she leads Future Earth's activities to support early-career professionals and contributes to the Knowledge-Action Networks on Natural Assets as well as the Food-Water-Energy Nexus. Hannah has previously worked on the topic of biodiversity and climate in Africa with the German Development Cooperation (GIZ). She holds a Master's degree in Environmental Policy from Sciences Po Paris and a Bachelor's degree in African Studies.

Saturday, 13th May



Ed Brook

Oregon State University, Corvallis, USA: brooke@geo.oregonstate.edu
17:15 – 17:45 New observations of past, fast changes in greenhouse gases

Ed Brook is a Professor in the College of Earth, Ocean, and Atmospheric Sciences at Oregon State University. His primary work uses polar ice cores as recorders of past climate change, focusing on the relationship between greenhouse gases and climate on time scales of decades to hundreds of thousands of years, but he occasionally delves in to other areas of geochemistry. He received a BS in Geology from Duke University, MS from University of Montana, and PhD from the Massachusetts Institute of Technology and Woods Hole Oceanographic Institution. He was subsequently a NOAA Climate and Global Change Post Doctoral Fellow, working with Michael Bender at the University of Rhode Island. Ed is a recipient of the Aldo Leopold Leadership Fellowship, and a fellow of both the American Geophysical Union and the American Association for the Advancement of Science. He is also active in service to the scientific community, including co-chairing IPICS, participating in numerous advisory groups in the US polar science community, and serving on the PAGES Scientific Steering Committee.



Penélope González Sampériz

Instituto Pirenaico de Ecología, CSIC, Zaragoza, Spain: pgonzal@ipe.csic.es
17:45 – 18:15 Climate Variability, Vegetation Dynamics and Human-Environment Interactions in Continental Mediterranean Iberia During Last Glacial Cycle

Penélope González Sampériz graduated from the University of Zaragoza with a Geography degree in 1994 and a PhD in History in 2001. Her multidisciplinary approach has been essential to her research. She is interested in paleoenvironmental reconstructions, vegetation dynamics and past climate changes, using palynology as the main method. Her work focuses mainly on the study of different types of Quaternary records (from the Late Pleistocene and Holocene) in the Iberian Peninsula, aiming for a realistic reconstruction of vegetation changes and their interaction with climatic and/or anthropogenic variations, always in a multiproxy context. One of the main topics of her research is the study of human-climate interactions in the past, taking into account the influence of abrupt climate changes in patterns of human occupation and migrations, including extinctions and cultural collapses. She is heavily involved in institutional activities and outreach events - she is the leader of the "Outreach Commission of IPE-CSIC" and part of the CMYC Commission (Women and Science in the CSIC), gives talks and workshops in primary and high schools and regularly collaborates with, and considers the implications of, citizens in projects.

Wednesday 10th May 2017

	<i>Mozart Room</i>	<i>Luis Galve Room</i>	<i>Mariano Gracia Room</i>	<i>Hotel Romareda Room 1</i>	<i>Hotel Romareda Room 2</i>	<i>Room 11 (Auditorium)</i>
11:00 - 13:00	From the Mediterranean to the Caspian: palaeoclimate variability, environmental responses and human adaptive strategies	Hydroclimate variability through the ages: Data, models, mechanisms	Volcanic eruptions: the thread connecting climate records, societal change and future climate projections?	Trace elements and their isotopes as geochemical proxies of past ocean conditions	Regional versus global in past monsoon dynamic; disentangling wind and precipitation proxies	Ice-sheet and sea-level variability during late-Cenozoic warm periods: PALSEA2
15:00 - 17:00	From the Mediterranean to the Caspian: palaeoclimate variability, environmental responses and human adaptive strategies	Hydroclimate variability through the ages: Data, models, mechanisms	Volcanic eruptions: the thread connecting climate records, societal change and future climate projections?	Paleoenvironments of Africa: Pliocene to present	The climate record of the past 5 million years: from the seasonal cycle to Ice Ages	

MOZART ROOM

Mediterranean to the Caspian: paleoclimate variability, environmental responses and human adaptive strategies

Conveners: A. Moreno, W. Fletcher, V. Vaylan; Chairs: D. Veres, S. Anderson

- 11:00 **INVITED TALK D. L. Hoffmann;** M. Rogerson; M. Luetscher; C. Spötl; M. Mansoura; B. Mauz; N. Kallel
North African humid phases during the last 500 ka
- 11:15 **M. Rogerson;** Y. Dublyanski; D. Hoffmann; M. Luetscher; C. Spötl
Speleothem fluid inclusions show westerly and easterly moisture advection across North East Libya during MIS 3 humid phases
- 11:50 **A. Persoiu;** I. Persoiu; F. Mătău
Climatic and environmental conditions during the neolithization of the Carpathian Mts.
- 11:45 **E. Regattieri;** G. Zanchetta; I. Isola; R.N. Drysdale; P. Bajo; J. C. Hellstrom; B. Wagner; C. Boschi
A speleothem record of MIS 9/ MIS 8 climate and environmental variability from Macedonia (F.Y.R.O.M.)
- 12:00 **L.A. Hayles;** C.C. Ummenhofer; M. Barriendos; G.H. Schleser; G. Helle; M. Leuenberger; E. Gutiérrez; E.R. Cook
400 years of summer hydroclimate from stable isotopes in Iberian trees
- 12:15 **M. Morellon;** J. Vegas; F. S. Anselmetti; G. Sinopoli; M. Marchegiano; A. García-Arnay; **L. Sadori;** Y. Sánchez-Moya; B. Wagner; B. Brushliti; A.Pambuku; D. Ariztegui
The interplay of climate change and human activity in the central Mediterranean region during the last millennia: the varved, multiproxy record of Lake Butrint (Albania)
- 12:30 **P. Montagna;** N. Tisnerat-Laborde; E. Douville; E. Pons-Branchu; C. Colin; G. Siani; Q. Dubois-Dauphin; Marco Taviani
Deep-water coral geochemistry reveals large changes in ventilation of the Mediterranean intermediate waters during the holocene
- 12:45 **F. Sierro;** D. Hodell; N. Andersen; B. Ausin; J. Flores; F. Jimenez-Espejo; A. Bahr; F. J. Hernandez-Molina
Millennial and astronomically-driven changes in the speed of Mediterranean Outflow along the last 250 kyr near the Strait of Gibraltar

Wednesday 10th May 2017

- 15:00 **INVITED TALK F. Di Rita**; G. Margaritelli; F. Lirer; S. Bonomo; A. Cascella; F. Florindo; P. Conrad Lurcock; M. Vallefucio; R. Rettori; D. Magri
A high-resolution marine record of vegetation and climate changes from Central Italy during the last five millennia
- 15:15 **J. Aranbarri**; P. González-Sampéris; B. Valero-Garcés; A. Moreno; C. Sancho; G. Gil-Romera; M. Bartolomé; M. Alcolea; M^a J. González-Amuchastegui; C. Arenas; M. Leunda; D. Magri
Vegetation dynamics and hydrological response to Holocene climate variability in the Iberian Range: a synthesis from lacustrine and tufa records
- 15:30 **G. Jiménez Moreno**; J. Camuera; M.J. Ramos-Román; A. García-Alix; J.L. Toney; R.S. Anderson; F. Jiménez-Espejo; D. Kaufman; J. Bright; D. Sachse
Orbital- and millennial-scale environmental and climate changes in the Mediterranean area during the middle and late Quaternary: a new sediment record from el Padul, Sierra Nevada (S Spain)
- 15:45 **R.S. Anderson**; G. Jiménez-Moreno; A. García-Alix; F. Jiménez Espejo; J. Toney; M. Ramos-Román; J. Carrión; C. Pérez-Martínez; M. Hernández-Corbalán
Holocene Paleoenvironmental Change in the Sierra Nevada, Southern Spain
- 16:00 **A. Miebach**; C. Chen; T. Litt
High lake levels - sparse vegetation: palynological insights into the paleoenvironment of the southern Levant during MIS 2
- 16:15 **E. Messager**; S. Joannin; C. Leroyer; A. Ali; O. Peyron; A. Cromartie
The delayed expansion of forests in Southern Caucasus
- 16:30 **I. Mudryk**; P.J. Mudie
Palynology and paleoecological interpretation of Core 38, Palaeo-Dneister valley, Northwestern Black Sea: initial results of pollen, dinocyst and NPP studies
- 16:45 **S. Nandini**
Past and future impact of North Atlantic teleconnection patterns on the hydroclimate of the Caspian catchment area in CESM1.2.2 and observations



► Wednesday 10th May 2017

LUIS GALVE ROOM

Hydroclimate variability through the ages: data, models and mechanisms

Conveners: M. Prange, N. Scroton, M. Mohtadi, S. Steinke and H. Roop

Chairs: N. Scroton, M. Prange

- 11:00 **N. Abram**; B. Ellis; B. Dixon; W. Hantoro; Ch. Shen
Indian Ocean Dipole variability during the last millennium
- 11:15 **M. Higley**; J. Conroy; S. Smitt
Last millennium meridional shifts in hydroclimate in the central tropical Pacific
- 11:30 **T. Bhattacharya**; J. Tierney; P. DiNezio
Controls on the evolution of the North American Monsoon since the Last Glacial Maximum
- 11:45 **S. Dee**; J. Russell
Reconstructing African Hydroclimate since the Last Glacial Maximum via integrated Climate and Proxy System Modeling
- 12:00 **F. Naughton**; S. Costas; S. Gomes; T. Rodrigues; M.F. Sanchez Goni; S. Desprat; C. Bronk Ramsey; H. Renssen; R. Trigo; E. Salgueiro; A. Voelker; F. Abrantes
Coupled ocean and atmospheric changes during the Younger Dryas in Central Western Iberia
- 12:15 **R. Da Costa Portilho Ramos**; C. Chiessi; Y. Zhang; S. Mulitza; M. Kucera; M. Siccha; M. Prange; A. Paul
Coupling of equatorial Atlantic surface stratification to glacial shifts in the tropical rainbelt
- 12:30 **Y. Zhang**; C. Chiessi; X. Zhang; S. Mulitza; M. Prange; A. Sawakuchi; A. Govin; G. Wefer
Impact of millennial-scale Atlantic meridional overturning circulation changes on tropical South American climate
- 12:45 **P. Valdes**; R. Ivanovic; L. Gregoire
The role of resolution in simulating past hydrological cycle

"Lunch time (Multiusos room/Lunch Area)"

- 15:00 **C. Gonzalez**; A. Boom; C. Montes; C. Hugueta; C. Orejuela; R. E. Lozano; D. A. Ayala; S. Archila
Paleo-ENSO during the last glacial period inferred from tropical subandean ecosystems
- 15:15 **E. Moreno Chamorro**; D. McGee; B. Green; J. Marshall
Hemispherically asymmetric trade wind changes as signatures of past ITCZ shifts
- 15:30 **B. Konecky**; D. Noone; P. Di Nezio; J. Nusbaumer; B. Otto-Bliesner; K. Cobb
Fingerprinting tropical hydroclimate change during the Last Glacial Maximum
- 15:45 **W. Roberts**; P. Valdes; J. Singarayer
Can glacial precipitation changes in the Tropics be related to the global scale?
- 16:00 **J. Moerman**; N. Levin; R. Potts; A. K. Behrensmeier; A. Deino; B. Passey; N. DeLuca; S. Lehmann
Triple oxygen isotopes in carbonate sediments: Insights on East African water balance since 500 ka
- 16:15 **K. Sniderman**; J. Woodhead; J. Hellstrom; R. Drysdale; J. Brown; K. Lorbacher; R. Maas; M. Meinshausen
Palaeodata and model simulations suggest that projected subtropical drying may be a transient response to warming
- 16:30 **N. Burls**; A. Fedorov
Wetter subtropics in a warmer world
- 16:45 **J. Russell**; H. Vogel; S. Bijaksana; M. Melles; Towuti Drilling Project Science Team
Orbital-scale variations in Indo-Pacific hydroclimate during the mid- to late Pleistocene from Lake Towuti, Indonesia

► Wednesday 10th May 2017

MARIANO GRACIA ROOM

Volcanic eruptions: the thread connecting climate records,
societal change and future climate projections?

Conveners: *F. Ludlow, N. Dunbar, S. Davies, D. Zanchettin, M. Sigl and S. White*

Chairs: *D. Zanchettin, M. Sigl, F. Ludlow, S. White, S. Davies*

- 11:00 **M. Toohey; M. Sigl**
eVolv2k: A new reconstruction of major volcanic stratospheric sulfur injections and associated aerosol optical depth perturbations, 500 BCE-1900 CE
- 11:15 **A. Burke; M. Sigl; K. Moore; D. Nita; J. Adkins; G. Paris; J. McConnell**
High-resolution sulfur isotopes in ice cores identify large stratospheric eruptions
- 11:30 **A. N. Legrande; K. Tsigaridis; S. Bauer**
Chemistry modulations of large volcanic events of the last millennium
- 11:45 **P. Abbott; S. Davies; A. Griggs; A. Bourne**
Tracing Marine Cryptotephra in the North Atlantic during the Last Glacial Period
- 12:00 **A. Bourne; S. Davies; P. Abbott; A. Svensson**
The Greenland Ice-Core Tephra Record insights into Icelandic eruptive history between 25 and 50 ka BP.
- 12:15 **M. Khodri; Z. Davide; T. Claudia**
The Model Intercomparison Project on the climatic response to volcanic forcing (VolMIP)
- 12:30 **C. Timmreck; M. Toohey; M. Bittner; J. Jungclauss; S. Lorenz; H. Schmidt; M. Sigl; D. Zanchettin**
Sensitivity of simulated 19th century climate to volcanic forcing uncertainties
- 12:45 **A. Winter; R. Vieten; D. Zanchettin; D. Scholz; D. Black; A. Rubino**
New evidence for persistent drying in the tropics linked to natural forcing

"Lunch time (Multiusos room/Lunch Area)"

- 15:00 **T. Wozniak**
Medieval written sources of volcanic eruptions, A. D. 600-1100
- 15:15 **L. Schneider; J. E. Smerdon; F. Pretis; C. Hartl-Meier; J. Esper**
An independent record of large volcanic events over the past millennium from reconstructed summer temperatures
- 15:30 **F. Ludlow; C. Gao; A. Matthews; A. Stine; A. Robock; Y. Pan; M. Sigl**
Volcanic Eruptions as Historical Actors in Chinese Dynastic Collapse
- 15:45 **F. Lavigne; B. Wahyu Mutaqin; K. Boillot-Airaksinen; L. Handayani; N. Hananto; Y. Sudrajat; H. Hiden; C. Virmoux; J. C. Komorowski; I. Pratomo; D. Sri Hadmoko; E. de Bézilal**
How strong are the environmental and societal impacts of major stratospheric eruptions at the local scale? Case study of the AD 1257 eruption of Samalas Volcano in Lombok, Indonesia
- 16:00 **M. Bauch**
The flagellants, the volcano and malign weather conditions of the 1250s
- 16:15 **S. Ebert**
and there came hail and fire mixed with blood. Volcanic impacts and early medieval cultural responses
- 16:30 **K. Kleemann**
Lifting the Fog of Ignorance: The Icelandic Laki Fissure Eruption of 1783
- 16:45 **A. Robock; J. Slawinska**
Volcanic Eruptions as the Cause of the Little Ice Age

▶ Wednesday 10th May 2017

HOTEL ROMAREDA-ROOM 1

Trace elements and their isotopes as geochemical proxies of past ocean conditions

Conveners: C. Jeandel, R. Anderson, S. Little, T. Marchitto and D. Sigman

Chairs: C. Jeandel, R. Anderson, S. Little, T. Marchitto

- 11:00 **C. Jeandel; R. Anderson**
GEOTRACES Intermediate Data Products: good tools for modern and paleo oceanography
- 11:15 **Y. Wu; S. Goldstein; L. Pena; A. Hartman; M. Rijkenberg; H. de Baar**
A Critical Test of Neodymium Isotopes as a Paleocirculation Proxy in the Southwest Atlantic
- 11:30 **INVITED TALK K. Tachikawa**
The large-scale evolution of neodymium isotopic composition in the global modern and Holocene ocean revealed from seawater and archive data
- 11:45 **INVITED TALK J. Yu**
Investigation of past nutrient and carbon cycles using benthic foraminiferal proxies
- 12:00 **J. Gottschalk; A. Schmittner; H. B. Bostock; O. Cartapanis; W. B. Curry; H. L. Filipsson; E. D. Galbraith; J. C. Herguera; S. L. Jaccard; L. Lisicki; D. C. Lund; G. Martinez-Méndez, J. Lynch-Stieglitz, A. Mackensen, E. Michel, A. C. Mix, D. W. Oppo, C. D. Peterson, E. L. Sikes, H. J. Spero, and Claire Waelbroeck**
Comprehensive comparison of bottom water dissolved inorganic carbon $\delta^{13}C$ and epibenthic foraminifer $\delta^{13}C$ in the global ocean: a test of the canonical one-to-one relationship
- 12:15 **INVITED TALK T. Horner; S. Eltgroth; G. Henderson; R. Rickaby; J. Adkins**
Reconstructing ocean circulation using paired measurements of Cd/Ca and Cd-isotopic compositions of deep-sea corals
- 12:30 **INVITED TALK C. Hayes**
Contrasting protactinium regimes between the North Pacific and the North Atlantic
- 12:45 **H. C. Ng; L. Robinson; J. McManus; K. Mohamed Falcon; A. Jacobel; G. Henry; T. Chen**
Controls of $^{231}Pa/^{230}Th$ in the Atlantic Ocean both today and in the past

HOTEL ROMAREDA-ROOM 1

Palaeoenvironments of Africa: Pliocene to Present

Conveners: A. S. Carr, B. M. Chase, J. Just and M. H. Simon

Chairs: A. S. Carr, B. M. Chase, J. Just and M. H. Simon

- 15:00 **INVITED TALK T. Johnson; J. Votava; R. Hecky**
What's so hot about the carbonate record in Lake Kivu?
- 15:15 **F. Schaebitz; A. Asrat; H. F. Lamb; M. H. Trauth; V. Foerster; C. Günter; F. Viehberg; H. M. Roberts; M. S. Chapot; M. J. Leng; J. R. Dean; A. Deino**
The Chew Bahir record: half a million years of environmental history from southern Ethiopia
- 15:30 **R. Lupien; J. Russell; I. Castañeda; C. Campisano; A. Cohen**
Leaf wax biomarker reconstruction of Pliocene hydrological variation during *Australopithecus afarensis* evolution in Afar, Ethiopia
- 15:45 **A. Crocker; A. M. Jewell; R. E. Kretsis James; T. Westerhold; U. Röhl; R. H. James; C. P. Osborne; D. J. Beerling; P. A. Wilson**
Mega Green Sahara Periods? Evidence for and drivers of prolonged intervals of North African humidity in the Late Pliocene and Early Pleistocene
- 16:00 **Y. Garcin; G. Ménot; P. Deschamps; E. Schefuß; D. Sachse; G. de Saulieu; D. Sebagn; R. Oslisly; L. Dupont; B. Brademann; R. Tjallingii; A. Brauer**
Hydroclimate and vegetation changes in Central Africa during the Holocene: new views from the Lake Barombi Mbo (Cameroon)
- 16:15 **M- Chevalier; B. Chase**
Quantified 45,000 years-long temperature and precipitation reconstructions in southeast Africa
- 16:30 **T. Haberzettl; M. Wündsch; T. Kasper; R. Mäusbacher; H. Cawthra; G. Daut; P. Frenzel; K. Kirsten; L. Quick; M. Zabel; M. Meadows; RAIN-science team**
Holocene palaeoenvironmental change and sea level variations in South Africa
- 16:45 **C. Ogola; J. Lejuu ; E. Ndiema; E. Kyazike**
Archaeology and Paleo-environments of Kakapel Rock art site, western Kenya

HOTEL ROMAREDA-ROOM2

Regional versus global in past monsoon dynamic: disentangling wind and precipitation proxies.

Conveners: C. Kassel, F. Bassinot, Z. Jian and B. Malaizé

- 11:00 **C. Tabor; B. Otto-Bliesner; E. Brady; R. Feng; J. Nusbaumer; J. Zhu; CESM Isotope Tracer Development Group**
Understanding 180 Variability in Monsoon Regions Using an Earth System Model
- 11:15 **C. Kassel; Q. Chen; Z. Liu**
Deciphering detrital signatures of precipitation/weathering and wind transport related to the East Asian monsoon fluctuations: multi-proxy study of a long marine sequence from the northern part of the South China Sea
- 11:30 **S. K. Adukkam; Veedu B. N. Nath; S. Clemens; S. M. Ahmad; S. M. Gupta; A. Aldahan; G. Possnert; N. Lathika**
Late Quaternary record of changes in the planktonic foraminiferal abundance in the north to south transect of the Andaman Sea: inferences on monsoon climate
- 11:45 **D. Zoua; D. Hill; A. Dolan; A. Haywood**
Influence of CO₂, the Antarctic Ice Sheet and Asian Topography on the Asian Monsoon and Regional Moisture Availability
- 12:00 **J. Lee; B. K. Khim; S. Kim; H. Goo Cho**
Long-term variation of clay mineral compositions in the Andaman Backarc Basin since the late Miocene
- 12:15 **C. Zorzi; M. F. Sanchez Goñi; K. Anupama; S. Prasad; V. Hanquiez; J. Johnson; L. Giosan**
Indian monsoon variations during three contrasting climatic periods: the Holocene, Heinrich Stadial 2 and the last interglacial-glacial transition
- 12:30 **J. Kim; B. K. Khim Khim; M. Ikehara; J. Lee**
Monsoon-induced denitrification change in the Eastern Arabian Sea during 1 Ma (IODP Exp. 355 Site U1456)
- 12:45 **P. Le Mézo; L. Bopp; P. Braconnot; W. Hardy; M. Kageyama**
African monsoons dynamics and marine productivity off the Congo River mouth, a model-data comparison perspective

HOTEL ROMAREDA-ROOM2

The climate record of the past 5 million years: from the seasonal cycle to Ice Ages.

Conveners: G. Philander, N. Burls, A. Fedorov, P. deMenocal and C. Ravelo

Chairs: A. Fedorov, N. Burls

- 15:00 **INVITED TALK Z. Liu**
The Holocene Global Temperature Conundrum, When Models Meet Data
- 15:15 **INVITED TALK M. Latif**
From the Last Interglacial to the Anthropocene: Modeling a Complete Glacial Cycle with Comprehensive Earth System Models (PalMod)
- 15:30 **G. Philander**
The precarious present: Is global warming reversing an incipient Ice Age?
- 15:45 **J. Tierney**
Reassessing Pliocene temperature gradients
- 16:00 **A. Fedorov; N. Burls; K. Lawrence; L. Peterson**
The tight link between oceanic meridional and zonal SST gradients: implications for the Pliocene climate and glacial cycles
- 16:15 **Z. Song; M. Latif; W. Park; U. Krebs-Kanzow; B. Schneider**
Influence of Seaway Changes during the Pliocene on Tropical Pacific Climate in the Kiel Climate Model: Mean State, Annual Cycle, ENSO, and their Interactions
- 16:30 **Z. Lu; Z. Liu; G. Chen**
Simulating ENSO evolution of the last 300,000 years: precessional modulation of ENSO variance and seasonal phase-locking
- 16:45 **P. Jardine; W. Fraser; B. Lomax; M. Sephton; T. Shanahan; C. Miller; W. Gosling**
Pollen and spores as biological recorders of past ultraviolet irradiance

► Wednesday 10th May 2017

ROOM 11 AUDITORIUM (BASEMENT)

Ice-sheet and sea-level variability during late-Cenozoic warm periods: PALSEA2

Conveners: A. Carlson, A. Dutton, A. Long and G. Milne

Chairs: A. Carlson

- 11:00 M. Latinovic; V. Klemann; M. Thomas
Sea-level indicators as proxy data for relative sea-level change
- 11:15 L. Vetter; H. Spero
Reconstructing oxygen isotope heterogeneity of Laurentide Ice Sheet meltwater during Termination I
- 11:30 H. Bervid; A. Carlson; I. Hendy; M. Walczak; J. Stoner
Deglacial sea-surface temperature change and rapid response along the western margin of the northern and southern Cordilleran ice sheet
- 11:45 B. Keisling; R. DeConto
Reconstructing Greenland Ice Sheet Dynamics during the Last Deglaciation
- 12:00 A. Glueder; A. C. Mix; G. A. Milne; B. Lecavalier; B. Reilly; J. Clark; C. Holm; J. Padman; A. Ross; S. John
Improving relative sea-level reconstructions in northern Greenland from marine bivalves with stable isotope data; implications for ice history and GIA models
- 12:15 B. Mauz; Z. Shen; G. Spada
Sea-level proxy records: Are they good enough to reconstruct small-scale jumps?
- 12:30 J. Blasco Navarro; J. Álvarez Solas; A. Robinson; M. Montoya
Antarctic Ice Sheet sensitivity to oceanic temperature changes
- 12:45 B. Otto-Bliesner; M. Lofverstrom; W. Lipscomb; J. Fyke; S. Marshall; W. Sacks
Coupled Long-Term Evolution of Climate and the Greenland Ice Sheet During Past Warm Periods: A Comparison for the Last Interglacial and the Late Pliocene

Working Group on
Quaternary Interglacials
AUDITORIO: ROOM 8
13:00 - 15:00 H.

Working Group meeting: Extreme
events and risk assessment
AUDITORIO: ROOM 6
13:00 - 15:00 H.

Paleoclimate Modelling
Intercomparison Project
Town Hall Meeting
AUDITORIO: ROOM 11
17:00-19:00 H.

► POSTER SESSION 17:00 – 19:00 ◀ HIPOSTILA ROOM

MED

- R. Cheddadi; C. Khater
Climate change since the last glacial period in Lebanon and the persistence of Mediterranean species
- D. Semikolennykh; T. Yanina; E. Ignatov; K. Arslanov
Paleogeography of Kerch Strait during the Late Pleistocene – Holocene
- M. C. Trapote; V. Rull; T. Vegas - Vilarrúbia
Climate & anthropogenic drivers of past ecological dynamics in lake Montcortes (Iberian Peninsula)
- T. Bardaji; A. Cabero; E. Roquero; C. Zazo; J. Lario; C. J. Dabrio; J. L. Goy; M^a J. Machado; N. Mercier; P. G. Silva; A. Martínez-Graña
Climatic variability in western Mediterranean during the last glacial cycle (ca.13.0-14kyBP): evidences from an island setting (Formentera, Balearic Is., Spain).
- N. V. Esin; N. Igorevich Esin
Dynamics of vertical tectonic movements during the Holocene
- H. Laermanns; D. Kelterbaum; M. Elashvili; S. Matthias May; S. Opitz; D. Hülle; J. Verheul; H. Brückner
Holocene coastal and palaeoenvironmental evolution in the surroundings of the Rioni Delta (Kolkheti lowlands, W Georgia)
- C. Pérez-Mejías; A. Moreno; C. Sancho; H. Stoll; I. Cacho; H. Cheng; L. Edwards
High frequency hydrological variability since last glacial inception: the speleothem record of Ejlue Cave, NE Iberia
- I. Unkel; L. Schwark; A. Haug
Environmental change during the LBA-EIA-transition in S-Greece: climate forcing and human contribution
- F. Marret; P. Mudie; K. Mertens; L. Shumilovskikh; S. Leroy
Atlas of modern dinoflagellate cyst distribution in the Black Sea Corridor

Wednesday 10th May 2017

- 10 M. Rogerson; M. Mansoura; B. Mauz; M. Ouaja; D. Hoffmann; N. Elmedjoub; Y. Jedoui; N. Kallel; M. Luetscher; K. Regaya; K. Rosewell; C. C. Spötl
Climate Change across the northern boundary of the Sahara: A review of the Quaternary in Tunisia
- 11 S. Miko; N. Ilijanic; O. Hasan; G. Papatheodorou; I. Razum; D. Brunovic; K. Bakrac; V. Hajek Tadesse; M. Sparica Miko
Paleoenvironmental archives of the submerged karst landscapes of the Eastern Adriatic
- 12 N. Ilijanic; S. Miko; O. Hasan; V. Hajek Tadesse; D. Brunović
Holocene drowning of the Late Pleistocene lake in Provac Bay and the formation of Lake Vrana
- 13 G. Furlanetto; C. Ravazzi; M. Brunetti; R. Comolli; M. De Amicis; V. Maggi; R. Pini; F. Vallé
Improving quantitative reconstructions of climate parameters and long-term Holocene pattern in an high-alpine peat bog subjected to heavy oceanic outbursts (outer Italian Alps)
- 14 M. Alcolea Gracia; C. Mazo; R. Piqué; L. Montes; R. Domingo; A. Obón; A. Berdejo; P. Utrilla
Human-forest interactions in central pre-pyrenees (ne Spain) during early-mid holocene transition. Charcoal analysis in archaeological contexts.
- 15 S. Bagrova; A. Makeev; A. Rusakov; T. Yanina; R. Kurbanov
Pedological response to the dynamics alteration in environment of the Lower Volga region in the last macrocycle.
- 16 N. Tkach; A. Sean Murray; T. Yanina; R. Kurbanov
OSL-chronology of Caspian depression paleogeographic evolution in Late Pleistocene
- 17 N. Tyunin; V. Dikarev; D. Semikolennykh; T. Yanina
The Kuban River Delta Holocene stratigraphy (grain size analysis)
- 18 S. Gaßner; E. Gobet; C. Schwörer; A. Hafner; W. Tinner
Postglacial interactions between climate, vegetation, land use and fire dynamics in Northern Greece
- 19 T. Alina; P. Tucholka; S. Toucanne; E. Gibert-Brunet; Y. A. Lavrushin; O. Dufauy; S. Miska
Clay minerals in Late Quaternary Caspian Sea sediments
- 20 K. Penkman; R. Preece; S. Parfitt; T. Meijer; N. Limondon-Lozouet; A. Tesakov
EQUATE: Building a European Quaternary Aminostratigraphic Timescale
- 21 P. González-Sampéris; M. Leunda; G. Gil-Romera; A. Moreno; J. Aranbarri; B. Oliva-Urcia; M. Morellón; J. P. Corella; B. L. Valero-Garcés
Climate-human-environment interactions as trigger of the current central pyrenees landscape: a history from lake records
- 22 A. Muñoz; A. Entrena; A. Pérez; A. Muñoz; A. Luzón; M. J. Mayayo; A. Yuste; M. A. Soriano
Morphosedimentary evolution of the Middle Martín Valley (NE Spain) during the Late Pleistocene-Holocene and its relation to climate changes.
- 23 J. Camuera; G. Jiménez-Moreno; M. J. Ramos-Román; A. García-Alix; F. Jiménez-Espejo; J. L. Toney; R. Scott Anderson; D. Kaufman; J. Bright; D. Sachse
High-resolution multiproxy study of the Last Glacial Maximum (LGM) and deglaciation from the Padul peat bog (southern Iberian Peninsula)
- 24 F. Franco Múgica; A. J. Moores; P. González Sampéris; A. C. Stevenson
Full glacial vegetation history in high-elevation Sierra Nevada from Southern Spain.
- 25 J. N. Pérez Asensio; I. Cacho; J. Frigola; L. D. Pena; F. J. Sierrro; A. Astioli; J. Kuhlmann; K. Huhn
Late glacial to Holocene western Mediterranean paleoclimate variability and its impact on deep and intermediate water circulation
- 26 F. Lirer; G. Margaritelli; S. Bonomo; A. Cascella; R. Rettori
Paleoclimatic reconstruction from marine records of central and western Mediterranean area over last five millennia using planktonic foraminifera
- 27 M. Jones; G. Rollefson; T. Richter; Y. Rowan; A. Wasse
Early Holocene Desertification of Eastern Jordan
- 28 E. Badyukova
Baery knolls - unusual landforms in the Northern Caspian Plain
- 29 T. Yanina; N. Bolikhovskaya; M. Lychagin; A. Svitoch
Evolution of the Volga river delta during Holocene
- 30 G. Margaritelli; F. Lirer; F. Di Rita; D. Magri; L. Capotondi; S. Bonomo; I. Cacho; A. Cascella; R. Rettori; M. Vallefucio
Marine response to climate changes during the last five millennia in the central Mediterranean Sea
- 31 E. Dolgova; V. Matskovsky; U. Gadiev; A. Kudikov; N. Lomakin; P. Polumieva
Extending tree-ring chronologies in the Northern Caucasus for paleoclimatic and historical purposes
- 32 M. Bartolomé Úcar; A. Moreno; C. Sancho; Á. Belmonte; E. Iriarte; I. Cacho; H. Stoll; R. L. Edwards; H. Cheng
Climate variability inferred from several speleothems in Central Pyrenees during MIS 3, Lateglacial and Holocene (Las Gloces Cave)
- 33 M. Leunda; C. Sancho; M. Bartolomé; Á. Belmonte-Ribas; D. Gómez; G. Gil-Romera; A. Moreno; B. Oliva-Urcia; P. González-Sampéris
The last ice caves of western Mediterranean mountains and its potential for palaeoenvironmental reconstructions: an announced disappearance in the Pyrenees
- 34 D. Veres; A. Timar-Gabor; I. Obrecht; U. Hambach; C. Zeeden; J. Bosken; V. Anechitei-Deacu; S. Markovic; F. Lehmkuhl
Lower Danube loess and millennial-scale paleoclimate changes: new approach, new outcome and new perspectives
- 35 E. Iriarte; V. Matinez-Pillado; J. A. López-Sáez
Integrating Holocene RCC geochemical proxies and archaeological cultural changes in the northern Plateau of the Iberian Peninsula: the Villafáfila lagoon and Sierra de Atapuerca speleothems
- 36 J. Van 't Hoff; T. Schröder; K. Reicherter; M. Melles
A high-resolution Holocene paleoclimate record from the Laguna de Medina, Cádiz, southern Spain.
- 37 D. Wolf; D. T. Kolb; M. Alcaraz-Castano; R. Calvo; J. Sánchez; L. Zöller; D. Faust
Cold spells in interior Iberia across the last glacial cycle, and implications for cultural turnover periods - A study on aeolian archives
- 38 T. Schröder; J. Van 't Hoff; M. Melles; J. Antonio López-Sáez; K. Reicherter
The vegetation and fire history in southern Spain during the Holocene based on a high-resolution lacustrine record from the Laguna de Medina, Cádiz
- 39 T. Vadsaria; G. Ramstein; L. Li; J. C. Dutay
Simulation of the last Sapropel event using a high-resolution regional model

► Wednesday 10th May 2017

- 40 A. Oflaz; W. Dörfler; M. Weinelt
Review of "The Beyşehir Occupation Phase": possible marker assemblage pollen zone for the biostratigraphic division of the Late Holocene in the Eastern Mediterranean or not?
- 41 A. García Arnaiz; M. Morellón; J. Vegas; A. Moreno; Y. Sánchez-Moya; E. Bellido; F. S. Anselmetti; D. Ariztegui
Development of a precise age-depth model for the varved record of Lake Butrint (Albania): a reconstruction of environmental change in the central Mediterranean region during the last millennium
- 42 M. El Quahabi; A. Hubert-Ferrari; V. Karabacak; S. Schmidt; N. Fagel
Lacustrine clay mineral assemblages as a proxy for land-use and climate changes over the last 4 kyr: The Amik Lake case study, Southern Turkey
- 43 E. Russo; A. Grabundzija
Climate Trends Changing Threads in the Prehistoric Pannonian Plain
- 44 M. Alcolea Gracia; V. Sauqué; C. Mazo; G. Cuenca-Bescós
Neanderthal landscape south of the ebro river. First results from the late pleistocene (mis5) site of aguilon p5 cave (zaragoza, spain).
- 45 C. Zielhofer; W. J. Fletcher; S. Mischke; M. De Batist; J. F. E. Campbell; S. Joannin; A. Junginger; B. Schneider; N. El Hamouti; A. Mikdad; T. Lauer
Atlantic forcing of Western Mediterranean winter rain minima during the last 12,000 years
- 46 Y. Dixit; S. Toucanne; L. Bonnin; C. Fontanier; A. Tripathi; G. Jouet
Rainfall Variability in the North-Central Mediterranean during MIS7 and MIS5: New insights for sapropel deposition

VOLC

- 121 C. Gao; Y. Gao; C. Shi
Climate Aftermath of the 1815 Tambora Eruption in China, and the Role of Eruption Season
- 122 P. Harvey; S. Grab; F. Engelbrecht
Volcanic Forcing: New Initiatives to Establish its Impacts on Climates of the Southern Hemisphere
- 123 J. Picas; S. Grab; R. Allan
Linking explosive 19th century volcanoes with wild storms over southernmost Africa: a case of cause and effect or mere coincidence?
- 124 D. Rus
The effects of the eruption of the Laki volcano in Transylvania
- 125 A. Seddon; M. Jokerud; J. Birks; V. Vandvik; K. Willis
Palaeo-UV-B reconstructions in fossil-pollen chemistry: quantifying uncertainties and measuring short-term responses in *Pinus* spp.
- 126 S. Guillet; C. Corona; M. Stoffel; M. Khodri; F. Lavigne; P. Ortega; N. Eckert; V. Daux; O. Churakova Sidorova; M. Beniston; V. Masson-Delmotte; C. Oppenheimer
Reassessing the climatic impacts of the 1257 eruption in Europe and in the Northern Hemisphere using historical archives and tree rings
- 127 M. Gurskaya
Estimation of volcanic explosivity index (VEI) by light rings in larches from northern Siberian forest tundra
- 128 L. Marshall; A. Schmidt; K. Carlsaw; M. Toohey; G. Mann; M. Mills; J. F. Lamarque; F. Tummson; S. Tilmes; S. Dhomse; D. Zanchettin; M. Khodri
Multi-model comparison of the volcanic sulfate deposition from the 1815 Mt. Tambora eruption
- 129 D. McLean; P. Albert; T. Nakagawa; T. Suzuki; SG14 Project Members; V. Smith
An integrated Holocene tephrostratigraphy for East Asia: A high-resolution cryptotephra study from Lake Suigetsu (SG14 core), central Japan
- 109 J. L. Fernández-Turiel; F. J. Pérez-Torrado; A. Rodríguez-González; J. Saavedra; J. C. Carracedo; M. Rejas; A. Lobo; N. Ratto; M. Osterrieth; W. Baez; J. Gallardo
The tephra deposits of the large 4.2 ka BP Cerro Blanco eruption in the southern Puna, Central Volcanic Zone, Andes
- 110 M. C. Margot; Clyne M. Mills; J. F. Lamarque; M. Khodri; G. Mann; L. Marshall; A. Robock; A. Schmidt; C. Timmreck; M. Toohey; F. Tummson; D. Zanchettin
Sources of inter-model variability in the VolMIP-Tambora experiment
- 111 B. Zambri; A. Robock; A. Schmidt; M. Mills
Modeling Climate Impacts of the 1783-1784 Laki Eruption in Iceland
- 112 K. Rehfeld; M. Holloway; E. Wolff; L. Sime
Is a cold planet Earth's climate more sensitive to volcanic forcing than a warm one?
- 113 F. Gennaretti; D. Huard; M. Naulier; M. Savard; C. Bégin; D. Arseneault; J. Guiot
Differential sensitivity to volcanic forcing of black spruce ring widths and stable isotopes from the northern Quebec taiga
- 114 F. Muschitiello; F. S. R. Pausata; J. Lea; B. Wohlfarth
Impact of volcanism on Fennoscandian Ice Sheet melting during the last deglaciation
- 118 K. KuziĆ
Identification of the volcano from the poem Vila Slovinka (Fairy Slav)
- 119 M. Sigl; S. Brügger; U. Büntgen; A. Eichler; D. Osmont; W. Tinner; M. Schwikowski
Climate, land-use change and fire activity in Central Asia during the past 6,000 years and its relation to volcanic and solar activity
- 120 P. Albert; V. Smith; E. Tomlinson; T. Suzuki; T. Nakagawa
Trace element characterisation of Japanese tephrostratigraphic markers: elucidating eruptive histories and facilitating the synchronisation of palaeoclimate archives
- 108 E. Iriarte; J. Revelles; W. Finsinger; F. Burjachs; G. Alacalde; M. Saña
The youngest Holocene volcanic eruptions in the Iberian Peninsula: palaeoenvironmental context and possible impacts on early Holocene populations in the Garrotxa region (NE Iberian Peninsula)
- 107 P. Hopcroft; J. Kandlbauer; P. Valdes; S. Sparks
Reduced cooling in response to future volcanic eruptions
- 106 I. Feeser; W. Dörfler
Evidence for environmental change at around the Hekla 4 eruption from laminated lake sediments in Northern Germany
- 97 R. Wilson; R. D'Arrigo; M. Rydval; D. Clayton
The "Ills": Long-Term Climatic Context for the 1690s Scottish Famine Inferred from Tree Rings

Wednesday 10th May 2017

- 98 [S. Davies](#); P. Abbott; A. Bourne; M. Chapman; E. Cook; A. Griggs; N. Pearce; A. Svensson; B. Austin
Connecting the records: exploiting tephra deposits to help understand abrupt climate change
- 99 [G. Plunkett](#); B. Jensen; R. Booth; G. Swindles; A. Blundell; H. Mackay; P. Hughes
Did the AD 854 Mount Churchill eruption trigger societal and climatic impacts in the northern mid-latitudes?
- 100 [L. Shotter](#); A. Newton; A. Dugmore; J. Stevenson
Environmental Impact of Plinian Eruptions in Iceland

FALSEA

- 96 [R. Barnett](#); P. Bernatchez; M. Garneau
Salt-marsh testate amoebae as a novel tool for reconstructing regional sea-level changes in eastern Canada
- 95 [N. Barlow](#); A. Long; R. Gehrels; M. Sahr; R. Scaife; H. Davies; K. Penkman; D. Bridgland; A. Sparkes; C. Smart; S. Taylor
Relative sea-level variability during the late Middle Pleistocene: new evidence from eastern England
- 94 [L. Niu](#); G. Lohmann; E. Gowan
Influence of climate forcing on the Northern Hemisphere Ice Sheets evolution through the last glacial cycle
- 93 [D. Chandan](#); R. Peltier
Reconciliation of the Orangeburg Scarp Record for the Influences of an Accurate Pleistocene GIA Correction and Tectonic Uplift
- 92 [G. Sinclair](#); A. E. Carlson; D. H. Rood
Mountain glacier sensitivity to centennial-scale climate change: a case study from Spitsbergen, Svalbard
- 91 [W. H. Nahm](#)
Holocene sea-level changes in Korea
- 90 [S. Yi](#); B. Song; W. H. Nahm; J. Y. Lee; J. C. Kim; J. Lim
Holocene relative sea level changes and environmental implications on the west coast of South Korea
- 89 [J. Santisteban](#); J. F. Mediator; R. M. Mediavilla; B. del Moral; C. J. Dabrio
Influence of Holocene relative sea level variations in the evolution of the Almenara marsh (Castellón, Spain)

OCEAN

- 155 [P. Blaser](#); J. Lippold; M. Gutjahr; N. Frank; J. M. Link; M. Frank
The evolution of deep water circulation in the subpolar North Atlantic during the last glacial termination
- 156 [Y. Dai](#); J. Yu; P. deMenocal; O. Hyams-Kapchan
Salinity effect on *Globigerinoides ruber* (white) Mg/Ca: A revisit of Atlantic core-tops
- 157 [K. Kubota](#); K. Shirai; N. Sugihara-Murakami; K. Seike; M. Hori; K. Tanabe
Bivalve shells as archives of past environmental changes
- 158 [L. Missiaen](#); S. Pichat; L. Bordier; C. Waelbroeck; E. Douville
Do changes in detrital sources during Heinrich events affect the sedimentary 231Pa/230Th circulation proxy?
- 159 [S. Little](#); D. Vance; C. Archer; T. Lyons; J. McManus; S. Severmann
Copper isotope signatures in the marine environment governed by complexation to strong organic ligands
- 160 [S. El Meknassi](#); T. Cardone; G. Dera; V. Chavagnac; M. De Raféls
Sr isotope composition of modern molluscs shells: Are they a truthful proxy of seawater composition?
- 161 [C. Pelejero](#); R. Sherrill; S. Fuertes; R. Kozdon; A. López-Sanz; A. Gagnon; V. Häussermann; G. Forsterra; E. Calvo
Experimental paleo-proxy calibration in the cold water coral *Desmophyllum dianthus*
- 162 [R. Bhushan](#); U. S. Banerji; R. Agnihotri; A. J. T. Jull
Sulfur Isotopes as a Tracer of Sea level variability
- 163 [C. Colin](#); Z. Yu; L. Meynadier; E. Douville; K. Tachikawa; F. Bassinot
Seasonal variations in distribution of dissolved neodymium concentrations and ϵNd in the Bay of Bengal
- 164 [C. Colin](#); L. Bonneau; J. Dubois-Dauphin; E. Pons-Branchu; E. Douville; N. Tisnerat-Laborde; M. Elliot; M. Douarin; F. Mienis; N. Frank; D. Swingedouw
Modern and Holocene hydrological variations of the NE Atlantic inferred from Nd isotopic composition analyzed on seawater and deep-sea corals
- 165 [R. Anderson](#)
Factors that affect sedimentary 231Pa/230Th ratios
- 166 [F. Pöppelmeier](#); P. Blaser; H. Schulz; M. Gutjahr; J. Lippold; N. Frank
The interaction of authigenic and detrital Nd in North Atlantic sediments
- 167 [L. Matos](#); C. Colin; N. Frank; C. Wienberg; D. Hebbeln
Antarctic Intermediate Water intrusion at the Florida Strait related to the last glacial millennial-scale variability
- 168 [K. Allen](#); B. Hönisch; S. Eggins; L. Haynes; Y. Rosenthal; J. Yu
Trace element proxies for surface ocean conditions: A synthesis of culture calibrations with planktic foraminifera
- 169 [A. García-Escárraga](#); L. J. Clarke; I. Gutiérrez-Zugasti; M. R. González-Morales; J. M. López-Higuera; A. Cobo
Mollusc shell Mg/Ca ratios measured by Laser-Induced Breakdown Spectroscopy (LIBS) as a future palaeoclimatic proxy
- 170 [M. A. Vara](#); K. DeLong; A. Herrmann; G. Ouellette; J. Richey
A New Coral Proxy for Temperature in the Southern Gulf of Mexico
- 171 [T. Noble](#); Z. Chase; H. Bostock; A. Post; A. Rosell-Melé; M. Cao
Characterising the geochemical fingerprint of Adélie Land Bottom Water: A multi-proxy approach
- 172 [K. Costa](#); J. McManus; R. Anderson; G. Winckler
Deciphering 231Pa/230Th in hydrothermally influenced sediments from the Juan de Fuca Ridge
- 173 [M. Frank](#)
Reconstructing Past Ocean Circulation and Water Mass Mixing with Radiogenic Neodymium Isotopes and Rare Earth Elements: Potential and Pitfalls
- 174 [M. Cornuault](#); K. Tachikawa; L. Vidal; A. Guihou; G. Siani; P. Deschamps; M. Revel
Circulation changes in eastern Mediterranean Sea over the past 23,000 years inferred from authigenic Nd isotopic ratios
- 175 [T. Horner](#); B. Geyman; J. Ptacek; M. Auro; T. Hill; M. LaVigne
Barium in deep-sea bamboo corals: Phase relationships, stable isotopic distributions, and prospects for paleoceanography
- 176 [R. Sherrill](#); R. Kozdon; C. Pelejero
Trace metal composition and growth habit of cultured cold-water coral aragonite: proxy calibration experiments
- 177 [S. Chaabane](#); M. López Correa; P. Montagna; N. Kallel; M. Taviani; C. Linares; P. Ziveri
Geochemical investigation of the Mediterranean red coral (*Corallium rubrum*) for paleotemperature reconstructions
- 178 [T. Marchitto](#); B. Rongstad; J. Fehrenbacher; H. Spero; A. van Geen
Proof-of-concept for solution-based Mg/Ca on individual planktonic foraminifera: 250 years of ENSO variability

► Wednesday 10th May 2017

- 179 **C. González**; V. Ramirez; C. Huguet; H. Hernán Tavera; A. Amézquita
Marine and terrestrial signals in surface sediments from the Caribbean and the eastern tropical Pacific: a multiproxy approach
- 180 **E. García-Solsona**; I. Cacho; F. Lirer; L. Pena; J. N. Pérez-Asensio; L. Quirós-Collazos
Rare Earth Elements and Nd isotopes as tracers of modern circulation in the central Mediterranean Sea
-
- HYD**
- 154 **R. Hanane**; M. El Ghachi; Y. El Khalki; A. Roujjati; M. Taieb; F. Thevenon; B. Damanti
Hydroclimatic changes in Middle Atlas (Morocco, Western Mediterranean region), during the lateglacial-early Holocene transition based on multiproxy data.
- 153 **C. Nolan**; Bryan Shuman; Robert Booth; Stephen Jackson
Using co-located lake and bog paleohydrologic records to improve proxy climate interpretations
- 152 **G. Windler**; J. E. Tierney; P. Zander; R. Thunell
Molecular proxy records of the effect of shelf exposure on Indo-Pacific warm pool climate from the past 450,000 years
- 151 **S. Prizomwala**; T. Solanki; N. Bhatt
Reconstructing climate signals from fluvial, aeolian and marine sequences of southern Saurashtra during the last 100 ka
- 150 **G. Y. Gunjan**; Yadav S. P. Prizomwala; T. Solanki; N. Makwana
Dryland fluvial landforms: Reliable archives for reconstructing palaeoclimatic signals?
- 149 **J. I. Santisteban**; R. Mediavilla; L. Galán; J. Francisco Mediató; B. del Moral
Palaeohydrological fluctuations for the last 25000 years as recorded in fluvial sediments of the Guadiana River (central Spain).
- 148 **P. Matthias**; R. Rachmayani; M. Schulz; S. Multiza
Astronomical forcing of an exceptionally long North African wet phase during Marine Isotope Stage 11
- 147 **F. Shi**; S. Zhao; Z. Guo; H. Goosse
Multi-proxy reconstructions of precipitation field in China over the past 500 years
- 146 **C. Chen**; D. McGee; J. Quade
Reconstructions of late Pleistocene precipitation from paleoshorelines of high-altitude, closed-basin lakes in the central Andes
- 145 **I. Bouimetarhan**; M. Prange; C. Gonzalez; C. Chiessi; L. Dupont
A new concept for paleohydrological evolution of the Younger Dryas in NE Brazil
- 144 **C. Tozer**; A. Kiem; T. Vance; J. Roberts; M. Curran; A. Moy
From Antarctic ice cores to Australia's climate: Hydroclimate reconstructions using an alternative proxy
- 143 **L. Vidal**; G. Leduc; K. Thirumalai
ENSO activity during the last climate cycle using IFA
- 142 **N. Malygina**; A. Eirich; T. Barlyayev; T. Papina
Influence of atmospheric circulation on isotopic composition of precipitation in foothill Altai Mountains (Russia)
- 141 **N. Graham**; D. Verschuren; K. Georgakakos
Hydrological simulations of the mid-Holocene drying of Megalake Chad
- 140 **J. Singarayer**; M. Holloway
Insights into late Quaternary tropical hydroclimate dynamics using a water-isotope enabled climate model
- 139 **T. Fells**; M. Ionita; N. Rambu; G. Lohmann; M. Kölling
Extreme aridity and mild temperatures in the Middle East during the late Little Ice Age
- 138 **P. Scussolini**; J. Aerts; H. Renssen; P. Bakker; P. Ward; B. van den Hurk; H. Winsemius
A fresh cut on future flood impacts: learning from the Last Interglacial
- 137 **G. Swann**; A. Mackay; M. Leng; V. Panizzo; A. Snelling; H. Sloane; E. Vologina
Diatom oxygen isotope insights into hydrological changes in Lake Baikal during the last glacial
- 136 **M. Theuerkauf**; E. Dietze; T. Blume; K. Kaiser
Separating drivers of lake level fluctuations in humid climates
- 135 **A. Giesche**; Y. Dixit; F. Gázquez; C. Petrie; D. Hodell
Quantitative paleo-aridity record from Karsandi paleolake (NW India) over the Holocene inferred from triple oxygen isotopes in gypsum hydration water
- 134 **V. Grijalba**; Gómez G. Vargas; C. Ortega; F. González; R. Rondanelli; J. González
Unravelling the exceptional El Niño-driven mudflows and catastrophic floodings of march 2015 at the hyperarid Atacama Desert
- 133 **C. Ortega**; G. Vargas; M. Rojas; S. Pantoja; P. Muñoz; C. B. Lange; J. A. Rutilant; L. Dezileau; V. Grijalba; F. Gonzalez; L. Ortielb
Extreme ENSO-driven torrential rainfall episodes at the southern edge of the Atacama Desert during the mid-Holocene and its projection for the 21th century
- 132 **Y. Enzel**; J. Quade
Limited early Holocene northward shift of the ITCZ and rain belt over Arabia: The Lakes vs. wetlands debate regarding how wet is wet.
- 131 **E. Brisset**; E. Brisset; M. Djamali; A. Naderi; K. Tachikawa; D. Borschneck; M. Pourkerman; E. Bard
Late Holocene palaeoclimate variability in south-western Asia highlighted by the Lake Mahariou sediments (Iran) and potential implications for human adaptive strategies
- 130 **P. Cabrera-Medina**; L. Schulte; C. Garcia; J. C. Peña; F. Carvalho
The influence of snow cover distribution on alpine floods. An image-satellite snow distribution analysis related with the severest flood episodes of the Hasli-Aare river basin, Berner Oberland (1987-2012)

MON

- 76 **S. Liu**; J. Li; X. Shi
Provenance discrimination of siliciclastic sediments in the central Bay of Bengal and their implication for paleoenvironmental records since 42.8 ka
- 77 **J. Nie**; G. Carmala; Q. Su; Q. Liu; R. Zhang; D. Heslop; C. Necula; S. Zhang; Y. Song; Z. Luo
Late Miocene onset of dominant 100,000 year East Asian summer monsoon cycles
- 78 **S. Chauchhai**; H. C. Wang; L. Löwemark; A. Chabangborn; B. Wohlfarth; X. Y. Jiang; H. C. Li; R. Uemura; L. Guangxin; X. Wang; L. Tan; C. C. Shen
Instant responses of Indian Ocean monsoon to high-latitude northern Atlantic during the Younger Dryas

Wednesday 10th May 2017

- 79 [A. Bory](#); C. Skonieczny; V. Bout-Roumazailles; B. Malaizé; M. Verwaerde; N. Beauchamp; M. Delattre; R. Abraham; D. Ponlevé
Trade wind and monsoon regimes over West Africa during Terminations I, II and V
- 80 [P. Le Mézo](#); L. Beaufort; P. Braconnot; L. Bopp; M. Kageyama
Indian summer monsoon dynamics and marine productivity in the Arabian Sea, a model-data comparison perspective
- 81 [M. Alonso-García](#); T. Rodrigues; C. A. Álvarez-Zarikian; L. M. Petruny; M. Padilha; D. Kroon; J. D. Wright; X. Su; M. Inoue; the IODP Expedition 359 Scientists
Late Pleistocene climatic and oceanographic variability in the Indian Ocean revealed by the Maldives Sea record of IODP Site U1467
- 82 [M. Crucifix](#); P. Araya-Melo
ENSO and tropical monsoon variability throughout the ice ages
- 83 [R. H. Nagai](#); A. L. M. L. B. Souza; A. Gerotto; R. C. Lopes Figueira
The South China Sea paleoceanographic conditions and terrigenous sediment supply in the last 400 ka

AFR

- 55 [R. C. Njokuocha](#)
An insight into the mid-late Holocene vegetation of southeast Nigeria as deduced from a pollen profile of pond sediment, Nsukka, Nigeria
- 56 [R. Lem](#); J. Marshall; M. Leng; F. Marret
Palaeoceanographic productivity changes in the Eastern Equatorial Atlantic since the penultimate glaciation
- 57 [M. Holm](#); M. Kylander; S. Grab; J. Fitchett; A. Martínez-Cortizas; R. Bindler
Hydroclimatic variations from the Last Glacial to historical times in the eastern Lesotho Highlands, southern Africa
- 58 [T. Caley](#); B. Malaizé; L. Rössignol; E. McClymont; P. Vequaud; J. Crespin; K. Charlier; IODP Expedition 361 Scientists
Aguilhas leakage over the last 3 million years
- 59 [A. L. Daniu](#); M. F. Loutre; D. Swingedouw; T. Laepple; P. Braconnot; M. Kageyama; F. Bassinot; B. Malaizé; T. Caley
Precession and obliquity controls on South Africa monsoon and fire
- 60 [F. C. Rodriguez](#); Tovar F. Jiménez Espejo; I. R. Hall; S. R. Hemming; L. J. LeVay
Spatangoids ichnofabrics at site U1475: a key to interpret paleoenvironmental conditions
- 61 [F. J. Rodriguez](#); Tovar F. Jiménez Espejo; I. R. Hall; S. R. Hemming; L. J. LeVay
Integrative analysis of ichnological and physical properties data at site U1475: assessing paleoenvironmental changes during the Messinian at the Agulhas Plateau region
- 62 [M. Chevalier](#); B. Chase
CREST Climate REconstruction Software
- 63 [L. Meyer](#); M. Van Daele; N. Tanghe; J. Eloy; D. Verschuren; M. De Batist
Drilling a crater at the Equator-insides from ICDP DeepCHALLA
- 64 [A. Carr](#); B. Chase; A. Boom; J. Medina-Sanchez
Refinement of stable isotope palaeoclimate proxies from southern African rock hyrax middens
- 65 [M. Simon](#); C. Lear; S. Hemming; S. L. Goldstein; I. R. Hall; M. Ziegler
Pliocene palaeoclimate off southeast Africa
- 66 [M. Sobol](#); L. Scott; S. A. Finkelstein; G. Gil Romera; E. Marais
Modern Pollen-Based Predictions Of Southern African Vegetation And Paleovegetation Using Random Forests
- 67 [D. Verschuren](#); M. Van Daele; C. Wolff; N. Waldmann; I. Meyer; T. Ombori; F. Peterse; R. O'Grady; D. Schnurrenberger; D. Olago; ICDP DeepCHALLA project members
ICDP project DeepCHALLA: reconstructing East African climate change and environmental history over the past 250,000 years
- 68 [A. I. De Sousa](#); Horta Dias Gomes A. Gomes; E. Skosey-LaLonde; B. Zinsious; C. Gonçalves; N. Bicho; M. Raja; J. Cascalheira; J. Haws
Diatoms from Mozambique: a tool for palaeoenvironmental reconstructions and to understand human evolution
- 69 [F. Dietrich](#); N. Diaz; P. Deschamps; D. Sebag
Calcium transfer over the last 20ky: from a granitic source to carbonate nodule sinks (northern Cameroon)
- 70 [J. Lejju](#); D. Yeko
Environmental Dynamics in the crater lakes region of Western Uganda: Evidence from Phytolith and Charcoal Records
- 71 [C. Contoux](#); A. Bondeau; N. Barrier; F. Sylvestre
Variability of Sahel rainfall and Lake Chad extent during the Pliocene reconstructed by a chain of models
- 72 [N. Diaz](#); F. Dietrich; D. Sebag; A. Durand; G. King; P. Valla; P. Deschamps; F. Herman; E. Verrecchia
Quaternary palaeo-environmental reconstruction of the southwestern Chad Basin: the invaluable legacy of soil relics
- 73 [G. Gil-Romera](#); L. Scott; E. Marais; G. A. Brook
Holocene vegetation change in Late Quaternary fecal deposits of the Namib Desert and boundary region
- 74 [T. Bardaji](#); J.C. Cañaveras; S. Cuezva; A. Martínez Graña; S. Sánchez Moral
Preliminary evidences of ancient wetter episodes in the Theban Mountains (Egypt)
- 75 [E. Kyazike](#)
Kansyore island crescents, food procurement strategies, and environmental change

SMILL

- 188 [D. Sonechkin](#); N. Ivashchenko; V. Kotlyakov; N. Vakulenko
On the nature of the Mid-Pleistocene transition
- 187 [G. Philander](#)
On the dog that did not bark in the night: the curiously sporadic precession signals in records of recurrent Ice Ages
- 186 [Z. Song](#); M. Latif; M. Latif; W. Park
Greenland Ice Sheet Enhances Sensitivity of Pliocene Climate to Obliquity Variations in the Kiel Climate Model
- 185 [A. Fedorov](#); G. Manucharyan
Robust ENSO in a broad range of climates
- 184 [C. Brierley](#); P. Hopley; G. Weedon
An ultra-long speleothem record shows that orbital forcing alters the amplitude, but not period, of interannual variability
- 183 [N. Burls](#); A. Fedorov; D. Sigman; S. Jaccard; R. Tiedemann; G. Haug
The emergence of the Pacific meridional overturning circulation paced by obliquity cycles during the Pliocene

► Thursday 11th May 2017

	<i>Mozart Room</i>	<i>Luis Galve Room</i>	<i>Mariano Gracia Room</i>	<i>Hotel Romareda Room 1</i>	<i>Hotel Romareda Room 2</i>	<i>Room 11 (Auditorium)</i>
11:00 - 13:00	From the Mediterranean to the Caspian: palaeoclimate variability, environmental responses and human adaptive strategies	Large-scale hydroclimate variability and change of the Common Era: Patterns, Impacts, and Processes	Multidisciplinary reconstruction of paleofloods	Do species move, adapt or die? Exploring past biodiversity, ecological change and community dynamics in the fossil record	Ancient DNA for understanding past biodiversity, human history, and drivers of ecosystem changes: achievements, limits and perspectives	Understanding past variations in atmospheric greenhouse gases to constrain future feedbacks in the Earth system
15:00 - 17:00	Regional and transregional climate variability over the last 2000 years	Abrupt climate change: Challenges for Earth system understanding	Multidisciplinary reconstruction of paleofloods	Do species move, adapt or die? Exploring past biodiversity, ecological change and community dynamics in the fossil record	Global Dust Deposition in Past, Present, and Future Climates	

MOZART ROOM

From the Mediterranean to the Caspian: palaeoclimate variability, environmental responses and human adaptive strategies

Conveners: *A. Moreno, W. Fletcher, V. Vaylan*; Chairs: *H. Laermanns, T. Yanina*

11:00	INVITED TALK <u>T. Yanina</u> ; V. Sorokin; A. Svitoch; R. Kurbanov; N. Sychev; N. Tkach Correlation of the paleogeographic events of the Caspian Sea and Russian Plain during the last climatic macrocycle
11:15	<u>A. Kislov</u> ; V. Yanko-Hombach Late pleistocene-holocene dynamics in the Caspian and black seas: data synthesis and paradoxical interpretations
11:30	<u>O. Naidina</u> ; K. Richards Reconstructing vegetation changes and climate from pollen from Late Pliocene to Early Pleistocene in the North Caucasus
11:45	<u>C. N. Roberts</u> ; J. Woodbridge; A. Palmisano; A. Bevan; S. Shennan; E. Asouti Climatic change and the origins of agriculture in the Eastern Mediterranean during the last Glacial-Interglacial transition
12:00	<u>H. Laermanns</u> ; D. Kelterbaum; S. Matthias May; G. Kirkitadze; M. Elashvili; H. Brückner Bronze Age settlement mounds on the Colchian plain at the Black Sea coast of Georgia a geoarchaeological perspective
12:15	<u>S. Leroy</u> ; A. Amini Palaeoenvironmental changes and Meso-Neolithic human-landscape interaction in the Caspian coast
12:30	<u>R. Domingo</u> ; A. Alday; L. Montes; P. González Sampériz; M. Sebastián; A. Soto; J. Aranbarri; J. L. Peña; M. M. Sampietro; P. Utrilla The last hunter-gatherers in western Mediterranean. Research possibilities vs. environmental constraints: the Ebro Basin case study (NE Spain)
12:45	<u>P. Utrilla</u> ; <u>M. Bea</u> ; L. M. García-Simón Looking for new territories. What Levantine Rock Art can bring to the climate question

MOZART ROOM

Regional and transregional climate variability over the last 2000 years

Conveners: H. Goosse and N. Abram; Chairs: B. Martrat, S. J. Phipps, H. McGregor

- 15:00 **A. Schurer**; M. Mann; E. Hawkins; G. Hegerl; S. Tett
Importance of the Pre-Industrial Baseline in Determining the Likelihood of Breaching the Paris Limits
- 15:15 **R. Neukom**; PAGES2k Consortium members
Global mean temperature reconstructions over the Common Era based on the new PAGES2k proxy database
- 15:30 **J. Emile-geay**; J. Wang; N. McKay; D. Guillot; B. Rajaratnam
Patterns of climate change over the Common Era
- 15:45 **N. Steiger**; J. J. Gómez-Navarro; R. Neukom; J. Wang; J. Werner
Temperature field reconstructions and method intercomparison over the past 2000 years
- 16:00 **A. Orsi**; B. Stenni; M. Curran; N. Abram; S. Goursaud; V. Masson-Delmotte; PAGES Antarctica2K consortium
Antarctic climate variability at regional and continental scale over the last 2000 years
- 16:15 **L. Thomas**; J. Melchior van Wessem; J. Roberts; E. Isakssson; Antarctica 2k community
Antarctic snow accumulation over the past 2000 years
- 16:30 **X. Crosta**; C. Philippine; E. Johan; D. Robert; M. Guillaume
Late Holocene sea ice dynamics and potential forcing mechanisms off East Antarctica
- 16:45 **J. Franke**; S. Brönnimann; J. Bhend
A monthly paleo-reanalysis based on instrumental measurements, historical documents and tree-ring data for the period 1600 to 2000



► Thursday 11th May 2017

LUIS GALVE ROOM

Large-scale hydroclimate variability and change of the Common Era: Patterns, Impacts, and Processes

Conveners: M. Prange, N. Scroxton, M. Mohtadi, S. Steinke and H. Roop; Chairs: J. Smerdon, E. Coo

- 11:00 **S. St. George**; T. Ault; C. Carrillo; S. Coats; J. Mankin; J. Smerdon
What to expect when you're expecting decadal variability in hydroclimatic proxies
- 11:15 **S. Lewis**; A. Gallant
Assessing the range of hydroclimate variability in data poor regions: insights from Australia
- 11:30 **K. Allen**; R. Evans; E. Cook; S. Allie; F. Ling; G. Carson; P. Baker
Reconstructions of winter and summer hydroclimate in western Tasmania
- 11:45 **S. Metcalfe**; D. Stahle; G. Endfield
Hydroclimate in the Mexican Monsoon region: understanding the nature and impacts of climatic variability using different archives
- 12:00 **F. Charpentier Ljungqvist**
Summer temperature and drought co-variability across Europe since 850 CE
- 12:15 **F. Klein**; H. Goosse
Reconstructing East African rainfall and Indian Ocean sea surface temperatures over the last centuries using data assimilation
- 12:30 **S. Coats**
Paleoclimate constraints on the spatio-temporal character of past and future drought in climate models
- 12:45 **C. Raible**; S. Blumer; M. Messmer; F. Lehner; R. Blender; T.F. Stocker
Extratropical cyclone characteristics during the last millennium and the future implications on wind and precipitation extremes

LUIS GALVE ROOM

Abrupt climate change: challenges for Earth System understanding

Conveners: G. Lohman, R. Ivanovic, L. Gregoire, G. Knorr, S. Barker and A. Burke

Chairs: G. Lohmann, G. Knorr, S. Barker

- 15:00 **E. Corrick**; R. Drysdale; J. Hellstrom; E. Wolff; D. Fleitmann; E. Capron; I. Couchoud
Widespread speleothem evidence for the synchronous timing of millennial-scale climate events
- 15:15 **E. Capron**; S.O. Rasmussen; T.J. Popp; V. Gkinis; B. Vaughn; T. Erhardt; H. Fischer; T. Blunier; A. Grinsted; A. Landais; J. Pedro; et al. et al.
New insights into the anatomy of abrupt climate changes based on high-resolution records from the Greenland NEEEM and NorthGRIP ice cores
- 15:30 **M. Wary**; F. Eynaud; D. Swingedouw; V. Masson-Delmotte; J. Matthiessen; C. Kissel; J. Zumaque; L. Rossignol; J. Jouzel
Regional seesaw between North Atlantic and nordic seas during the last glacial abrupt climatic events
- 15:45 **M. Tetard**; L. Beaufort; L. Licari
Quantifying abrupt changes of bottom water oxygenation in the northeastern Pacific Ocean using new benthic foraminiferal tools.
- 16:00 **T. Bauska**; E. Brook; S. Marcott; D. Baggenstos; S. Shackleton; J. Severinghaus; V. Petrenko
Abrupt climate change events and atmospheric CO₂: constraints from ice core $\delta^{13}C-CO_2$ during the last glacial period
- 16:15 **X. Zhang**; G. Knorr; G. Lohmann; S. Barker
Atmospheric CO₂ controlled stability of glacial climate
- 16:30 **L. Sime**; R. Rhodes; P. Hopcroft
Abrupt Dansgaard-Oeschger warming events in Greenland: d18O model-data comparison
- 16:45 **E. Galbraith**; T. Merlis; C. DeLavergne
Finding the sweet spot for abrupt change: influences of atmospheric CO₂, orbital forcing and terrestrial ice sheets on AMOC stability

► Thursday 11th May 2017

MARIANO GRACIA ROOM

Multidisciplinary reconstruction of paleofloods

Conveners: L. Schulte, D. Schillereff, G. Benito, B. Wilhelm, J. C. Peña, J. I. Santisteban, C. Balasch, B. Valero-Garcés, M. Stoffel; Chairs: L. Schulte, G. Benito, D. Schillereff, B. Wilhelm

- 11:00 **M. Kahle**; R. Glaser; P. Francus; **PAGES Floods WG database project**
A PAGES Floods WG core project: The Collaborative Flood Database for Multiple Archive Types
- 11:15 **F. Arnaud**; P. Sabatier; B. Wilhelm; F. Ficotola; F. Moiroux; J. Poulenard; A. Bichet; W. Chen; J.L. Reyss; L. Gielly; M. Bajard; P. Taberlet; R. Arnaud
Timescale-dependent interplays of solar and temperature forcing to explain a 6-kyr record of flood frequency and intensity in the western Mediterranean Alps
- 11:30 **J. P. Corella**; B. L. Valero-Garcés; S. M. Vicente-Serrano; A. Brauer; G. Benito
On the frequency, seasonality and atmospheric drivers of Late Holocene heavy rainfall in Western Mediterranean
- 11:45 **M. Ahlborn**; M. Armon; Y. Ben Dor; A. Brauer; E. Morin; I. Neugebauer; M. J. Schwab; R. Tjallingii; Y. Enzel
Frequent extreme rainstorms during late Holocene regional drought in the Dead Sea basin
- 12:00 **U. Lombardo**; L. Rodrigues; A. Mestrot; H. Veit
Fluvial dynamics in the southern Amazonian foreland basin on annual and millennial time scales
- 12:15 **E. De Carli**; T. Hubble; D. Penny; D. Petley; T. Job; R. Hamilton; S. Clarke; P. Gadd; H. Brand; A. Helfensdorfer
Palaeolake Mannum a high-resolution record of Holocene streamflow from the Murray Darling River Basin, and a proxy for Southern Hemisphere hydroclimate
- 12:30 **C. Sánchez-García**; L. Schulte; F. Carvalho; J. C. Peña
Historical flood analysis of river catchments in south-eastern Spain
- 12:45 **O. Wetter**
Reconstruction of magnitude and seasonality of pre instrumental floods based on documentary evidence.

"Lunch time (Multiusos room/Lunch Area)"

- 15:00 **INVITED TALK V. Baker**
Paleoflood Data and Increasing Flood Extremes
- 15:15 **D. García-Castellanos**; J. E. O'Connor
Outburst flood erosion consistent with long-term landscape evolution models
- 15:30 **A. Agatova**; R. Nepop
Late Pleistocene outburst floods of the ice-dammed lakes and climate changes in the highlands of the SW Tuva, mountains of Southern Siberia
- 15:45 **C. Lopes**; A. C. Mix
The record of megafloods in marine sediments: an example from the NE Pacific
- 16:00 **G. Benito**; V. R. Thorndycraft; A. Medialdea; C. Sancho; A. Dussaillant; M. J. Machado; X. Rodríguez-Lloveras
Glacial lake outburst floods in the northern patagonian icefield during the holocene
- 16:15 **INVITED TALK E. Støren**; J. Bakke; K. Engeland; E. Kolstad; Ø. Paasche; A. Aano
Integrating lake sediment paleoflood reconstructions in Norwegian flood frequency scenarios
- 16:30 **J. A. Ballesteros Cánovas**; T. Hussain Koul; S. Guillet; H. Alamgir Shabir; B. Shah Mutayib; M. Stoffel
Coping with extreme events: the past flood history of Kashmir
- 16:45 **L. Schulte**; O. Wetter; B. Wilhelm; J. C. Peña; L. Glur; B. Amann; S. B. Wirth; F. Carvalho
A PAGES Floods WG pilot project: integration of multidisciplinary datasets to reconstruct a comprehensive paleoflood picture in the Bernese Alps

► Thursday 11th May 2017

HOTEL ROMAREDA-ROOM I

Do species move, adapt or die?
Exploring past biodiversity, ecological change and community dynamics in the fossil record

Conveners: *N. Whitehouse, H. Roe, D. Magri, A. Davies and M. J. Bunting*
Chairs: *N. Whitehouse, H. Roe, A. Davies, D. Magri, J. Bunting*

- 11:00 **INVITED TALK** H. Seppä; N. Stivirins
Biotic turnover rates during the Pleistocene-Holocene transition
- 11:15 **D. Schreve**
The view from the edge: mammalian turnover and abrupt climate change during the Lateglacial in Britain
- 11:30 **T. Giesecke**; W. O. van der Knaap; J. F.N. van Leeuwen; S. Brewer; S. Wolters
Postglacial changes in the floristic latitudinal diversity gradient in Europe
- 11:45 **N. Limondin-lozouet**; K. Penkman; P. Antoine
The Quaternary history of non-marine molluscs in the Somme valley (northern France) during the last 1 Myr
- 12:00 **K. Agiadi**; A. Girone; E. Koskeridou; P. Moissette; J.J. Cornée; F. Quillévère; V. Karakitsios
The Pleistocene fish fauna along the eastern coast of Rhodes Island (eastern Mediterranean)
- 12:15 **J. Conroy**; A. Collins; M. Bush; J. Overpeck; J. Cole; D. Anderson
A 400-year isotopic record of seabird response to eastern tropical Pacific productivity
- 12:30 **D. Hebbeln**; T. Krenzel; A. Schröder-Ritzrau; N. Frank; C. Wienberg
Sea-saw-like repeated extinction patterns of cold-water corals across the Strait of Gibraltar
- 12:45 **INVITED TALK** L.S. Epp; S. Kruse; N.J. Kath; L. Pestryakova; U. Herzschuh
Larch species turnovers and vegetation change in the arctic-boreal treeline ecotone during the Holocene

"Lunch time (Multiusos room/Lunch Area)"

- 15:00 **C.R. Schwörer** ; N. Álvarez; F. Gugerli; C. Sperisen; W. Tinner
Tracking Holocene genetic variability of Swiss mountain forests using ancient DNA
- 15:15 **R. Cheddadi** ; M. Araújo; L. Maiorano; M. Edwards; A. Guisan; M. Carré; M. Chevalier; P. Pearman
Temperature range shifts for three European tree species over the last 10,000 years
- 15:30 **R. Cunill Artigas**; A. Pèlachs Mañosa; J. Manuel Soriano López; R. Pérez Obiol; J. C. García Codrón; V. Carracedo Martín
Abies alba in the Pyrenees: paleoenvironmental and high spatial precision studies to understand past and current distribution
- 15:45 **W. Fletcher**; J. Campbell; S. Joannin; P. Hughes; S. Mischke; C. Zielhofer
Biotic response to centennial-scale climate variability in Northwest Africa: Were there Holocene analogues for current Cedrus atlantica dieback?
- 16:00 **A. Dawson**; C. Paciorek; J. McLachlan; S. Goring; S. Jackson; J. Williams
Changes in prehistoric forest composition in the Upper Midwestern United States in the last 2000 years
- 16:15 **J. Iriarte**; M. Robinson; J. de Souza; M. Cardenas; F. Mayle; R. Corteletti; P. DeBlasis
The Making of the Forest: Human-induced spread of Araucaria forest out of their natural range in the southern Brazilian highlands
- 16:30 **K. Panagiotopoulos**; J. Holtvoeth; A. Bertini; K. Kouli; T. Donders; L. Sadori; R. D. Pancost; B. Wagner; M. Melles
Lake Ohrid: a unique lacustrine record of vegetation and climatic history of the Early Pleistocene in SE Europe
- 16:45 **S.K. Sadasivam**; S. P. Thomas; B. Shanmuganathan; S. Krishnan; K. Goswami; M. Dev;
M. Sundararajan; M. Kumar Jaiswal; A. Kumaresan; S. Kumar Sadasivam
Spatio-temporal dynamics of bacterial communities in response to marine transgression and regressions occurred since late Pleistocene

HOTEL ROMAREDA-ROOM2

Ancient DNA for understanding past biodiversity, human history,
and drivers of ecosystem changes: achievements, limits and perspective
Conveners/Chairs: C. Gignot-Covex, L. Epp, I. Domaizon and I. Greve Alsos

- 11:00 **INVITED TALK** L. Parducci; E. Ahmed; M. Välranta; S. Salonen; L. Han; M. Winther Pedersen; T. Slotte; E. Willerslev; B. Wohlfarth
Shotgun ancient DNA analysis in Lateglacial lake sediments from Sweden
- 11:15 **INVITED TALK** N. Álvarez; S. Schmid; C. Sperisen; W. Tinner
Application of HyRAD-X (a method combining reduced representation of the exome and hybridization capture applied to ancient DNA) to time series of subfossil needles unravels the early Anthropocene history of the silver fir, *Abies alba*, in a population from the southern Alps
- 11:30 C. Clarke; M. Edwards; I. Alsos; J. Inge Svendsen; H. Hafliðason
Polar Urals Mountains: A surprisingly rich flora for the past 25,000 years
- 11:45 H.H. Zimmermann; L. S. Epp; K. R. Stoof-Leichsenring; U. Herzschuh
Sedimentary ancient DNA offers new insights into the vegetation history of western Beringia since the Eemian
- 12:00 M. Edwards; I. Alsos; N. Yoccoz; E. Coissac; M. Moora; T. Goslar; L. Gielly; J. Davison; J. Haile; C. Brochmann; M. Zobel; P. Taberlet
The interpretation of sedDNA records from soil samples: examples from Svalbard and Siberia
- 12:15 M. Muschick
Subfossils and ancient DNA shed light on the evolution of East African cichlid fishes
- 12:30 M. Van Hardenbroek; G. Cavers; A. Crone; K. Davies; T. Fonville; A. Henderson; P. Langdon; H. Mackay; F. McCormick; F. Ficetola; N. Whitehouse; T. Brown
Using sedaDNA alongside palaeoenvironmental proxies for understanding wetland archaeological sites
- 12:45 D. Huang; Y. Tuan Doreen Huang; J. Linderholm; A. van Woerkom; M. Brundin; H. Zhang; R. Zale; L. Dalén; J. Klaminder
Who came first to central Sweden, reindeers (*Rangifer tarangus*) or human hunters?: insights from ancient-DNA analyzes of lake sediments and archeological material

HOTEL ROMAREDA-ROOM2

Global dust deposition in past, present and future climates

Conveners: F. De Vleeschouwer, G. Winckler, N. Mahowald and F. Lambert; Chairs: F. De Vleeschouwer, F. Lambert

- 15:00 S. Pratte; F. De Vleeschouwer; M. Garneau
Late Holocene paleo-records of atmospheric dust deposition in eastern Canada
- 15:15 M. Kylander; A. Martinez-Cortizas; R. Bindler; S. Hansson; J. Kaal; N. Silva Sanchez; S. Greenwood; C. M. Mörth; S. Rauch
A high peat and carbon accumulation event driven by changes in dust mineralogy
- 15:50 C. Li; G. Le Roux; J. Sonke; N. Mattielli; N. Plotrowska; N. Van der Putten; C. Jeandel; F. De Vleeschouwer
Holocene dust composition in the Indian Ocean inferred from Amsterdam Island peat geochemistry
- 15:45 E. Resongles; B. Spiro; D. Large; P. Brickley; F. De Vleeschouwer; G. Le Roux; D. Weiss
Peat record of Holocene atmospheric dust deposition on the Falkland Islands
- 16:00 J. Mason; P. M. Jacobs; W. C. Johnson; X. Miao; L. Szymanski; E. Marin-Spiotta
Dust deposition and soil organic carbon storage at the landscape scale: Case study of Holocene loess, central Great Plains, USA
- 16:15 A. Panait; S. Mark Hutchinson; I. Tanțău; A. Cosmin Diaconu; A. Feurdean
Holocene aeolian fluxes from northern Romania: a multiproxy approach to reconstruct the deposition of aeolian particles and their control factors
- 16:30 S. Pichat; S. Kienast; M. Cornet; L. Missaen; O. Sulpis
Changes in fine detrital material sources in the Eastern Tropical Pacific during the last deglaciation
- 16:45 M. Ruppel; J. Svensson; J. Ström; E. Isaksson; A. Korhola
Is light-absorbing particulate deposition increasing the melt of Svalbard glaciers?

► Thursday 11th May 2017

ROOM 11 AUDITORIUM (BASEMENT)

Understanding past variations in atmospheric greenhouse gases to constrain future feedbacks in the Earth System

Conveners: T. Bauska, P. Hopcroft, B. Stocker and Z. Yu

- 11:00 **INVITED TALK J. Schmitt; M. Baumgartner; O. Eicher; B. Seth; J. Beck; F. Joos; H. Fischer**
Stable Isotope Changes of atmospheric N₂O during the last 150 kyrs: What the ice core record may tell us about terrestrial and marine N₂O emissions
- 11:15 **INVITED TALK L. Menviel**
Which mechanisms led to Heinrich 1 atmospheric CO₂ increase?
- 11:30 **J. Rae; A. Burke; L. Robinson; J. Adkins; T. Chen; C. Cole; E. Littley; D. Nita; B. Taylor**
Millennial to centennial evolution of the Southern Ocean CO₂ store
- 11:45 **F. Muschitiello; W.J. D'Andrea; T. M. Dokken; A. Schmittner**
Deglacial interactions between ocean circulation and the biological pump in the Nordic Seas: implications for future atmospheric CO₂ variability
- 12:00 **G. Knorr; J. Hasenclever; L. Rüpke; P. Köhler; J. Morgan; K. Garofalo; S. Barker; G. Lohmann; I. Hall**
Sea level fall during glaciation stabilized atmospheric CO₂ by enhanced volcanic degassing
- 12:15 **J. Menking; A. Buffen; S. Shackleton; T. Bauska; E. Brook; A. Schmittner; R. Rhodes; J. Severinghaus; M. Dyonisius; V. Petrenko**
Stable Isotopes of Carbon Reveal a Complex Trajectory for CO₂ Drawdown at Last Glacial Inception
- 12:30 **J. Beck; M. Bock; J. Schmitt; B. Seth; J.Chappellaz; H. Fischer**
Shift in the glacial interglacial methane budget from dual isotope records
- 12:45 **S. Eggleston; O. Cartapanis; S.L. Jaccard; E. D. Galbraith**
Global foraminifera $\delta^{13}C$ database to assess changes in the efficiency of the soft tissue pump on glacial-interglacial timescales

Working Group meeting: PAGES2k network
AUDITORIO: ROOM 6 | 13:00 - 15:00 H.

INQUA Palaeoclimate Commission
AUDITORIO: ROOM 11 | 17:00-19:00 H.



2K

- 121 H. Goosse
Reconstructed and simulated temperature asymmetry between continents in both hemispheres over the last centuries
- 122 M. Cisneros; I. Cacho; J. Frigola; M. Canals; A. Sánchez-Vidal; A. Moreno; H. Stoll; R.L. Edwards; H. Cheng; J.J. Fornós
The last 2.7 kyr in the central western Mediterranean: climate evolution from speleothems and marine sediments
- 123 F. Schwanck; J. Cardia Simões; M. Handley; P. Mayewski; J. Auger; R. Bernardo; F. Aquino
A 125-year record of climate and chemistry variability at the Pine Island Glacier ice divide, Antarctica
- 124 J. Pearl; K. Anchukaitis; N. Pederson; J. Donnelly; D. Bishop
Common Era climate reconstructions from the northeastern United States
- 125 Y. Ait Brahim; A. Sifeddine; M. Khodri; H. Cheng; F. W Cruz; L. Sha; N. Pérez-Zanon; J. A. Wassenburg; L. Bouchaou
Speleothem $\delta^{18}O$ record of multidecadal Atlantic oscillations during the last millennium in Morocco
- 126 R. Marchant; C. Courtney Mustaphil; V. Muiruri; S. Rucina; E. Githumbi; S. Richer; P. Lane; A. Shoemaker
Wetland transgressions and recent late Holocene vegetation and fire variability in the semi-arid Amboseli landscape, southern Kenya
- 127 G. Yu
Long-term aquatic ecosystem responding to climate change during the last 1000 years
- 128 H. Kawahata
Quantitative reconstruction of atmospheric temperature in Japan for the last 2000 years
- 129 S. A. G. Leroy; C. S. Miller
Late Holocene vegetation and ocean variability in the Gulf of Oman in the last 1900 years
- 130 E. Moreno-Chamorro; D. Zanchettin; K. Lohmann; J. Luterbacher; J. H. Jungclauss
Winter amplification of the European Little Ice Age cooling by the subpolar gyre
- 131 K. Allen; E. Cook; B. Buckley; R. Evans; K. Saunders; P. Baker
A high quality millennial-length summer temperature reconstruction for southeastern Australia
- 132 S. Goursaud; V. Masson-Delmotte; M. Werner
Assessing nudged atmospheric model performance using Antarctic ice core water stable isotope data for the period 1960-2015
- 85 K. Li; X. Liu; U. Herzschuh; Y. Wang
Rapid climate fluctuations over the past millennium: evidence from a lacustrine record of Basomtso Lake, southeastern Tibetan Plateau
- 86 R. Neukom; A. Schurer; G. Hegerl
The influence of proxy noise on hemispheric temperature reconstructions during the last Millennium
- 87 M. Alexandrin; A. Grachev; O. Solomina
Bottom sediments of the Lake Donguz-Orun (Central Caucasus) as a chronicle of the climate change in the region
- 88 G. De Cort; F. Mees; E. Ryken; C. Wolff; R. W. Renaut; M. Creutz; T. Van der Meer; G. Haug; D. O Olago; D. Verschuren
A 1,300-year moisture-balance reconstruction from the dry eastern rift valley of East Africa: the sediment record of hypersaline Lake Bogoria
- 89 R. Bruel; S. Girardclos; A. Marchetto; K. Kremer; C. Crouzet; J. L. Reyss; P. Sabatier; M. E. Perga
Did large lakes' ecology react to Medieval warming?
- 90 V. Valler; J. Franke; S. Brönnimann
Global climate field reconstruction from 1600 to 2000 based on multi-proxy data and the Ensemble Kalman Fitting approach
- 91 J. Jones; S. Gille; H. Goosse; N. Abram; P. Canziani; D. Charman; K. Clem; X. Crosta; C. de Lavergne; I. Eisenman; M. England; R. Fogt
Assessing recent trends in high-latitude Southern Hemisphere surface climate
- 92 J. Jungclauss
The PMIP4/CMIP6 Past1000 Simulations
- 93 F. Shi; K. Fang; C. Xu; Z. Guo; B. H. P.
Interannual to centennial variability of the South Asian summer monsoon in the past millennium
- 94 A. Agatova; R. Nepov
Climate changes over the last 2000 years recorded in various proxy archives in the SE Altai, mountains of Southern Siberia
- 95 G. Vallejo-Espinosa; J. Abella-Gutiérrez; J. C. Herguera
Variability of the surface stratification in the southern domain of the California Current System during the last 2 millennia
- 96 J. G. Franke; J. Werner; R. V. Donner
Reconstructing the leading mode of multi-decadal North Atlantic variability over the last two millennia using functional paleoclimate networks
- 97 B. Fallah; W. Acevedo; U. Cubasch
Palaeo Data Assimilation of Pseudo-Tree-Ring-Width Chronologies in a Climate Model
- 98 T. Opel; T. Laepple; H. Meyer; A. Dereviagin; S. Wetterich
Northeast Siberian ice wedges confirm Arctic winter warming over the past two millennia
- 99 J. Abella-Gutiérrez; J. C. Herguera
The Pacific Centennial Oscillation
- 109 T. Münch; T. Laepple
Estimating Antarctic climate variability of the last millennium
- 110 D. Barriopedro; N. Calvo; R. Garcia-Herrera; F. Jaume-Santero
PALEOSTRAT: PALEOmodelization from a STRATospheric perspective
- 111 K. M. Saunders; R. Neukom; C. Dätwyler; C. Butz; M. Grosjean; D. A. Hodgson
Westerly wind variability at sub-Antarctic Macquarie Island and its link to Southern Hemisphere wind and temperature
- 158 V. Margaryan
The problems of change climate conditions for the period of over the last century over mountainous territory of Armenian Republic

Thursday 11th May 2017

- 159 **J. Franke; M. Evans; G. Hegerl; S. Brönnimann**
Climate change detection and attribution using high resolution paleoclimate observations
- 160 **C. A. Melo Aguilar; J. F. Gonzalez Rouco; E. Garcia Bustamante; J. Navarro Montesinos**
Simulation and inversion of borehole temperature profiles in surrogate climates: last millennium LULC influence on SAT-GST coupling
- 161 **J. J. Gómez-Navarro; E. Zorita; C. Raible; R. Neukom**
Testing the analog method in reconstructing the global mean annual temperature during the Common Era
- 162 **M. Fuentes; R. Salo; J. Björklund; K. Seftigen; P. Zhang; B. Gunnarson; J. C. Aravena; H. W. Linderholm**
A 970 year-long summer temperature reconstruction from Rogen, west central Sweden, based on Blue Intensity from tree rings
- 163 **F. J. Cuesta Valero; A. García García; H. Beltrami; E. Zorita**
Long-term ground surface temperature from geothermal data in North America as a complement for GCM control simulations
- 164 **B. Ellis; N. Abram**
Indian Ocean Dipole variability from Indonesian corals during the Little Ice Age
- 165 **P. Freitas; C. Monteiro; P. Butler; C. Richardson; D. Reynolds; J. Scourse; M. Gaspar**
Productivity in the Iberian Upwelling System since the late 18th century using the annually-resolved sclerochronology of the bivalve *Glycymeris glycymeris*
- 166 **A. Moy; T. Van Ommen; J. McConnell; M. Curran; S. Phipps; V. Masson-Delmotte; A. Orsi; J. Roberts; D. Dahl-Jensen; T. Popp; A. Svensson; A. Landais**
Climate history at Aurora Basin North, East Antarctica: A 2,000 year isotopic record
- 167 **P. T. Spooner; D. J. R. Thornalley; P. Moffa-Sanchez; D. W. Oppo; I. Hall**
High resolution records of the Northeast Atlantic from the Late Holocene: Exceptional 20th century changes?
- 168 **K.-H. Lin; P.-K. Wang**
Climate variability during the last millennium from literature data and model
- 169 **A. García García; F. J. Cuesta-Valero; H. Beltrami; J. E. Smerdon**
Air and ground temperature coupling in the CMIP5 historical and future simulations
- 170 **A. García García; F. J. Cuesta-Valero; H. Beltrami; C. Mondéjar; J. Finnis**
Ground Heat Flux within the PMIP3/CMIP5 Last Millennium Simulations and Estimates from Geothermal Data
- 171 **H. Beltrami; G. S. Matharoo; J. E. Smerdon; L. Illanes; L. Tarasov**
Impacts of the Last Glacial Cycle on Ground Surface Temperature Reconstructions over the Last Millennium
- 172 **M. Gagen; E. Zorita; D. McCarroll; M. Zahn; G. Young; I. Robertson**
Internal variability in North Atlantic summer storm tracks over Europe over the past millennium.
- 173 **C. S. Allen; E. R. Thomas**
A new proxy for reconstructing past wind strength in the Amundsen-Bellingshausen Sea
- 174 **J. Estrella-Martínez; P. Butler; J. Scourse; B. Schöne**
Annually resolved water temperature over the northern North Sea for the past 500 years associated with Northern Hemisphere volcanism
- 175 **D. Álvarez; P. Pedreros; F. Torrejón; A. Araneda; R. Urrutia**
Temperature variability in lakes in different altitude in Central Chile during the last millennium.
- 176 **B. Jalali; M.-A. Sicre; V. Maselli; F. Lirer; N. Kallel; M.-A. Bassetti; S. Toucanne; S. Schmidt; F. Châles; L. Savignan; V. Klein**
Deltaic and coastal sediments as recorders of Mediterranean regional climate and human impact
- 177 **H. McGregor; S. Phipps; L. von Gunten; B. Martrat; H. Linderholm; N. Abram; O. Bothe; R. Neukom; S. St. George; M. Evans; D. Kaufman; H. Goosse**
The PAGES 2k Network, Phase 3: Introduction, Goals and Call for Participation
- 178 **A. Orsi; A. Landais; B. Stenni**
The last thousand years at Talos Dome, Antarctica
- 179 **S. Metcalfe; J. Homes; M. Burn; C. Lane; S. Horn**
Palaeolimnological records of climate change in the Central American Intra-Americas Seas region over the last 2000 years
- 180 **V. Flores-Agueveque; P. Arias; M. Rojas**
Southeast Pacific subtropical anticyclone and southerly winds variability over the Last Millennium and historical period from climate models and high-resolution proxy records
- 181 **M. Iglesias; J. Pisonero; H. Cheng; R. Lawrence Edwards; H. Stoll**
Study of the instrumental period using geochemical high-resolved data of a 600yr speleothem of the Northwest Iberian Peninsula
- 182 **C. Campa; I. Vadillo; A. Muñoz; J. Pisonero; H. Stoll**
A speleothem record of climate of the last millennium in Southeast Spain
- 183 **M. Bartolomé; C. Sancho; A. Moreno; Á. Belmonte; M. Leunda; A. Delgado-Huertas; B. Oliva-Urcia; I. Cacho; H. Stoll; R. L. Edwards; H. Cheng**
Is the climate signal adequately recorded in the $\delta^{18}O$ isotope composition from ice cave deposits? Climate variations during the Little Ice Age and the Industrial Era inferred from Pyrenean ice deposits and stalagmites
- 184 **H. Wu; D. Dissard; E. Douville; D. Blamart; L. Bordier; A. Dapoigny; F. Le Cornec; A. Tribollet; C. Lazareth**
320 years of sea surface pH and SST variability in the South Pacific inferred from *Diploastrea heliopora* coral proxy records
- 185 **I. Semenova; V. Ovcharuk**
Droughts of the last centenary period in Ukraine
- 186 **F. Bonitz; C. Andersson; T. Trofimova**
Molluscan sclerochronological-derived paleo proxy records and their potential to obtain a better

FLOOD

- 1 **J. P. Schirmelmann; H. Nguyễn-Vân; D. Nguyễn-Th.y; B. Zolitschka; T. Tạ-Vân; N. Nguyễn-nh; P. Tạ H.a; T. Đặng-Phuong; L. Van-Quyét; Q. Nhi Phạm-Nữ; V. Huynh-Kim**
Exploring the paleoenvironmental potential of laminated maar sediment in central Vietnam: An archive of regional paleo-flooding?
- 2 **G. Furdada Bellavista; A. Victoriano; A. Diez-Herrero; M. Génova; M. Guinau; G. Khazaradze; J. Calvet**
Multidisciplinary palaeoflood reconstruction using dendrogeomorphology and hydraulic modelling in Portainé (Eastern Pyrenees, Iberian Peninsula)

Thursday 11th May 2017

- 3 [B. Wilhelm](#); H. Vogel; F. S. Anselmetti
A multi-centennial record of past floods and earthquakes in Valle d'Aosta, Mediterranean Italian Alps
- 4 [G. Evin](#); B. Wilhelm; J.-P. Jenny; A.-C. Favre
Bayesian MCMC flood frequency analysis integrating paleoflood data
- 5 [G. Jouve](#); L. Vidal; R. Adallal; A. Benkaddour; C. Emmanuel; C. Thierry; D. Laurent; R. Ali; D. Doriane; R. Frauke; S. Corinne; T. Kazuyo
Recent hydrological variability of the Moroccan Middle-Atlas Mountains inferred from sedimentological and geochemical analyses of lake sediments
- 6 [F. Barreiro-Lostres](#); A. Moreno; P. González-Sampérez; G. Santiago; E. Nadal-Romero; B. Valero-Garcés
Quantifying sediment delivery during floods in Mediterranean mountain watersheds using lake sediment records (Iberian Range, Spain)
- 7 [M. Palat Rao](#); E. R. Cook; J. Palmer
Tree-ring reconstruction of Upper Indus Watershed Streamflow using Hierarchical Bayesian Regression
- 8 [F. Glòria](#); A. de las Heras; A. Díez-Herrero; L. Martins; J. A. Fernández-Yuste; A. Victoriao
The impact of land-use changes on palaeoflood and recent floods magnitude and frequency: Portainé (Eastern Pyrenees, Iberian Peninsula)
- 9 [M. J. Machado](#); A. Medialdea; M. T. Rico; Y. Sánchez-Moya; A. Sopena; G. Benito
Paleoflood hydrology and related environmental changes of a Mediterranean rambla (Castellón, ne Spain)
- 10 [D. García-Castellanos](#); J. E. O'Connor; J. M. Abril; R. Periañez
Numerical modeling of lake overtopping: the Bonneville flood
- 11 [E. Støren](#); I. Steffensen; S. Olaf Dahl
Holocene river floods in Glomma, southern Norway
- 12 [J. C. Peña](#); L. Schulte; A.e Badoux; B. Wilhelm; O. Wetter
Influences of the atmospheric variability and external forcing on flood frequencies in the Hasli-Aare (Bernese Alps, Switzerland) during the last 700 years
- 13 [C. Ventura](#); C. Lopes
On the application of freshwater diatoms from marine sediments as a proxy for monsoons
- 14 [S. Bertrand](#); E. Vandekerckhove; D. Liu; B. Reid; S. Pantoja; G. Casassa; F. Torrejón
Reconstructing the frequency of Glacial Lake Outburst Floods in Patagonia: Introducing the Paleo-GLOFs project
- 15 [J. C. Balasch](#); D. Pino; J. Valero; J. L. Ruiz-Bellet; M. Barriendos; J. Tuset; X. Castellort; J. Mazón
Non-stationarity in the evolution of major floods in the Ebro River (NE Iberian Peninsula)
- 24 [J. C. Balasch](#); J. L. Ruiz-Bellet; J. Tuset Tuset; R. Rodríguez; D. García; X. Castellort; M. Barriendos; D. Pino
Indirect estimation from paleoflood evidences of the liquid and solid loads of the November 2015 and 2016 flash floods in the Sió River (NE Iberian Peninsula)
- 23 [L. Guerra](#); M. A. Martini; E.o L. Piovano
A century of limnimetric shifts in central Argentina: floods, droughts and climate change linkages
- 22 [F. X. Castellort](#); J. C. Balasch; F. Colombo; J. Cirés; J. L. Ruiz-Bellet; J. Tuset; M. Barriendos; D. Pino; J. Mazón
Pleistocene sediments in the NE of Ebro Basin. An example of coarse deposits produced by flash floods
- 21 [D. Schillereff](#); R. Chiverrell; N. Macdonald; J. Hooke
Drivers and implications of a late-Holocene palaeoflood record from Brotherswater, northwest England

BIO

- 55 [H. Plumpton](#); F. Mayle; B. Whitney
Impact of mid-Holocene drought upon Bolivian seasonally-dry tropical forests
- 56 [S. Robles-López](#); S. Pérez-Díaz; F. Alba-Sánchez; A. Abel-Schaad; J. A. López-Sáez
Lost in transition. Deciphering forest evolution during the late Holocene in the Gredos range (central Spain).
- 57 [Y. Li](#); Y. Ge; J. Bunting; Z. Zhang; J. Li; C. Wang
Quantitative reconstruction of past vegetation in the forest-steppe ecotone of northern China: calibration and validation of a pollen-vegetation model
- 58 [A. Raiho](#); C. Paciorek; J. McLachlan; J. Williams
Assessing Holocene Forest Stability with a Bayesian Biomass Reconstruction
- 59 [S. Engels](#); Y. Axford; S. J. Brooks; T. P. Luoto; A. S. Medeiros; D. F. Porinchi; R. Quinlan
Chironomids as proxy-indicators of spatiotemporal changes in biodiversity
- 60 [N. Gerasimenko](#)
Spatio-temporal dynamics of vegetational communities in Late Pleistocene pollen records from Ukraine
- 61 [N. Limondin-Lozouet](#)
The exodus of snails: European roads of malacological expansion during the MIS 11 interglacial
- 62 [D. Magri](#); F. Di Rita; J. Aranbarri Erkiaga; W. Fletcher; P. González Sampérez
Asynchronous patterns of Quaternary disappearance of tree taxa from Southern Europe
- 63 [M. J. Bunting](#); B. Whitney
Palyinological visibility *establishing detection limits for pollen records of range change in different landscape systems in southern Amazonia
- 64 [S.a Nogué](#); L. de Nascimento; C. Criado; R. Whittaker; J. M. Fernández Palacios; K. Willis
A short history of human relationships with nature in the Canary Islands and Cape Verde
- 65 [A. Martel-Cea](#); G. Astorga; J. Massafarro; A. M. Abarzia
Climatic influence in the distribution of non-biting midges (Diptera: Chironomidae) in the Araucanian region, south-central Chile
- 66 [C. A. Góis-Marques](#); L. de Nascimento; M. Menezes de Sequeira; J. M. Fernández-Palacios; J. Madeira
Exploring the Quaternary palaeoecological potential of Portuguese Macaronesian archipelagos: examples from Madeira and Faial Islands
- 67 [N. Whitehouse](#); G. Milne; A. Cameron; P. Prodohl
Do refugial species have smaller climatic niches than migrating ones?
- 68 [H. Roe](#); A. Macumber; S. Prentice; C. Sayer; D. Emson
Understanding the links between functional traits and palaeoecological processes in lake Arcellinida (testate lobose amoebae): the "ECOTRAIT" Project

► Thursday 11th May 2017

- 69 S. Fontana; T. Giesecke
Processes and patterns of vegetation change during the Holocene at the forest-steppe ecotone in northern Patagonia, Argentina
- 70 I. Greve Alsos; P. Sjögren; L. Gjelly; A. Paus; M. E. Edwards; M. Leng; M. Forwick; M. K. Førleid Merkel; C. T. Langdon; J. Bakke; T. Alm; T. G. Brown
The LGM ice-free Andøya island - did local favourable condition combined with distinct long-distance dispersal routes cause non-analogue vegetation?
- 71 D. Faust; C. Richter; D. Wolf; C. Roettig
Some appear, some adapt, some die stratigraphy by means of quaternary guide assemblages of land snails.
- 72 L. Sewell
Antidorcas evolution and dietary adaptations in changing palaeoenvironments in southern Africa
- 73 D. Arnold; D. Schreve; S. Blockley
Developing the use of mammalian tooth crown height to quantify precipitation in the Late Pleistocene
- 74 A. Davies
Grazing the 'wet desert': a comparison of pollen and coprophilic fungal spores as grazing indicators in peatland ecosystems
- 75 J. Singarayer
Impacts of glacial-interglacial climate change on ecosystem structure in a global mechanistic ecosystem model
-
- GREEN**
- 143 A. Jeltsch-Thömmes; G. Battaglia; F. Joos
Glacial-Interglacial Variations in the Carboncycle
- 144 R. Rhodes; E. Brook; J. McConnell; T. Blunier; L. Sime; X. Fain; R. Mulvaney
Atmospheric methane variability: Multi-centennial scale signals in the Last Glacial Period
- 145 C. Nehrbaas-Ahles; J. Shin; L. Schmidey; J. Schmitt; B. Bereiter; G. Teste; J. Chappellaz; T. Stocker; H. Fischer
Millennial scale atmospheric CO₂ variability during Marine Isotope Stage (MIS) 9-11
- 146 C. Buizert; J. Severinghaus
Dispersion in deep polar firn driven by synoptic-scale surface pressure variability
- 147 M. Dyonisius; V. Petrenko; A. Smith; B. Hmiel; I. Vimont; Q. Hua; J. Menking; J. Beck; B. Seth; E. Brook; J. Severinghaus
Radioactive and Stable Paleoatmospheric Methane Isotopes across the Oldest Dryas-Bölling Transition from Taylor Glacier, Antarctica
- 148 L. Mächler; B. Bereiter; J. Schmitt; R. Walther; P. Scheidegger; B. Tuzson; L. Emmenegger; H. Fischer
Towards a novel continuous sublimation extraction/laser spectroscopy method to unlock the greenhouse gas record in deepest ice
- 149 M. van Hardenbroek; M. Wooller; P. Langdon; M. Edwards
High methane output from northern lakes during warm early Holocene
- 150 A. Buffen; J. Menking; E. Brook; T. J. Fudge; J. Fegyveresi; C. Buizert
A new Holocene $\delta^{15}\text{C-CO}_2$ record from the South Pole ice core
- 151 J. S. Edwards; E. J. Brook; J. E. Lee
Determining the imprint of Heinrich Stadials 4 and 5 on the latitudinal distribution of methane sources using the inter-polar methane difference from the WAIS Divide and GISP2 ice-cores
- 152 Y. Contreras-Pacheco; J. Herguera-Garcia; J. Quintanilla-Terminel
Atmospheric carbon invasion in the meridional border of California current: the last three decades
- 153 P. Köhler; C. Nehrbaas-Ahles; Jo. Schmitt; H. Fischer
Continuous records of the atmospheric greenhouse gases CO₂, CH₄, and N₂O and their radiative forcing since the penultimate glacial maximum
-
- GROUND**
- 142 M. Rani; P. Kumar; H. Joshi
Water resources and changing climate in Indian Himalayan Region
- 141 V. Margaryan
The challenges of rational use and protection of groundwater resources the arid region of Ararat Valley in the context of climate change
- 140 A. Stone; A. Smith
Records of precipitation variation in the southern Kalahari and assessment of the origin and fate of nitrate in the unsaturated zone of the Stampriet Basin.
- 139 J. Gurdak
Climate variability signals in groundwater from U.S. agroecosystems
- 138 P. Deschamps; B. Hamelin; J. Goncalves; C. Bouchez; F. Hadji Ammar; A. Mahamat Nour; J. Petersen; C. Poulin
Recharge and Paleorecharge of Saharan and Sahelian Aquifers: the 36Cl perspective
- 137 V. Raidla; W. Werner; T. Weissbach
Noble gases in the Cambrian-Vendian aquifer system in Estonia
-
- DUST**
- 76 C. An; Y. Zhao; J. Zhao
Dust records during 38-15 kyr BP in arid Central Asia and its connection with abrupt climate events in the Northern Hemisphere
- 77 G. Garcia-Castrillo; E. Terradellas; S. Basart
Dust deposition forecasts at the Barcelona Dust Forecast Center
- 78 J. Sjöström; M. Kylander; S. Hansson; R. Bindler
An 8.3ka paleo-dust deposition record from southern Sweden inferred from geochemical methods coupled with mineralogical identification by X-ray diffraction analysis
- 79 F. Lambert; A. Ridgwell; K. Kohfeld; G. Winckler; F. Lamy; G. Shaffer; N. Opazo
Spatial distribution and Timing of Dust-Induced CO₂ Drawdown during the Last Termination

Thursday 11th May 2017

- 80 D. Doronzo; M. de Tullio; A. Laraspata; A. Al-Dousari
3D numerical simulation of a dust storm past Downtown Dubai (United Arab Emirates, UAE)
- 81 A. Torfstein; N. Teutsch; O. Tirosh; Y. Shaked; T. Rivlin; A. Zipori; M. Stein; B. Lazar; T. Erel
A multi-annual time series of north Red Sea dust loads and their chemical composition: provenance, impact on marine biogeochemical cycles and implications for paleo-dust reconstructions
- 82 U. Merkel; N. Heavens; N. Mahowald; M. Schulz
On the sensitivity of the mineral dust cycle response to Marine Isotope Stage 3 conditions
- 83 T. Mochales; J. Cruz Larrasoña; J. Pey; N. Pérez; J. C. Cerro; M. L. Tobar; I. de la Parra; J. Reyes; M. P. Mata
Preliminary magnetic evaluation of air quality monitoring in north-east Spain (DONAIRE Project)
- 84 J. Pey; J. Cruz Larrasoña; N. Pérez; J. C. Cerro; T. Mochales; I. de la Parra; A. de Vergara; I. Vázquez; J. Reyes; E. Navarro; M. C. Sancho; M. P. Mata
The DONAIRE project "Atmospheric deposition in natural and anthropized environments over northeastern Spain; integrated geochemical and magnetic characterization": first results
-
- COMMON**
- 37 M. Carré; M. Azzoug; A. Camara; R. Cheddadi; A. Gaye; S. Janicot; M. Khodri; A. Lazar; C. Lazareth; J. Mignot; M. Wade
Sahel rainfall negatively linked to global temperature during the past 1600 years
- 38 U. Kuwar Thapa; S. St. George
Testing the potential of *Pinus roxburghii* and *P. wallichiana* in the dry interior of eastern Nepal as hydroclimatic proxies
- 39 P. Roldán; J. Fidel González-Rouco; C. Melo-Aguilar
Global changes during MCA and LIA: From temperature to hydroclimate
- 40 M. Bauch
Contextualizing drought in Medieval Italy: A case-study of the 1502-04 CE events in Siena
- 41 S. Hun Baek; J. Smerdon; S. Coats; A. Williams; B. Cook; E. Cook; R. Seager
Precipitation, temperature, and teleconnection signals across the combined North American, Monsoon Asia, and Old World Drought Atlases
- 42 A. Seimon; L. B. Perry
Storm-scale variations of water isotopes in the Tropical High Andes: Using observations and modeling to improve ice core paleoclimate reconstruction
- 43 V. Kuznetsova
Challenges in climatic reconstructions using tree-ring data in Volga region: streamflow and PDSI
- 44 K. Anchukaitis; W. Wright; M. Evans; D. Martin-Benito; M. Gagen; A. LeGrande; B. Buckley; E. Cook
Past Asian Monsoon circulation from tree-ring isotopes and proxy system models
- 45 C. Leland; E. Cook; L. Andreu-Hayles; N. Pederson; A. Hessl; K. Anchukaitis; B. Nachin; O. Byambasuren; N. Davi; R. D'Arrigo; M. Palat Rao
Strip-bark morphology and radial growth trends: Considerations for hydroclimatic reconstructions
- 46 O. Solomina; V. Matkovskiy; E. Dolgova; E. Cherenkova; V. Kuznetsova
Climatic signal in the new ring width chronology network in the East-European Plain
- 47 N. Steiger; J. Smerdon
Reconstructing the global atmosphere-ocean dynamics of hydroclimate extremes with data assimilation
- 48 L. Villacis; M. L. Carrevedo; M. Frugone-Álvarez; B. Valero-Garces; M. Fuentealba; C. Latorre
A high resolution record of diatom variability (Lake Vichuquén, central Chile) during the last millennium
- 29 M. Erb; J. Emile-Geay; G. Hakim; R. Tardif; K. Horlick; W. Perkins; D. Noone; E. Steig; D. Anderson
Climate and drought over the past 1000 years in the Last Millennium Reanalysis
-
- DNA**
- 25 B. Shanmuganathan; S. P. Thomas; S. Krishnan; K. Goswami; M. Dev; M. Sundararajan; M. Kumar Jaiswal; A. Kumaresan; S. Kumar Sadasivam
Paleoenvironmental DNA of bacteria as biological proxies for sea level reconstruction
- 26 L. Heinecke; L. S. Epp; K. Stooft-Leichenring; S. Mischke; U. Herzschuh
Modern and ancient sedimentary DNA from Lake Karakul, Pamir Mountains – investigating aquatic and terrestrial taxa
- 27 S. De Schepper; H. Sadatzki; J. L. Ray; K. Sandnes Skaar; J. Stromsøe; C. Troedsson
Exploring ancient DNA as a sea ice proxy
- 36 A. C. Zúñiga Gonzalez; C. Gonzalez Arango; L. M. Gutiérrez Cala; C. Montes Rodríguez; F. Guhl Nannetti
Ancient DNA from subfossil wood in the Tropical Andes of Colombia
- 35 W. Chen; M. Bajard; F. Arnaud; J. Poulencard; P. Sabatier; L. Gielly; P. Taberlet; G. Francesco Ficetola
Long term plant community changes in two lake catchments in the Western Alps: a study based on lake sediment DNA
- 34 K. Stooft-Leichenring; K. Dulias; L. Pestryakova; U. Herzschuh
Abundance-based and phylogenetic diatom diversity obtained from recent and ancient sedimentary DNA of Arctic treeline lakes
- 33 L. Saskia Epp; B. Niemeyer; H. Zimmermann; Y. Garcin; K. Stooft-Leichenring; L. Pestryakova; U. Herzschuh
Sedimentary ancient DNA in paleoecology across climate zones
- 32 J. Klaminder
Origin of the first Scots pine (*Pinus sylvestris*) trees in north central Sweden: insights from aDNA analyses

Friday 12th May 2017

	<i>Mozart Room</i>	<i>Luis Galve Room</i>	<i>Mariano Gracia Room</i>	<i>Hotel Romareda Room 1</i>	<i>Hotel Romareda Room 2</i>	<i>Room 11 (Auditorium)</i>
11:00 - 13:00	Regional and transregional climate variability over the last 2000 years	Abrupt climate change: Challenges for Earth system understanding	Climate of Quaternary Interglacials from observations and model simulations	Disturbance dynamics across spatial and temporal scales: fire, wind, pathogens and post-disturbance run off as drivers of environmental change	Human impact on global aquatic systems	
15:00 - 17:00	Regional and transregional climate variability over the last 2000 years	1st hour: Abrupt climate change: Challenges for Earth system understanding 2nd hour: The Holocene – its climate variability and rapid transitions	Climate of Quaternary Interglacials from observations and model simulations	Disturbance dynamics across spatial and temporal scales: fire, wind, pathogens and post-disturbance run off as drivers of environmental change	Open Session on past global changes	

MOZART ROOM

Regional and transregional climate variability over the last 2000 years

Conveners: H. Goosse and N. Abram; Chairs: B. Martrat, S. J. Phipps, H. McGregor

- 11:00 | **K. Anchukaitis**; R. Wilson; J. Tierney; A. LeGrande; NTREND Consortium; PAGES2k Oceans2k HR
Common Era temperature reconstructions and the response of the climate system to explosive volcanic eruptions
- 11:15 | **S. Stevenson**; K. Cobb; B. Powell; M. Merrifield; J. Nusbaumer
Constraining El Nino Properties Throughout the Last Millennium Using Improved Forward Models
- 11:50 | **C. Dätwyler**; R. Neukom; M. Grosjean; R. Villalba; A. Gallant; M. Jacques-Coper; D.Karoly
Instabilities of the SAM teleconnection and implications for SAM reconstructions over the past Millennium
- 11:45 | **B. Dixon**; J. Tyler; B. Henley; A. Lorrey; I.Goodwin; J. Gergis; R. Drysdale
A multi-archive, multi-tiered reconstruction of southeastern Australian hydroclimate variability over the past 1200 years
- 12:00 | **V. Novello**; F. Cruz; M. Vuille; H. Cheng; R. Lawrence Edwards; I. Karmann
South American Monsoon System over the last 2000 years recorded in stalagmites from central South America
- 12:15 | **N. Scroxtton**; S. J. Burns; D. McGee; B. Hardt; L. R. Godfrey; L. Ranivoharimanana; P. Faina
Hemispherically in-phase precipitation variability over the last 1700 years using stalagmites from Madagascar
- 12:45 | **K. Elaine Lin**; P. K. Wang; Y. Liao; S. Lee; H. Liao; P. Pai; I. Fan
Temporal-spatial climate variations during 17th-19th centuries using Chinese chronological records

► Friday 12th May 2017

- 15:00 **D. Kaufman**; C. Routson; N. McKay; H. Beltrami; F. Jaume-Santero; B. Konecky; C. Saenger; B. Shuman
Arctic temperature and moisture trends during the past 2000 years -Progress from multiproxy-paleoclimate data compilations
- 15:15 **R. Rhodes**; X. Yang; E. Wolff; J. McConnell
Sea ice as a source of sea salt aerosol to Greenland ice cores: a model-based study
- 15:30 **N. Gerasimenko**
The 2000-year history of climatic change in the steppe of Ukraine, based on a high-resolution study of the varves of Lake Saki
- 15:45 **B. Martrat**; MedOC2k team, 2k Consortium, phase 3
Land-ocean pre- and post-industrial climate variability in the Europe/Mediterranean paleo-archive: unique, similar or unlike the global context
- 16:00 **S. P. Harrison**; G. Li; I. C. Prentice
Tree growth and productivity during the Last Millenium: a forward modelling approach for data-model comparisons
- 16:15 **J. Jungclaus**; R. Ghosh; R. Hand; W. Mueller; S. Wagner
Modulation of summer climate variability over Europe during the Common Era
- 16:30 **D. Thornalley**; D. Oppo; J. Robson; P. Ortega; P. Moffa-Sanchez; I. Hall; L. Keigwin; N. Rose
A shift to a modern weaker state of Labrador Sea convection and AMOC at the onset of Industrial Era
- 16:45 **S. Rahmstorf**; L. Caesar; F. Georg
AMOC history: subpolar Atlantic cooling linked to warming off the US coast



LUIS GALVE ROOM

Abrupt climate change: challenges for Earth System understanding

Conveners: G. Lohman, R. Ivanovic, L. Gregoire, G. Knorr, S. Barker and A. Burke Chairs: R. Ivanovic, L. Gregoire, A. Burke

- 11:00 **H. Fischer**; and the NEM aerosol consortium
Response of northern hemisphere environmental and atmospheric conditions to (rapid) climate changes using Greenland aerosol records from the Eemian to the Holocene
- 11:15 **P. Hopcroft**; **P. Valdes**
Dust as a tracer of, and feedback on glacial abrupt climate change
- 11:30 **R. Greenop**; **A. Burke**; **J. Rae**; **D. Nita**; **P. Reimer**; **A. Crocker**; **T. Chalk**; **S. Barker**; **P. Knutz**; **I. Hall**
Improving estimates of surface water radiocarbon reservoir ages in the northeastern Atlantic Ocean.
- 11:45 **W. Gray**; **J. Rae**; **A. Shevenell**; **R. Wills**; **G. Foster**; **C. Lear**; **B. Taylor**; **M. Sarthien**
Circulation control on primary productivity and CO₂ in the subarctic Pacific over the last deglaciation: evidence from boron isotopes in planktonic foraminifera
- 12:00 **A. Barth**; **P. Clark**; **J. Clark**; **S. Marcott**; **M. McCabe**; **J. Cuzzone**; **P. Dunlop**; **M. Caffee**
Persistent millennial-scale cirque-glacier fluctuations in Ireland between 24,000 and 10,000 years ago
- 12:15 **R. Wang**; **H. Kuehn**; **R. Gersonde**; **B.K. Biskaborn**; **G. Kuhn**; **B. Diekmann**
Provenance and dispersal of terrigenous sediments in the Bering Sea slope: Implications for late glacial land-ocean linkages
- 12:30 **U. Mikolajewicz**; **F. Ziemien**; **M. Kapsch**; **V. Meccia**
Simulating the last glacial-interglacial transition with a coupled atmosphere-ocean-ice sheet model
- 12:45 **A. Condrón**; **J. Hill**
Low latitude iceberg scours record massive deglacial outburst floods

"Lunch time (Multiusos room/Lunch Area)"

- 15:00 **A.J. Joyce**; **A. Condrón**; **R. Bradley**
Arctic sea ice export events as a driver of past abrupt climate change
- 15:15 **I. García-moreiras**; **N. Martínez-Carreño**; **S. García-Gil**; **C. Muñoz Sobrino**
Impact of abrupt climate changes on the coastal ecosystems of the Rías Baixas (NW Iberia) during the Lateglacial/early Holocene transition
- 15:30 **G. Florescu**; **S. Veski**; **A. Feurdean**
Holocene rapid climate changes reflected in NE and CE European charcoal records
- 15:45 **G. Ramstein**; **D. Defrance**; **S. Charbit**; **M. Vrac**; **M. Adjoua Famién**; **B. Sultan**; **D. Swingedouw**; **C. Dumas**; **F. Gemenne**; **J. Álvarez Solas**; **J.P. Vanderlinden**; **C. Caminade**
Population and Health vulnerability

LUIS GALVE ROOM

The Holocene – its climate variability and rapid transitions

Conveners: R. S. Bradley and H. Wanner; Chairs: R. S. Bradley; H. Wanner

- 16:00 INVITED TALK **S. Marcott**; **J. Marsicek**; **C. Rouston**; **J. Shakun**; **D. Kaufman**; **N. Mckay**
Holocene Climate Change: A Data Perspective
- 16:15 **G. Lohmann**; **M. Ionita**; **P. Scholz**; **X. Shi**; **M. Pfeiffer**
Holocene climate variability and trends: data and models
- 16:30 **E. Georgiadis**; **N. El Bañi Altuna**; **J. Giraudeau**; **G. Massé**; **F. Eynaud**; **S. Zaragosi**; **G. St-Onge**; **P. Martínez**
The post-glacial opening of Nares Strait, NW Greenland: new details on ice-sheet and sea ice dynamics.
- 16:45 **B. Lecavalier**; **D. Fisher**; **G. Milne**; **B. Vinther**; **L. Tarasov**; **P. Huybrechts**; **D. Lacelle**; **B. Main**; **J. Zheng**; **J. Bourgeois**; **A. Dyke**
A Holocene temperature record from the Agassiz ice cap: Implications for high-Arctic climate change and Greenland ice sheet evolution

MARIANO GRACIA ROOM

Climate of Quaternary Interglacials from observations and model simulations

Conveners: A. Govin, E. Capron, N. Bouttes and M. F. Sanchez Goñi

Chairs: E. Capron, M. F. Sanchez Goñi, A. Govin, M. Holloway

- 11:00 | **INVITED TALK M. Crucifix; Q. Yin; A. Berger**
Astronomical and CO₂ controls on the interglacial climates of the last 800,000 years
- 11:15 | **M. Haeberli; D. Baggenstos; T. Kellerhals; J. Schmitt; H. Fischer; S. Shackleton; J. Severinghaus**
Reconstruction of Eemian mean ocean temperature using ice core noble gas thermometry
- 11:30 | **M. Holloway; L. Sime; J. Singarayer; J. Tindall; P. Bunch; P. Valdes**
Antarctic Last Interglacial Isotope Peak in Response to Sea Ice Retreat not Ice Sheet Collapse
- 11:45 | **N. Barlow; E. McClymont; P. Whitehouse; C. Stokes; S. Jamieson; M. Bentley; L. Callard; D. Evans; J. Horrocks; J. Lloyd; A. Long; M. Margold**
Can ice sheets regrow during an interglacial?
- 12:00 | **I. Tabone; A. Robinson; J. Álvarez-Solas; M. Montoya**
Sensitivity of the Greenland Ice Sheet to oceanic changes in the last 150 kyrs
- 12:15 | **M. Luetscher; G. E. Moseley; F. Hof; C. Spötl; R. Lawrence Edwards**
A high-resolution speleothem record of the last interglacial (MIS-5e) in the Northern Alps
- 12:30 | **J. Dabkowski; N. Llimodin-Lozouet; P. Antoine; J. Andrews**
Comparing climatic variabilities and intensities of Quaternary Interglacials using stable isotopes in NW European calcareous tufa deposits from MIS11, MIS5 and the Holocene
- 12:45 | **C. Breant; A. Landais; P. Martinerie; A. Orsi; N. Caillon; J. Severinghaus**
Climate dynamic of Terminations 2 and 3 in East Antarctica as inferred from the combination of water and air isotopes in Dome C and Vostok ice cores

"Lunch time (Multiusos room/Lunch Area)"

- 15:00 | **T. Felis; W. M. Brocas; J. Christina Obert; P. Gierz; G. Lohmann; D. Scholz; M. Kölling; M. Pfeiffer; S. R. Scheffers**
Last interglacial temperature seasonality reconstructed from tropical Atlantic corals
- 15:15 | **K. Delong; G. Ouellette; N. Goodkin; E. Martin; D. Rosenthal; F. Taylor; C. Shen**
Last Interglacial Decadal to Seasonal Temperature Variability in the Tropical Atlantic Warm Pool: Comparison of Model and Coral-Based Reconstructions
- 15:30 | **A. Torfstein; A. Hartman; A. Almogi-Labin**
A meridional shift of the tropical rain belt across the Red Sea during MIS5e
- 15:45 | **Y. Kiro; S. Goldstein; Y. Kushnir; B. Lazar; M. Stein**
The significance of orbital forcing in Eastern Mediterranean climate during the last interglacial
- 16:00 | **J. M. Link; P. Blaser; J. Lippold; M. Gutjahr; A. H. Osborne; E. Böhm; M. Frank; O. Friedrich; N. Frank**
The Atlantic Deep Circulation During Interglacial MIS 11
- 16:15 | **D. Mcgee; N. Biller; J. Shakun; B. Hardt; C. Gambino; D. Ford; B. Lauriol**
Pleistocene Permafrost Thawing History of the North American Arctic Cordillera from U-Th and U-Pb Dating of Cave Speleothems
- 16:30 | **C. Morales Del Molino; T. Rodrigues; S. Desprat; G. M. Martín-García; F. J. Sierro; D. A. Hodell; M. F. Sánchez Goñi**
Unravelling western Mediterranean vegetation and climate during a past interglacial with reduced Arctic sea ice cover (MIS 15)
- 16:45 | **D. Oliveira; M. F. Sánchez Goñi; F. Naughton; J. M. Polanco-Martínez; F. J. Jimenez-Espejo; J. O. Grimalt; B. Martrat; A. H.L. Voelker; R. Trigo; D. Hodell; F. Abrantes; S. Desprat**
Unexpected weak seasonal climate in the western Mediterranean region in response to MIS 31, a high-insolation forced interglacial

► Friday 12th May 2017

HOTEL ROMAREDA-ROOM 1

Disturbance dynamics across spatial and temporal scales: fire, wind, pathogens and post-disturbance run off as drivers of environmental changes

Conveners: G. Gil-Romera, J. Clear, D. Colombaroli, R. Chiverrell,
A. Feurdean and J. Morris

- 11:00 **B. V. Vanniere**; the GPWG
The Global Paleofire Working Group (GPWG2) & Global Charcoal Database (GCD)
- 11:15 **L. Dupont**; **E. Schefuß**
Fire in northern West Africa during the Holocene
- 11:30 **G. Van Der Plas**; **D. Colombaroli**; **D. Verschuren**
Determinants of savanna ecosystem dynamics in the Kenya Rift Valley
- 11:45 **T. Brücher**; **A. L. Laniau**; **G. Lasslop**
Fire dynamics over the last glacial cycle in South Africa
- 12:00 **H. Cadd**; **M.-Shawn Fletcher**; **H. Hendrik** ; **P. Gadd**
Fire in Tasmania's endemic rainforests; recovery governed by frequency and topography
- 12:15 **K. Hapsari**; **S. Biagioni**; **T. Jennerjahn**; **P. Reimer**; **A. Saad**; **S. Sabiham**; **H. Behling**
Human disturbance and resilience of a tropical peatland in Sumatra, Indonesia
- 12:30 **J. Kaplan**
Fire and land cover change during the Maori colonization of New Zealand: Hypothesis testing with model simulations and charcoal data
- 12:45 **B. Leys**; **P. Higuera**; **K. McLauchlan**; **P. Dunnette**
Wildfires and geochemical change in a subalpine forest over the past six millennia

"Lunch time (Multiusos room/Lunch Area)"

- 15:00 **A.N. Dabengwa**; **J. MacPherson**; **L. Gillson**; **T. Hoffman**
Between- and within-biome resilience at the fynbos-forest boundary, south africa
- 15:15 **N. Kuosmanen**; **J. Clear**; **V. Čada**; **N. Schafstall**; **R. Chiverrell**; **V. Carter**; **P. Kune**
Disturbance dynamics in montane spruce forests in Central Europe: an integration of dendrochronological and palaeoecological records
- 15:30 **P. Kune**; **V. Abraham**; **T. Herben**
Post-glacial disturbance dynamics in temperate ecosystems revealed from pollen records
- 15:45 **E. Dietze**; **M. Slowiński**; **E. C. Hopmans**; **L. T. Schreuder**; **M. Obremska**; **A. Pieczewska**; **O. Blarquez** ;
F. Ott; **D. Brykala**; **S. Schouten**; **A. Brauer**
Local accidental fires during the industrialization of northern Poland revealed by fire biomarkers in varved lake sediments
- 16:00 **K. Marcisz**; **D. Colombaroli**; **V. E. J. Jassey**; **W. Tinner**; **P. Kolaczek**; **M. Galka**; **M. Karpinska-Kolaczek**; **M. Slowinski**; **M. Lamentowicz**
Tiny but powerful - the use of functional traits of testate amoebae as disturbance indicators in palaeoecological studies of peatlands
- 16:15 **C. Molinari**; **V. Lehsten**; **O. Blarquez**; **J. Clear**; **C. Carcaillet**; **R. H.W. Bradshaw**
Boreal forests fires: climate / vegetation / human interactions during the Holocene
- 16:30 **G. Sangüesa-barreda**; **J. Julio Camarero**; **U. Büntgen**
Long-term growth and establishment dynamics of high elevation Pyrenean forests
- 16:45 **I. Jouffroy-bapicot**; **B. Vannière**; **T. Pedrotta**; **V. Iglesias**; **M. Debret**; **P. Sabatier**
Socio-ecological trajectories and tipping-points in the making of the Cretan landscape (Greece) from Neolithic to Present day

HOTEL ROMAREDA-ROOM2

Human Impact on Global Aquatic Systems

Conveners: N. Dubois, P. Gell and K. Mills

Session sponsored by REPLIM project

- 11:00 **R. Bindler**; C. Meyer-Jacob; S. Ninnes; J. Tolu; E. Myrstener; J. Rydberg
Cultural transformation of the Swedish boreal forest over two millennia and its impact on lake-water quality
- 11:15 **P. Francus**; J. P. Jenny; A. Normandeau; Z. Ecaterina Taranu; I. Gregory-Eaves; F. Lapointe; J. Jautzy; A. E. K. Ojala; J. M. Dorioz; M. E. Perga; A. Schimmelmann; B. Zolitschka
Timing and causes of the spread of lacustrine hypoxia revealed by varved sediments
- 11:30 **M.P. Mata**; M. Morellón; J. Vegas; J. Sánchez España; A. Moreno; J. A. Rodríguez-García; A. Navas; Á. Salazar; J. Pey; B. Valero-Garcés
The Sediment Record of human activities in Lake Enol (Picos de Europa National Park, Northern Spain)
- 11:45 **M.E. Monchamp**; P. Spaak; I. Domaizon; N. Dubois; F. Pomati
Impact of eutrophication and climate change on cyanobacterial diversity across European pre-alpine lakes over 150 years
- 12:00 **G. De Mendoza**; L. Millet; D. Rius; A. Simonneau; G. Ollivier; M. Philippe; D. Galop
Combining subfossil Chironomidae and Cladocera remains to evaluate the effect of fish introductions on palaeolimnological records in mountain lakes
- 12:15 **R. Bruel**; A. Marchetto; A. Bernard; A. Lami; P. Sabatier; V. Frossard; M. E. Perga
Operational assessment of regime shifts: application to the long-term ecological trajectory of a hollow lake under multiple forcings
- 12:30 **S. Engels**; C. Briddon; S. Chenery; C. JB Gowing; M. J Leng; S. McGowan; K. Mills; I. Mushrifah; V. N. Panizzo; M. Shafiq; C. Vane; H. Yang
Ecosystem responses to anthropogenic changes in a tropical flood pulse wetland, Tasik Chini (Malaysia)
- 12:45 **C. Twesigye**
An Integrated Habitat and Land Cover Change Approach for the Lake Victoria Watershed in Eastern Africa

HOTEL ROMAREDA-ROOM2

Open Session on past global changes

Conveners: L. von Gunten, M.-F. Loutre, H. Fischer and S. Fritz

Chairs: H. Fischer and S. Fritz

- 15:00 **D. Baggenstos**; M. Haeberli; T. Kellerhals; J. Schmitt; H. Fischer
Mean ocean temperature evolution in the past 40,000 years from ice core noble gas thermometry
- 15:15 **O. Bothe**
Testing the analog method for reconstructing climate over the last 15000 years
- 15:30 **R. D'agostino**; O. Adam; P. Lionello; T. Schneider
Hadley Circulation extent and width in a wide range of simulated climates
- 15:45 **P. Bakker**; M. Prange; I. Rogozhina; M. Kucera; A. Paul; M. Schulz; J. Seguinot
British-Irish ice sheet sustained by weaker Atlantic Meridional Overturning Circulation
- 16:00 **E. Ellis**
Anthroecology and Anthromes: Theoretical and Practical Tools for the Study of Anthropogenic Global Change
- 16:15 **M. Cárdenas**; F. E. Mayle; J. Iriarte; J. Gregorio de Souza; P. Ulguim; M. Robinson; R. Corteletti; P. DeBlasis
Past vegetation changes in the context of land use and late Holocene expansion of the Jê pre-Columbian culture in Southern Brazil
- 16:30 **T. Shanahan**; N. McKay
Hydroclimate forcing of deglacial landscape and ecosystem changes in the American southwest
- 16:45 **K. Rehfeld**; T. Münch; S. Ling Ho; L. Thomas
A global perspective on the change in climate variability from the Last Glacial Maximum to the Holocene

Working Group meeting:
Global Palaeofire working group
AUDITORIO: ROOM 6
13:00 - 15:00 H.

Humans and Biosphere INQUA
Commission Meeting
AUDITORIO: ROOM 11
17:00-19:00 H.

► POSTER SESSION 17:00 – 19:00 ◀
HIPOSTILA ROOM

OPEN

- 73 **K. Ashastina**; F. Kienast; L. Schirrmeister; S. Kuzmina; N. Rudaya
The Batagay mega thaw slump reveals the Late Pleistocene history of inland West Beringia
- 74 **Z. Liu**; J. Guan; X. Wen; E. Brady; D. Noone; J. Zhu; J. Han
Understanding the temporal slope of the temperature-water isotope relation: The slope equation
- 75 **E. Dassié**; A. Hasson; M. Khodri; B. Linsley
Spatio-temporal variability of the SP CZ fresh pool eastern front from coral-derived surface salinity data
- 76 **V. Rull**; M. C. Trapote; E. Safont; N. Cañellas-Boltà; N. Pérez-Zanón; J. Sigró; T. Buchaca; T. Vegas-Villarrúbia
Seasonal patterns of pollen sedimentation in a Pyrenean varved lake (Montcortès): applications to high-resolution paleoecology
- 77 **E. Zorita**; E. Wahl; J. Gómez-Navarro; C. Raible
The analog method as a proxy-data assimilation technique: comparison with off-line Bayesian methods
- 78 **N. Anisimov**
paleolakes reconstruction in the southeastern Scandinavian ice sheet edge
- 79 **Y. Bai**; J. Chen; M.-A. Sicre; H. Jin; H. Li; Z. Ji; Y. Zhuang; V. Klein; M. Zhao
Seasonal variability of biomarker flux in the Chukchi Sea (Western Arctic) and their relevance for sea-ice cover reconstruction
- 80 **K. Helmens**; C. Katrantsiotis; S. Engels; N. Kuosmanen; T. Luoto; S. Salonen; M. Välranta; J. Weckström
Warm summers and rich biotic communities during n-hemisphere deglaciation
- 81 **K. Küssner**; M. Sarnthein; R. Tiedemann; F. Lamy; S. Balmer
Distortion of radiocarbon-based age records by *Zoophycos* burrows
- 82 **R. S. Avery**; C. Xuan; A. E. S. Kemp; J. M. Bull; C. J. Cotterill; J. J. Fielding; R. B. Pearce; I. W. Croudace
A new Holocene record of geomagnetic secular variation from Windermere, UK, and a new northern North Atlantic geomagnetic reference curve
- 83 **E. Brown**; M. Caballero-Miranda; P. Fawcett; S. Lozano-García; B. Ortega-Guerrero; A. Schwalb; V. Smith; M. Stockhecke; B. Valero-Garcés; S. Watt; J. Werne; M. Science Team
MexiDrill, the Basin of Mexico Drilling Project: Exploring a lacustrine record of climate, volcanism and environmental change in subtropical North America since the mid-Pleistocene
- 84 **S. Chua**; A. Switzer
A high-resolution geological model for central Sundaland: Quaternary Stratigraphy of the Kallang River Basin, Singapore
- 85 **B. Birner**; C. Buizert; J. Severinghaus
The influence of high-density layering on firn air transport in a 2D model
- 86 **M. de la Fuente**; L. Skinner; A. Sadekov; E. Freeman; A. Scrivner; S. Souanef-Ureta
Biogeochemical fingerprints of marine carbon pump variability in the glacial ocean
- 87 **A. Mehl**; F. Lorenzo; M. Zárate
The Atuel river basin, central-west Argentina: a present-day anthropically modified system
- 88 **P. Köhler**
Using the Suess effect on the stable carbon isotope to distinguish the future from the past in radiocarbon
- 89 **M. Heikkilä**; S. Ribeiro; A. Limoges; M. Sejř; K. Weckstrom; G. Massé
Tracers of sea ice, primary production and terrigenous inputs: distribution of biogenic proxies in a High Arctic fjord system, Northeast Greenland
- 90 **C. Mayr**; V. Bachtadse; B. Brandlmeier; V. Diersche; S. Eckert; L. Hedenäs; U. Kirscher; B. Lempe; R. Matzke-Karasz; P. Reimer; C. Spöti; P. Stojakowits et alii
Climate and environment in the northern Alps during the last glacial - first results from the Nesselstalgraben paleolake in southeastern Germany
- 91 **S. Pla-Rabes**; J. Catalan
A long-term progressive accumulation of benthic and planktonic diversity in a mountain lake recurrently peaks during the Holocene cold spells
- 92 **A. Dolman**; T. Laepple
Quantifying uncertainty in sediment-archived climate proxies over decadal to millennial timescales using proxy system modelling.
- 93 **L. Comas-Bru**; M. Deininger; S. Harrison; M. Bar-Matthews
SISAL: A community-driven initiative to create a global database of speleothem data for model evaluation
- 94 **T. Kunz**; T. Laepple
On the relation between local and global variability - a key issue for proxy record interpretation
- 95 **K. Zhang**; G. Kattel; X. Yang; R. Wang; X. Dong
Why Resilience and Transformation Centre in China?
- 96 **M. Jahadi Toroghi**
The Study of Glacio-paleoflood slack water deposits and landforms in Shehazar River, Iran
- 97 **F. Muthreich**
New technical and methodological development in past global changes

Friday 12th May 2017

- 98 I. Hernández-Almeida; G. Cortese; M. Chen; P.-S. Yu; M. Kucera
A new Western Pacific radiolarian-based transfer function for reconstructing winter sea surface temperatures in East Asian marginal seas
- 99 R. Wilson; R. D'Arrigo; L. Andreu Hayles; R. Oelkers; G. Wiles; K. Anchukaitis; N. Davi
Blue Intensity based experiments for reconstructing North Pacific temperatures along the Gulf of Alaska
- 100 L. Motta; J. Massafiero; A. Ruggiero
Importance of site-specific variables other than temperature in shaping chironomid composition and distribution: implications for climate and environmental reconstructions.
- 101 M. Aguayo Arias; R. Lobos Saez; A. Aranda Castillo; A. Stehr Gesche; F. Torrejón Godoy
Linking Climate Change and Altitudinal Variation of the Andean Vegetation during the last three decades in South-Central Chile.
- 102 P. Braconnot; M. Kageyama; S. Harrison; A. Haywood; J. Jungclauss; B. Otto-Bliessner; J.-Y. Peterschmitt;
PMIP-Contributing Participants
The PMIP4 contribution to CMIP6
- 106 E. Russo; U. Cubasch
Added Value of an RCM for Paleoclimate Studies
- 107 C. Sancho; C. Arenas; J. L. Peña; G. Benito; M. Calle; G. Pardo; M. Bartolomé; E. McDonald; E. Rhodes; M. Duval; J. E. Ortiz; J. Hellstrom
Climatic implications of Quaternary fluvial records correlated through NE Iberian Peninsula
- 108 M. Kageyama; P. Braconnot; S. P. Harrison; O. Marti; P. O. Hopcroft; W. R. Peltier; L. Tarasov
The PMIP4 Last Glacial Maximum experiments
- 109 P. Kumar; M. Rani
Monitoring of Ice Sheet Dynamics Change and their Assessment using LANDSAT and Sentinel-2 Sensors Time Series Data
- 110 I. Carmi; J. Kronfeld
Paleo-hydrologic interpretation of a Late Pleistocene/Holocene ssdiment-core archive in Nizzanim, Israel
- 111 C. Barr; J. Tibby; M. Leng; A. Henderson; J. Overpeck; J. Cole; S. Phipps; J. Tyler; J. Marshall; G. McGregor; Q. Hua
A 7500 year history of El Niño-Southern Oscillation variability derived from a quantitative Australian precipitation record
- 112 E. Dolgova; O. Solomina
Climatic signal inferred from multiple tree-ring parameters of Scots Pine (*Pinus sylvestris* L.) in the central sector of Russian Plain.
- 113 A. Medialdea; M. Bartolomé; C. Sancho; M. Calle; G. Benito; M. Leunda; A. Moreno; R. Lawrence Edwards; H. Cheng
Geomorphological significance of fluvial deposits in the Granite Cave (Bujaruelo Valley, Central Pyrenees)
- 114 S. Pandey; B. W. Scharf
Holocene evolution of mangrove vegetation in relation to palaeoclimate and sea level changes at the Chilka Lagoon, Odisha, India
- 118 M. Liao; G. Yu; Y. Guo
Eutrophication in Poyang Lake (Eastern China) Over the Last 300 Years in Response to Changes in Climate and Lake Biomass
- 119 A. García-Escárzaga; I. Gutiérrez-Zugasti; D. Cuenca-Solana; A. Cobo; J. Martín-Chivelet; M. R. González-Morales
Looking for the 8.2ka event: environmental conditions derived from oxygen stable isotopes on mollusc shells during the Early Holocene in northern Iberia
- 120 P. Bakker; P. U. Clark; N. R. Golledge; A. Schmittner; M. E. Weber
Centennial-scale Holocene climate variations amplified by Antarctic Ice Sheet discharge
-
- DIST**
- 29 V. Álvarez Barra; S. L. Fontana; T. Giesecke
Late Holocene vegetation dynamics and disturbance regime in north Patagonia
- 30 N. Schafstall
Disturbance events from Sumava, Czech Republic correlated with historic bark beetle outbreaks
- 37 A. Callegaro; F. Matsubara Pereira; T. Kirchgorg; D. Battistel; B. W. Bird; C. Barbante
Fire and vegetation changes during Holocene recorded in Tibetan lacustrine sediments
- 38 A. Dabengwa; W. Bond; L. Gillson
Herbivore and fire interactions in grassland dynamics at wetland key resource use area at millennial timescales
- 39 E. Montoya; J. Pedra-Méndez; E. García-Falco; R. Montúfar; S. Giralt; M. Gómez-Paccard; V. Rull
Evaluation of palm swamps palaeoecology related to past climatic & human practices variability
- 40 A. Seddon; L. Cole; J. Morris; M.-Shawn F.; K. Willis
EcoRe3: Resistance, Recovery and Resilience in Long-term Ecological Systems.
- 41 J. C. García Codrón; V. Carracedo; R. Cunill Artigas; A. Pélachs Månosa; R. Pérez Oriol; J. M. Soriano López
Human-driven fire regimes in the Cantabrian region. A comparison of three peat bog sediment records
- 42 P. Rivas-Ruiz; M. Cao; G. Gil-Romera; A. Pélachs; J. Manuel Soriano; A. Rosell-Melé
Appraisal of biomass combustion biomarkers to track the paleo-occurrence of forest fires
- 43 C. Morales del Molino; J. S. Carrión; M. Conedera; M. García Antón; L. Gil; P. Krebs; W. Tinner; M. Valbuena Carabaña; E. Vescovi; D. Colombaroli
Insights into the long-term impacts of changing fire regimes, grazing and human activities on southern European forest ecosystems: implications for forest management and biodiversity conservation
- 44 J. Morris; R. Justin DeRose; A. Brumelle
The impacts of climate change and disturbance regime shifts on the spruce-fir forests of the Colorado Plateau, USA
- 45 M. Leunda; G. Gil-Romera; P. González-Sampériz; A.-L. Daniau; J. Aranbarri; A. Pérez-Sanz; A. Moreno; B. Valero-Garcés
Fire regime during the Holocene in the Central Pyrenees (Spain) and its consequences in vegetation
- 46 J. Morris; P. Higuera; S. Haberle; C. Whitlock
Modern pollen from small hollows reflects pencil pine density across a wildfire gradient in subalpine forests of the Central Plateau, Tasmania, Australia
- 47 G. Florescu; A. Feurdean
Heterogenous pattern in fire activity in a homogenous climate: test using Holocene charcoal records from Northern Carpathians, Romania

Friday 12th May 2017

48 **R. Moreno**; S. Fontana; T. Giesecke

The impact of recent land use change on the Araucaria forests of North Patagonia

INTER

155 **A. Masi**; G. Sinopoli; L. Sadori

Palynology discovers the plants response to climate changes during the last interglacial complex at Lake Ohrid (FYROM/Albania)

156 **A. S. Dalton**; S. A. Finkelstein; P. J. Barnett

Age and inferred paleoclimate from Pleistocene-aged deposits in the Hudson Bay Lowlands, Northern Canada

157 **A. Govin**; C. Kissel; C. Wandres

Last Interglacial variability of the deep North Atlantic circulation

158 **N. Vazquez Riveiros**; L. Skinner; C. Waelbroeck; D. Roche; N.e Bouttes

Interglacial climate of MIS 7 and MIS 11 influenced by ocean circulation during preceding Terminations

159 **R. Newnham**; G. Dunbar; M. Ryan; M. McGlone; J. Wilmshurst

Pollen climate reconstructions for three interglacials from New Zealand and their relevance to climate projections for the 21st century.

160 **D. Oliveira**; S. Desprat; T. Rodrigues; F. Naughton; D. Hodell; R. Trigo; F. Abrantes; M. F. Sanchez Goñi

The complexity of millennial-scale cooling events in southwestern Europe during MIS 11

161 **F. Marret**; J. Prebble; E. Crouch; G. Cortese; H. Neil; H. Bostock

Revisiting the Last Interglacial period in the SW Pacific: new palynological evidence

162 **S. Pérez-Díaz**; A. Cearreta; J. A. López-Sáez; E. Sainz de Murrieta; P. Cunha

Vegetation dynamics and climate variability during the MIS-5 in the Northern Iberian coast: The palynological study of the Oyambre deposit.

163 **P. Gierz**; G. Lohmann; M. Werner; A. Govin; E. Capron

Constraining the North Atlantic Summer Climate during the Early Last Interglacial

164 **T. Alina**; T. Piotr; G.-B. Elisabeth; M.-A. Seyed-Hani; L. Mohammad; A.-B. Hesam

Lake Urmia (NW Iran) environmental and climate changes during the Holocene inferred from the lake deposits; preliminary results

165 **M. Välranta**; K. Helmens; S. Finkelstein; A. Dalton; P. Sarala; T. Eskola; N. Kuosmanen; S. Salonen

Weichselian/Wisconsin interstadial climate and vegetation composition based on palaeobotanical data from northern Finland and Canada

166 **C. Chen**; T. Litt

Dead Sea pollen reveal last interglacial environment of the southern Levant from Paleobotanical perspective

167 **R. Drysdale**; J. Hellstrom; I. Couchoud; G. Zanchetta; E. Regattieri; P. Gierz; P. Bajo; E. Corrick; J. Woodhead

A cross-hemispheric comparison of Last Interglacial climate variability using Italian and NZ speleothem records

168 **J. S. Salonen**; K. F. Helmens; M. Välranta; N. Kuosmanen; S. J. Goring; M. Luoto

A high-resolution pollen and macrofossil sequence and climatic reconstruction of the Eemian Interglacial (MIS 5e) from northern Finland

169 **L. Sime**; P. Valdes; J. Tindall; I. Malmierca Vallet

8 degrees C of Greenland warming? Ice cores and sea ice retreat during the Last Interglacial

170 **B. Otto-Bliesner**; E. Brady; R. Tomas

The PMIP4-CMIP6 Simulations for the Mid-Holocene and Last Interglacial with the Community Earth System Model

171 **J. Torner**; I. Cacho; A. Moreno; H.r Stoll; J. Rodríguez; C. Pérez; J. Fornós; H. Chang; R. L. Edwards

Climate variability during MIS 5 in NE Iberia and its surrounding seas

172 **Q. Hao**; L. Wang; F. Oldfield; Z. Guo

Extra-long interglacial in Northern Hemisphere during MISs 15-13 and its influence on the second major dispersal of African hominins

173 **I. Oyabu**; K. Kawamura; K. Kitamura

A revised chronology of the Dome Fuji ice core (80 to 165 ka) from O2/N2 of trapped air

174 **T. Rodrigues**; M. Belen; M. Casado; M. Alonso Garcia; J. O. Grimalt; D. Hodell; F. Abrantes

The Warmest Interglacials (MIS 5e and MIS 19) over the last 1Ma in SW Iberian Margin

175 **B. L. Otto-Bliesner**; P. Braconnot; S. P. Harrison; D.J. Lunt; PAGES and PMIP4 Quaternary Interglacials Working Groups

Two Interglacials: Scientific Objectives and Experimental Designs for Holocene and Last Interglacial Simulations in PMIP4 and CMIP6

176 **E. Taldenkova**; S. Nikolaev; E. Gusev; A. Stepanova; P. Rekant; Y. Ovsepyan; N. Chistyakova; E. Novikhina; O. Rudenko;

T. Klyuyvitkina; M. Pyatkova; E. Miroyubova

A new long record of the Pleistocene glacial/interglacial environmental variability in the Amerasian Arctic Ocean (Mendeleev Ridge)

177 **T. Pollard**; R. Drysdale; J. Woodhead; I. Couchoud; M. Daëron; D. Blamart; J. Hellstrom; E. Regattieri; G. Zanchetta

Radiometrically dated speleothem records of MIS 11c and other key Quaternary interglacials from Corchia Cave, central Italy

HOL

154 **M. Allan**; N. Fagel; S. Verheyden

Belgian speleothem records Holocene cold events?

153 **B. Song**; H. Jia; W.-H. Nahm; J.-C. Kim; J. Lim; J.-Y. Lee

Middle to late Holocene centennial-multidecadal climate change on the east coast of South Korea and possible influential factors

152 **M. Döring**; T. Kobashi; M. Leuenberger

Automatization of an inverse surface temperature modelling procedure for Greenland ice cores, developed and evaluated using nitrogen and argon isotope data measured on the Gisp2 ice core

151 **B. Reilly**; J. Stoner; A. Mix; M. Jakobsson; A. Jennings; M. Walczak; L. Dyke; M. Cheseby; S. Albert; J. Wiest

Holocene Activity of the Petermann Glacial System, Northwest Greenland

150 **M. Álvarez-Frugone**; J. Polanco-Martínez; C. Latorre; A. Moreno; B. Valero-Garcés

Differential response of Holocene climate variability observed from lake records along an elevational gradient in the intermediate latitudes of the Southern Hemisphere.

Friday 12th May 2017

- 149 [V. Carter](#); [P. Kunes](#); [J. Clear](#)
Drivers of vegetation change from the Sumava Region, central Europe in association with the 8.2 ka event.
- 148 [M. Mojtahidi](#); [M. Durand](#); [A. Penaud](#); [P.-O. Coste](#); [A. Ganne](#); [H. Howa](#); [J. Nizou](#); [S. Toucanne](#)
High resolution study of benthic foraminiferal community from the northern Bay of Biscay (northeastern Atlantic) over the past 7000 years: a look at climatic and oceanic forcing factors
- 147 [B. Jalali](#); [M.-A. Sicre](#); [N. Kallel](#); [J. Azuara](#); [N. Combourieu-Nebout](#); [M.-A. Bassetti](#); [V. Klein](#)
High-resolution Holocene climate and hydrological variability from the two major Mediterranean deltas (Nile and Rhone)
- 146 [V. Rull](#); [E. Montoya](#)
Holocene vegetation dynamics in the Apakará summit of the neotropical Guayana Highlands
- 145 [M. Reschke](#); [K. Rehfeld](#); [T. Laepple](#)
Spatial variability and signal content of Holocene temperature proxy records
- 144 [Y.-H. Park](#); [B.-K. Khim](#); [Ma. Yamamoto](#); [S. Kim](#); [K.-C. Yoo](#); [H.-I. Yoon](#)
TEX86-derived temperature variability during the Holocene in the Hupo Basin of the southwestern East Sea (Sea of Japan)
- 143 [X. Liu](#); [Y. Sun](#); [P. Cheng](#); [Z. An](#)
Abrupt winter monsoon changes on the western Chinese Loess Plateau since the last deglaciation
- 142 [I. Matero](#); [L. J. Gregoire](#); [R. Ivanovic](#); [J. Tindall](#); [A. Haywood](#)
The 8.2 ka cooling event caused by Laurentide ice saddle collapse
- 141 [J. Conroy](#); [A. Hudson](#); [J. Overpeck](#); [K.-B. Liu](#); [L. Wang](#); [J. Cole](#)
The primacy of internal variability over late Holocene forced change of the Asian monsoon on the southern Tibetan Plateau
- 140 [J. Ren](#); [J. Chen](#); [L. Ran](#); [H. Jin](#); [Y. Bai](#)
A diatom-based transfer function for quantitatively sea ice reconstruction in the western Arctic Ocean
- 139 [X. Gong](#); [G. Lohmann](#)
Coherent changes of the Atlantic Meridional Overturning Circulation and North Pacific Intermediate water during Mid-to-late Holocene transition
- 138 [J. M. Mesa-Fernández](#); [G. Jiménez-Moreno](#); [M. Rodrigo-Gámiz](#); [A. García-Alix](#); [R. Scott Anderson](#); [F. J. Jiménez-Espejo](#); [Francisca Martínez-Ruiz](#)
Paleoenvironment and climate evolution during the holocene in Sierra Nevada (Southeastern Iberia)
- 137 [A. García-Alix](#); [F. J. Jiménez-Espejo](#); [J. L. Toney](#); [G. Jiménez-Moreno](#); [M. J. Ramos-Román](#); [R. Scott Anderson](#); [P. Ruano](#); [I. Queralt](#); [A. Delgado Huertas](#)
Increased sensitivity in S Spain alpine bogs after the Industrial Revolution: natural vs human-induced environmental change
- 136 [M. J. Ramos-Román](#); [G. Jiménez-Moreno](#); [R. S. Anderson](#); [A. García-Alix](#); [J. Camuera](#); [J. L. Toney](#); [F. J. Jiménez-Espejo](#)
Human impact during the Late Holocene based on vegetation reconstruction from alpine and montane peat bog sediment records from Sierra Nevada (southeastern Spain)
- 135 [A.-C. Diaconu](#); [M. Tóth](#); [M. Lamentowicz](#); [O. Heiri](#); [I. Tanțău](#); [A.-M. Panait](#); [A. Feurdean](#)
Hydroclimate history of the last 7500 years in the northern Carpathians, Romania
- 134 [S. Lata Rawat](#); [A. K. Gupta](#); [P. S. Negi](#)
Mid to late Holocene climate variability in the Garhwal Himalaya, India
- 133 [I. Couchoud](#); [R. Drysdale](#); [J. C. Hellstrom](#); [Y. Perrette](#)
The 8.2 ka event recorded at high resolution by a speleothem from the Northern French Alps
- 132 [M. J. Ramos-Román](#); [G. Jiménez-Moreno](#); [J. Camuera](#); [A. García-Alix](#); [R. S. Anderson](#); [F. J. Jiménez-Espejo](#); [J. L. Toney](#); [D. Sachse](#)
Late Holocene climate change in Southern Iberia through a high-resolution multi-proxy analysis from Padul peat bog (Sierra Nevada)
- 131 [G. Leduc](#); [L. Vidal](#); [K. Tachikawa](#); [C. Sonzogni](#); [M. García](#); [F. Rostek](#); [Y. Fagault](#); [E. Bard](#); [J. Jacob](#); [L. Beaufort](#); [C. Waelbroeck](#); [R. Schneider](#)
Holocene hydrological changes in the Eastern Equatorial Pacific
- 130 [S. Marcotti](#); [M. Reusche](#); [E. Ceperley](#); [A. Barth](#); [E. Brook](#); [A. Mix](#); [M. Caffee](#)
Holocene glaciation of northwest Greenland
- 129 [M. Toohey](#); [C. Timmreck](#); [J. Bader](#); [V. Brovkin](#); [M. Claussen](#); [J. Junclaus](#); [S. Lorenz](#); [H. Schmidt](#); [M. Sigl](#); The Hamburg Holocene Group
A rudimentary Holocene volcanic forcing reconstruction and its climatic impacts in Earth system model simulations
- 128 [S. J. Lorenz](#); [V. Brovkin](#); [M. Claussen](#); [R. D'Agostino](#); [A. Dallmeyer](#); [J. Jungclaus](#); [T. Raddatz](#); [C. Timmreck](#); [M. Toohey](#); Hamburg Holocene Group
High-resolution transient simulations of Holocene climate with the MPI Earth system model, forcing and experiments
- 127 [S. Alexandroff](#); [J. Scourse](#); [P. Butler](#); [B. Schöne](#); [P. Reimer](#)
Reconstructing Holocene hydrographic variability in the Northeast Atlantic using bivalves
- 126 [A. Català](#); [I. Cacho](#); [J. Frigola](#); [M. Canals](#)
Holocene marine-atmosphere linkages in the western Mediterranean Sea
- 125 [M. Dabhi](#); [S. Bhandari](#); [N. Chauhan](#); [A. Shukla](#); [N. Juyal](#)
Reconstructing climate during Late Holocene: Decline of Pre-Historic site in Western Kachchh
- 124 [C. S. Allen](#); [J. Pike](#); [A. R. Haworth](#); [D. A. Hodgson](#)
Spatial and temporal heterogeneity of Holocene ocean and climate conditions in the Antarctic Peninsula: evidence from a suite of marine diatom records.
- 123 [J. Franke](#); [R. Donner](#)
Dynamical anomalies in North Atlantic climate variability during the last 2 ka as revealed by visibility graph analysis of terrestrial proxies
- 122 [D. Thornalley](#); [D. Oppo](#); [P. Moffa-Sanchez](#); [I. Hall](#); [L. Keigwin](#); [N. McCave](#)
Millennial scale variability of the AMOC and its link to climate during the Holocene
- 188 [F. Rodrigues](#); [M. M. Mahiques](#); [R. C. L. Figueira](#); [R. H. Nagai](#)
Late Holocene Mg/Ca based sea surface temperature estimates for the SW Atlantic in the

- 187 [U. Herzschuh](#); X. Cao; T. Laepple; R. Telford; A. Dallmeyer
Shifting and tilting of the westerly axis induced regionally contrasting Holocene rainfall pattern in China
- 186 [R. Lloren](#); F. Siringan
The influence of the ITCZ mean positioning in the precipitation variabilities during PDO events in the Sibuyan Basin, Philippines during the Holocene
- 185 [R. Olga](#); B. Henning; Taldenkova E.; Ovsepyan Y.; Yenina V.; Stepanova A.
Mid- and late Holocene environmental variability in Arctic Siberia: evidence from sediment core records from the Laptev Sea inner shelf adjacent to the Lena River Delta
- 184 [P. Butler](#); J. Estrella-Martínez; J. Scourse
An annually resolved marine proxy record for the 8.2K cold event from the northern North Sea
- 183 [A. Moreno](#); M. Bartolomé; C. Pérez; C. Sancho; B. Valero-Garcés; P. González-Sampériz; A. Català; J. Frigola; I. Cacho; M. Morellón; B. Oliva; L. Edwards
Reconstructing Holocene hydrological variability from the western Mediterranean region
- 182 [E. Argiriadis](#); M. Vecchiato; T. Kirchengoerg; D. Battistel; N. Kehrwald; A. Callegaro; D. B. McWethy; C. Whitlock; C. Barbante
Late Holocene human-environment interactions in New Zealand: a biomarker approach
- 181 [M. Freund](#); B. Henley; D. Karoly
ENSO flavours- Spatial dynamics of ENSO during the pre- industrial period
- 180 [F. S. R. Pausata](#); Q. Zhang; F. Muschitiello; Z. Lu; L. Chafik; E. M. Niedermeyer; J. C. Stager; K. M. Cobb; Z. Liu
Greening of the Sahara suppressed ENSO activity during the Mid-Holocene
- 179 [F. S. R. Pausata](#); K. A. Emanuel; M. Chiacchio; G. T. Diro; Q. Zhang; L. Sushama; J. Stager; J. P. Donnelly
Tropical storm activity enhanced by Sahara greening and reduced dust emissions during the African Humid Period
- 178 [A. S. Pillai](#); A. Anoop; J. Ratnam; V. Prasad; P. Sanyal; S. Varghese; M. Sankaran
Mid-late Holocene vegetation responses to climatic and disturbance drivers in Western Indian grasslands
-
- ACC**
- 1 [E. Sessford](#); A. Tisserand; E. Jansen
Water masses and circulation in the Denmark Strait during abrupt transitions for Dansgaard-Oeschger events 8-5
- 2 [M. de Carvalho Campos](#); C. Mazur Chiesi; I. Voigt; A. R. Piola; H. Kuhnert; S. Mülitz
 $\delta^{13}C$ decreases in the upper western North Atlantic during Heinrich Stadials 3 and 2
- 3 [E. Gowan](#); G. Knorr; L. Niu; G. Lohmann
Role of sediments in controlling the dynamics of paleo-ice sheets
- 4 [E. Ceperley](#); S. Marcott; S. Meyers
A Late Pleistocene Meltwater Routing Record from the Gulf of Mexico
- 5 [M. F. Jensen](#); A. Nummelin; S. B. Nielsen; H. Sadatzki; E. Sessford; B. Risebrobakken; C. Andersson; A. Born
A spatio-temporal reconstruction of North Atlantic sea-surface temperatures during Dansgaard-Oeschger events 5-8
- 6 [S. Talento](#); M. Barreiro
Simulated sensitivity of the tropical climate to extratropical thermal forcing
- 7 [S. Talento](#); M. Barreiro
Control of the South Atlantic Convergence Zone by extratropical thermal forcing
- 8 [C. Qu](#); K. Nisancioglu; M. Bentsen; I. Bethke
Equilibrium simulations of Marine Isotope Stage 3 interstadial climate
- 9 [N. Vazquez Riveiros](#); C. Waelbroeck; D. Roche; S. Moreira; E. Boehm; P. Burckel; H. Arz; T. Dokken
Glacial $\delta^{13}C$ decreases in the western Tropical Atlantic during Heinrich stadials of the last 45 kyr
- 10 [N. Umling](#); R. Thunell
Deglacial variability in Eastern Equatorial Pacific deep-water circulation and bottom water chemistry
- 11 [L. Antón](#); S. M. Lebreiro; S. Nave; E. Bellido; P. Mata
Deglaciation and Holocene climate change in the Tore Seamont
- 12 [R. Ivanovic](#); L. Gregoire; A. Wickert; P. Valdes; A. Burke
Collapse of the North American ice saddle 14,500 years ago caused widespread cooling and reduced ocean overturning circulation
- 13 [R. Kearney](#); C. Bronk Ramsey; R. Staff; P. Albert
Comparing records to understand past rapid climate change: An INTIMATE database update
- 14 [R. S. Avery](#); A. E. S. Kemp; J. M. Bull; C. J. Cotterill; C. Xuan; J. J. Fielding; R. B. Pearce; R. Scaife; P. G. Langdon; I. W. Croudace
A new high resolution deglacial record from Windermere, UK
- 15 [M. H. Simon](#); T. M. Dokken; H. Sadatzki; F. Muschitiello; I. Hajdas; E. Jansen
Ocean ventilation changes in the Nordic Seas during MIS 3- Insights into the mechanisms of Dansgaard-Oeschger cycles
- 16 [A. Svensson](#); +18 co-authors
Bipolar synchronicity of abrupt climate change and the role of volcanism in the last glacial period (MIS4)
- 17 [K. Izumi](#); P. Bartlein
large-scale Climate And Vegetation Changes over the last Deglaciation (CLAWICHORD)
- 18 [C. Buizert](#); M. Sigl; M. Severi; F. Parrenin; T. J. Fudge; B. Markle; E. Steig; K. Goto-Azuma; K. Kawamura; S. Fujita; H. Motoyama; J. Pedro
Interhemispheric climate coupling via atmospheric and oceanic teleconnections during abrupt climate change of the last ice age
- 19 [M. Werner](#); P. Gierz; G. Knorr; X. Zhang; G. Lohmann
Explicit simulation of $\delta^{18}O$ and δD changes in atmosphere and ocean induced by a freshwater hosing
- 20 [R. Ivanovic](#); L. Gregoire; A. Wickert; P. Valdes; A. Burke
Heinrich Stadial 1 caused by acceleration of Eurasian deglaciation ~18.5 ka
- 21 [E. Corrick](#); R. Drysdale; J. Hellstrom; I. Couchoud; D. Genty; D. Blamart
A precise chronology of millennial-scale climate events from French speleothems
- 22 [I. Matero](#); L. J. Gregoire; S. L. Cornford
Role of dynamical ice loss during the demise of the early-Holocene Laurentide ice sheet.

Friday 12th May 2017

- 25 [A. Gerotto](#); M. Di Domenico; I. Hernandez-Almeida; R. Figueira Lopes; R. Hanae Nagai
Abrupt changes in the south china sea mixed layer depth during the last 20 Ka
- 24 [L. Quirós-Collazos](#); E. Calvo; S. Schouten; L. D. Pena; I. Cacho; C. Pelejero
Comparison of the Eastern Equatorial Pacific UK'37, TEX86 and Globigerinoides ruber derived sea temperatures: insights from Termination II
- 25 [A. B. McDonald](#)
Abrupt climate change explained by a paradigm shift in the scheme for outgoing longwave radiation (OLR).
- 26 [H. Sadatzki](#); S. M. P. Berben; F. Muschitiello; T. M. Dokken; R. Stein; K. Fahj; E. Jansen
Interplay between sea ice extent in the Nordic Seas and abrupt climate change in Greenland over Dansgaard-Oeschger cycles
- 27 [D. I. Armstrong McKay](#); T. M. Lenton
Reduced Earth system resilience across the Palaeocene-Eocene Thermal Maximum
- 28 [D. Della Lunga](#); W. Müller; S. O. Rasmussen; A. Svensson; P. Vallelonga
Abrupt Shifts in Elemental Dust Proxies and their Ratios across Stadial-Interstadial Transitions in Greenland Ice Cores via Cryo-cell Laser-ablation ICPMS
- 31 [R. Ivanovic](#); L. Gregoire; M. Kageyama; D. Roche; P. Valdes; A. Burke; R. Drummond; W. R. Peltier; L. Tarasov
Transient climate simulations of the deglaciation 21-9 thousand years before present (version 1); PMIP4 Core experiment design and boundary conditions
- 32 [R. L. Rees-Owen](#); A. Burke; G. Rosanna; J. Rae; A. Ridgwell
Modelling marine radiocarbon during abrupt climate change
- 33 [M. Kageyama](#)
Atmospheric and Oceanic reorganisations during glacial abrupt events: an IPSL model study
- 34 [B. Taylor](#); J. Rae; A. Burke; W. Gray; M. Sarnthein
The Deglacial Evolution of CO₂ in the North Pacific
- 35 [E. Littleley](#); J. Rae; A. Burke; R. Greenop; S. Price; D. Thornalley
The biogeochemical signature of rapid climate events in the North Atlantic
- 36 [M.-A. Sicre](#); V. Klein; F. Kaczmar
The role of sea ice in iceberg discharges during Heinrich event 4
-
- AQUA**
- 69 [M. Fuentealba](#); C. Latorre; M. Frugrone; M. Laura Carrevedo; B. Valero-Garcés
Tracking recent watershed changes in Vichuquén Lake (Central Chile) through $\delta^{15}N$ signatures
- 70 [X. Benito](#); A. Cearreta; R. Trobajo; M. Brunet; C. Ibanez; S. C. Fritz
Natural and anthropogenic changes in a Mediterranean delta as reconstructed from benthic foraminifera
- 71 [P. Gell](#)
Human Impact on coastal aquatic systems in south-east Australia: a synthesis
- 72 [N. Thi Minh Ngoc](#); T. Tan Van; N. Dai Trung
Traces of early prehistorical human's residence in UNESCO Trang An Landscape Complex of Vietnam and some initial findings about the impact on aquatic ecosystems
- 55 [M. Haas](#); F. Baumann; A. Reusch; M. Strasser; T. I. Eglinton; N. Dubois
Of Pile Dwellers, Roman and Medieval Farmers - Early Human Impact on Lake Murten, Switzerland
- 56 [J. P. Corella](#); B. L. Valero-Garcés; F. Wang; A. Martinez-Cortizas; C. A. Cuevas; A. Saiz-Lopez
Seven centuries of mercury and lead atmospheric deposition recorded in a varved lake record from the Pyrenees
- 57 [S. V. Hansson](#); A. Claustres; G. Le Roux; The TRAM team
Old sins in new fins Tracing the effect of ancient mining on contemporary high-altitude aquatic food-chains using Pb-isotopes.
- 58 [M. Morellon](#); A. Vicente de Vera; J. Vegas; M. P. Mata; S. Pla-Rabes; J. Sánchez-España; J. A. Rodríguez-García; F. Barreiro-Lostres
The impact of mining and hydropower in alpine lakes: The sedimentary record of Lake La Cueva (Asturias, NW Spain)
- 59 [B. L. Valero Garcés](#); D. Galop; G. Le Roux; L. Camarero; A. de Diego; M. Felip; D. Amoroux; J. M. Santamaría Ulecia; B. Lauga; F. Barreiro-Lostres; M. P. Mata Campo; REPLIM Science Team
Towards the establishment of a pyrenean network of global change in lakes and peatbogs: the replim project
- 60 [G. Kattel](#)
Does river regulation trigger emergent macrophytes growth? An integrated assessment of palaeo- and-modern food web approaches in Australia's River Murray system
- 61 [S. Sova Barik](#); D. Mahto; R. K. Singh; S. Tripathy; P. Prusty
Assessing salinity variations in brackish Chilika Lake - a multiproxy approach
- 62 [Q. Lin](#); E. Liu; E. Zhang; J. Shen; K. Zhang; K. Li
Historical variations and current state of atmospheric trace metal pollution in Southwest China: Reconstruction from lacustrine sediment in the Erhai Lake
- 63 [K. Mills](#); C. Sayer; T. Davidson; P. Gell
Aquatic Transitions (a PAGES Working Group): Establishing a framework for understanding threshold changes in aquatic ecosystems
- 64 [C. Giquet-Covey](#); P. Gell; A.-L. Develle
New perspectives on lake ecosystem state trajectories from lake sediment DNA as a proxy of anthropogenic factors (Mundic Lagoon, South eastern Australia)
- 65 [W. Bertrand](#); A. Simonneau; G. Ollivier; D. Galop
Holocene diatom community changes in a Pyrenean high altitude lake in relation to climate changes and local human impacts.
- 66 [T. Adrião Silva](#); S. Girardclos; J.-L. Loizeau
20th century human impact on the sediment transfer from the upper Rhone River basin to Lake Geneva (Switzerland/ France)

Saturday 13th May 2017

	<i>Mozart Room</i>	<i>Luis Galve Room</i>	<i>Mariano Gracia Room</i>	<i>Hotel Romareda Room 1</i>	<i>Hotel Romareda Room 2</i>	<i>Room 11 (Auditorium)</i>
11:00 - 15:00	Quaternary climate and environmental change in the Southern Hemisphere	The Holocene – its climate variability and rapid transitions	Regional syntheses of human-climate-environment interactions	Historical Climate Reconstruction and Impacts of the Common Era	Before and after - climate contrasts across the MPT	Data Stewardship for paleoscience + general discussion
15:00 - 17:00	Quaternary climate and environmental change in the Southern Hemisphere	The Holocene – its climate variability and rapid transitions	Regional syntheses of human-climate-environment interactions	From early human impacts to the Great Acceleration: A paleoscience perspective on the climate-landscape-human multiple connections	Pliocene climate variability over glacial-interglacial timescales (PlioVAR)	

MOZART ROOM

Quaternary climate and environmental change in the Southern Hemisphere

Conveners: S. Bertrand, A. M. Lorrey, M. Rojas and K. Saunders

Chairs: A. M. Lorrey, M. Rojas, S. Bertrand, K. Saunders

Session sponsored by the Laboratory International of Global Change - LINCglobal

- 11:00 | **B. Chase; M. Chevalier; A. Boom; A. S. Carr**
The dynamic relationship between temperate and tropical circulation systems across South Africa since the Last Glacial Maximum
- 11:15 | **K. Braun; M. Bar-Matthews; A. Matthews; A. Ayalon; R. C. Cowling; R. Zahn; C. W. Marean**
Speleothem stable isotopes reconstruction of the effects of meridional shifts in atmospheric pressure systems on South African rainfall and vegetation
- 11:30 | **T. Schneider; M. Grosjean**
High-resolution flood history in lake sediments from SW Ecuador of the past two millennia: El Nino or not?
- 11:45 | **J. Tyler; A. Chapman; E. Lockier; J. Tibby; C. Barr; M. Rollog; P. Gadd; G. Jacobsen**
The nature and causes of megadroughts in south-eastern Australia: evidence from the Holocene sediments of West Basin, Victoria
- 12:00 | **K. Beck; M. Fletcher; P. Gadd; H. Hejnis; K. Saunders**
Climate and fire-mediated terrestrial-aquatic ecosystem teleconnections: a case study from temperate Tasmania
- 12:15 | **C. Whitlock; V. Iglesias; L. Stahle; V. Markgraf; S. Haberle**
Postglacial vegetation-fire linkages in western Patagonia and western Tasmania as a response to large-scale climate controls
- 12:30 | **C. Mayr; A. Lücke; H. Wissel; J. Massaferrero; C. Laprida; M. Oehlerich; C. Ohlendorf; R. S. Martin; J. Ramón-Mercu; J. Zhu; B. Zolitschka**
Oxygen isotope records from Patagonian lakes as recorders of past hydroclimate and southern westerlies dynamics - calibration, present achievements and future perspectives
- 12:45 | **B. Zolitschka; M. Fey; S. Janssen; N. I. Maidana; C. Mayr; S. Wulf; T. Haberzettl; H. Corbella; A. Lücke; C. Ohlendorf; F. Schäbitz**
Position and strength of the Southern Hemispheric Westerlies a multiproxy reconstruction from southern Patagonia (Laguna Azul, Argentina)

► Saturday 13th May 2017

- 15:00 **D. Gaiero**; S. Gili; S. Goldstein; F. Chemale; J. Jweda; M. Kaplan; R. Becchio; K. Edinei
Glacial/interglacial changes of Southern Hemisphere zonal circulation from the geochemistry of South American and East Antarctic dust
- 15:15 **J. Jones**; R. Fogt; C. Goergens
Seasonal spatial pressure reconstructions across Antarctica since 1905
- 15:30 **Z. Yu**; D. Beilman; J. Loisel; J. Stelling; Z. Xia
Late Holocene Climate Changes Across the Antarctic Peninsula Induced by Atmosphere-Ocean-Ice Interactions
- 15:45 **D. Hodgson**; B. Perren; S. Roberts; W. van Nieuwenhuyze; E Verleyen; W. Vyverman; C. Butz
A Record of Southern Hemisphere Westerly Winds from subantarctic Marion Island
- 16:00 **J. Bakke**; O. Paasche; J. Schaefer; A. Timmermann
Prevailing pacing of subantarctic glaciers by Southern Hemisphere Westerlies
- 16:15 **G. Cortese**; J. Prebble; H. Bostock; A. Lorrey; B. Hayward; E. Calvo; L. Northcote; G. Scott; H. Neil
Evidence for a Holocene Climatic Optimum in the Southwest Pacific: a multiproxy study
- 16:30 **J. Roberts**; S. Misra; P. Köhler; R. Tiedemann; F. Lamy
Deconvolving the deglacial release of CO₂ from the deep South Pacific
- 16:45 **P. T. Spooner**; L. F. Robinson; A. Burke; T. Chen; K. Pyle; S. Bates; K. R. Hendry
Southern Ocean cold-water coral records of dissolved Ba over the last 20 ka: Implications for paleoproductivity and deglacial dynamics



LUIS GALVE ROOM

The Holocene – its climate variability and rapid transitions

Conveners: R. S. Bradley and H. Wanner; Chairs: H. Wanner, R. Bradley

- 11:00 L. Gregoire; R. Ivanovic; A. Maycock; P. Valdes
Holocene lowering of the Laurentide Ice Sheet weakens North Atlantic gyre circulation and affects climate
- 11:15 A. De Vernal; C. Hillaire-Marcel
Short and late Holocene attainment of a full Atlantic Meridional Overturning circulation
- 11:30 Á. Geirsdóttir; G. Miller; S. Ólafsdóttir; D. Larsen; D. Harning; F. Christopher; S. Gunnarson
Holocene climate variability and rapid transitions in the northern North Atlantic
- 11:45 Ø. Paasche; J. Bakke
Climate Shifts in Arctic Norway Inferred from Past Glacier Variability
- 12:00 K. Nicolussi; L. Markus; C. Schlüchter; G. Weber; M.M. Ziehmer
The onset of the temperature decline after the Holocene Thermal Maximum in the Alps
- 12:15 M. Sigl; J. McConnell; A. Burke; J. Cole-Dai; S. Davies; H. Fischer; K. Nicolussi; G. Plunkett; M. Severi; M. Toohy
Global volcanism during the Holocene: Why do we care and what do we need?
- 12:30 INVITED TALK Pascale Braconnot
Exploring the Holocene with numerical experiments: mean climate and climate variability in the tropics
- 12:45 S. Kizhur; R. Shankar; A. Warrier; M. Yadava; R. Ramesh; R. Jani; W. Zhou; L. Xuefeng
Indian summer monsoon variability during the holocene in southern india: evidence for abrupt climatic shifts from a multi-proxy lake sediment record

"Lunch time (Multiusos room/Lunch Area)"

- 15:00 C. Zielhofer; W.J. Fletcher; H. von Suchodoletz; B. Schneider; K. Schepanski; A. Mikdad; S. Mischke
Millennial shifts in Saharan dust supply across the decline of the African Humid Period
- 15:15 C. Brierley; K. Manning; M. Maslin
Could Humans have delayed the collapse of the African Humid Period?
- 15:30 C. Karamperidou; J. Conroy
Using multi-resolution proxies to assess ENSO impacts on the mean state of the tropical Pacific
- 15:45 P. Grothe; K. Cobb; G. Liguori; E. Di Lorenzo; A. Capotondi; R.L. Edwards; D. Deocampo; H. Sayani; J. Lynch-Stieglitz
Robust evidence for forced changes in ENSO: from the mid-Holocene to the 21st century
- 16:00 H. McGregor; S. Phipps; M. Fischer; M. Gagan; L. Devriendt; A. Wittenberg; C. Woodroffe; J.X. Zhao; J. Gaudry; D. Fink; A. Chivas
External and internal origins of ENSO variability revealed by Holocene corals and climate model simulations
- 16:15 N. Graham; D. Verschuren; M. Salzer; M. Hughes
Cause and consequences of the "4.2 kyr event"
- 16:30 B. Davis; A. Mauri; J. Kaplan
The lost season: winter temperature change during the Holocene

MARIANO GRACIA ROOM

Regional syntheses of human-climate-environment interactions

Conveners: F. Arnaud, M.-J. Gaillard-Lemdahl, P. Gell, T. Hoffman and V. Vanacker

Chairs: F. Arnaud, M.-J. Gaillard-Lemdahl, P. Gell, T. Hoffman and V. Vanacker

- 11:00 **J. P. Jenny**; F. Pierre; G. E. Irene; B. Alexandre; L. François; N. Anders; B. Kristina; N. Alexandre; A. Bernhard; C. Nuno
Reconstructing rates of changes in global soil erosion from lake sediment archives
- 11:15 **M. J. Gaillard**; K. Morrison; M. Madella; N. Whitehouse; LandCover6k core group and co-coordinators
Holocene global land-cover and land-use change for climate modelling studies: Achievements of the PAGES LandCover6k initiative (2015-2016)
- 11:30 **P. Sommer**; J. O. Kaplan
Quantitative Modeling of Human-Environment Interactions in Preindustrial Time
- 11:45 **A. Kay**; J. Kaplan
Mapping livelihoods in West and Central Africa: changes in food-production from 1800 BC to AD 1500
- 12:00 **A. Krishnamurthy**; P. Srinivasan; T. Rathnasiri Premathilake; N. Reghu Ajeeshkumar
Diverse approaches to reconstructing quantitative land cover and climate changes in peninsular India
- 12:15 **K. Zhang**
Abrupt ecological transition in China's aquatic systems during the last two centuries
- 12:30 **D. Penny**; N. Fischer; M. Prokopenko
15th century C.E. urban collapse as a consequence of emergent vulnerability to climate variability
- 12:45 **J. Iriarte**; R. Smith; J. Gregorio de Souza; F. Mayle; B. Whitney; M. L. Cardenas; J. Singarayer; J. F. Carson; S. Roy; P. Valdes
Out of Amazonia: Late-Holocene climate change and the Tupi-Guarani trans-continental expansion
- "Lunch time (Multiusos room/Lunch Area)"**
- 15:00 **A. Feurdean**; B. Vanni re; W. Finsinger; M. Ad mek; P. Bobek; M. Bobrovsky; B. Davis, A. Diaconu, E. Dietze, B. Deak, G. Florescu, E. Jamrichov; K. Kajukalo, J. Kaplan, D. Kupriyanov, C. Lemmen, E. Marinova, K. Marcisz, E. Novenko, D. Rius, M. Slowinski, S. Veski, S. Tonkov, O. Valk, I. Vincze
Natural and human-driven fire regime and land-cover changes in Central and Eastern Europe
- 15:15 **M. Chaput**; K. Gajewski
A combined archaeological and paleoenvironmental perspective of Holocene human-environment interactions in North America
- 15:30 **R. Marchant**; 25 co-authors
Disentangling drivers and directions of land cover change: human and environmental interactions across East Africa from 6000 years ago to present
- 15:45 **F. Li**; M. J. Gaillard; F. Mazier; S. Sugita; Q. Xu; Z. Zhou; X. Cao; U. Herzschuh; Y. Zhao; D. Laffly
Pollen-based land-cover change during the Holocene in temperate China for climate modelling
- 16:00 **L. Stahle**; C. Whitlock; S. Haberle
Climate and human influences on the Holocene fire and vegetation history of western Tasmania, Australia
- 16:15 **M. J. Bunting**; M. Farrell; P. Marshall; A. Bayliss; A. Whittle; R. Batchelor; D. Druce; M. Grant; T. Hill; N. Hollindrake
From mud to map: reconstructing Neolithic land cover dynamics at a regional scale from pollen records
- 16:30 **C. Giquet-covex**; M. Bajard; W. Chen; F. David; F. Gentile Ficetola; L. Gelly; J. Poulenard; P. Sabatier; P. Taberlet; K. Walsh; F. Arnaud
New lights on human-environment interactions in the Northern French Alps provided by lake sediment DNA
- 16:45 **J. Woodbridge**; N. Roberts; R. Fyfe; A. Palmisano; A. Bevan; S. Shennan
Pollen-inferred Mediterranean landscape change and human population dynamics since the advent of Neolithic farming

HOTEL ROMAREDA-ROOM 1

Historical climate reconstruction and impacts of the Common Era

Conveners: R. Brázdil, S. White and D. Degroot; Chairs: S. White

- 11:00 **Z. Hao; J. Zheng; D. Sun**
Dry/wet change characteristics of the past 1000 years over eastern China
- 11:15 **C. Gao; Y. Gao**
European Hydroclimate Response to Volcanic Eruptions over the Past Nine Centuries
- 11:30 **P. Dobrovoly; R. Brázdil; L. Dolák; L. Reznicková; O. Kotyza; H. Valásek**
Signs of the Little Ice Age in Central Europe from AD 1500 compiled from various proxies
- 11:45 **P. Guzowski; A. Izdebski; M. Kozłowska**
Economic response to climate change. Poland during Little Ice Age
- 12:00 **D. Nash; K. Pribyl; G. Endfield; J. Klein; G. Adamson**
Documentary-based reconstruction of rainfall variability over Malawi during the late nineteenth century
- 12:15 **H. Barrett; J. Jones; G. Bigg**
Historical reconstructions of El Niño Southern Oscillation using data from ships logbooks
- 12:30 **F. Dominguez-Castro; R. García Herrera; J. M. Vaquero; S. M. Vicente-Serrano**
Documentary sources from Latin America: an overlooked resource to understand low frequency climate variability in the region
- 12:45 **N. Maughan; G. Pichard**
Impacts of recurring extreme climatic events on societies and landscapes in Provence and Southern French Alps in the early 18th century: a comparative analysis

HOTEL ROMAREDA-ROOM 1

From early human impacts to the Great Acceleration: a paleoscience perspective on the climate-landscape-human multiple connections

Conveners: N. Dubois, P. Francus, A. Zerboni, S. Biagetti, J. Jacob, C. Lancelotti, M. Madella and D. Zurro

- 15:00 **D. Veres; J. Longman; C. Chauvel; Z. Atlas; A. Haliuc; V. Ersek**
Millennial-scale geochemical records of anthropogenic impact and natural climate change in the Romanian Carpathians during the Holocene
- 15:15 **C. Latorre; R. De Pol-Holz; C. Pozo; J. Rech; E. Gayó; C. Santoro**
Linking abrupt changes in local marine radiocarbon reservoir age (ΔR) to upwelling and hunter-gatherer demographic change in coastal northern Chile during the mid-Holocene
- 15:30 **L. Rodrigues; U. Lombardo; M. Trauerstein; F. Preusser; H. Veit**
Pre-Columbian raised fields in the Llanos de Moxos. Bolivian Amazon: An adaptation to the local environment
- 15:45 **A. Koch; S. Lewis; M. Maslin; C. Brierley**
The impact of the discovery of the Americas on the Earth System
- 16:00 **N. Whitehouse**
Human resilience and adaptation of early agricultural societies
- 16:15 **L. Julian; C. Lemmen; A. Hafner**
Reconstructing Late Neolithic and Bronze Age Hinterland and Lake Shore Socio-Environmental Interactions in the Three Lake Region of Western Switzerland
- 16:30 **K. Mills; J. Anderson; D. Ryves; I. Ssemmanda; A. Zawadzki**
Identifying the onset and impact of the anthropocene on tropical lake systems
- 16:45 **L. Phelps; J. Kaplan**
Modeling land use for animal production in global change studies

HOTEL ROMAREDA-ROOM2

Before and after – climate contrasts across the MPT

Conveners: E. Wolff, E. McClymont, M. Crucifix and H. Fischer

Chairs: E. Wolff, E. McClymont

- 11:00 **P. Tzedakis**; M. Crucifix; T. Mitsui; E. W. Wolff
A simple rule to determine which insolation cycles lead to interglacials
- 11:15 **T. Chalk**; G. Foster; M. Hain; E. Rohling; M. Badger; R. Pancost; P. Wilson
Pleistocene CO₂ change and the MPT, from boron isotopes
- 11:30 **M. Hain**
Simulating Mid-Pleistocene CO₂ change
- 11:45 **Y. Sun**; Q. Yin; M. Crucifix; S. Clemens; P. Araya-Melo; W. Liu; X. Qiang; A. Berger; Z. An
Mid-Pleistocene monsoon transition from 23- to 100-kyr cycles
- 12:00 **H. Ford**; M. Raymo
Detangling regional and global signals in seawater $\delta^{18}O$ records across the mid-Pleistocene Transition
- 12:15 **D. Hodell**; P. Tzedakis; L. Skinner; M. Vautravers; J. Rolfe; J. Nicolson
A continuous 1.5-million year record of millennial climate variability from the Iberian Margin
- 12:30 **L.D. Pena González**; S.L. Goldstein; M. Jaume-Seguí; J. Kim; M. Yehudai; J. Farmer; H. Ford; L. Haynes; B. Hönisch; M.E. Raymo; P. Ferretti; T. Bickert
Atlantic Meridional Overturning Circulation dynamics across the Mid-Pleistocene Transition
- 12:45 **M. Peral**; M. Daëron; D. Blamart; F. Bassinot; M. Marino; N. Ciaranfi; A. Girone; P. Maiorano
A new dataset of temperatures for the mid-Pleistocene transition via clumped isotope measurements in foraminifera at Montalbano Jonico (south of Italy) and the implication of local effect

HOTEL ROMAREDA-ROOM2

Pliocene climate variability over glacial-interglacial timescales (PLIOVAR)

Conveners: E. McClymont, A. Dolan, A. Haywood and U. Salzmann

Chairs: E. McClymont, A. Dolan

- 15:00 **A. Haywood**; H. Dowsett; A. Dolan; B. Otto-Bliesner; M. Chandler; D. Lunt; D. Rowley; A. Abe-Ouchi; U. Salzmann; PlioMIP Participants
Achievements and Future Direction of the Pliocene Model Intercomparison Project
- 15:15 **D. Chandan**; R. Peltier
Mid-Pliocene winter temperature pattern not unlike that of recent decades: causes and implications for the 21st century
- 15:30 **B. Risebrobakken**; S. Panitz; P. Bachem; U. Salzmann; S. De Schepper; E. McClymont
Land-ocean interactions at high latitudes during the Pliocene
- 15:45 **E. Dearing Crampton-flood**; F. Peterse; D. Munsterman; T. Donders; J. Sinninghe-Damste
A terrestrial Pliocene-Pleistocene temperature record from North-Western Europe
- 16:00 **M. Alonso-García**; E. Salgueiro; T. Rodrigues; C. A. Álvarez-Zarikian; W. Soares; A. I. Lopes; H. Kuhnert; U. Röhl; A. H.L. Voelker; F. J. Sierro; J. A. Flores; F. Abrantes
Late Pliocene-Early Pleistocene oscillations in Mediterranean Overflow water and climate in the Iberian Margin
- 16:15 **M. Willeit**; A. Ganopolski
Transient modelling of Pliocene climate variability over glacial-interglacial timescales
- 16:30 **F. Schwarz**; U. Salzmann; X. Fang; F. Wu; J. Pross; E. Appel; J. Nie; C. N. Garzzone; F. Cheng; R. V. Heermance
The mid-Piacenzian warm period in the Asian interior: Assessing palaeoclimate variability with high-resolution pollen records from the Qaidam Basin and Kunlun Pass
- 16:45 **J. Nie**; S. Ji; D. O. Breecker
Intensified aridity in northern China during the Pliocene warm periods

ROOM 11 AUDITORIUM (BASEMENT)

Data Stewardship for paleosciences

Conveners: J. Emile-Geay and M. Kucera

- 11:00 **D. Emille**; K. DeLong; H. Kilbourne; B. Williams
'Save our Marine Annually-resolved Proxy Archives'
- 11:15 **N. McKay**; J. Emile-Geay
Linked PaleoData: What is it and what can it do for you?
- 11:30 **M.F. Sanchez Goñi**; S. Desprat; A.L. Daniiau; F. Bassinot; J.M. Polanco-Martinez; S.P. Harrison
The ACER pollen and charcoal database: a global resource to document vegetation and fire response to abrupt climate changes during the last glacial period
- 11:45 **GENERAL DISCUSSION**

Working Group meeting:
Climate History Network
AUDITORIO: ROOM 8
09:00 - 10:30 H.

Working Group meeting:
Floods Working Group
AUDITORIO: ROOM 6
13:00 - 15:00 H.

▶ **POSTER SESSION 09:00 – 10:30** ◀
HIPOSTILA ROOM

SH

- 154 **A. Kumar Warrier**; H. Pednekar; M. Badanal; R. Mohan; S. Gazi
Late Quaternary paleoenvironmental reconstruction using sedimentological parameters and quartz grains from lacustrine sediments of Schirmacher Oasis, East Antarctica
- 153 **G. Falster**; J. Tyler; John Tibby; P. Kershaw; C. Barr; K. Grant; C. Turney
Coherent millennial-scale hydroclimate variability in southern Australasia during the Last Glacial Period
- 152 **S. Patil**; R. Mohan; S. Shetye; S. Gazi; K.-H. Baumann; S. Jafar
Biogeographic distribution of extant Coccolithophores in the Indian Sector of the Southern Ocean
- 151 **M. Mariani**; M.S. Fletcher; S. E. Connor; D. Bowman; H. Cadd; S. Haberle; F. Hopf; G. Jacobsen; K. Saunders; A. Zawadzki
A regional synthesis of climate and fire-driven land cover changes from western Tasmania
- 150 **E. Razanatsoa**; L. Gillson
Relative impact of climate change and human activities on the ecosystems in southwest Madagascar
- 149 **S. Y. Maezumi**; B. Whitney; F. Mayle; J. Iriarte
Reassessing Climate and pre-Columbian Drivers of Paleofire Activity in the Bolivian Amazon
- 148 **A. Nair**; R. Mohan
Quantitative reconstruction of sea ice duration and SST from Southern Ocean: Using diatom transfer function
- 147 **M. Badanal**; A. Warrier; R. Mohan; M. Tiwari
Response of Sandy Lake in Schirmacher Oasis, East Antarctica to the glacial-interglacial climate shift
- 146 **U. de Silva Jayawardena**
Evidences for submerged ancient river courses in Sri Lanka
- 145 **L. M. Thöle**; S. L. Jaccard; A. Martínez-García; J. Lippold; A. Mazoud; E. Michel
Reconstructing dust input and its influence on the efficiency of the biological pump in the Southern Indian Ocean over glacial-interglacial changes
- 144 **J. Gottschalk**; S. Szidat; E. Michel; A. Mazaud; A. S. Studer; L. M. Thöle; A. Martínez-García; S. L. Jaccard
Deglacial ventilation history of the deep South Indian Ocean: new insights from radiocarbon analyses of ultra-small foraminifer samples with an accelerator mass spectrometer (AMS) Mini-Carbon Dating System (MICADAS)
- 143 **G. Siani**; E. Michel; N. Haddam; F. Lamy; R. De Pol-Holz; S. Duchamp-Alphonse
Timing of the last deglaciation in the South Eastern Pacific: sea-surface temperature and glacier dynamic reconstructions
- 142 **H. Eri Amsler**; M. Ikehara; I. N. McCave; S. L. Jaccard
Variations in near-bottom flow of ACC during past glacial cycle in SW Indian Ocean
- 141 **C. Xavier**; A. Leanne; Bout-Roumazelles V.; Cortese G.; Eynaud F.; Garcia-Martinez A.; Jaccard S.; Mazaud A.; Michel E.; Studer A.; Thöle L.; Wilks J.
Variations of the Antarctic Circumpolar Current and environmental conditions in the Kerguelen Islands region, Southern Ocean, during the last 20 kyrs
- 140 **S. Roberts**; L. Foster; E. Pearson; S. Juggins; D. Hodgson; K. Saunders; E. Verleyen
Development of a regional glycerol dialkyl glycerol tetraether (GDGT) temperature calibration for Antarctic and sub-Antarctic lakes
- 139 **T. Ishiwa**; Y. Yokoyama; Y. Miyairi; M. Ikehara; S. Obrochta
Late Quaternary sedimentary environmental change in the Bonaparte Gulf, northwestern Australia

Saturday 13th May 2017

- 136 **M. Mendelova**; A. Hein; N. Hulton
Reconstruction of San Lorenzo Ice Cap, central Patagonia (47.9°S), using geomorphological mapping and cosmogenic surface exposure analysis
- 137 **J. Tibby**; C. Barr; L. Arnold; P. Gadd; A. Henderson; M. Leng; F. McInerney; K. Nielsen; J. Marshall; G. McGregor
An environmental record through Marine Isotope Stage 3 from North Stradbroke Island, sub-tropical Australia
- 136 **H. Cadd**; J. Tibby; J. Tyler; C. Barr; A. Lee; G. Patricia
A multi-proxy assessment of 100,000 years of environmental change in sub-tropical Australia.
- 135 **J. L. Moreno Calderón**; S. L. Fontana; L. D. Rojo; T. Giesecke
Postglacial vegetation dynamics and climate in north-western Patagonia, Argentina
- 134 **E. Thomas**; C. Allen; H. Blagbough; T. Bracegirdle; M. Holloway; L. Sime
Reconstructing winds in the Amundsen-Bellinghousen Sea over the past 300 years
- 135 **B. Lecavalier**; L. Tarasov
Antarctic ice sheet evolution over the last glacial cycle: Exploring the parameter phase-space of the Glacial Systems Model
- 132 **E. Calvo**; L. Quirós-Collazos; H. Bostock; S. Schouten; H. Neil; C. Pelejero
Ocean productivity across the Subtropical Front over the last deglaciation
- 131 **B. L. Valero Garcés**; M. Frugone; F. Barreiro-Lostrés; R. Prego; P. Bernárdez; M. L. Carrevedo; C. Latorre; A. Moreno; J. Sirico Stroup; R. Hamilton Williams; C. Y. Chen; D. McGee
Hydrological variability in Atacama altiplano lakes during the last millennia
- 130 **K. M. Saunders**; B. Perren; L. Sime; C. Butz; S. Roberts; M. Grosjean; D. A. Hodgson
Late Glacial to present Southern Hemisphere westerly wind variability over the Southern Ocean and relationships with sea ice, temperature and carbon dioxide
- 129 **D. Rodbell**; M. Abbott; D. McGee; C. Chen; J. Stoner; R. Hatfield; P. Tapia; M. Bush; B. Valero Garcés; N. Weidhaas; A. Woods; B. Valencia
Initial Results from Deep Drilling of Lake Junin, Perú
- 128 **C. Y. Chen**; D. McGee; J. Stoner; R. Hatfield; R. Woods; N. Weidhaas; I. Tal; Blas Valero-Garcés; P. Miguel Tapia; M. Bush; M. Abbott; D. Rodbell
A U/Th age model for the continuous, >600-kyr-long lacustrine sediment record of Lake Junin, Perú
- 127 **M. Fuentes**; A. Seim; D. Christie; J. C. Aravena; Á. Gutiérrez; H. W. Linderholm
On the large scale controls of tree growth from the southernmost forest in the world
- 126 **R. Manay**; B. Turcq; V. Echevin; D. Gutiérrez; O. Marti; P. Braconnot
Mid-Holocene data-model comparison of paleoceanography and paleoclimate in Peru based on CMIP5 simulations
- 125 **A. M. Abarzúa**; M. S. Tonello; L. Jarpa; A. Martel-Cea
Modern pollen, diatom, and chironomid assemblages as quantitative indicators for the reconstruction of past environmental conditions in the south-central Chile
- 124 **J. Crumpton-Banks**; J. Rae; R. Greenop; A. Burke; A. Mackensen
CO₂ drawdown via Southern Ocean stratification at the onset of the last glacial period
- 123 **V. Flores-Agueveque**; C. Aguirre; M. Rojas; P. Arias; N. Buenning; L. Stott
Analyzing the origin of the southerly wind variability along the eastern edge of the South Pacific Subtropical Anticyclone
- 122 **S. Phipps**; M. Rojas; D. Ackerley; J. Pedro; C. González
The evolution of the Southern Hemisphere climate within transient simulations of the Holocene
- 121 **S. Phipps**
Assimilation of Southern Hemisphere proxy records into a climate modelling framework
- 120 **T. Kasper**; T. Haberzettl; M. Wündsche; P. Frenzel; M. Zabel; K. Kirsten; A. Carr; G. St-Onge; G. Daut; M. Meadows; L. Quick; R. Mäusbacher
Paleoenvironmental changes during the Holocene in the Winter-Rainfall-Zone of South Africa. A continuous, high-resolution, multi-proxy record from coastal lake Verlorenvlei
- 119 **S. Bertrand**; G. Fiers; M. Van Daele; E. Granon; M. De Batist
Sources of organic matter to Lago Castor (Chile, 45°S) during the late Quaternary: implications for the evolution of vegetation and the southern westerlies
- 118 **R. Wilson**; K. Allen; P. Baker; B. Buckley; E. Cook; R. D'Arrigo; M. Grandjean; J. Palmer
Exploring the potential of Blue Intensity using conifer trees from Tasmania and New Zealand
- 114 **N. Van der Putten**; F. Adolphy; A. Mellström; J. Sjolte; C. Verbruggen; R. Muscheler
Holocene Southern Hemisphere Westerly belt variability: investigating the linkage to solar forcing based on a terrestrial record from the Crozet archipelago, Indian Ocean
- 113 **L. Guerra**; E. L. Piovano
The limnogeological record of Melincué Lake (central Argentina) through the last millennium in the South American hydro-climate context
- 112 **J. Bakke**; E. Støren; F. Arnaud; J. Poulenard; E. Malet; P. Sabatier
Late Holocene glacier activity on the Kerguelen Island, South Indian Ocean - reconstructed from distal glacier-fed lake sediments
- 111 **A. Mazaud**; E. Michel; X. Crosta; M. Paterne; G. Isguder; V. Bout-Roumazailles; F. Beny; S. Jaccard
Antarctic Circumpolar Current (ACC) and ocean evolution in the Kerguelen sector during the deglaciation and the last climatic cycles
- 110 **S. T. Kock**; K. Schitteck; A. Lücke; L. Lupo; H. Wissel; H. Vos; F. Schäbitz
Stable isotope records ($\delta^{13}C$, $\delta^{18}O$) as paleoclimate proxies in vascular plant dominated high-Andean cushion peatlands: The Cerro Tuzgle Peatland (24° S, NW Argentina)
- 109 **D. Groff**; J. Gill
Paleoecological reconstruction of a marine-terrestrial linkage in the Falkland Islands
- 188 **E. Michel**; N. Haddam; G. Siani; F. Dewilde
Southern Ocean deep water changes during the last deglaciation: Antarctic divergence upwelling and AAIW formation in the South-East Pacific sector
- 187 **A. Araneda Castillo**; P. Jana-Pinninghoff; C. Vergara; D. Álvarez; F. Torrejon; N. Fagel; M. Aguayo; R. Urrutia
A Late-Pleistocene chironomid record from Northern Patagonia: does it reflect similar trends than classical proxies?

▶ Saturday 13th May 2017

- 186 P. Moreno; J. Videla
Vegetation, climate and fire-regime shifts in northwestern Patagonia since 24,000 yr bp
- 185 M. C. Guarinello de Oliveira Portes; H. Behling
The last 600 cal yr BP ecosystems dynamics at Serra da Bocaina National Park, Southeastern Brazil
- 184 D. Álvarez; J. Cárdenas; P. Pedreros; F. Jana; F. Torrejon; A. Aranedá; R. Urrutia
Holocene hydrological variability in Northern Chile using $\delta^{18}O$ signal on freshwater ostracods and mollusks
- 183 K. Schitteck; S. Kock; Lücke A.; Ohlendorf C.; Hense J.; Kulemeyer J.; Lupo L.; Schábitz F.
High-altitude peatland records of environmental changes in the central Andes over the last 3000 years
- 182 M. E. de Porras; A. Maldonado; M. Carré; A. Boom
Disentangling the late pleistocene tropical-extratropical rainfall systems interaction in the southern Atacama desert
- 181 A. Maldonado; M. E. de Porras
Tracing the northern edge of Southern Westerlies dynamics as an indicator of precipitation seasonality in Subtropical Chile since the Late Pleistocene
- 180 L. Oppedal; J. Bakke; Ø. Paasche; J. Werner
Cirque glacier rejuvenation and retreat on South Georgia since ~10 ka BP
- 179 S. T. Kock; K. Schitteck; A. Lücke; A. Maldonado; B. Mächtle
Modern environmental implications and Late Holocene development derived from a vascular plant dominated high-elevation cushion peatland in the Chilean Andes (27° S)
- 178 L. Vilanova; A. Tripaldi; E. L. Piovano; S. L. Forman; J. Chiesa; E. Jobbagy; L. D. Rojo; G. Heider; K. Schitteck
Vegetation and environmental changes related to hydroclimate regimes in Western Pampas, Argentina, over the last 1.5 kyr.
- 177 M. L. Carrevedo Goytia; C. Latorre; V. McRostie; M. Pfeiffer; E. M. Gayó; C. M. Santoro; R. Amundson
Unprecedented diatoms records show late Quaternary paleolake environments along the hyperarid Atacama Desert, northern Chile
- 176 F. Fernandoy; C. Lodis; F. Lambert; M. Schwikowski; T. Jenk
Preliminary results on the glacio-chemical investigation of firm cores from the central Chilean Andes
-
- MPT**
- 55 A. Ganopolski; M. Willeit; R. Calov; V. Brovkin
Simulation of glacial cycles before, across and after MPT
- 56 E. Wolff; J. Chappellaz; H. Fischer; T. van Ommen
Synthetic ice core records of the past 1.5 million years
- 57 S. Felder; A. C. G. Henderson; M. J. Leng; T. Wagner
The mid-Pleistocene transition in a marginal sea: A high resolution, multi-proxy study in the southern Sea of Japan (IODP Exp. 346, Site U1427)
- 58 S. Worne; S. Kender; G. Swann; Z. Stroynowski; M. Leng; C. Ravelo
Investigating sea ice, productivity and nutrient utilisation in the Bering Sea over the Mid-Pleistocene Transition (0–1.2 Ma)
- 59 P. Bajo; R. Drysdale; J. Woodhead; J. Hellstrom; G. Zanchetta; T. Rodrigues; A. Voelker; E. Wolff; P. Ferretti; C. Spoti; A. Fallick
Radiometric dating of glacial terminations through the MPT
- 60 A. H. L. Voelker; T. Rodrigues; M. Padilha; F. J. Jimenez-Espejo; A. Bahr; E. Salgueiro; A. Rebotim; C. Cavaleiro; U. Roehl; H. Kuhnt
Impressions of the Mid-Pleistocene Transition in Surface and Mediterranean Outflow Water Records from the Gulf of Cadiz, Portugal
- 61 J. Müller; O. Romero; E. Cowan; E. McClymont; M. Forwick; H. Asahi; C. März; I. Suto; A. Mix; J. Stoner
Mid Pleistocene productivity events in the Gulf of Alaska (NE Pacific)
- 62 L. Haynes
Deep Equatorial Atlantic Carbon Storage Across the Mid-Pleistocene Transition
- 63 H. Detlef; S. Belt; S. Sosdian; L. Smik; C. Lear; I. Hall; P. Cabedo-Sanz; K. Husum; S. Kender
Sea ice dynamics across the Mid-Pleistocene: Insights from the Bering Sea
- 64 J. Holtvoeth; E. Lyons; K. Panagiotopoulos; R. D. Pancost
Biomarkers reflecting terrestrial ecosystem response to pre-MPT climate change in the Western Balkans (Ohrid Basin; Albania, Macedonia)
- 65 P. Kershaw; K. Sniderman; B. Wagstaff; P. O'Sullivan
Terrestrial palaeoecological evidence of the Mid-Pleistocene Transition in southeastern Australia
- 66 A. Schmitt; M. Elliot; C. La; A. Movellan; A. Foan; S. Jorry; J. Borgomano
The variation of the carbonate production during the MPT: Test of the past seasonality and inter-annual variability of water column temperatures using the new insights into Mg/Ca ratios of single foraminifera shells of planktonic species *G. ruber* by LA-ICPMS
- 67 T. Rodrigues; B. Martrat; M. Casado; J. O. Grimalt; M. Alonso García; M. Rufino; D. Hodell
Tracking major climate changes in the southwestern Iberian Margin during Mid Pleistocene Transition
- 68 Z. Stroynowski; F. Abrantes; E. Bruno
Climate reorganisation during the Mid-Pleistocene Transition: the role of moisture delivery to high latitude sites such as the Bering Sea
- 69 A. Cortina; J. O. Grimalt; M. Casado; B. Martrat; F. Sierro; J. A. Flores; I. Cacho; M. Canals
Bipolar climate seesawing along the last 800,000 years
- 70 M. Yehudai; J. Kim; M. Jaume-Seguí; S. L. Goldstein; L. D. Pena; L. Haynes; B. Hönisch; J. Farmer; H. Ford; M. Raymo; T. Bickert
The Equatorial Atlantic Ocean Thermohaline Circulation Across the Mid-Pleistocene Transition
- 71 A. P. Hasenfratz; S. L. Jaccard; A. Martínez-García; D. A. Hodell; D. Vance; S. M. Bernasconi; H. (Kikki) F. Kleiven; G. H. Haug
Evolution of Antarctic Ocean stratification through the glacial of the MPT
- 72 J. Kim; M. Yehudai; M. Jaume-Seguí; S. L. Goldstein; L. D. Pena; L. Haynes; H. Ford; B. Hönisch; M. Raymo
Reconstruction of the North Atlantic end-member of the AMOC across the Mid-Pleistocene Transition

HIST

- 85 I. Semenova
Assessment of variability and distribution of drought over the Kievan Rus' territories during the 11-17 centuries

- 86 **R. Przybylak**; P. Wyszynski
Air temperature in Novaya Zemlya Archipelago and Vaygach Island from 1832 to 1920 in the light of early instrumental data
- 87 **D. Klaus**; P. Wyszynski; K. Dethloff; R. Przybylak; A. Rinke
Evaluation of 20CR reanalysis data based on model results and observations from Franz Josef Land during the ETCW
- 88 **G. Demaree**; R. Verheyden
Waltherè Victor Spring, a forerunner in the study of the greenhouse effect, at the University of Liège, Belgium
- 89 **E. Tejedor**; M. Á. Saz; M. De Luis; M. Barriendos; R. Serrano-Notivol; K. Novak; L. A. Longares; E. Martínez-Del Castillo; J. M. Cuadrat
Advances in the understanding of the climate evolution of the Iberian Peninsula since AD 1700 inferred from tree-ring records and documentary evidence
- 90 **N. Rudaya**; S. Krivonogov; S. Zhilich; D. Otgonbayar; L. Nazarova
Late Holocene landscape development in Southwestern Siberia and Northwestern Mongolia: climate, vegetation and humans.
- 91 **G. Plunkett**; G. Swindles
Do sub-annual climate impacts on human populations leave a detectable legacy in palaeoenvironmental archives? A tephra-dated interrogation of settlement in a marginal environment
- 76 **L. Sadori**; A. Masi; C. Giraudi; M. Magny; E. Ortu; G. Zanchetta; A. Izdebski
Environmental, historical and archaeological evidence draw the history of Sicily during the last 2000 years
- 77 **A. García-Alix**; J. L. Toney; G. Jiménez-Moreno; C. Pérez-Martínez; L. Jiménez; M. Rodrigo Gámiz; R. S. Anderson; D. Peña-Angulo; J. C. Gonzalez-Hidalgo
Global warming evidence from a long chain diol record of an alpine lake in southern Iberia
- 78 **C. Camenisch**
Wildfires and desiccated fountains: Heat and drought in 1473
- 82 **J. Zheng**; M. Wu; Q. Ge; Z. Hao; X. Zhang
Decadal Variability of Summer Precipitation over Eastern China in Observation, Historical Reconstruction and CESM Simulation
- 83 **F. Jana-Pinninghoff**; F. Torrejon; A. Araneda; A. Stehr Gesche
Reconstruction of precipitation regime since 1600 AD in Santiago de Chile (33° S) using documentary records as proxy.
- 84 **R. T. Patterson**; G. T. Swindles
The contribution of "Citizen Scientists" to determining the influence of ocean-atmospheric oscillations on lake ice phenology in eastern North America
-
- PLIO**
- 155 **M. Stockhecke**; J. Kingston; C. Beck; E. Brown; A. Cohen; A. Deino; and the HSPDP Drilling Project research team
Late Pliocene East African climate variability reconstructed from the Baringo Basin (Kenya) HSPDP drill core
- 156 **F. Grimmer**; L. Dupont
Pliocene vegetation and hydrology changes in western equatorial South America
- 157 **Y. Sun**; G. Ramstein; T. Zhou
East Asian summer monsoon dynamics in past and future warmer climates: mid-Pliocene versus RCP4.5 scenario
- 158 **C. van der Weijst**; J. Winkelhorst; F. Sangiorgi; F. Peterse; G.-J. Reichert; A. van der Meer; M. Ziegler; L. Lourens; A. Stuïjs
Tracing late Pliocene Eastern Equatorial Atlantic ocean temperatures and water-column structure
- 159 **A. M. R. Aubry**; A. de Vernal
Palynological records of the Labrador Sea during the intensification of the North Hemisphere glaciation
- 160 **A. H. L. Voelker**; H. Evans; J. Channell; D. A. Naafs; R. Stein
North Atlantic surface and deep-water records reveal millennial-scale variations during the Pliocene Warm Period
- 161 **U. Salzmann**; S. Panitz; S. De Schepper; B. Risebrobakken; A. Dolan; A. Haywood
Pliocene vegetation and climate evolution in Arctic Norway controlled by North Atlantic Current variability
- 162 **Y. Smith**; D. Hill; A. Dolan; A. Haywood; H. Dowsett
Icebergs in the Nordic Sea during the Pliocene
- 163 **C. Caroline**; S. De Schepper; K. Fahl; R. Stein
Seasonal sea ice in the Iceland Sea during the Late Pliocene
- 164 **J. N. Pérez-Asensio**; M. P. Mata; E. Samankassou; G. Jiménez-Moreno; J. C. Larrasoña; F. J. Sierra; Á. Salazar; J. M. Salvany; J. Civis
Glacial-interglacial and insolation-controlled climate and environmental variability on early Pliocene deposits from the lower Guadalquivir Basin (SW Spain)
- 165 **E. McClymont**; M. L. Sanchez-Montes; T. Caley; L. Rossignol; Expedition 361 Scientists
Aguilas leakage to the Atlantic Ocean during the Pliocene
- 166 **E. McClymont**; A. Elmore; B. Petrick; M. Greaves; H. Elderfield
Late Pliocene variability in Antarctic Intermediate Water properties recorded in the Southeast Atlantic
- 167 **A. Dolan**; A. Haywood; C. Prescott; J. Pope; D. Hill; F. Howell; J. Voss
Sources of Uncertainty in Modelling mid-Pliocene Arctic Amplification
- 168 **C. Zorzi**; A. de Vernal; A. Rochon
Paleoceanographical conditions of North Pacific Ocean during the Pliocene based on organic-walled
- 169 **R. Feng**; B. Otto-Bliesner; T. Fletcher; A. Ballantyne; E. Brady; C. Tabor
Late Pliocene climate sensitivity estimated with the Community Earth System Model version 2
- 170 **G. Swann**; C. Kendrick; A. Dickson
Late Pliocene diatom carbon isotope reconstructions of pCO₂ in the Subarctic Pacific Ocean
- 171 **N. Tan**; C. Dumas; G. Ramstein; J.-B. Ladant; C. Contoux
Towards Greenland Glaciation: cumulative or abrupt transition?
- 172 **H. Ford**; A. C. Ravelo
Pliocene estimates of tropical Pacific temperature sensitivity to radiative greenhouse gas forcing
- 173 **R. Feng**; B. Otto-Bliesner; T. Fletcher; A. Ballantyne; F. Li; S. Tilmes
Contributions to Pliocene Arctic warmth from a clean atmosphere and enhanced forest fire emissions

HUM

- 25 V. Rull; A. Lara; M. J. Rubio-Inglés; S. Giral; V. Gonçalves; P. Raposeiro; A. Hernández; G. Sánchez; D. Vázquez-Loureiro; R. Bao; P. Masqué; A. Sáez
Vegetation changes and human impact in the Azores Islands during the last ~700 years: the Lake Azul pollen record
- 26 T. Vegas-Vilarrúbia; P. Corella; N. Pérez-Zanón; T. Buchaca; M. C. Trapote; P. López; J. Sijgró; V. Rull
Historical shifts in oxygenation regime as recorded in the laminated sediments of lake Montcortès (Central Pyrenees)
- 27 N. Dubois; J. Jacob
Molecular biomarkers of anthropic impacts in natural archives
- 28 G. Camperio; S. N. Ladd; R. Lloren; M. Prebble; N. Dubois
Molecular traces of Anthropogenic and Climatic impact in Remote Oceania (MACRO)
- 29 Y. Poher; P. Pone; F. Guiter; V. Andrieu-Ponel; F. Médail
Ecosystem trajectory of Cavallo Island over the last 7000 years driven by human activities and relative sea-level rise (Corsica, France)
- 30 S. Riera; R. Julià; Y. Miras; J. M. Palet; T. Polonio; A. García; H. Orengo
Climate variability, human use and landscape change of high mountain environments: Coma de Vaca and Ter valleys, Eastern Pyrenees
- 31 A. Zerboni; S. Biagetti
The termination of the Africa Humid Period: review of Saharan and sub-Saharan climatic and archaeological data and implications for the Anthropocene
- 32 C. Schwörer; A. Hafner
Neolithic and Bronze Age pastoralism affects mountain forest dynamics in the Swiss Alps
- 33 S. V. Hansson; F. De Vleeschouwer; R. Bindler
Legacy of iron mining in central Sweden: pervasive impact of mining and land use over 1000 years
- 34 M. Haas; N. Belkina; D. Subetto; N. Dubois
How politics shape agricultural landscapes: The plant wax record of Lake Lavijärvi, Russia Karelia
- 35 R. S. Anderson; A. Ejarque
Pollen, NPP, Charcoal and Historical Documents Record Late-Holocene and Historical Change at Coastal Wetlands Along the Central California Coast, USA
- 36 M. Cremaschi; A. M. Mercuri; G. Zanchetta; A. Florenzano; P. Torri; A. Zerboni
Was a cold/arid spell driving the collapse of the Terramare culture in the late Bronze Age of Northern Italy?
- 37 P. Rivas-Ruiz; M. Cao; J. P. Corella; A. Callegaro; T. Kirchgorg; C. Barbante; A. Rosell-Mele
A high resolution multiproxy fire reconstruction of an Eastern Iberian Lake, Estany de Montcortès, during the last millennium.
- 38 E. Brisset; F. Guiter; C. Miramont; T. Troussier; P. Sabatier; Y. Poher; R. Cartier; F. Arnaud; E. Malet; E. J. Anthony
The overlooked human influence in the Late Holocene great acceleration of floods in the European Alps
- 46 D. Veres; J. Longman; C. Chauvel; Z. Atlas; A. Haliuc; V. Ersek
Millennial-scale geochemical records of anthropogenic impact and natural climate change in the Romanian Carpathians during the Holocene
- 47 M. Madella; S. Biagetti; E. Bortolini; C. Lancelotti; A. Zerboni; D. Zurro
Living at the edges? Human responses to the onset of the post-Holocene Climatic Optimum aridity
- 48 R. Olga; N. Yelena
Evidence for human impact on natural landscapes of Upper Oka Region, Central Russian Plain, during Late Holocene as revealed from a case study of peat section from Orlovsky Polesye National Park

FLUX

- 95 N. Primmer; M. Jones; S. Metcalfe
Tropical climate dynamics through the Holocene using varve analysis from Yaal Chac, Mexico
- 108 Y. Lu; N. Waldmann; D. Nadel; S. Marco
Increased sedimentation following the Neolithic Revolution in the Southern Levant
- 107 Baud A.; Jenny J.-P.; Francus P.; Gregory-Eaves I.
Lake sedimentation rates over the Anthropocene: A quantitative synthesis
- 106 Z. Yao; X. Shi; Q. Liu; J. Cruz Larrasoña; Y. Liu
Glacial-interglacial sedimentation in the Bohai Sea, China during the last 1 Ma: evidence from magnetostratigraphic and astronomical tuning dating core
- 102 M. Żarczyński; A. Bonk; T. Goslar; W. Tylmann
Sediment fluxes in Lake Zabińskie (northeastern Poland): A 2000 year long perspective from annually laminated sediment core
- 101 W. Tylmann; A. Bonk; J. Pytel; M. Żarczyński
Modern sediment fluxes in Lake Zabińskie (northeastern Poland): A perspective from sediment trapping and limnological measurements
- 100 S. Dreibrod
Holocene sediment fluxes by running water in central Europe
- 99 H.-J. Pan; M.-T. Chen
Sediment Contribution in Different Spatial and Temporal Scale off Southwestern Taiwan since 50 kyr BP based on VNIR Reflectance Derivative Spectroscopy
- 98 A. Medialdea; P. González-Sampériz; A. Moreno; J. Aranbarri; E. Iriarte; B. L. Valero-Garcés
Palaeoenvironmental evolution and sediment fluxes of Conquezueta lacustrine basin during the last glacial cycle based on luminescence dating and multiproxy analyses
- 97 T. Soo Chang; J. Cheul Kim; C. Soo Son; S. Soo Chun
Missing the coastal deposits from 3-6 ka along the macrotidal shore, west coast of Korea (eastern Yellow Sea)

REG

- 1 H. Andango; P. Omond
Impacts of Climate Change and Variability on Food Security in Kenya.

- 2 [S. Garcés-Pastor](#); N. Cañellas-Boltà; A. Clavaguera; M. A. Calero; T. Vegas-Vilarrúbia
Palaeoenvironmental changes in Bassa Nera pond during the last millennium (Central Pyrenees)
- 3 [B. Kriesche](#); M. Chaput; R. Kulik; K. Gajewski; V. Schmidt
Methodology for studying continental-scale Holocene human-vegetation interactions using archaeological and paleoenvironmental data
- 4 [N. J. Velázquez](#); L. S. Burry; M. H. Fugassa
Pollen sources in studies of camelid coprolites from Patagonia (Argentina)
- 5 [López-Sáez J. A.](#); Abel-Schaad D.; Iriarte E.; Alba-Sánchez F.; Pérez-Díaz S.; Guerra-Doce E.; Delibes de Castro G.; Abarquero Moras Francisco J.
A palaeoenvironmental perspective of prehistoric salt exploitation in the Villafáfila wetlands (Tierra de Campos, Zamora, Northern Iberia)
- 6 [R. Luelmo-Lautenschlaeger](#); S. Pérez-Díaz; J. A. López-Sáez
Resilient landscapes in isolated mountain areas. The late Holocene in Montes de Toledo (Spain)
- 7 [U. Lombardo](#); L. Rodrigues; N. Zihlmann; J. Ruiz-Pérez; H. Veit
Pre-Columbian settlement patterns and landscape modification in the Bolivian Amazon since the early Holocene.
- 8 [E. Dietze](#); M. Theuerkauf; M. Slowiński; CEL fire synthesis team
Holocene fire history of the Central European lowlands driven by interactions of climate, vegetation and land use change
- 9 [P. Gell](#); M. Reid
Human-climate-environment interactions in the Murray River catchment: the case for a multi-faceted approach to waterway restoration
- 10 [S. Pérez-Díaz](#); S. Nuñez de la Fuente; J. A. López
Human-Environment interactions in Northern Iberian Peninsula during the Middle Holocene: the role of farmers in the landscape configuration
- 11 [F. Barreiro-Lostres](#); A. Moreno; S. Giral; M. Morellón; P. González-Sampériz; P. Mata; P. Corella; G. Gil-Romera; M. Leunda; J. Aranbarri; C. Pérez; B. Valero-Garcés
Paleohydrology, climate and land-use changes during the last two millennia in the Iberian Peninsula
- 12 [E. Kyazike](#)
Human environmental interactions during the later stone age and iron age interface at Kansyore Island Western Uganda
- 13 [A.-K. Trondman](#); B. Pirzamanbein; M.-J. Gaillard; J. Lindström; A. Poska
Quantitative land-cover change in space and time over the Holocene in Europe for climate modelling: pollen-based reconstructions using the REVEALS model and statistical modelling for continuous gridded descriptions of past vegetation
- 14 [M. Jones](#); L. Maher; T. Richter; Danielle Macdonald
Epipalaeolithic human-climate-environment interactions in eastern Jordan: can local noise inform a regional signal?
- 15 [M. L. Cárdenas](#); V. Iglesias; J. M. Capriles; C. Latorre; J. Freeman; D. Byers; J. Finley; M. Cannon; A. Gil; G. Neme; E. Robinson; J. DeRose
PEOPLE 2K (PalEOclimate and the PeopLing of the Earth): Investigating tipping points generated by the Climate-Human Demography-Institutional nexus
- 16 [M. Madella](#); A. M. Bauer; K. Morrison
Land Use 6k: A First Assessment of South Asia
- 17 [C. von Scheffer](#); I. Unkel; F. De Vleeschouwer
Environment, Climate and Human impact in the Central Alps since the last deglaciation: Small-scale mires as sedimentological and geochemical archives
- 18 [E. Marinova](#); B. De Cupere; D. Frémondeau; P. Georgiev; I. Hristova; K. Nikov; H. Popov
Landscape and land use in south-eastern Bulgaria during the Late Bronze Age and Iron Age (1600 BC to 100/50 BC): a synthesis of bioarchaeological and geoarchaeological data
- 19 [M. Theuerkauf](#); J. Couwenberg
The extended downscaling approach - using forward modelling to reconstruct vegetation patterns within landscapes
- 20 [R. Ssemulende](#)
Environmental variability of the Sangoan toolmaker at Sango Bay southern Uganda.
- 21 [K. Klein Goldewijk](#)
Anthropogenic land use change during the Holocene; HYDE 3.2
- 22 [M. L. Cárdenas](#); Bronwen Whitney
The contribution of Palaeoecology to assess legacy of pre-historic human land-use and climate change on modern vegetation
- 23 [R. Hughes](#)
Land use in Classical Antiquity: How good are the global datasets? A case study in Roman Switzerland (1st century B.C.E. - 3rd century C.E.)

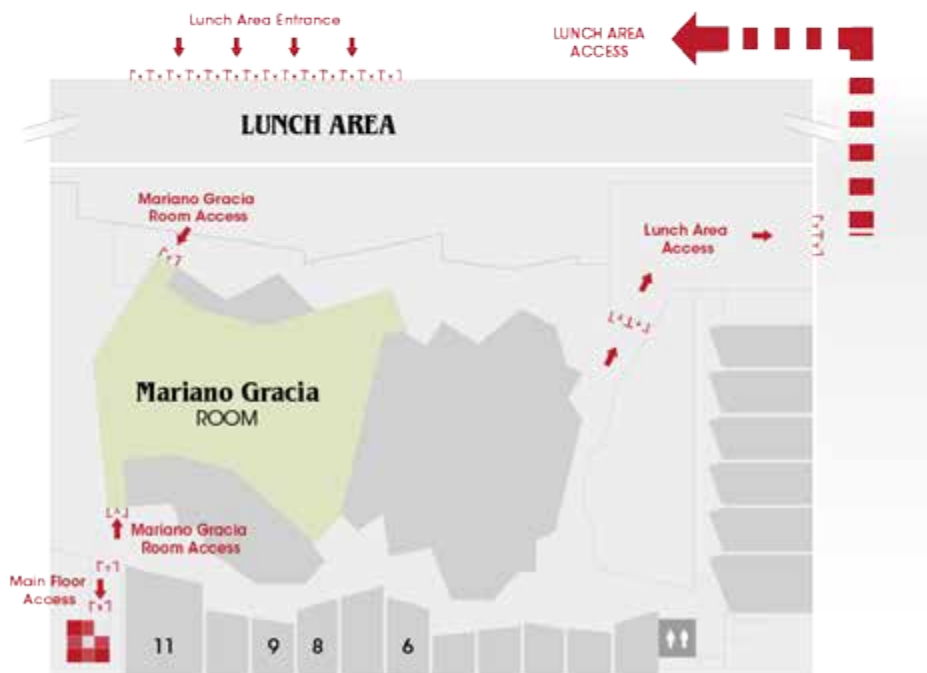
DATA

- 39 [D. Kaufman](#); PAGES 2k Consortium
Data stewardship in the PAGES 2k project
- 40 [L. Jonkers](#); E. Oliver; M. Stefan; K. Michal
The PalMod paleoclimate data synthesis: curated database of paleoceanographic records over the last glacial cycle
- 41 [F. Arnaud](#); C. Pignol; P. Stéphane; M. Rouan; E. Godinho; B. Galabertier; A. Caillo
From core referencing to data re-use: two French national initiatives to reinforce paleodata stewardship (National Cyber Core Repository and LTER France Retro-Observatory)
- 42 [C. Pignol](#); F. Arnaud; E. Godinho; B. Galabertier; A. Caillo; I. Billy; L. Augustin; M. Calz; D.-D. Rousseau
The French NATIONAL CYBER CORE REPOSITORY: a user-oriented approach to promote the referencing of scientific cores
- 43 [A. Krishnamurthy](#); P. Srinivasan; P. Venkatesan; K. Muthukrishnan
Paleoecological database for South Asia: overview and challenges
- 44 [J.-Y. Peterschmitt](#); S. Denvil; G. Levasseur; M. Greenslade; A. Ben Nasser
The PMIP4-CMIP6 Database: using standards to successfully share and use climate model data
- 45 [J. Ni](#); M. Liao; K. Li
Chinese Pollen Database: Current status and future plans

MAIN FLOOR



-1 FLOOR



PRACTICAL INFO

GENERAL INFORMATION

Venue: Auditorio de Zaragoza and Romareda Hotel

Four rooms for oral sessions in the Auditorium: Mozart, Luis Galve, Mariano Gracia and Room 11

Two rooms for oral sessions at the Romareda Hotel: Room 1 and Room 2

Several small rooms for group meeting in the Auditorium basement

Please be sure to wear your accreditation during the Congress

Wifi services are available for public access. User name: pages2017; Password: pages123

How to get there:

By tram – The tram is very convenient as runs North – South, through downtown and with stops close to the Auditorium (Plaza Emperador Carlos V and Romareda)

By bus – Line 35, 53 (Plaza Emperador Carlos V Station) and Line 42 (Isabel La Católica /Romareda Station)

FARES: Single Ticket: 1,35€/journey Bus Card: 7€ (2€ for deposit and 5€ charge for trips). If you use the card the fare is 0.74 €/journey.

A bus card is the way to go if you are going to use public transportation everyday. You can use the card with all the buses and also with the tram line. Bus Cards can be purchased at the AUZSA Customer Service Office at the Independencia Shopping Center (Centro Comercial Independencia, Paseo de la Independencia, 24-26, 50004 Zaragoza, Floor -1) and an AUZSA kiosk in Plaza Aragón.

By Taxi – You can hail a cab in the street or call to a taxi cab company (numbers below). Most of them, cash only, but ask the driver in advance.

Technical Secretariat

Technical Secretariat will be located in the Hipostila Area during the conference hours.

Contact Technical Secretariat at E-mail: pages2017@viajeseci.es; Telephone: 638 94 22 17

Contribution and attendance certificates will be sent by email after the event closed.

Registration

The Registration Desk will be located at the Auditorium. The opening hours are:

- Tuesday 9th May, at the Multiusos Hall, 18:00 – 21:00
- 10th – 13th May, at the Hipostila Room from 8:00 – 19:00

Attendees should check in at the registration desk to receive a program, name badge, and other registration materials.

Posters

Poster sessions will be held at the Hipostila Room. They should be put up during the morning of your poster session, before 10 am, on the board labeled with your poster number.

All posters must be removed immediately after each session. Any poster still on display after 19:30 will be discarded by the organizers.

Presenters should be in attendance during the allocated time for their session.

Talks

Talks will be held at the Auditorio and the Hotel Romareda in parallel sessions.

Each talk will be allocated 15 minutes, which includes 3 minutes for discussion.

Each room will be equipped with a laptop. Presentations can be made using Powerpoint, Keynote or Adobe software.

All talks must be uploaded the day before being presented.

You can check your presentation in the "Speakers/Presenters Room" located in Room 9 in the Auditorium basement. Please make use of this facility before your talk, as sometimes transferring to different systems/computers can cause display problems.

Please bring your presentation to the registration desk on Tuesday 9 May, 18:00-19:30 (during the Icebreaker, for talks given on Wednesday) and from Wednesday to Saturday from 08:00-19:00. Please go to the registration desk to upload your presentation the day before your scheduled talk, not earlier.

Coffee breaks and Lunches

Coffee breaks will be served in the Exhibition & Posters Area (Hipostila Area) between 10.30h to 11.00h

Lunches will be served in the Multiusos Room (Lunch Area) 13.00h - 15.00h, buffet style.

To access the Lunch Area you have to go outside the Auditorium, turn left and follow the signs to the lower level. You can also access from the basement level.

Lunch Area is wifi-free to encourage more personal interactions among attendees.

Those with special dietary requirements will have alternative menus and a designated area to get them. They will have to show their identification cards to the catering team.

Refreshments will be served during the evening poster sessions: 17:00-19:00 (May 10 th -12th)

Insurance

The organizers cannot accept liability for personal accident, loss, or damage to private property, which may be incurred as a result of the participation in the PAGES meeting 2017.

Useful Telephones

International code: 00; Spanish code: 34

Emergencies: 112

Police: 092,091

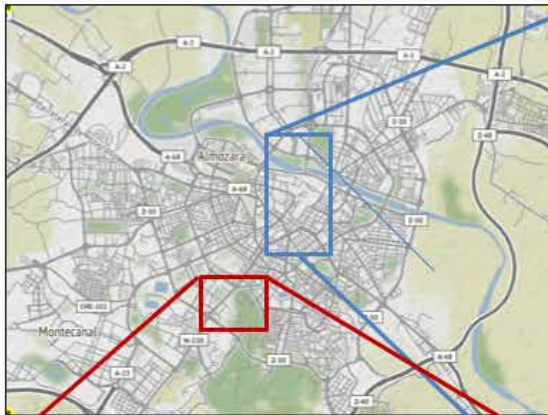
Taxis: +34 972 42 42 42, +34 976 75 75 75, +34 976 38 38 38

Bus station: +34 976 70 05 99

Renfe (Spanish Railway) – Customer service: +34 902 320 320

AENA (Spanish airports) - +34 902 404 704 / +34 91 321 10 00





- 1 Auditorium (main venue)**
Eduardo Ibarra St.,3, 50009 Zaragoza
- 2 Hotel Romareda**
Asin y Palacios, 13, 50009 Zaragoza
- 3 Cerbuna Cineforum**
Pedro Cerbuna, 12, 50009 Zaragoza
- 4 Las Ocas terrace**
Parque Grande José Antonio
Labordeta, 50006 Zaragoza
- 5 Patio de la Infanta**
San Ignacio de Loyola, 16, 50008
Zaragoza
- 6 Aura Restaurant**
Avda. de José Atarés, 7, 50018
Zaragoza

SOCIAL EVENTS

► **Tuesday, 9 May**



19:30-22:00 Icebreaker event

Meet and interact with fellow OSM participants in the Multiusos Room:

Auditorio de Zaragoza

"Multiusos Room/Lunch Area"

Eduardo Ibarra 3

50009 Zaragoza

www.auditoriozaragoza.com (in Spanish)

Drinks and finger food will be provided.

No registration necessary.

► **Wednesday, 10 May**



19:30-22:00 Football (soccer) match

Registration to play on one of the two teams competing for the prestigious PAGES CUP is open at the Registration desk.

The match will be held at:

"Los Ocas" Terrace Bar & Playing Field

José Antonio Labordeta Park

(behind the conference venue, approx. 15 minutes walk)

Food and drinks will be available at the kiosk. A free beer and further discounts will be provided.



► Thursday, 11 May

19:30-21:30 Film night

Watch Leonardo Di Caprio's climate change documentary "Before the Flood"

**Location: Cine Club Cerbuna
C/Pedro Cerbuna 12
50009 Zaragoza**

The evening will be conducted in Spanish. Entry is on a "first-come, first-served" basis. The movie will be introduced by Zaragoza television weather presenter Eduardo Lolumo and the discussion after the movie will be led by Penélope González-Sampériz, IPE-CSIC. The film will be subtitled in Spanish.



► Friday, 12 May



20:30 Gala dinner

The conference dinner, for registered participants, will be held at:

**Aura Restaurante
Avenida de José Atarés 7
50018 Zaragoza**

► Saturday, 13 May

19:30-21:30 Round-table discussion

The theme of this evening's discussion, which will be conducted in Spanish, is "Retos del cambio climático: de lo global a lo local" (Climate change: from global to local challenges).

**Location: Patio de la Infanta (Salón Aragón)
C/San Ignacio de Loyola 1650008 Zaragoza**

Invited speakers:

- *William Fletcher, scientist from the University of Manchester.*
- *Jose Ramón Picatoste, representative from the Climate Change National Office.*
- *Consejero Joaquín Olona, from the Aragon Government (Department of Rural Development and Sustainability).*
- *Concejala Teresa Artigas, from the Zaragoza City Hall (Agency of Environment and Sustainability).*
- *The discussion will be led by Ana Moreno, IPE-CSIC.*

You might like to visit the Renaissance Patio during your time in Zaragoza. Entry is free.



▶ Short excursion (1 day: 14th May 2017)

Palaeoflood and historical flood records of the Segre River

Chairs: Gerardo Benito, Mayte Rico, Pablo Corella, Carles Balasch, Mariano Barriendos

Departure: 08,00 h. from Auditorio (Venue)

The Segre river is a Spanish Mediterranean river fed in the Pyrenees with a mixed runoff from rainfall and snowmelt sources. The palaeoflood hydrology of the Segre River was reconstructed from slackwater deposits, and supported with historical information and instrumental data. Extreme floods take place during the spring and more frequently autumn season according to the historical flood information. This field trip will visit some characteristic sites with historical flood marks and palaeoflood sedimentary records providing evidences on the timing and magnitudes of the largest flood events since the Late Pleistocene. Most of the sedimentary evidences are located along a 14 km-reach showing an excellent sedimentary records of palaeofloods deposited at six sedimentary environments, namely overbank, expansion, constriction, slope obstacles, valley-side alcoves, and caves. The visit requires a 5-6 km walk along a dirt road of low difficulty.



Geoarchaeology in the Holocene ephemeral streams of the Huerva River (Central sector of the Ebro Basin)

Chairs: José Luis Peña-Monné, Fernando Pérez-Lambán, M^a Marta Sampietro-Vattuone, David Badia-Villas, Jesús Picazo-Millán

Departure: 09,00 h. from Auditorio (Venue)

The Huerva River is a tributary of the Ebro River, located in the central sector of the Ebro basin, close to Zaragoza city. Regional geologic bedrock is made of Miocene gypsum. Along the lower stretch of the Huerva River valley Holocene morphosedimentary archives, including slopes, infilled valleys (locally named vales)

and alluvial fans acquire great geoarchaeological relevance in a very sensitive geomorphic scenario. The results of different geomorphological, sedimentary, pedogenic, palynological and chronological (Luminiscence and Radiocarbon) approaches and archaeological studies allow reconstructing the paleoenvironmental evolution and human settlement since the Mesolithic to present. Two sedimentary aggradation phases in the slopes and three stages in the ephemeral streams were differentiated. The field trip shows several well studied geoarchaeological sedimentary archives. It is an excellent framework to discuss the role of the climate and the human action in the evolution of these semiarid colluvial alluvial systems.



Pineta valley and La Larry paleolake: a juxta-glacial lacustrine record during the last glacial period (Pyrenees, Ordesa – Monte Perdido National Park)

Chairs: Angel Salazar, M^a Pilar Mata, María Leunda, Miguel Bartolomé

**Departure: 07,00 h.
from Meliá Zaragoza Hotel
Av. de César Augusto, 13,
50004 Zaragoza**

La Larri is a hanging glacial valley that drains through a spectacular set of waterfalls (Ordesa y Monte Perdido National Park, Pyrenees). A lateral moraine, deposited by the main glacier (Pineta valley), facilitated the deposition of juxta-glacial



lacustrine sediments. This lacustrine record begins shortly before the global Last Glacial Maximum, but unequivocally after than the last local glacial maximum, and ends at the beginning of the Holocene due to the filling up of the lake. The trip starts and ends in Zaragoza and includes a short hike (2:30 h walk, 300 m of ascent). Walking shoes, sunglasses, sun block and a hat will be needed, and also a light waterproof storm jacket in the backpack (Hope that it will be inside all the day!).

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