## MEETING PROGRAM

### TUESDAY, 12 FEBRUARY

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>19:00</td>
<td>Ice breaker at Cidade de Goa</td>
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### WEDNESDAY, 13 FEBRUARY

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>09:00-10:30</td>
<td><strong>BLOCK 1 - Welcome &amp; Plenary Session (Grande Sala)</strong> Chair: S. Rajan</td>
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<tr>
<td>09:00-10:00</td>
<td>Welcome ceremony</td>
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<td>Invocation</td>
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<tr>
<td></td>
<td>welcome addresses by representatives from politics, hosts, and organizers</td>
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<td></td>
<td>Inauguration and lighting of lamp</td>
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<td>Inaugural address</td>
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<tr>
<td>10:00-10:30</td>
<td>Plenary Talk: Ashok Singhvi - Land-sea correlation: Pitfalls and remedies</td>
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<tr>
<td>10:30-11:00</td>
<td>Coffee break</td>
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<tr>
<td>11:00-12:30</td>
<td><strong>Grande Sala</strong></td>
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<td></td>
<td><strong>BLOCK 2 - Oral sessions</strong></td>
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<tr>
<td></td>
<td><strong>Sala de Banquete</strong></td>
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<tr>
<td>12:30-14:00</td>
<td>Lunch</td>
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<tr>
<td>14:00-15:30</td>
<td><strong>Grande Sala</strong></td>
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<td></td>
<td><strong>BLOCK 3 - Oral sessions</strong></td>
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<tr>
<td></td>
<td><strong>Sala de Banquete</strong></td>
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<tr>
<td>15:30-16:00</td>
<td>Coffee break</td>
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### OSM01 Monsoons in Space and Time: Patterns, Mechanisms and Impacts

**Chair:** Rajeev Saraswat, Ralph Schneider

- History of the Indian Monsoon recorded in Andaman Sea sediments
  - Ed Hathorne, Liviu Giosan, Tim Collett

- Impact of insolation, fresh water fluxes and ice-sheet on Early Holocene monsoon characteristics
  - Pascale Braconnot, Charline Marzin, Masa Kageyala, Anne-Marie Lézine

- Can South-West monsoon intensification develop a reduced condition in the Bay of Bengal sediments?
  - Jinnappa Pattan, Ishfaq Ahmad Mir, Gopal Parthiban, Supriya Karapurkar, Vishnu Matta, Pothuri Naidu, S W A Naqvi

- The role of Asian monsoon dynamics for Late Quaternary lake level changes at the north-eastern Tibetan Plateau
  - Elisabeth Dietze, Gregori Lockot, Kai Hartmann, Bernd Wünneßmann, Bernhard Diekmann, Georg Staudt

- What is the influence of Tibetan Plateau on the Asian summer monsoon? Barrier versus heating effect
  - Guangshan Chen, Zhengyu Liu, John Kurzuba

- A high-resolution record of West African Monsoon variability for the past 530,000 years from Lake Bosumtwi, southern Ghana
  - Nicholas McKay, Jonathan Overpeck, Timothy Shanahan, Erik Brown, John Peck, Clifford Heil, John King, Chris Scholz

### OSM03 New Approaches to Data Assimilation and Data-Model Comparison

**Chair:** Hugues Goosse

- Assimilation of time-averaged pseudo and real proxies for climate reconstruction
  - Nathan Steiger, Gregory Hakim, Eric Steig, David Battisti, Gerard Roe

- Skill and reliability of climate model ensembles at the Last Glacial Maximum and mid-Holocene
  - Julia Hargreaves, James Annan, Rumi Ohtaro, Andre Paul, Ayako Abe-Ouchi

- Lake Isotope – Climate Model comparisons: an iterative approach to improved palaeoclimate understanding?
  - Matthew Jones, Steven Phipps

### OSM16 Open Session on Latest Highlights in Paleoscience

**Chair:** Denis-Didier Rousseau, Liping Zhou

- A global reconstruction of temperature changes at the Last Glacial Maximum
  - James Annan, Julia Hargreaves

- A unique long proxy record from Sokli in the central area of Fennoscandian glaciations drastically changes classic concepts of glaciations, vegetation and climate in N Europe during the Late Pleistocene
  - Karin F. Helmens

- Mid-Brunhes shift in continental weathering intensity and its feedback with atmospheric CO\textsubscript{2}: insights from a new ice core proxy
  - Jochen Schmitt, Barbara Seth, Peter Köhler, Jane Willenbring, Hubertus Fischer

- Antarctic deglaciation rewritten – highly dynamic ice-sheet disintegration during meltwater pulses and contribution to sea-level rise
  - Michael E. Weber, Peter U. Clark, Rupert Gladstone, Axel Timmermann, Gerrit Lohmann, Gerhard Kuhn, Daniela Sprenk

- Is the current rapid warming of the Antarctic Peninsula unprecedented?
  - Robert Mulvaney, Nerlie Abram, Richard Hindmarsh, Carol Arrowsmith, Olivier Alemayhu

- Millennial and sub-millennial scale variations in rainfall revealed by chinchilla rat (Abrocoma) middens over the last 16,400 years in the central Atacama Desert
  - Claudia Latore, Francisco J. Gonzalez, M. Ignacia Rocuant, John Houston, Maisa Rojas
OSM01 Monsoons in Space and Time: Patterns, Mechanisms and Impacts
Chair: Rajeev Saraswat, Ralph Schneider

OSM01-19 Abrupt changes in the strength of the Indian Summer Monsoon during late glacial to Holocene evidenced by episodic increases in Ayeyarwady outflow to the Andaman Sea
Sijin Kumar A.V., B.N. Nath

OSM01-07 Documentary reconstruction of rainfall variability over western India, 1781-1860
George Adamson, David Nash

OSM01-30 Paleoclimatology in the South Equatorial Indian Ocean
Celse Almeida, Maruthadu Sudhakar, Manish Tiwari

OSM01-08 Monsoon circulation strength inferred from a multicycle tree-ring stable isotope chronology from southeast Asia
Kevin Anchukaitis, Mary Gagen, Brendan Buckley, Dario Martin-Benito, Caroline Ummerhofer, Le Canh Nam

OSM01-29 Indian monsoon rainfall variation in last 100 ka: A case study from western part of India
Sayak Basu

OSM01-01 Investigation of extreme phases of the Indian Summer Monsoon during the last Millennium using the Regional Climate Model COSMO-CLM
Daniel J. Befort, Stefan Polanski, Gregor C. Leckebusch, Ulrich Cubasch

OSM01-05 Monsoonal variability during the Holocene: An integrated data and modeling study
Eli Biton, Hezi Gildor, Gabriele Tropper, Michael Siccha, Michael Kucera, Marcel van der Meer, Stefan Schouten

OSM01-33 Quantified paleo-seasonality of the West African Monsoon in Senegal
Matthieu Carré, Moufouk Azzouz

OSM01-36 Intellectual Structure Of Monsoon Research- A Bibliometric Study
Prabir G Dasdiar, Olla Persson

OSM01-32 History of terrestrial precipitation in the Amazon basin (South America) during the last 240 ka
Aline Govin, Janis Ahrens, David Heslop, Matthias Zabel, Stefan Mullita, Cristiano M. Chiesi

OSM01-24 Climate instability and monsoon variability during the last 45,000 years in NW China derived from desert lake records
Kai Hartmann, Bernd Wünnemann

OSM01-35 Glacial terminations and periodicities for the last 800 kyr: Constraints from the bulk magnetic susceptibility record, the southeastern South China Sea
Selvaraj Kandasamy, Victor Manuel Velasco, Wille Soon, Min-Te Chen, Teh-Quei Lee, Shuh-Ji Kao

OSM01-18 Variation in the Indian Summer Monsoon intensity during the Bolling-Allerød and Holocene
Pratima Kessar, V. Purnachandra Rao, S.W.A. Naqui, Supriya Karapukar

OSM01-23 Late-Pleistocene-Holocene basin filling by Himalayan sediments in Great Rann of Kachchh: A palaeoclimatic perspective
Nitesh Khonde, Deepak Murty, Ravi Bhushan, Archana Das, Parul Joshi, Lakman Chamyal

OSM01-16 Reconstruction of precipitation and primary productivity during Holocene using geochemical proxies from deep sea cores from the internal seas of the Philippines
Ronald Lloren, Fernando Siringan, Alyssa Peleo-Alampay

OSM01-17 High resolution Indian summer monsoon variability record during the last deglaciation
Mahjoor Ahmad Lone, Syed Masood Ahmad, Chuan Chou Shen, Anil Kumar

OSM01-02 Simulation of the East Asian Summer Monsoon during the Last Millennium with the MPI Earth System Model
Wenmin Man, Tianjun Zhou, Johann Jungclaus

OSM01-06 Do instrumental data co-vary with the paleoclimatic proxy records of Southern India?
Busnur Manjunatha, Keshava Balakrishna, K.N. Prakash Narasimha

OSM01-12 Holocene climatic variability in lake Sonkul sediments (Kirghizstan, central Tien Shan): a monsoon influence in western Central Asia?
Marie Mathis, Philippe Sorrel, Stef Klotz, Heidi Oberhansli

OSM01-14 Increased transport of summer monsoon moisture to the Higher Himalaya in the early Holocene
Narendra Kumar Meena, Anil Kumar Gupta

OSM01-11 Inversions of shorter wetter phases of SW Monsoon in an overall dry middle to late Holocene palaeoenvironment of Pookode Lake, South India
Veena Nair M.P., Hema Achuthyan, Christopher Eastoe

OSM01-31 Nd-Sr-Hf isotopes in fine detritus material in Red Sea cores as tracers of Sahara – Arabia dust storms and monsoonal rains during the past 140 ka
Daniel Palchan, Ahuva Almogi-Labin, Mordechai Stern, Yigal Erel, Steve L. Goldstein

OSM01-28 Sr isotope study of Kaveri river – a potential proxy to infer the paleo-intensities of SW and NE monsoon in south India
Jitendra Kumar Pattanaik, S. Balakrishnan, Rajneesh Bhatnati

OSM01-10 Hydrological changes in the Gulf of California during the past 6200 cal yr BP and their relationship with ITCZ and North American Monsoon variability
Ligia Pérez-Cruz, Jaime Urrutia-Fucugauchi

OSM01-03 Analysis of the South American Monsoon for the mid-Holocene considering the results of 7 different PMIP3-model outputs
Luciana Prado, Ilana Wainer, Cristiano Chiesi

OSM01-20 Stepwise strengthening of Indian Summer Monsoon in the Bay of Bengal during last Glacial-Interglacial: Possible North Atlantic Tele-connection
Sanjeev Raghav, Manish Tiwari, Koushik Dutta, G V Ravi Prasad

OSM01-26 Reconstruction of late Quaternary climate changes as derived from a pollen record from Lahaul Himalaya, Himachal Pradesh, India

OSM01-04 Regional monsoon dynamics from small but complex paleoclimatic networks
Kira Rehfeld, Bedartha Goswami, Nora Molkenthin, Franziska Lechleitner, Sebastian F. M. Breitenbach, Ola Kwiecien, Norbert Marwan, Jürgen Kurths

OSM01-15 Holocene history of climate, vegetation and anthropogenic disturbance from core monsoon zone of central India as reflected in lacustrine sediments of Lonar Crater, Maharashtra
Nils Riedel, Martina Stebich, Philip Menzel, Ambili Anoop, Saswati Sarkar, Sushma Prasad, Martin Wiesner, Dirk Sachse, Nathani Basaveiah

OSM01-22 Millennial-scale proxy records of the North American Monsoon from the arid northern Mexico over the last glacial period and Holocene
Priyadarshi D. Roy
## MEETING PROGRAM

### WEDNESDAY, 13 FEBRUARY (continued)

**16:00-18:00**  **BLOCK 4 - Poster Sessions (continued)**

<table>
<thead>
<tr>
<th><strong>OSM03-09</strong></th>
<th>Fluctuations in the Indonesian-Australian Monsoon: New insights from the Flores stalagmite record</th>
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</thead>
<tbody>
<tr>
<td><strong>Nick Scruton</strong>, Linda Ayliffe, Mike Gagan, John Hellstrom, Wahiye Hanotoro, Hamdi Rifai, Bambar Suwargardi</td>
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<tr>
<td><strong>OSM03-14</strong></td>
<td>Holocene vegetation and climate dynamics in Northeast China inferred from palynological analyses of the Shialongwan maar lake sediments</td>
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<tr>
<td><strong>Martina Steibich</strong>, Frank Schlütz, Jens Mingram, Jiaqi Liu</td>
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<tr>
<td><strong>OSM03-27</strong></td>
<td>First Sub-centennial to Centennial Scale SST Record from the Eastern Arabian Sea</td>
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<tr>
<td><strong>Manish Tiwari</strong>, Siddhesh Nagoji, Kartik Tharmmissetti, Raja S. Ganeshram</td>
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### OSM03 New Approaches to Data Assimilation and Data-Model Comparison

**Chair:** Hugues Goosse

**OSM03-05** | Contrasting changes in vegetation and West African wind systems over the west African Sahel region during Heinrich Stadial 1  |
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<tr>
<td><strong>Ilham Boumietarhan</strong>, Matthias Frange, Enno Schefuß, Lydie Dupont, Jörg Lippold, Stefan Mulitza, Karin Zonneveld</td>
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<tr>
<td><strong>OSM03-11</strong></td>
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<tr>
<td><strong>Catherine Bradshaw</strong>, Rachel Fiecker, Daniel Lunt, Ana Christina Ravelo, Eiko Vinje Galaasen, Howard Spero</td>
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<td><strong>OSM03-17</strong></td>
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<tr>
<td><strong>Rory Clisby</strong>, Ian Robertson, Mary Gagen, Charles Hipkin</td>
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<tr>
<td><strong>OSM03-13</strong></td>
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<tr>
<td><strong>Sloan Coats</strong>, Jason Smardon, Richard Seager, Benjamin Cook, J. Fidel Gonzalez-Rouco</td>
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<tr>
<td><strong>OSM03-06</strong></td>
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<tr>
<td><strong>Sylvia Dee</strong>, David Noone, Julien Emile-Geay, Nikolaus Buenning</td>
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<tr>
<td><strong>OSM03-15</strong></td>
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<tr>
<td><strong>Svetlana Dubinkina</strong>, Hugues Goosse, Violette Zunz, Yoann Sallaz-Damaz</td>
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<tr>
<td><strong>OSM03-10</strong></td>
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<tr>
<td><strong>Jürg Franke</strong>, Jonas Bhend, Stefan Brönnimann</td>
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<tr>
<td><strong>OSM03-07</strong></td>
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<tr>
<td><strong>Barbara Haese</strong>, Martin Werner, Britta Beckmann, Gerrit Lohmann, Enno Schefuß</td>
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<tr>
<td><strong>OSM03-03</strong></td>
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<tr>
<td><strong>Ines Hessler</strong>, Sandy Harrison, Michal Kuchera, Stefan Mulitza, Claire Waelbroeck, data contributes MARGO-6k</td>
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<tr>
<td><strong>OSM03-08</strong></td>
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<tr>
<td><strong>Ruzu Ivanovic</strong>, Paul Valdes, Joy Singarayer</td>
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<td><strong>OSM03-01</strong></td>
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<td><strong>Darrell Kaufman</strong>, Nicholas Balascio, Nicholas McKay, Hanna Sundqvist</td>
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<tr>
<td><strong>OSM03-19</strong></td>
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<td><strong>Jan Kysely</strong>, Eva Plavcova</td>
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<td><strong>OSM03-18</strong></td>
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<td><strong>Yao Liu</strong>, Simon Brewer, Stephen T. Jackson</td>
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<tr>
<td><strong>OSM03-16</strong></td>
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<tr>
<td><strong>Aurélien Mairesse</strong>, Hugues Goosse, Pierre Mathiot, Svetlana Dubinkina</td>
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<tr>
<td><strong>OSM03-02</strong></td>
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<tr>
<td><strong>Jesse Morris</strong>, Keyan Fang, Heikki Seppä, Sakari Salonen, Paul Miller, Hans Renssen</td>
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<tr>
<td><strong>OSM03-12</strong></td>
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<tr>
<td><strong>Andrew Schurer</strong>, Gabriele Hegerl, Simon Tett, Michael Mann, Steven Phipps</td>
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<tr>
<td><strong>OSM03-04</strong></td>
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<tr>
<td><strong>Helikki Seppä</strong>, Hans Renssen, Oliver Heiri, Thierry Fichefet, Hugues Goosse, Didier M. Roche</td>
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<tr>
<td><strong>OSM03-09</strong></td>
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<tr>
<td><strong>Hans Christian Steen-Larsen</strong>, Renato Winkler, Frederic Prie, Arnaelle Landais, Valerie Masson-Delmotte, Camille Risi, Barbara Stenni</td>
</tr>
<tr>
<td><strong>OSM03-14</strong></td>
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<tr>
<td><strong>Sumin Woo</strong>, Jai-Ho Oh, Kyung-Min Lee</td>
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</tbody>
</table>

### OSM13 Past Warm Periods Informing the Anthropocene

**Chair:** Stijn De Schepper

**OSM13-08** | Surface ocean conditions in the eastern Nordic Seas during the Pliocene  |
| **Carin Andersson**, Bjørn Riserbrobakken, Erin McClymont, Lisbeth Jensen |
| **OSM13-04** | Modeled variability of land vegetation and carbon during the Holocene  |
| **Tim Brücher**, Victor Brovkin, Veronika Gayler |
MEETING PROGRAM

OSM13-12 How to glaciate the Northern Hemisphere in a globally warm world?
Stijn De Schepper, Jeroen Groeneveld, B. David A. Naafs, Cédric Van Renterghem, Jan Hennissen, Martin J. Head, Stephen Louwye

OSM13-06 Inter glacial vegetation dynamics revealed from land-cover estimates and potential disturbance factors
Petr Kuněř, Piotr Kolaczk

OSM13-05 Can variations in orbital and greenhouse gas forcing explain the North Atlantic sea-surface temperature evolution during the Last Interglacial?
Petra M. Langebroek, Kerim H. Nisancioglu

OSM13-14 Modelling the influence of evolving vegetation on past greenhouse climates
Claire Lipton, Dan Lunt

OSM13-13 The Milocene Mi-events: New paleobotanical and paleotemperature data from Porcupine Basin, SW Ireland
Stephen Louwye, Willemmijn Quaiaal, Stefan Schouen, Timme Donders

OSM13-03 New insights into the Holocene Thermal Maximum: Feedback and triggering mechanisms
Francesco Muschitiello, Dan Hammarlund, Barbara Wohlfarth

OSM13-07 Investigating the Uncertainty in the HadCM3 Model using a Perturbed Physics Ensemble in a Warmer World Palaeoclimatic Setting
James Pope, Matthew Collins, Alan Haywood, Harry Dowssett, Daniel Lunt

OSM13-10 Characterizing conditions of the Nordic Seas water column through the Pliocene
Bjørn Risebrobakken, Carin Andersson, Erin McClymont, Lisbeth Jensen

OSM13-15 Understanding the range of climates that can be simulated by perturbing uncertain climate parameters within their range of uncertainty for the early Eocene warm paleoclimate
Navjit Sagoo, Paul Valdes, Rachel Flecker

OSM13-02 Evaluation of the ratio of natural and anthropogenic forcing in the regression of the Aral sea during the Medieval Warm Period
Renato Sala, Jean-Marc Deom

OSM13-11 Refined pCO₂ reconstruction in Pliocene warmth
Osamu Seki

OSM13-09 A comparative study of large scale atmospheric circulation in the context of future scenario (RCP4.5) and past warm climate (mid-Pliocene)
Yong Sun, Gilles Ramstein, Camille Contoux, Tianjun Zhou

OSM13-01 Multiple drivers of long-term hypoxia in the Baltic Sea: A pilot biomarker study
Lovisa Zillén, James Bendle, Christopher Gallagher

OSM16 Open Session on Latest Highlights in Paleoscience
Chair: Hubertus Fischer

OSM16-01 Chronology of deposition of coastal Red dunes (Teri sands) in South India and its paleoenvironmental implications

OSM16-17 Dynamics of a Snowball Ocean
Yosef Ashkenazy, Hezi Gildor, Martin Losch, Francis Macdonald, Daniel Schrag, Eli Tziperman

OSM16-24 U-Pb age model for an Early Pleistocene stalagmite from Cочка Cave (Italy)
Petra Bajo, Russell Drysdale, Jon Woodhead, John Hellstrom, Giovanni Zanchetta

OSM16-22 Norwegian Research School in Climate Dynamics (ResClim)
Sarah Berben, Tore Furevik

OSM16-09 Testing the tree-ring parameter Blue Intensity, a new inexpensive path towards robust low-frequency reconstructions of late Holocene summer temperatures?
Jesper Björklund, Hans Linderholm

OSM16-16 You are what you eat: Differences in the chemical composition of organic-walled dinoflagellate resting cysts and its implications for preservation
Kara Bogus, Kenneth Neil Mertens, Johan Lauvaert, Ian C. Harding, Henk Vrielinck, Karin Zonneveld, Gerard J.M. Versteegh

OSM16-15 Climate controlled size variability of diatom Fragilariopsis kerguelensis in the Southern Ocean
Xavier Crosta, Sunil Shukla, Giuseppe Cortese, G.N. Nayak

OSM16-08 DNA barcoding from lake sediments: An unprecedented “deep” view of past vegetation dynamics and human land-use
Charline Giguet-Covex, Johan Pansu, Pierre Taberlet, Ludovic Gielly, Fabien Arnaud, Jérôme Poulenard, Philippe Choler, Pierre-Jérôme Rey, Pierre-Jérôme Rey, Fernand David, Isabelle Domaizon

OSM16-02 Nonlinear Method for Climate Field Reconstruction
Sari Hahijärvi, Atte Korhola

OSM16-07 Intercontinental Ash: The correlation of the Alaskan White River Ash to the European AD 8808 tephra
Britta Jensen, Sean Pyne-O’Donnell, Gill Plunkett, Duane Froese, Paul Hughes, Jonathan Pitcher, Valerie Hall

OSM16-18 Evidence of a wetter LIA (Little Ice Age) in the Himalaya, India: Evidence from a ca. 400 yr. old stalagmite record
Bahadur Singh Kotlia, S. M. Ahmad, Jian-Xin Zhao, Ming Tan, Wuhui Duan

OSM16-10 Changes in sea level on the coast of São Paulo during the Holocene and landslides in the Serra do Mar – Brazil
Francisco Sergio Bernardes Ladeira, Regina Célia de Oliveira, Estéfano Seneme Gobbi

OSM16-11 Greenhouse effect of Upper Cretaceous - analysis by paleosols of Marília Formation/Bauru Group/Brazil
Francisco Sergio Bernardes Ladeira

OSM16-06 The ice core record of atmospheric methane: Chemistry-climate interactions on tens to thousands of years
James Levine, Eric Wolff, Anna Jones, Manuel Hutterli, Louise Sime, Oliver Wild, Peter Hopcroft, Paul Valdes, Alex Archibald, Glenn Carver, Nicola Warwick, John Pyle

OSM16-05 Unraveling groundwater and surface water interaction in Central Kenya Rift lakes: Implications for Paleohydrology
Lydia A. Okala, Andreas Musolf, Ulrich Kniess

OSM16-25 Species distribution and oxygen isotope composition in modern planktic foraminifers in the Fram Strait (Arctic Ocean)
Theodora Pados, Robert F. Spiegelhan

OSM16-14 Multiproxy study of a Tertiary sedimentary section along Madhwali Nadi, western Kutch, Gujarat: Implications on Palaeoenvironment and Age
Parminder S. Ranhotra, S. K. Patil, Lalitha S., D. Senthil Nathan

OSM16-23 A brief history of climate – the northern seas from Last Glacial Maximum to global warming
Bjørn Risebrobakken, Tor Eldevik, Anne Bjune
## MEETING PROGRAM

### WEDNESDAY, 13 FEBRUARY (continued)

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<thead>
<tr>
<th>Time</th>
<th>Block 4 - Poster Sessions (continued)</th>
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<td>16:00-18:00</td>
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### BLOCK 1 - Plenary Session

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<tr>
<th>Time</th>
<th>Speaker</th>
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<tr>
<td>09:00-10:30</td>
<td>Plenary Talk: David Sauchyn</td>
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<td>Extending baseline hydrology</td>
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<td>from decades to centuries:</td>
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<td>Implications for water</td>
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<td>resource engineering</td>
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### BLOCK 2 - Oral sessions

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<th>Time</th>
<th>Grande Sala</th>
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<tr>
<td>11:00-12:30</td>
<td>Plenary Talk: Anil Kulkarni</td>
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<td>State of the Himalayan cryosphere</td>
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### BLOCK 3 - Oral sessions

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<th>Time</th>
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<tr>
<td>14:00-15:30</td>
<td>Plenary Talk: James Svytski</td>
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<td>Rivers and deltas in the</td>
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<td>Anthropocene</td>
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### BLOCK 4 - Poster Sessions (continued)

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<tr>
<td>12:30-14:00</td>
<td>Lunch</td>
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### THURSDAY, 14 FEBRUARY

<table>
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<tr>
<th>Time</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>09:00-10:30</td>
<td>Plenary Talk: Fortunat Joos</td>
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<td>Glacial cycle</td>
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<td>New CO2 and δ13CO2 ice core</td>
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<td>records on carbon cycle changes</td>
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### BLOCK 1 - Plenary Session

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<td>10:30-11:00</td>
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### BLOCK 2 - Oral sessions

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>12:30-14:00</td>
<td>Lunch</td>
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### BLOCK 3 - Oral sessions

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>14:00-15:30</td>
<td>Plenary Talk: Cathy Whitlock</td>
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<td>Assessing the importance of</td>
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<td>climate and human activity on</td>
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<td>past and present fire</td>
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<td>dynamics</td>
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### BLOCK 4 - Poster Sessions (continued)

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>18:30</td>
<td>Beach Soccer</td>
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</tbody>
</table>
MEETING PROGRAM

15:30-16:00 Coffee break

16:00-18:00 BLOCK 4 - Poster Sessions

OSM07 Sensitivity of the Cryosphere: Past and Future
Chair: Olga Solomina, Anders Carlson

OSM07-01 Mountain glaciers reaction on the Holocene climate changes in Central Asia in contrast to glaciers behavior in mountain systems of continental edges
Anna Agatova, Roman Nepoch, Andrey Nazarov, Lisbov Orlova

OSM07-02 Glacier expansion during the Late Quaternary in the monsoon dominated Goriganga valley, Central Himalaya, India
Sheikh Nawaz Ali, Rabuli Biswas, Anil Shukla, Nahrain Juyal

OSM07-04 Projected 21st Century Decline Snow Cover Overlying the Arctic Sea Ice and Implications for the Sea Ice and Arctic Climate in CESM/CCSM
Benjamin Blazey

OSM07-05 High-resolution reconstruction of southwest Atlantic sea-ice and its role in the carbon cycle during marine isotope stages 3 and 2
Pritam Chand

OSM07-06 Impact of De-glaciation and snow cover changes on the local water balance and develop adaptation strategies in the upper Ravi basin of North Western Himalaya
Pritam Chand

OSM07-07 Late Weichselian glacial history of the southern Yermak Plateau
Teena Chauhan, Riko Noormets, Tine L. Rasmussen

OSM07-08 Holocene Vegetation and Climate history of Peninsular India from terrestrial archives: Problems and Prospects
Markus Dotterweich

OSM07-09 Environmental records in permafrost of East Siberian Arctic during the MIS2 Stadial and the MIS3 Interstadial
Anna-Kari Trondman, Marie-Jose Gaillard, Shinya Sugita, Ralph Fyfe, Jed Kaplan, Laurent Marquer, Florence Mazier, Anne Birgitte Nielsen, Anneli Poska, Gustav Strandberg

OSM07-10 Change of glacial systems of Kazakhstan
Alexandr Kokarev, Alexandr Yegorov, Igor Severisky

OSM07-11 Change of forest to farmland and moraine to meadow: Integrated modeling of Holocene land cover change
Andrei Stoican, Camilla S. Andresen, Marit-Solveig Seidenkrantz, Kurt K. Kjaer, Antoon Kuipers, Guillaume Massé, Kaarina Weckström

OSM07-12 Glacier hazards caused by glacier shrinkage and climate change: Case study of Russian Caucasus
Dmitry Petratskov

OSM07-13 Reconstructing spatial and temporal patterns of former glaciation along the Tian Shan
Arjen P. Stroeven, Casey Beel, Robin L. Blomdin, Marc W. Caffee, Yixin Chen, Alexandru T. Codleam, Natacha Gribenski, Jonathan M. Harbor, Clas Hättestrand, Jakob Heyman, Mikhail Ivanov, Christine Kasab, Yanan Li, Yingkui Li, Nathaniel A. Lifton, Gengnian Liu, Dmitriy Petratskov, Irina Rogozhina, Rykisl Usualiev

OSM07-14 Reconstructing past 2000 years of ocean and glacier variability in Sermilik Fiord, SE Greenland, based on sediment archives
Annemie Van de Peer, Kevin Zezza, Alexei Zolotukhin, Britt Sørensen, Steffen Steppke, Jennifer Pike, Claire Allen, Dominic Hodgson, Kaarina Weckström

OSM07-15 Inferring the Source Distribution of Meltwater Pulse 1A using Near- and Far-Field Data and Modelling Constraints
Jia Tian, Glenn A. Milne, Robert E. Kopp, Peter U. Clark

OSM07-16 Evaluating the sea ice proxy IP_{25} against observational and diatom proxy data in the SW Labrador Sea
Kaarina Weckström, Guillaume Massé, Lewis Collins, Sami Hanhijärvi, Joanna Shouloukass, Marie-Alexandrine Sicce, Marit-Solveig Seidenkrantz, Sabine Schmidt, Thorbjorn Andersen, Morten Andersen, Brian Hill, Antoon Kuipers

From forest to farmland and moraine to meadow: Integrated modeling of Holocene land cover change
Jed O. Kaplan, Mirjam Pfeiffer, Kristen M. Krumhardt, Bas A. S. Davis, Marco Zanon, Pamela M. Collins, Achille Muir

Assessing the early Iron Age landscape and human activities in southern India: phytolith and archaeological studies of a Megalithic burial site
Premathilake Rathnasiri, Prasad Srinivasan, Anupama Krishnamurthy, Rajan K., Yathees Kumar V.P.

Highly branched isoprenoid (HBI) biomarkers as a new Antarctic sea-ice proxy in deep ocean glacial age sediments
Lewis Collins, Claire Allen, Jennifer Pike, Dominic Hodgson, Kaarina Weckstrom, Guillaume Massé

Sensitivity of the Greenland ice sheet to the Holocene thermal maximum
Benoit Lecavalier, Leanne Wake, Glenn Milne., Shawn Marshall, Matthew Simpson, Philippe Huybrechts

Global and regional patterns in the Holocene glacier fluctuations records
Olga Solomina, Mikhail Alexandrin, Vladimir Matsuksy}

Program
MEETING PROGRAM

THURSDAY, 14 FEBRUARY (continued)

16:00-18:00

BLOCK 4 - Poster Sessions (continued)

OSM08 Natural and Anthropogenic Transformation of Land Cover During the Holocene
Chair: Carsten Lemmen, Marie-José Gaillard

OSM08-02 Holocene Vegetation changes in the Cauvery Floodplains, southern India: A case study
Stephen A. P. P. Mohapatra, Anupama Krishnamurthy, Prasad Srivinasa, Pramod Singh

OSM08-20 Holocene vegetation estimates for selected regions in Bohemia (Czech Republic)
Vojtech Abraham, Libor Petr, Helena Svitavská-Svobodová, Radka Kozáková, Petr Pokorný, Petr Kuneš

OSM08-10 A large-scale erosion anomaly (2nd c. BC - 4th c. AD) in NW Alps: A locally-defined onset of the Anthropocene?

OSM08-10 Early Neolithic diets at Baija, Wei River valley, China: Stable carbon and nitrogen isotope analysis of human and faunal remains
Pia Atahan, John Dodson, Xiaoqiang Li, Xinying Zhou, Songmei Hu, Liang Chen, Fiona Bertuch, Kilti Grice

OSM08-08 Impact of monsoonal variation on vegetation and climate change as inferred from late Holocene sediment of Garbhanga reserve forest, Assam, north east India: A pollen based study
Samir Kumar Ber, Kanupriya Gupta, Azzur Rahman

OSM08-12 Southern Westerlies postglacial dynamics at Central Chilean Patagonia (Rio Ñahuel coys, 44°S)
Maria Eugenia de Porras, Antonio Maldonado, Flavia Quintana, Cesar Mendoza, Omar Reyes

OSM08-09 Late Holocene vegetation vis à vis climate dynamics from Hasila wetland, western Assam, Northeast India: Pollen and diatom record
Swati Dixit

OSM08-14 Grazing activities and vegetation history in the Pyrenees inferred from palaeoecological data
Galop Didier, Maizer Floreng, Cugny Carole, Rius Damien

OSM08-07 Palynological methods for land-cover reconstruction in semi-arid Peninsular India
Anupama Krishnamurthy, Prasad Srivinasa

OSM08-11 Climate and vegetation Dynamics in the Lake Victoria Region of East Africa during the Holocene: Evidence from Phytolith analysis
Julius Lejju Bunny

OSM08-15 Integrated prehistory of people and environment: Linking the global scale to regional narratives
Carsten Lemmen, Aurangzeb Khan, Kai W Wirtz, Detlef Gronenborn

OSM08-16 Towards an Earth System Model with Interactive Culture: Feedback effects between land use change and global climate change
Carsten Lemmen, Kerstin Haberkorn

OSM08-19 REVEALS-based reconstruction of complex vegetation and land cover for evaluation of a dynamic vegetation model along N-S and W-E transects in NW Europe
Laurent Marquer, Marie-José Gaillard, Shinya Sugita, Anneli Poska, Anna-Kari Trondman, Florence Mazier, Anne Birgitte Nielsen, Ralph Fyfe, Bert van Ogaard, Teija Alenius, John Birks, Anne E. Bjune, Jörg Christiansen, Thomas Giesecke, Mikkel Kangur, Tiitu Koff, Malgorzata Latalowa, Jutta Lechterbeck, Heikki Seppälä

OSM08-06 Late Holocene variations from Lake Rutundu, Mount Kenya
Christine Omuombo, Daniel Olago, Stephen Rucina, David Williamson

OSM08-04 Holocene climate and environmental changes in the Horton Plains, Sri Lanka
Rathanasiri Premathilake

OSM08-01 Human impact on lowland rainforest and early maritime dispersal of bananas: Evidence from Sri Lanka
Rathanasiri Premathilake

OSM08-18 Deforesting Europe: Towards a pollen-based reconstruction of Holocene land cover change
Neil Roberts, Jessie Woodbridge, Ralph Fyfe

OSM08-05 Late Holocene variations from Lake Rutundu, Mount Kenya
Christine Oumuombo, Daniel Olago, Stephen Rucina, David Williamson

OSM08-19 Exploring the spatio-temporal archaeological and landscape dynamics of early farming communities using Bayesian approaches
Nicki Whitehouse, Phil Barratt, M. Jane Bunting, Rick Schulting, Meriel McClatchie, T. Rowan McLaughlin, Rob Marchant, Amy Bogaard, Sue Colledge

OSM011 Biodiversity and Refugia - Lessons Learned from the Past
Chair: Sheri Fritz, Kathy Willis

OSM011-01 Resilience of an ancient tropical forest landscape to 7500 years of environmental change in the Western Ghats, India
Shonil Bhagwat, Sandra Nogue, Kathy Willis

OSM011-02 Biodiversity and land cover change in Europe over the Holocene: A functional approach based on pollen data
Parn Collins, Basil Davis, Jed Kaplan

OSM011-12 Development and application of Australian lacustrine ostracod-based transfer functions
Chris Gouramanis, Stuart Halse, Patrick De Deckker, Daniel Wilkins

OSM011-11 Interglacial variability from the Middle Pleistocene up to the Holocene after molluscan assemblages and geochemical records from NW European tufa sequences
Nicole Limondin-Lozouet, Julie Dabkowski

OSM011-09 Genetic differentiation in the Patagonian-fueguian rodents Abrothrix olivaceus and A. longipilis (Rodentia: Cricetidae) associated to the major Pleistocene-Holocene climatic changes: Using molecular data to the global changing assessment
Matias Mora
MEETING PROGRAM

OSM11-08 Late Quaternary palaeoenvironments of the southern Cape, South Africa: Palynological evidence from three coastal wetlands
Lynne Quick, Michael Meadows, Brian Chase, Andrew Carr, Mark Bateman, Torsten Haberzettl, Jussi Baade, Roland Mäusbacher

OSM11-13 The response of planktic foraminifera to oceanic environmental changes during cenomanian-turonian transition of Karai Shale, Uttattur group, southern India
Shanmugavalli G., Venkatachalachaly R.

OSM11-07 Marine and terrestrial response of the Black Sea/Northern Anatolia region to rapid climatic variability during the marine isotope stage 3
Lyudmila S. Shumilovskikh, Helge W. Arz, Hermann Behling

OSM11-04 Eastern Andean Patagonia (40°-61°S) vegetation and climate variability during the Holocene related to southern westerlies fluctuations and recent human interactions. Impacts on Patagonian forests and steppe plants communities

OSM11-03 Late-Holocene climate and environmental history in the Lake Victoria basin: A sediment-based evidence from pollen, charcoal, δ13C isotope, spores and blue-green algae
Casim Umba Tolo, Julius B Leju, Morgan Andama, David Taylor

OSM11-06 Using the fossil record to reassess the functioning of the southern Levant as a biodiversity pool during European glaciations
Lior Weissbrod, Mina Weinstein-Evron

OSM11-10 Reviewing Late Quaternary Megafaunal Extinction: The case-study of Sri Lanka
Poonma Yahampath, Jinadasa Katupotha, Gamini Adikari, M.A.C.M. Kumari

OSM012 Climate change: Physical forcings and biogeochemical feedbacks
Chair: James Levine, Jérôme Chappellaz

OSM12-02 A multiproxy examination of the toarcian oceanic anoxic event, Arroyo Lapa, (north and south) Neuquen Basin, Argentina
Aisha Al Suwaidi, François Baudin, Susanna Darnborenea, Stephen Hesselbo, Hugh Jenkyns, Miguel Manceriido, Richard Pancost, Alberto Riccardi, Chris Siebert

OSM12-12 A multidisciplinary laboratory study using iron oxide ‘markers’ from modern drylands dust towards adapting this methodology for characterizing Quaternary dust, their source areas and transport paths
Subir Banerjee, Kimberly Yauk, Richard Reynolds, Harland Goldstein, Thelma Berquo, Bruce Moskowitz

OSM12-14 Synchronous variations in terrigenous flux to the Bay of Bengal and solar insolation: Implications to solar forcing on monsoon system
Ravi Bhushan, Sunil K Singh

OSM12-10 Reconstruction of the Late Quaternary climatic change from glaciogenic varve deposits in Lahaul and Spiti, N-W Himalaya
Archana Bohra

OSM12-08 Precession forcing of fire activity in subtropical southern Africa over the past 170,000 years
Anne-Laure Daniau, Maria Fernanda Sánchez Goñi, Philippe Martinez, Dunia H. Urrego, Viviane Bourt-Roumazelles, Stéphanie Desprat, Jennifer R. Marlon

OSM12-15 Plio-Pleistocene evolution of nutrient cycling in the Benguela upwelling system: A chlorin-specific δ15N approach
Guillaume Leduc, Hisami Suga, Nana Ogawa, Johan Etourneau, Ralph Schneider, Nao Ohkouchi

OSM12-20 Effects of Large Volcanic Eruptions on Global Summer Climate and East Asian Monsoon Changes during the Last Millennium: Analysis of MPI-ESM simulations
Wenmin Man, Tianjun Zhou

OSM12-03 Tracking carbon dynamics and climate forcing through Holocene peatland development by combining palaeoecological information and modern carbon flux measurements
Paul Mathijssen, Minna Vääränta, Eeika Niemelä, Annalea Lohila, Juha-Pekka Tuovinen

OSM12-01 The late Pliocene-Holocene climatic transition record in the alluvial sequences of central Argentina (33-36° S)
Adriana Mehl, Marcelo Zárate

OSM12-16 Variations in planktonic foraminifera shell calcification in the eastern Arabian Sea during the Holocene
Sushant Naik, Shijop Matthews, Shital Godad, Potthri Divakar Naidu

OSM12-19 Diatom based sea-ice reconstruction over the past 95,000 years in the Indian Ocean sector of Southern Ocean
Abhijith Nair, Rahul Mohan, M.C Manoj, Meloth Thamban

OSM12-21 High-resolution multiproxy climatic reconstruction off Myanmar suggestive of climatic modulations due to solar forcing during the past ~489 years
Rajani Panchang, Rajiv Nigam

OSM12-18 First results of the paleolimnological research in Tundra polygons (the project POLYGON)
Viktor Sitalo, Dmitriy Subetto, Lutz Schirrmeister, Sebastian Wetternet, Andrea Schneider

OSM12-13 Accelerator Mass Spectrometry: Revealing subtle signals in ice sheets
Andrew Smith

OSM12-09 Late Glacial-Holocene Elemental and Stable Isotope Records from the Southeastern Arabian Sea
Yoganandan Veeran, Selvaraj Kandasamy, S.J Kao, Ravi Prasad G. V, Koushik Dutta, Krishnaiah C, Gangadhara Bhat H

OSM12-17 How can ice cores constrain our knowledge of the likelihood of damaging solar flare events?
Eric Wolff, Juerg Beer, Matthias Bigler, Mark Curran, Jack Dibb, Markus Frey, Michel Legrand, Joe McConnell
## MEETING PROGRAM

### THURSDAY, 14 FEBRUARY (continued)

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<tr>
<td>16:00-18:00</td>
<td><strong>OSM14 Natural and Human Effects on Ecosystem Processes</strong></td>
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<td>Chair: Mukund Kajale</td>
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<td></td>
<td><strong>OSM14-04</strong> Late Quaternary environmental change at Lake McKenzie, in subtropical eastern Australia: evidence from sedimentary carbon, nitrogen and biomarkers</td>
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<td>Pla Atahan, Henk Heijns, Pierre Le Métayer, Kiki Grice, Kathryn Taffs, Sarah Hembrrow, John Dodson</td>
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<td></td>
<td><strong>OSM14-06</strong> Diatom as Environmental Indicators to Infer Past Conditions in Relation to Acidity (Humedal de Batuco, Region Metropolitana, Chile Central)</td>
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<td></td>
<td>Maria Laura Carrevedo, Claudio Latorre, Blas Valero García, Ana Moreno</td>
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<td><strong>OSM14-11</strong> Mapping biomes of India using Holdridge Life Zone Model – identifying footprints of climate change</td>
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<td>Anusheema Chakraborty, Pawan Kumar Joshi, Aniruddha Ghosh, Gopala Arendran</td>
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<td><strong>OSM14-07</strong> Fossil and total soil $^{15}N$ as a proxy for precipitation in the Atacama Desert</td>
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<td>Francisca P. Diaz, Claudio Latorre</td>
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<td><strong>OSM14-03</strong> Tree-line dynamics at high mountain of Mansalu Conservation Area, Central Nepal: Climate change or land use is the main driver?</td>
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<td>Narayan Prasad Gaire, Dineesh Rai Bhuju</td>
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<td><strong>OSM14-08</strong> Monsoon variability and carbon sequestration dynamics: Evidence from tree-rings</td>
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<td>Suresh Hebbalalu, Hemant Borgaonkar, Amar Sikder, Sukumar Raman</td>
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<td><strong>OSM14-09</strong> Permafrost melting and ecotoxicological consequences in a periglacial lake in the Eastern Alps: Answers from the past and present</td>
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<td>Boris Ilyushak, Karin Koenig, Elena Ilyushuk, Richard Tessadri, Roland Psenner</td>
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<td><strong>OSM14-01</strong> Late Holocene biological assemblages of Mansar Lake (District Nagpur, Maharashtra, India) in the context of Palaeoecology and neo-ecosystem dynamics</td>
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<td>Mukund Kajale, Sharayu Sathe, Sanjay Eksambekar, Sharad Rajaguru</td>
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<td><strong>OSM14-05</strong> Geochemical signals of organic matter in sediments of Pichavaram mangrove-estuarine complex, Southeastern coast of India: Implications of anthropogenic influence</td>
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<td>Rajesh Kumar Ranjan, Joyanto Routh, AL. Ramanathan, J. Val Kump</td>
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<td><strong>OSM14-02</strong> Holocene environmental variability – a high-resolution study from northeast Finland</td>
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<td>Shytrete Shala, Minna Valiranta, Karin F. Helmens, Tomi P. Luoto</td>
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<td><strong>OSM14-10</strong> Mid to Late Holocene climatic history of rangelands from Spiti Valley, Trans-Himalayas</td>
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<td>Indrani Suryaparaksh, Anusree A.S., Chandra Mohan Nautyal, Chau Dutt Mishra, Mahesh Sankaran</td>
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<tr>
<td>19:00-21:00</td>
<td>Public lecture and discussion: <strong>Rajendra K. Pachauri</strong> - Climate Change and implications for global society</td>
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<td>Chair: S. Rajan, Expert panel: Cathy Whitlock, Gavin Schmidt, Robert Wasson, Stefan Rahmstorf, Ashok K. Singhvi (moderator)</td>
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<td><strong>Followed by a panel discussion and a “high tea” arranged by NCAOR</strong></td>
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<td><strong>Venue: The Cardium, National Institute of Oceanography, Dona Paula</strong></td>
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### FRIDAY, 15 FEBRUARY

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<td><strong>BLOCK 1 - Plenary Session</strong></td>
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<tr>
<td>09:00-09:30</td>
<td>Plenary Talk: <strong>Jessica E. Tierney</strong> - Indo-Pacific climate during the Common Era: New perspectives from land and sea</td>
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<tr>
<td>09:30-10:00</td>
<td>Plenary Talk: <strong>Martin Clossen</strong> - Tipping points in biogeochemistry</td>
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<tr>
<td>10:00-10:30</td>
<td>Plenary Talk: <strong>Martin Visbeck</strong> - Selected topics on ocean dynamics in the wider context of climate variability and global sustainability</td>
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<tr>
<td>10:30-11:00</td>
<td>Coffee break</td>
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<tr>
<td>11:00-12:30</td>
<td><strong>BLOCK 2 - Oral sessions</strong></td>
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<tr>
<td>11:00-12:30</td>
<td><strong>OSM02 Regional Climate Variability Over the Last 2000 Years</strong></td>
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<tr>
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<td>Chair: Steven Phipps</td>
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<td></td>
<td>Antarctic temperature changes during the last millennium: evaluation of simulations and reconstructions (solicited talk)</td>
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<td>A 2000-year synthesis of marine-derived SST records: Results from the Ocean2k project</td>
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<td>Working Group PAGES/Ocean 2k, Guillaume Leduc</td>
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<td>Temperature and moisture variability across Africa during the last 2000 years</td>
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<td>A 2000-yr European Summer Temperature Reconstruction from the PAGES 2k Regional Network and Comparisons to Millennium-Length Forced Model Simulations</td>
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<td>Jason Smerdon, Johannes Werner, Ulf Buntgen, Fredrik Charpentier Ljungqvist, Jan Esper, Laura Fernandez-Donado, J. Fidel Gonzalez-Rouco, Juerg Luterbacher,</td>
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<td><strong>OSM06 Past Changes in Fluvial Systems, Floodplains and Estuaries</strong></td>
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<td>Chair: Onkar S. Chauhan, Peter Gell, Rajiv Sinha</td>
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<td></td>
<td>Deciphering landscape dynamics from the Late Quaternary stratigraphic records of the interfluves and valleys of the southern Ganga plains (solicited talk)</td>
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<td>Sampat K. Tandon, Rajiv Sinha, Martin R. Gibling, Mayank Jain</td>
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<td>Exploring the Channel Connectivity Structure of the August 00 Avulsion Belt of the Kosi River: Application to Flood Risk Assessment</td>
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<td>Rajiv Sinha, Kumar Gaurav, Shashwat Chandra, Sampat Tandon</td>
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<td>Channel forming discharge and longitudinal rivers profiles as drivers of landscape diversity in the Ganga plains</td>
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<td>N.G. Roy, R Sinha</td>
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<td>Forests, large floods and sediment transport (solicited talk)</td>
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<td>Robert Wasson</td>
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<td>Evidence for transformation of floodplain lake and wetland ecosystems at a regional scale due to agriculture and water resource development in south east Australia</td>
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<td>Michael Reid, Peter Gell, John Tibby, Jennie Fluin, Matthew Tighe</td>
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OSM02 (continued)
Chair: Guillaume Leduc

Covariability of precipitation and sea surface temperature changes in Northern Chilean Patagonia during the last 2000 years
Sebastien Bertrand, Konrad Hughen, Julio Sepulveda, Silvio Pantoja

Solar and volcanic forcing of the Southern Hemisphere climate over the past 1500 years
Didier Swingedouw, Laurent Terray, Jerome Servonnat, Joel Guio

On the role of sea ice at the onset of the Little Ice Age
Flavio Lehner, Andreas Born, Christoph C. Raible, Thomas F. Stocker

Data and model perspectives on the Indian Ocean Zonal Mode over the past millennium
Dagomar Degroot, James Russell, Mathias Vuelle, Yongsong Huang

Simulated and reconstructed Atlantic gyre circulation and its relationship with the North Atlantic Oscillation during the past 600 years
Odd Helge Otteraa, Trond Dokken, Øyvind Lie, Helene R. Langehaug, Iselin Medhaug, Carin Andersson

Shifting winds over the North Sea: how Anglo-Dutch documentary evidence enables the reconstruction of changes in prevailing wind during the Little Ice Age, 1630-1790

Dagomar Degroot

Reconstruction of tropical ocean SST trends during the last millennium: Results from the PAGES/Ocean2K project
Nerille Abram, Jessica Tierney, Kevin Anchukatis, Cyril Giry, Kelly Kilbourne, Casey Saenger, Henry Wu, Juns Zinke, the PAGES/Ocean2K working group

15:30-16:00 Coffee break

OSM02 Regional Climate Variability Over the Last 2000 Years
Chair: Steven Phipps, Guillaume Leduc

OSM02-01 An Expanded Archive Facilitating Temperature Reconstructions of the Past Two Millennia from Paleo Proxies
David Anderson, Eugene Wahl, Anju Shah, Bruce Bauer, Charles Buckner, Edward Gille, Carrie Morrill

OSM02-04 How subsurface temperature data may help to reconstruct past climate
Vladimir Cermak

OSM02-05 Results of Long-Term Temperature-Time Monitoring at the Geothermal Observatory Sapirova, Prague (The Czech Republic)
Vladimir Cermak, Jan Safanda, Petr Dedek, Milan Kresl

OSM02-07 Last 2000 years environmental changes in Lake Pa Kho, Northeast Thailand
Sakonvan Chawchai, Barbara Wohlfarth, Akkaneeuwut Chabangborn, Maarten Blaauw, Paula J Reimer, Sherilyn Fritz, Malin Kylander, Ludwig Löwemark, Carl-Magnus Mörth

OSM02-08 Tree-ring reconstructed boreal summer temperature anomalies for temperate East Asia since 800 C.E.
Edward Cook, Paul Krusic, Kevin Anchukaitis, Brendan Buckley, Takeshi Nakatsuka, Masaki Sano, Asia 2k Group Members

OSM02-09 Relationship between sea ice variability and atmospheric circulation during the last millennium in Antarctic Peninsula
Xavier Crosta, Loic Barbare, Sabine Schmidt, Johan Etourneau, Guillaume Massé

OSM02-13 Two-thousand-year climate reconstruction of the Altai region with annual time resolution and the search of natural cycles with length from 3 to 1,000 years
Andrey Darin, Ivan Kalugin, Natalya Maksimova, Tatiana Markovich, Aleksandr Mordvinov, Dmitry Ovchinnikov, Yakov Rakshun

OSM02-14 Garabashi glacier (Central Caucasus) mass balance reconstructions inferred from tree-rings
Ekaterina Dolgova, Vladimir Matyskovsky

OSM02-05 Sea ice, biological production and nutrient cycling reconstructed at an unprecedented time resolution in the Adélie Basin, East Antarctica, for the last 2,000 years
Johan Etourneau, Philippe Campeagne, Francisco Jimenez, Irina Djuprav, Nana Ogawa, Carlota Escutia, Rob Dunbar, Naohiko Ohkouchi, Xavier Crosta, Guillaume Massé

OSM02-06 Multi-annual variability of the Peruvian Oxygen Minimum Zone across the last millennium
Sophie Fleury, Philippe Martinez, Xavier Crosta, Karine Charlier, Olivier Ther, Thomas Blanz, Ralph Schneider

OSM02-24 Dendrochronological studies in Nepal: Current status and future prospects
Narayan Prasad Gaire, Dinesh Raj Bhuju
MEETING PROGRAM

FRIDAY, 15 FEBRUARY (continued)

16:00-18:00 BLOCK 4 - Poster Sessions (continued)

OSM02-15 High altitude tree-ring chronology from Malari Glacier, western Himalaya, India, and its climatic implications
Naveen Gandhi, H.P. Borgaonkar

OSM02-30 Northern alpine ecosystems: Is temperature one climate factor, influencing to spruce and larch light-ring formation?
Marina Gurskaya

OSM02-38 Climatic and environmental changes in the Barents Sea during the last 2ka: Response to variations in the Atlantic water inflow and NAO index
Elena Ivanova, Ivar Murgmua, Bjarg Risebrobakken, Anne de Vernal

OSM02-37 δ13C and δ15N in Soledad Basin and Magdalena Margin of Baja California, Mexico for the last 2 ky
Miriam Juarez, Alberto Sanchez, Oscar Gonzalez

OSM02-12 Paleorainfall variations in Southern India during the past 3154 years: Evidence from Pookot Lake record

OSM02-39 Unraveling the mysteries of chrysophyte resting stages – distribution of chrysophyte cysts in Finland
Sanna Korkonen

OSM02-23 Climatic Fluctuations in the last ~2,000 years from Garhwal Himalaya (India) by using multi-proxy analyses
Bahadur Singh Kotlia, Lalit Mohan Joshi, Nathani Basavasai, N. C. Barui

OSM02-27 Isotope composition of the deep ice core from Elbrus Western plateau (the Caucasus)
Anna Kozachek, Vladimir Mikhailenko, Alexey Elyakin

OSM02-33 Lake Geneva sediments as archive for past environmental changes and human activity since the last 300 years
Katrina Kremer, Juan Pablo Corella, Stephanie Girardclous

OSM02-28 Climatic signal in tree-ring width chronologies of European Russia: Spatial change and perspectives for paleoclimatic reconstructions
Vladimir Matkowsky

OSM02-07 Landscape (Palaeo)limnology: A multi-lake approach to understanding climate change and human disturbance in south-eastern Australia over the last 500 years
Keely Mills, Peter Gill

OSM02-40 Hydrological and Climatological Changes in the Trondheimsfjord/Norway during the late Holocene inferred from Benthic Stable Isotopes and Dinocyst Assemblages
Gesa Milzer, J. Giraudseau, S. Schmidt, J. Faust, J. Kries, F. Eynaud, C. Ruhlemann

OSM02-22 A 576-year annual minimum temperature history for the source region of the Yangtze River
He Minhui, Yang Bao

OSM02-04 2k ice core records from the Weddell Sea region of Antarctica
Robert Mulvaney

OSM02-10 Late Quaternary paleoceanography of the southwestern Indian Ocean
Dinesh K. Naik, R. Saraswat, N. Khare, A.C. Pandey, A. Mackensen, R. Nigam

OSM02-18 Pluvials, Droughts, Energetics, and the Mongol Empire
Neil Pederson, Amy Heslin, Baatarbileg Nachin, Gyunsanaya Byambasuren

OSM02-11 Was the Medieval Warm Period Global? Evidences from the Gulf of Kachchh Coast, Western India
S. P. Prizewmala, Nilesj Bhatt, W Winkler, I Hajdas, A. M. Hirt

OSM02-19 Correlation between pollen spectra and vegetation of southwestern Madhya Pradesh, India
M. F. Quamar, M. S. Chauhan

OSM02-03 Dust, sea salt and moisture source variability in central Dronning Maud Land, East Antarctica during the last millennium: Role of Southern Annular Mode and El-Niño-Southern Oscillation
Walijr Rahaman, Meloth Thamban

OSM02-32 Marine records of environmental change in the NE Atlantic (west coast of the Iberian Peninsula) over the past 150 years – a dinoflagellate cyst perspective
Sofia Ribeiro, Ana Amorim, Fatima Abrantes, Marianna Elleegaard

OSM02-09 Reconstructing the past millennium of hydrological variability in the Western Tropical Pacific using the hydrogen isotopes of lipid biomarkers
Julie Richey, Julian Sachs

OSM02-08 Late-Holocene climate variability in southern New Zealand: A multi-proxy study of laminated lake sediments from Lake Ohau to reconstruct regional climate
Heidi Roop, Marcus Vandergoes, Richard Levy, Gavin Dunbar, Sean Fitzsimons, Jamie Howarth, Bob Ditchburn, Gary Wilson, Jennifer Purdie

OSM02-20 Climate change in south India during the past two centuries inferred from geothermal and meteorological observations
Sukanta Roy, David S. Chapman

OSM02-16 Variations in discharge from the Qilian mountains, northwest China, and its effect on the agricultural communities of the Heihe basin, over the last two millennia
Akiko Sakai, Mitsuyuki Inoue, Koji Fujita, Chiyuki Narama, Jumpei Kubota, Masayoshi Nakawo, Tandong Yao

OSM02-41 The missing ocean - Generation of high resolution records of sea surface temperature for the Common Era
Jeff Salacup, Timothy Herbert, Warren Pretl

OSM02-31 Millennial-length drought reconstructions for southern and central Fennoscandia
Kristina Septigen, Edward Cook, Hans Linderholm, Jesper Bjorklund

OSM02-21 Climatic response of tree-ring density parameters of conifers from western Himalaya, India: Implications in dendroclimatology
Amar Sikder, Hemant Borgaonkar

OSM02-17 Tree ring inferred seven century long Satluj river discharge records from the Indian Himalaya
Jayendra Singh, Ram R. Yadav

OSM02-43 Do baobabs have annual tree rings for high-resolution paleoclimatology? An approach using wood anatomy and stable isotopes.
Franziska Slotta, Gerö Helle, Ingo Heinrich, Karl-Uwe Heussner, Elisa Shemang, Frank Riedel, Pavel Tarasov

OSM02-36 Sensitivity of the forest-grassland ecotone: forst historical rainfall variation in pristine open woodland savanna of equatorial East Africa
Immaculata Seemannakama-Nakakwai, Vanessa Gelorini, Dirk Verschuren

OSM02-29 Multiproxy evidence of environmental changes during last 1800 years recorded in coastal peatland of Puck Lagoon (southern Baltic)
Szymon Uschinowicz, Wojciech Jeglinski, Grazyna Miotk-Szpanogowicz, Jacek Pawlyta, Natalia Piotrowska, Mariusz Gaška, Małgorzata Witak
OSM06 Past Changes in Fluvial Systems, Floodplains and Estuaries
Chair: Onkar S. Chauhan, Peter Gell, Rajiv Sinha

OSM06-01 Response and recovery from the effects of 100 years flood: Significance of long term slope-channel coupling in Damodar River, North-Eastern India
Sujoy Bandopadhyay, Ritendu Mukhopadhyay, Debasis Ghosh

OSM06-02 Holological and Nutrient budget of Bhitaranika Mangrove Estuary, East coast of India
Rita Chauhan, AL Ramanathan, TK Adhya

OSM06-03 Rapid ecological changes following altered hydrological connectivities with the Yangtze River in Zhangdu Lake (China) over the past 200 years
Xuhui Dong, Min Yao, Xiandong Yang, Qinghui Zhang, Yangmin Qin

OSM06-04 Sedimentary archives of wetland-river interactions: The lower Murray River, Australia
Peter Gell, Rosie Grunfeld, Michael Reid

OSM06-05 To study the chemical weathering and clay mineralogy of the sediments in Brahmaputra river and two of its tributaries to understand the carbon sequestration by weathering
Sumil Handique, Jyotilima Saikia, Seema Talukdar

OSM06-06 A Preliminary study on the removal of earth materials from the river basins in Sri Lanka
Upali De Silva Jayawardena

OSM06-07 River channel response to climate change and human impact: Case study of Russian plain
Irina Kargapolova

OSM06-08 A simulation of the Neolithic transition in the Indus valley
Carsten Lemmen, Aurangzeb Khan

OSM06-09 Submarine fill of a drowned large incised valley: The legacy of eustatic and climatic forcing
Vittorio Maselli, Fabio Trinardi, Alessandra Asioli, Alessandro Ceregero, Federica Rizzetto, Marco Taviani

OSM06-10 Mid-Holocene environmental changes deduced from sedimentary records in the lower reaches of the Yeongsan River, Korea
Wook-Hyun Nahm, Jaesoo Lim

OSM06-11 Neogene Palynofloral evolution of Ramganga Basin, Uttarakhhand, India
Samir Sarkar

OSM06-12 The development of sand dunes around Lake Balkhash and ilı delta in Southeast Kazakhstan: the effects from hydrological environment changes and the Holocene Climate changes, in Central Eurasia
Akio Sato, Toshiniko Sugai, Kunihiko Endo, Reisuke Kondo, Hitoshi Shimizu, Tatsuro Chiba, Jean-marc Deom, Takashi Chiba, Yasunori Nakayama

OSM06-13 Geochemistry of buried river sediment in Ghaggar plains, NW India: Inferences on Late Quaternary palaeoclimate
Ajit Singh, Debajyoti Paul, Sunil K. Singh, Rajiv Sinha

OSM06-14 Stratigraphic response to Late Quaternary monsoonal fluctuations in a buried valley complex in Ghaggar plains, NW India
Ajit Singh, Krishna Thomsen, Rajiv Sinha, Sanjeev Gupta, Jan-Peter Buytaert, Andrew Murray, Mayank Jain

OSM06-15 Sea level and coastal changes during the Holocene in the Caucy river delta, southern India

OSM06-16 The rise and fall of palaeo-megatide Bungunria and the birth of the Murray-Darling basin in southeastern Australia: New palaeomagnetic and cosmogenic nuclide constraints on rates of geomorphological change
Ian Snowball, Eeva Hätia-Hovi, Sandra McClaren, Alia Aldahan, Per Sandgren

OSM06-17 Main stem- tributary sedimentation in response to flood events during last 1000 years in lower Narmada basin, India
Alpa Sridhar, Ravi Bhushan, Shriradha Band, Laxmansingh Chanyal

OSM06-18 Fluvial response to 3-2 ka sea-level lowering: An example of the latest Pleistocene to Holocene incised-valley fills in the Tokyo Lowland, central Japan
Susumu Tanabe, Yoshihiro Ishihara

OSM06-19 Early diagenetic processes of clay matters in decadal time-scale in tropical coastline sediments – case study in Vietnam
Nguyen Thi Minh Ngoc

OSM06-20 Fossil Diatoms as a flood indicator in a large shallow floodplain lake
Xiangdong Yang, Qian Wang

OSM15 The Role of Ocean Circulation in Climate Dynamics
Chair: Arun D. Singh, Devesh K Sinha

OSM15-01 An updated pseudoproxy evaluation of four climate field reconstruction methods using improved emulations of real-world conditions
Jianghao Wang, Julien Emile-Geay, Dominique Guillot, Jason E. Smerdon

OSM15-02 Sub-centennial Holocene fluctuations of Atlantic water inflow and sea ice distribution in the western Barents Sea, European Arctic
Sarah Berben, Katrine Husum, Patricia Cabedo Sanz, Simon Belt

OSM15-03 Location of the Marine ITCZ in the Atlantic Ocean over the last 30 ka
Caroline Cleroux, Peter deMenocal, Jennifer Arbunzevcek

OSM15-04 Eastern South Pacific water mass geometry during the last glacial-interglacial transition
Ricardo De Pol-Holz, Dharma Reyes, Mahyar Mohtadi

OSM15-05 Reconstructing Plio-Pleistocene Intermediate Water Temperatures Using Mg/Ca of Infaunal Foraminifera (Uvigerina peregrina)
Aurora Elmore, Erin McClymont, Harry Elderfield, Sve Kender, Benjamin Petrick

OSM15-06 Holocene Atlantic bottom water inflow at the western Barents Sea margin, European Arctic
Diane Groot, Steffen Aagaard-Sørensen, Katrine Husum

OSM15-07 Suborbital ice-sheets variability in the subpolar North Atlantic during the Early and Mid-Pleistocene (MIS 31–19) as a response of low-latitude forcing
Iván Hernández-Almeida, Francisco Javier Sierra, Isabel Cacho, José Abel Flores
MEETING PROGRAM

FRIDAY, 15 FEBRUARY (continued)

16:00-18:00 BLOCK 4 - Poster Sessions (continued)

OSM15-03 Antarctic linkages to the deep water flow variability during the past 95000 years in the Indian sector of the Southern Ocean
M C Manoj, Meloth Thomam, Rahul Mohan

OSM15-02 Cold-water corals of the West: North Carolina contribute to a North Atlantic basin study
Leila Matos, Furu Miienis, Norbert Frank, Claudia Wernberg, Dirk Hebbeln

OSM15-01 Mo isotopes in tropical estuaries: Implication to paleo-redox proxy
Wallur Rahman, Sunil K. Singh, Vinai K. Rai

OSM15-05 Evolution of the Mediterranean Outflow Water and its oceanographic - climatic implications: Preliminary Results of IODP Expedition 339 in the Gulf of Cadiz and west off Portugal

OSM15-13 Late Neogene planktic foraminiferal events of ODP Site 762B, Exmouth Plateau, eastern Indian Ocean: Regional Diachrony and evidence of late Pliocene Ocean Circulation Changes
Ashutosh Singh, Devesh Sinha

OSM15-15 Meeting the challenge of global high resolution paleoclimate modelling.
Paul Spence

OSM15-14 Oxygen Isotope–Salinity Relationship for Paleosalinity estimation in distinct water masses of Indian & Southern Ocean
Kartik Thammissetti, Manish Tiwari, Siddesh Nagoji

OSM15-11 Oceanographic and climate variability in the Bay of Bengal over the last 60 kyr BP: Foraminiferal evidences

OSM15-10 Seasonality reconciles the discrepancies of sea surface temperature evolution in the Indian Ocean during the last deglaciation
Yiming Wang, Guillaume Leduc, Marcus Regenberg, Nils Andersen, Thomas Blanz, Thomas Larsen, Ralph Schneider

OSM15-16 Control of the Northern Hemisphere Ice Sheets on Glacial Climate Stability
Xu Zhang, Gerrit Lohmann

19:00-22:00 Conference Dinner & Cultural Event (International Centre Goa)

SATURDAY, 16 FEBRUARY

09:00-10:30 BLOCK 1 - Oral sessions

Grande Sala

OSM09 Climate Impact on Human Evolution and Civilizations
Chair: Dhananjay A. Sant, Martin Ziegler

Early human speciation, migration and brain expansion driven by African climate pulses
Mark Maslin, Susanne Shultz

Variable Impact of climate change on populations of archaic humans and modern humans inferred from archaeological evidence
Sheila Mishra, Navin Chauhan, Ashok Singhvi

Late Pleistocene to Holocene climate and seasonality in North Africa from δ18O, δ13C and Mg/Ca analysis of marine and terrestrial mollusc shells (Haua Fteah, Libya)
Amy Prendergast, Rhiannon Stevens, Tamsin O'Connell, Chris Hunt, Graeme Barker

Integration of regionally resolved decline models for the Indus Valley Culture
Carsten Lemmen, Auranzeh Khan

Central American rainfall changes over the past ka and implications on the Classic Maya society
Sebastian Breitenbach, Douglas Kennett, Valorie Aquino, Yermari Asmerom, Jaime Ave, James Baldini, Patrick Bartlein, Brendan Culleton, Claire Ebert, Christopher Jazwa, Martha Macri, Norbert Marwan, Victor Polyak, Keith Prufer, Harriet Ridley, Harald Sodemann, Bruce Winterhalder, Gerald Haug

Medieval climate change and the end of the Norse settlements in Greenland
Sofia Ribeiro, Antoon Kuipers, Marit-Solveig Seidenkrantz, Naja Mikkelsen

10:30-11:00 Coffee break

11:00-12:30 BLOCK 2 - Poster Sessions

OSM04 Climate Modes in the Past
Chair: Ed Hathorne, Nerilie Abram, Manish Tiwari, Thomas Felis

OSM04-01 Climate variability and warming on the Antarctic Peninsula during the last millennium

OSM04-02 SST and Salinity Variations Associated with ENSO and IOD: Records from Indonesian Corals
Sri Yudawati Cahyarin, Intan Suci Nurhati, Miriam Pfefier, Jens Zinke, Mutiara Putri, Edvin Aldrian, Wolf-Chr. Dullo

OSM04-03 Low frequency variability of the Arctic Oscillation (AO) and ENSO during the Holocene recorded in the spatial pattern of Northern Hemisphere extratropical temperatures
Basil Davis, Achille Mauri, Jed Kaplan, Christoph Raible, Flavio Lehner
MEETING PROGRAM

OSM04-04 Sub-seasonally resolved coral records of northern Red Sea climate during the Holocene and the last interglacial
Thomas Felis, Neril Rimbu, Saber Al-Rousan, Henning Kuhnert, Martin Kölling, Gerrit Lohmann

OSM04-05 The Holocene climatic fluctuations in the Ukrainian steppe based on multidisciplinary study of the banded deposits of the lake Saki (Crimea)
Natalia Gerashchenko, Dmitry Subetto, Volodymyr Bakhmutov, Lidia Dubis

OSM04-06 Recent accumulation rate and impurity seasonality derived from NEEM firm cores
Gideon Gfeller, Matthias Bigler, Daiana Leuenberger, Olivia Miri, Hubertus Fischer

OSM04-07 Developing South Atlantic Coral Paleoclimate Records from Racos Atol, Brazil
K. Halimeda Kilbourne, Ruy Kenji Papa de Kikuchi

OSM04-08 Mid-Holocene regional reorganization of climate variability: Analyses of proxy data in the frequency domain
Carsten Lemmen, Kai W Wirtz, Gerrit Lohmann

OSM04-09 The Summer North Atlantic Oscillation: Character and teleconnections over the last 15,000 years
Hans Linderholm, Jee-Hoon Jeong, Chris Folland, Baeck-Min Kim, Tinghai Ou

OSM04-10 Mid- to Late Holocene temperature and salinity changes in the Southwestern Atlantic
Renata Hanmi Nagai, Cristiano M. Chiessi, Silvia H.M. Sousa, Henning Kuhnert, Stefan Mullita, Michel M. Mahiques

OSM04-11 Coral Records of South China Sea Throughflow’s Thermohaline Variations over the Last Century
Intan Sudi Nurhadi, Sri Yudewati Cahyarin, Ed Boyle

OSM04-12 Multi-proxy study of a Lake from mainland Gujarat: Understanding mid-late Holocene climatic fluctuations
Rachna Raj, Vandana Prasad, Anjum Farooqui, Anupam Sharma, Binita Phartiya, Supriyo Chakraborty, Subhash Bhandari, Abha Singh

OSM04-13 A 66 ka stalagmite paleoclimate record from northern Venezuela: A record of Caribbean climate change
Julie B. Retrum, Luis A. Gonzalez, R. Lawrence Edwards, Stacy M. Tincher, Hai Cheng, Franco Urbani

OSM04-14 Relationship between the variations of the location of the ITCZ in the West Pacific and ENSO in different climatic contexts
Marion Saint-Lu, Pascale Bracconnet, Matthieu Lengaigne, Olivier Marti

OSM04-15 High resolution climatic record from the Kumaun Himalaya: A speleothem study
Jaihri Sanwal, B.S. Kotlia, S.M. Ahmad, C.P. Rajendran, Kusala Rajendran

OSM04-16 Late Quaternary climatic signals from the Kumaun Lesser Himalaya: Evidence from a fluvi-lacustrine deposit
Jaihri Sanwal, C.P. Rajendran, M.S. Sheshshayee, Kusala Rajendran

OSM04-17 New insights on last glacial ice-sheet dynamics and retreat deduced from Southeastern Weddell Sea sediment
Daniela Sprenk, Michael E. Weber, Gerhard Kuhn

OSM04-18 Indian Ocean dipole mode and its relation with the Indian summer monsoon variability at multi-centennial to millennial timescales
Manish Tiwari, Siddhesh Nagoji, Kartik Thammisetty, Rahul Mohan

OSM05 Abrupt Changes and Extreme Events - Assessment and Risks

Chair: Pierre Francus, Pierre Antoine

OSM05-04 Abrupt climatic events in continental Europe during MIS 5 (Early-glacial / 112-70 ka): Highlighting a new reference record at Dolni Vestonice (Czech Republic)
Pierre Antoine, Denis-Didier Rousseau, Markus Fuchs, Sebastian Kreutzer, France Lagoiroux, Olivier Moine, Christine Hatte, Caroline Gauthier, Jiri Svoboda, Lenka Lisa

OSM05-05 Analysis of tree-ring data of fir (Abies densa) in relation to climate vis-à-vis movement of Zemu glacier, Eastern Himalaya
Amalava Bhattacharyya, Mayank Shekhar, Santosh K. Shah, Vandana Chaudhary

OSM05-06 Abrupt Climate Change- Past and Present and Future Meet
Peter Carter

OSM05-07 Abrupt changes in lake sediment properties are not always reflecting regional abrupt changes: Example from varved Lake Yoa, Northern Chad
Pierre Francus, Hilde Eggermont, Dirk Verschuren, Stefan Kröpelin

OSM05-08 4100 years long tree-ring record of extreme temperature events in the Yamal Peninsula
Lyudmila Gordanova, Rashit Hantermirov

OSM05-09 Gravel beaches: Signals of changing
Helena Granja, José Pinho

OSM05-10 Seasonal and centennial cycles of carbonate mineralisation during the past 2500 years from varved sediment in Lake Shira, South Siberia
Ivan Kaloj, Andrey Darin, Denis Rogozin, Gennady Tretyakov

OSM05-11 Millennial and orbital climate variability in West Antarctica
Bradley Markle, Eric Steig, Ed Brook, WAIS Divide Project Members, Todd Sowers, T. J. Fudge, Spruce Schoenemann, Andrew Schauer, Cecilia Bitz, Qinghua Ding, Emily Newsom, Ken Taylor

OSM05-12 Tree-ring-based long-term snowfall records for Western Himalaya, India
Ramaratna Yadav, Mahendra R Bhatiyani

OSM09 Climate Impact on Human Evolution and Civilizations

Chair: Dhananjay A. Sant, Martin Ziegler

OSM09-10 Correlation between the climatic and geological events and changing of archaeological cultures in SE Altai (Russia) during the Late Holocene
Anna Agatova, Roman Nepo, Igor Slijsarenko, Vladimir Myglan, Valentin Barinov, Andrey Nazarov

OSM09-11 Regional integration of lake sediment and archaeological archives: Holocene climate variability and socio-evolutionary pathways in Cappadocia, central Anatolia
Samantha Alcock

OSM09-12 Dating the earliest human occupation of Western Europe: New evidences from the fluvial terraces system of the Somme basin (North France)
Pierre Atonice, Nicole Limonin-Lozouet, Marie-Hélène Moncel, Jean-Luc Locht, Jean-Jacques Bahain, Pierre Voinchet, Patrick Auguste

Program
MEETING PROGRAM

SATURDAY, 16 FEBRUARY (continued)

11:00-12:30 BLOCK 2 - Poster Sessions (continued)

OSM09-01 Megalake Chad occurrences in the Pliocene: An insight into early hominid environment
Camille Contoux, Gilles Ramstein, Anne Jost, Mathieu Schuster, Pierre Sepulchre, Pascale Bracconnot

OSM09-08 Impacts of climate variability and Maya settlement on Laguna Tuspán (Petén, Guatemala) during the past 5000 years
Sophie Fleury, Bruno Maläizé, Philippe Martinez, Viviane Bout-Roumazeilles, Jacques Giraudou, Didier Galop, Alexandre Torneberg, Kees Nooren, Karine Charlier, Pierre Carbonel, Marie-Charlotte Arnauld

OSM09-17 Extreme Weather, Famine, Dynasty Revolution, and the Possible Connection to Volcanic Activities over the Past 1500 years in China
Chaochao Gao

OSM09-11 Assessing impacts of climate variability on the demography of pre-Hispanic societies from the Atacama Desert over the past three millennia
Eugenia Gayo, Claudio Latorre, Calogero Santoro

OSM09-16 History of climate: 2000 Leagues overseas
Alain Gioda, Mike Baker

OSM09-22 Mineral Magnetic studies to indicate Paleo-anthropogenic loading of particulate matters in the Mumbai and Delhi metropolitan regions
Swapnil Guadadhe, Satish Sangode, Shiva Kumar Patil, Dilip Chate, Dhananjay Meshram

OSM09-21 Regime shifts in past ecosystems of maar lakes: Lessons for building ecological resilience to future climate change
Giri Kattel, Frank Sirocko, Paul Augustinus

OSM09-02 Palaeoenvironments of the Olongesaille Basin during Mid-Late Pleistocene inferred from Phytolith analyses
Rahab Kinyanjui, Michael Meadows, Lindsey Gillson

OSM09-15 On the sensitivity of the simulated European Neolithic transition to climate extremes
Carsten Lemmen, Kai W Wirtz

OSM09-06 Modeling and simulation of Holocene hunter-gatherer and agro-pastoral groups to explore the role of climate in population behaviour
Marco Madella, Andrea Balbo, Carla Lancelotti, Bernardo Rondelli, Xavi Rubio, Alexis Torrano, Matthieu Sapet,eur, Victoria Reyes-Garcia, P. Ajithprasad, Andreas Angourakis

OSM09-09 Human responses to monsoon variability in South East Asia: Cambodian pre-Angkor and Angkor periods
Naoko Nagumo, Toshikiko Sugi, Sumiko Kubo

OSM09-20 Recent climate change in West Africa and adaptation strategies proposed by rural population
Timothée Ourbak, Benoit Sarr

OSM09-12 Peat in the desert: A local environmental history for the Holocene in semi-arid Jordan, and its comparison to the evolution of societies
Claire Rambeau

OSM09-14 Climate change and the Plague of Justinian
Neil Roberts, Matthew Jones, Warren Eastwood, Jessie Woodbridge, Samantha Alcock, Jonathan Dean

OSM09-05 The effect of late Holocene precipitation changes on natural resources and human society in northern Europe
Gunhild Ninis Rosqvist, Melanie Leng

OSM09-18 Evidence of Human-Animal-Climate interaction in lower reaches of Narmada Valley, Western India
Dhananjay Sant, K Krishnan, Vijay Sathe, S. N. Rajaguru, Prabhin Sukumaran, Partch Chauhan

OSM09-19 Examining the relationships between Holocene climate change, hydrology and human society in Ireland
Philip Stastney

OSM09-13 The impact of environmental change on past human societies in the Central Peloponnesse (Greece)
Ingmar Unkel, Helmut Brückner, Walter Dörfler, Timothy Filley, Jeanette Forsén, Christian Heymann, Haydn Murray, Oliver Nelle, Amidt Schimmelmann, Christine Shiner, Helen Zagan

OSM09-03 Development of modern human behaviour linked to rapid climate change
Martin Ziegler, Margit Simon, Ian R. Hall, Stephen Barker, Chris Stringer, Rainer Zahn

OSM10 Sea Level Change and the Coastal Zone: Threats for Human Societies
Chair: Yusuke Yokoyama

OSM10-07 Diversity of mangrove plants in relation to palaeoenvironment during Quaternary Period in Bengal Basin
Nimai Chandra Barui, Payel Roy

OSM10-16 Effects of sea level changes and tectonics on scalping the Late Quaternary deposits along the Southern Saurashtra coast, Western India
Subhash Bhandari

OSM10-01 Deciphering natural trends from anthropogenically induced changes in coastal areas: Example of the hypoxia in the Lower Estuary of St. Lawrence, eastern Canada
Anne de Vernal, Claude Hillaire-Marcel, Benoit Thibodeau, Dhahri Nouha

OSM10-14 Chemical Fractionation of Metals in Sediment cores of Intertidal regions along Ulhas Estuary, Mumbai, India
Lina Fernandes, Ganapathi N Nayak

OSM10-10 Identification of Tsunami deposits and their impact on coastal zones: A study case of the Boca do Rio estuary (Algarve, Portugal)
Eric Font, Cristina Veiga-Pires, Manuel Pozo, Silvia Nave, Susana Costa, Francisco Ruiz Muñoz, Manuel Abad, Nuno Simões, Silvia Duarte

OSM10-03 Anthropogenic impact in coastal Baltic Sea over the last 2000 years using biological proxies
Anupam Ghosh, Wenxin Ning, Helena L. Filipsson

OSM10-04 Late Holocene environmental change inferred from coastal lake and estuarine sediments in the Wilderness area, southern Cape, South Africa
Torsten Haberzettl, Roland Mäusbacher, Bastian Reinwarth, Siegfried Clausnitzer, Sarah Franz, Kyle Kirsten, Jussi Baade, Thomas Kasper, Lynne Quick, Gerhard Daut, Michael Meadows

OSM10-13 Postglacial-Holocene relative sea level data from the White Sea Coast, Russia
Vasily Kolga, Olga Korsakova

OSM10-11 Postglacial RSL changes of White Sea according the lithological and micro-paleontological data (Kandelaksha Bay, NW Russia)
Olga Korsakova, Vasily Kolga, Nadezhda Lavrova
### OSM10-15 Tectonic geomorphology of the Holocene marginal marine basin of the Great Rann of Kachchh, Western India: Implication for pattern of emergence during historical times

Deepak Maurya, Nitesh Khonde, Archana Das, Laxman Chamyal

### OSM10-08 Analysis of Mangroves vegetation history from Kanjani (Kerala), the South West coast of India

Sandhya Sharma, Amalava Bhattacharyya

### OSM10-06 Mangrove and coastal environment changes during the Holocene in the Mahanadi Delta, India

Shilpa Singh

### OSM10-09 Persistent non-solar forcing of Holocene storm dynamics in coastal sedimentary archives

Philippe Sorrel, Maxime Debret, Isabelle Billaud, Samuel L. Jaccard, Jerry F. McManus, Bernadette Tessier

### OSM10-12 Holocene sea-level change in Sri Lanka and melting history of Antarctic ice sheet

Yusuke Yokoyama, Yosuke Miyairi,Jun’ichi Okuno, Kazuhsa Goto, Tsuyoshi Haraguchi, Hiroyuki Matsuzaki

### OSM10-05 Holocene evolution of Qing’an embayment, Southern China

Fengling Yu, Adam D Switzer, Bishan Chen, Zhuo Zheng, Deli Wang

### OSM10-02 Assessment of the Possible Impact of Climate Change on Fresh Water – Saline Water Interaction in the Coastal Aquifers of Bangladesh due to Sea-level Rise

Anwar Zahid, Khurshid Jahan

#### 12:30-14:00 Lunch

#### 14:00-15:30 BLOCK 3 - Oral sessions

**Grande Sala**

**OSM10 Sea Level Change and the Coastal Zone: Threats for Human Societies**

Chair: Yusuke Yokoyama

Uncertainty on future sea level rise - implications for planning and the role of scientist qua advisor

Per Wikman-Svahn

Anthropocene changes in particulate and dissolved fluxes from major rivers and their impact on coastal processes: methodological issues (solicited talk)

Claude Hillaire-Marcel

Erosion of Arctic permafrost coasts and mobilization of dissolved organic carbon (DOC) from ground ice

Michael Fritz, Nicole Couture, Hugues Lantuit

The probable drivers of contemporary Effective sea level rise rate in southwest Bangladesh

John Petrick, Julian Orford

What can we learn from recent catastrophic coastal events in Vietnam, India, Philippines and Thailand?

Adam Switzer, Christos Gouramanis, Ying Sin Lee, Charles Bristow, Charles Rubin, Kruawun Jankaew, S. Srinivasalu, Lam Dinh Doan, Fernando Siringan, Que Dinh Hoang

Using sea-level proxy data to constrain future sea-level rise

Stefan Rahmstorf

**OSM05 Abrupt Changes and Extreme Events - Assessment and Risks**

Chair: Pierre Francus, Pierre Antoine

Regional reconstructions of the past extreme flood activity from Alpine lake sediments

Bruno Wilhelm, Fabien Arnaud, Pierre Sabatier, Jean-Jacques Delannoy

The Indian Monsoon anomaly at 4k; dynamical analogs and cultural implications

Max Berkelhammer, Ashish Sinha

A high resolution dust flux record of the last glacial period from northwestern Chinese Loess Plateau

Liping Zhou, Jintang Qin

The last rapid decline of lake levels on the Tibetan Plateau

Torsten Haberzettl, Thomas Kasper, Sascha Fürstenberg, Thomas Grau, Karoline Henkel, Hao Long, Sabine Miehe, Youliang Su, Gerhard Daut, Peter Frenzel, Junbo Wang, Liping Zhu, Roland Mäusbacher

Extreme Events: Himalayan Floods

Shipra Chaudhary, Y.P. Sundriyal, Navin Juyal, R. J. Wasson

#### 15:30-16:00 Coffee break

#### 16:00-18:00 BLOCK 4 - Plenary Session and Future Earth Discussion

**16:00-16:30 Plenary Talk:** Martin Jones - Food economics in (pre-)historical times

**16:30-17:00 Plenary Talk:** Kathy Willis - Climate change and biodiversity

**17:00-17:45 Plenary Discussion:** Future Earth

**17:45-18:00 Closing**

#### SUNDAY, 17 FEBRUARY

**Field Trips**