



Scientific Program

2nd LaACER: Latin-American Abrupt Climate Changes and Environmental Responses

ABEQUA congress, 5th to 8th August 2013, Natal, Brazil



5th Aug 2013

Morning – Paleoclimate changes over the American continents	
Conveners: Francisco Cruz and Paul Baker	
9:30-9:40	Introduction to 2nd LaACER symposium and workshop Francisco Cruz and Dunia H. Urrego
9:40-10:05	Atmospheric Evolution in North America during the last deglaciation Hong Wang (invited)
10:05-10:30	Abrupt millennial wet events in central Bolivia from Speleothem Isotope Records during the last 35,000 years Francisco Cruz (invited)
10:30-10:50	Internal structure and chronology of the climatic response to the Heinrich Stadial 1 event over South America Nicolás Strikis
10:50-11:10	Coffee break
11:10-11:35	LA-ICPMS analysis of stalagmites from Botuverá Cave, insights into the structure of abrupt climate-change events during the last 40,000 years Juan Pablo Bernal (invited)
11:35-11:55	Last Glacial paleotemperature record from subtropical Brazil based on stable isotope analysis of fluid inclusions in speleothems Christian Millo
11:55-12:15	Climatic variability from orbital to millennial timescales in the Southern portion of NE Brazil since last interglacial period Eline Barreto
12:30-2:00	Lunch break
Afternoon – Environmental Changes in South America on millennial time-scale	
Conveners: Dunia H. Urrego and Suzette Flantua	
2:00-2:25	Understanding Pleistocene vegetation and climate dynamics by quantifying change: case studies from Mauritius and Colombia Henry Hooghiemstra (invited)
2:25-2:50	Environmental change in the tropical Andes: from millennial to centennial variability modulated by temperature and precipitation Dunia H. Urrego (invited)
2:50-3:15	Millennial-scale Climate Variability in Central Mexico: the Chalco Lake Record Guaria Cardénes (invited)
3:15-3:40	40,000 years of biomass burning in the Neotropics Mitchell Power (invited)
3:40-4:05	Paleoenvironmental and land use changes records in Brazilian Amazonia ecosystems Renato C. Cordeiro (invited)
4:05-4:40	Open discussion
4:40-5:00	Coffee/Drinks

6th Aug 2013

Morning– Changes in oceanic conditions and coastal dynamics over the tropics Conveners: Cristiano Chiessi and Ana Luiza Albuquerque	
9:30-9:55	The role of North Brazil Current transport in the paleoclimate of the Brazilian Nordeste margin and paleoceanography of the western tropical Atlantic during the late Quaternary Paul Baker (invited)
9:55-10:20	Millennial-scale climatic variability in the southernmost reaches of the South American summer monsoon during the last deglaciation Cristiano Chiessi (invited)
10:20-10:45	Abrupt changes in Tropical Atlantic (Guiana basin) over the past 130,000 years? Oscar Rama-Corredor (invited)
10:50-11:10	Coffee break
11:10-11:30	Oceanographic and climatic record of the last 47 ka B.P in marine sediments from the Gulf of Tehuantepec Julio Pavón-Moreno (invited)
11:30-11:50	Dunefield stabilization during the Heinrich Stadial 1 climatic event: the case of Lençóis Maranhenses, Northeastern Brazil André Zular
11:50-12:10	The Heinrich Stadial 1 event and the establishment of semi-arid climate in NE Brasil from integration of sedimentologic, chronologic and remote sensing results Vinícius Mendes
12:10-12:35	Enhanced sediment deposition on the submarine Amazon Delta during the last decades - Results from hydroacoustic data acquired during the AMADEUS project (Cruise MSM 20/3, February/March 2012) Tilmann Schwenk (invited)
12:35-2:00	Lunch break
Afternoon – Climate patterns over South America during the last millennia Conveners: Juan Pablo Bernal and Abdelfettah Sifeddine	
2:00-2:25	South American climate teleconnections during the last millennium Abdelfettah Sifeddine (invited)
2:25-2:50	Novel approach for reconstructing late Holocene climate variability in Brazil: stable carbon and hydrogen isotopes of <i>n</i> -alkanes from bat guano in the Caverna do Urubu (Nordeste) Johan Eternou (invited)
2:50-3:10	South American Summer monsoon activity during the last 10.4 ky in a high-resolution speleothem record dated by ²³⁰ Th from north-eastern Peruvian Andes Maria Gracia Bustamante Rosell
3:10-3:30	Rainfall reconstruction over Eastern Peruvian Andes during Holocene based on speleothem isotope records James Apaestegui
3:30-3:50	Multidecadal Variability of South-American Summer Monsoon during the last 2000 years in central Brazil from speleothem records Jean Sebastien Moquet
3:50-4:10	South American Monsoon reconstruction of the last millenniums in Brazil from speleothems Valdir Novello

4:10-5:00	Poster session
	Connectivity dynamics since the last glacial maximum in the northern Andes; a pollen-driven framework to assess migration capacities and landscape restrictions Suzette Flantua (invited)
	Understanding the influence of SSA patterns on decadal to multidecadal climatic variability in Brazil Gyrlene Silva
	Abordagem estatística em dados paleoclimáticos de elementos traço e microestratigrafia de estalagmites Lucas Inglez
	Variações paleoclimáticas nos Andes orientais da Colômbia nos últimos 5500 anos BP Veronica Marcela Ramirez Ruiz
	Paleohydrological controls on sedimentary organic matter composition in an Amazon floodplain lake, Lake Maracá (Brazil) during the Late Holocene Luciane Silva Moreira
	Varição na taxa de acumulação de sedimentos siliciclásticos na porção sudoeste do Atlântico Sul durante o Holoceno Marília C. Campos
	Variações na porção superior da coluna de água da região de Abrolhos (BA) desde o Último Máximo Glacial Bárbara Moura de Carvalho

4:40-5:00 Coffee/Drinks

7th Aug 2013

Morning – 2nd LaACER workshop	
9:30-9:40	Workshop introduction – objectives
9:30-10:50	LaACER break-out sessions Discussions
10:50-11:10	Coffee break
11:10-12:30	LaACER break-out sessions Discussions
12:35-2:00	Lunch break
Afternoon – 2nd LaACER workshop	
2:00-4:40	LaACER break-out sessions Discussions

4:40-5:00 Coffee/Drinks

8th Aug 2013

9:00 AM to 7:00 PM	Field trip Visit to sand dunes and lakes in Touros, Rio Grande
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