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Sessions and Coordinators

1. The Archaeology of Southern Hemisphere Coastal Deserts

Peter Mitchell Gustavo Martínez

2. Late Quaternary Climatic and Environmental Dynamics: a View from the Southern Hemisphere Deserts

María Eugenia de Porras Brian Chase

3. Interdisciplinary Perspectives on the Initial Occupation of Southern Hemisphere Deserts

César Méndez Daniel H. Sandweiss

4. Visual Encounters: The Role Art Played in Contact, Interactions and Relationships between Southern Desert Societies

María Isabel Hernández Llosas Daniela Valenzuela June Ross

5. Geomorphology and Quaternary Environmental Evolution of Southern Deserts

David S. G. Thomas Alfonsina Tripaldi

6. Historical Challenges for Desert Peoples: Towards the Comparative Study of Responses to Intrusions and Ecological Change

Alistair Paterson Amalia Nuevo Delaunay

7. Advances in Archaeological Methods: Developments and Applications to the Southern Deserts

Valeria Cortegoso Kane Ditchfield

8. Desert and Semi-Desert Paleoecology, Paleoenvironments, and Paleoclimates

Eugenia Gayó Antonio Maldonado

9. General Issues in Desert Archaeology

Karen Borrazzo Alan N. Williams

10. Round-Table: Comparative Frameworks for the Analysis of Archaeological Discontinuities

Peter Veth Ramiro Barberena Jo McDonald

Timetable

November 9		10 11		12	13	14	15
	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8:30		Introduction					Transfers to
9:00		2. Paleoecology (de Porras and Chase)	3. Colonization (Méndez and Sandweiss)	7. Methods (Cortegoso and Ditchfield)	9. Desert Archaeology (Borrazzo and Williams)	8. Paleoecology (Gayo and Maldonado)	Mendoza and the airport
10:00		- · · · · ,					
10:30				Coffee and Posters			
11:00		2. Paleoecology	3. Colonization	7. Methods (Cortegoso and	9. Desert	8. Paleoecology (Gayo and	Field trip to Patagonia
12:00		(de Porras and Chase)	(Méndez and Sandweiss)	Ditchfield)	(Borrazzo and	Maldonado)	departs
12:30				Lunch	Williams)	Lunch	
13:00				24.16.1			
14:00	Arrival and Registration	Lur	nch	Depart to Salentein	Lunch		
14:30				Bodega tour and			
15:00		1. Coastal deserts (Mitchell and	5.	wine tasting	6. Ecological intrusions	10. Roundtable (Veth et al.)	
16:00		Martinez)	Geomorphology (Thomas and Tripaldi)	4. Rock Art (Hernández et al.)	(Paterson and Nuevo D.)		
17:00							
17:30							
18:30			Coffee and Posters			Individual session meetings	
19:30		Keynote 1	Keynote 2	Keynote 3	Keynote 4 (Borrero)		
20:00		(Williams)	(Hitchcock)	(Villalba)	Book Presentation	Plenary session	
20:30	Inaugural Dinner		Closing dinner and "Desert Party"				
21:00	Diffici					Descrit arty	

Sunday, November 9th

10:00–20:00 Registration (Lobby Hotel Fuente Mayor)

14:30–19:00 Optional activities: trekking, horse riding, or rafting

(Lobby, Hotel Fuente Mayor)

20:30 Inaugural dinner

Monday, November 10th

8:30 Ramiro Barberena, Calógero Santoro, and David S. G. Thomas

Introduction to the 4SDC: Its History and Comparative Goals

2. LATE QUATERNARY CLIMATIC AND ENVIRONMENTAL DYNAMICS: A VIEW FROM THE SOUTHERN HEMISPHERE DESERTS

Coordinators: María Eugenia de Porras and Brian M. Chase

9:00 Paul Hesse

Quaternary Paleoclimates and Paleoenvironments of the Australian Deserts

9:30 Brian M. Chase and Manuel Chevalier

Drivers and Responses of Late Quaternary Southern African Paleoenvironments

10:00 M. Virginia Mancini, Florencia Bamonte and M. Alejandra Marcos

Vegetation and Environmental Changes in Extra-Andean Patagonia, Argentina

10:30 Coffee Break and Posters

11:00 Claudio Latorre and Antonio Maldonado

New Paleoecological and Paleoclimate Perspectives for the Late Quaternary of the Atacama Desert Using Rodent Middens

11:30 David S. G. Thomas and Richard M. Bailey

Accumulation Rate Variability Analysis of Southern Desert Dune Chronologies

11:50 Karsten Schittek, Sebastian Kock, Liliana C. Lupo, Andreas Lücke, and Frank Schäbitz

High-Altitude Cushion Peatlands as Sentinels of Holocene Environmental Changes in the Central Andes (NW Argentina)

12:10 María Eugenia Gayo, Calogero Santoro, and Claudio Latorre

Past Human Demography as Environmental-Proxy Indicator: Exploring Its Potential with an Example from the Arid Western Andean Region

12:30 Brief Presentation of Posters

Adriana Mehl and Leandro D. Rojo

Mid- to late Holocene Paleoenvironmental Record at El Peñón Glacial Valley (~35°15′ S, 70°31′W), High Andes Cordillera

Brenda Oxman, Hugo Yacobaccio, Liliana Lupo, Pablo Tchilinguirian, and Julio Kulemeyer

Paleoenvironmental Studies in Barrancas (Jujuy Province) and Its Implications for Human Occupations (~11,000–5000 BP)

Karsten Schittek, Anne Niemeyer, and Liliana Lupo

Late Holocene Landscape and Climate Evolution in the Sierra de Santa Victoria (NW Argentina, Jujuy) deduced from a High-Andean Peat Record

Jan Wowrek, Karsten Schittek, Bertil Mächtle, and Frank Schäbitz

Paleoenvironmental Reconstruction from a Hard-Cushion Peatland in the Eastern Cordillera, Southeastern Peru

Sebastian Kock, Karsten Schittek, Liliana Lupo, Andreas Lücke, Holger Wissel, and Frank Schäbitz

A 3300-Year High-Resolution Cushion Peatland Record of Climatic and Environmental Change as Recorded in Stable Isotope Proxies from Oxychloe Peat (NW Argentina, Jujuy)

Andrés Zamora-Allendes, María Eugenia de Porras, and Antonio Maldonado

Climate–Taxa Responses Based on Modern Rodent Midden Pollen Assemblages from the Central Chilean Andes (18–25°S)

Juan Luis García, Horacio Larraín, Claudio Latorre, Josefina Hepp, Pablo Osses, Andrés Moreira, Pilar Cereceda, and Camilo del Río

Reconstructing Fog-Climate Variability at the Coastal Atacama Desert: A Multidisciplinary Approach from the Alto Patache Fog Oasis, Chile

Carina Llano, María Eugenia de Porras, Ornela M. Beltrame, and Ramiro Barberena

Fossil Rodent Middens from Northern Patagonia (Argentina): Preliminary Results of Holocene Environmental Changes in the Monte Semi-Desert

Francisca P. Díaz and Claudio Latorre

Using $\delta^{15}N$ to Reconstruct Climate Changes and to Trace Human Impacts on the N Cycle in Northern Chile

- 12:40 General Discussion
- 13:00 Lunch

1. THE ARCHAEOLOGY OF SOUTHERN HEMISPHERE COASTAL DESERTS

Coordinators: Peter Mitchell and Gustavo Martínez

14:30 Peter Mitchell and Gustavo Martínez

Introduction

14:45 **Jayson Orton**

Late Holocene Archaeology in Namaqualand, South Africa: Hunter-Gatherers and Herders in a Semi-Arid Environment

15:05 **Jo McDonald**

Murujuga (Dampier Archipelago) Deep Time: When Arid Hunter-Gatherers Became Coastal Foragers

15:25 Peter Veth

Unpacking the Archaeological Signatures of Maritime Deserts

15:45 **Federico L. Scartascini**

The Role of Fishing in Coastal Deserts: Learning from Patagonia

16:05 Gustavo Martínez, Florencia Santos Valero, Natalia Carden, Luciana Stoessel, Gustavo Flensborg, Ana Paula Alcaraz and Erika Borges Vaz

Was there a Process of Regionalization in North-Eastern Patagonia During the Late Holocene?

16:30 Genevieve Dewar and Brian A. Stewart

Paleoenvironments, Sea Levels, and Land Use in Namaqualand, South Africa during MIS 6-2

16:50 General Discussion

17:30 Coffee Break and Posters

19:00 Martin Williams—Keynote Talk 1

ICE, FIRE, WIND AND WATER: QUATERNARY ENVIRONMENTS IN THE SOUTHERN DESERTS

20:30 Dinner at Fuente Mayor Hotel Restaurant

Tuesday, November 11th

3. INTERDISCIPLINARY PERSPECTIVES ON THE INITIAL OCCUPATION OF SOUTHERN HEMISPHERE DESERTS

Coordinators: César Méndez and Daniel H. Sandweiss

8:30 **César Méndez**

Introduction and Goals

8:45 Marjorie Sullivan and Philip Hughes

Paleoclimate and Human Occupation in Arid South Australia: Evidence from the Roxby Dunefield

9:05 Phillip J. Habgood

"Coloniser Mode" Exchange and the Occupation of New Territories

9:25 César Méndez, Donald Jackson, Roxana Seguel, Amalia Nuevo Delaunay, Ismael Murillo, and Antonio Maldonado

High-Quality Translucent Quartz Crystal Procurement from Quarry Site Spanning the Late Pleistocene to Early Holocene Transition in Northern Semiarid Chile: Valiente Site Context and Geoarchaeology

9:45 **Billy Griffiths**

Reading Puntutjarpa: A History of Archaeology in Australia's Western Desert

10:05 Calógero Santoro, Claudio Latorre, Eugenia Gayó, Donald Jackson, Antonio Maldonado, Paula Ugalde, Jason Rech, Daniela Osorio, José Capriles, Katherine Herrera, Delphine Joly, and Ricardo de Pol-Holz

Climate Change and Cultural Trajectories in the Atacama Desert

10:30 Coffee Break

11:00 Jane Balme and Sue O'Connor

Occupation on the Edge of the Desert in the Southern Kimberley, Western Australia

11:20 Pablo G. Messineo, Marcela S. Tonello, Nahuel A. Scheifler, Silvina Stutz, and Diego Navarro

Human Occupations in Semi-Arid Environments of the Central Pampean Dunefield During the Early Holocene (Buenos Aires Province, Argentina)

11:40 Charles R. Stern

Impact of the Mid-Holocene H1 Eruption of the Hudson Volcano: Its Role in Reducing Long-Distance Open-System Interactions in the Arid Area of Southernmost Patagonia

12:00 Brief Presentation of Posters' Authors

Carlos A. Aschero, Elizabeth Pintar, Jorge Martínez, Salomón Hocsman, and Pilar Babot

From the Highest Desert... Hunter-Gatherer Resources, Mobility and Interactions. Antofagasta de la Sierra 9000-3000 BP, Argentine Southern Puna

- 12:05 General Discussion
- 13:00 Lunch

5. GEOMORPHOLOGY AND QUATERNARY ENVIRONMENTAL EVOLUTION OF SOUTHERN DESERTS

Coordinators: David S. G. Thomas and Alfonsina Tripaldi

14:30 David S. G. Thomas and Alfonsina Tripaldi

Introduction

14:45 Alexandra L.K. Rowell, David S. G. Thomas, and Richard M. Bailey

Sand Ramp Accumulation and Preservation: New Analyses and Data from Southern Africa

15:05 Jan-Hendrik May, Tim Cohen, and Samuel Marx

Last Glacial Maximum Sandy Lunettes in Arid Central Australia and their Paleoenvironmental Significance

15:25 Patrick De Deckker, Jan-Berend Stuut, David Heslop, and Felix Temmesfeld

1.2 Million Years of Aeolian Activity in Northwestern Western Australian Recorded in a Deep-Sea Core in the Eastern Indian Ocean

15:45 **Jason A. Rech and Craig D. Tully**

Holocene Incision of In-Stream Wetlands in Río San Salvador and Its Implications for Mega-Droughts in the Atacama Desert, Chile

16:05 Adriana Mehl

The Late Pleistocene-Holocene Fluvial Dynamics in the Arroyo La Estacada (~33–34° S), Mendoza Province Andean Piedmont, Argentina

16:25 Alfonsina Tripaldi and Steven L. Forman

Paleoenvironmental Evolution of a Subtropical Inland Paleo-Dune Field of Western Pampas, Argentina, During the Past ~50,000 Years

16:45 Isabel Vilanova, Karsten Schittek, Mathias Geilenkirchen, and Wilfried Schulz

Late Holocene Environmental Changes in the Western Pampas of Argentina Recorded in Sediments from a Water-Filled Deflation Pan

17:05 Brief Presentation of Posters' Authors

Adriana Mehl, Leandro D. Rojo, and Mariana Pietrelli

Mid- to Late Holocene Paleoenvironmental Record at El Peñón Glacial Valley (\sim 35°15′ S, 70°31′W), High Andes Cordillera

Juan Luis García, Belisario Andrade, Christopher Lüthgens, and Marcus Fiebig

Preliminary OSL Dating of Ancient Coastal Sand Dunes at the Semiarid Coast of Chile: Towards a Regional Model of Pleistocene Climate Variability

- 17:10 General Discussion
- 18:00 Coffee Break and Posters

19:00 **Robert K. Hitchcock**—*Keynote Talk 2*

SOUTHERN DESERT ADAPTATIONS: ANTHROPOLOGICAL AND ARCHAEOLOGICAL PERSPECTIVES ON THE SAN OF THE KALAHARI REGION, SOUTHERN AFRICA

20:30 Dinner at Fuente Mayor Hotel Restaurant

Wednesday, November 12th

7. ADVANCES IN ARCHAEOLOGICAL METHODS: DEVELOPMENTS AND APPLICATIONS TO THE SOUTHERN DESERTS

Coordinators: Valeria Cortegoso and Kane Ditchfield

8:30 Kane Ditchfield and Valeria Cortegoso

Introduction and Goals

8:40 Kane Ditchfield

Tracking Variation in Stone Artifact Assemblage Formation: Applications for the Southern Deserts

9:00 Karen Borrazzo

Lithic Taphonomy in Desert Environments: Advances from Patagonia (Southern South America)

9:20 Elizabeth Pintar, Jorge Martínez, Carlos Aschero, and Michael D. Glascock

Obsidian Use and Mobility Range During the Early and Middle Holocene in the Salt Puna

9:40 Patricia Escola, Salomón Hocsman, and María del Pilar Babot

Obsidian Circulation: The Case of Antofagasta de la Sierra Basin (Southern Argentinean Puna) During the Middle and Late Holocene

10:00 Coffee Break and Posters

10:30 Juris Burlakovs, Zane Vincevica-Gaile, Vita Rudovica, Karina Stankevica, Dita Pole, Maris Krievans, Liga Zarina, Edmunds Berzins, and Martins Grosbahs

Long-Term Multidisciplinary Research Project of Settlements and Burials in the Tuva Republic: The Ancient Puzzle of Scythian Wanderings in Eurasia

10:50 Alexander Cherkinsky

AMS and Stable Isotope Analyses of Bone and Tooth Materials in the Desert Regions

- 10:40 Brief Presentation of Posters
- 10:50 General Discussion
- 11:30 Coffee Break and Posters

Sebastián Pasqualini

Use of Different Areas in Northwestern Santa Cruz (Patagonia, Argentina) During the Late Holocene. An Anthracological Approach

Vita Rudovica, Zane Vincevica-Gaile, Juris Burlakovs, Arturs Viksna, and Gunita Zarina Analysis of Ancient Human Bones: Development of Methodology in Archaeological Chemistry

Marcelo Cardillo, Karen Borrazzo, and Judith Charlin

Environment, Space, and Morphological Variation of Projectile Points in Patagonia (Southern South America)

David W. Zeanah, Mark E. Basgall, David Glover, and Ian Seah

Lithic Landscape and Technological Organization of Barrow Island: A View from the Open Scatters

Eugenia Carranza, Jimena Alberti, Marcelo Cardillo, and Cristian M. Favier Dubois

Taphonomic Studies of Surface Lithic Scatters from the Coastal Area of San Matías Gulf, Río Negro Province, Argentina

María Nella Quiroga, Augusto Tessone, Carina Llano, Alejandra Gasco, Florencia Gordón and Ramiro Barberena

Isotopic Ecology in the Northern Patagonian Deserts of Neuquén (Argentina)

- 12:30 **Lunch**
- 14:00 Departure to the winery <u>Bodega Salentein</u>
 Meeting place: lobby of the Hotel Fuente Mayor
- 14:40 Wintery tour and wine tasting

4. VISUAL ENCOUNTERS: THE ROLE ART PLAYED IN CONTACT, INTERACTIONS, AND RELATIONSHIPS BETWEEN SOUTHERN DESERT SOCIETIES

Coordinators: María Isabel Hernández Llosas, Daniela Valenzuela, and June Ross

16:00 **Jo McDonald**—Invited talk
Rock Art in the Australian Deserts

16:20 Vivian Scheinsohn and Inés Caridi

Rock Art and Mutual Information Networks

16:40 **Anahí Re**

Information Exchange and Group Differentiation in Southern Patagonia During the Late Holocene. New Perspectives from Rock Art Research

17:00 Sam Harper

Heterogeneous Shield Designs Found in Rock Art on the Pilbara Desert Edge

17:20 Natalie Franklin

Encountering the Panaramitee: Rock Art and Interaction in Arid Zone Australia

17:40 Brief Presentation of Posters

Daniela Valenzuela, Norma Ratto, Marcela Sepúlveda, Calogero M. Santoro, and Indira Montt

Social Interaction and Information Transfer: Inter-Basin Stylistic Variability in the Rock Art of the Atacama Desert, Northern Chile

Anahí Re, Gisela Cassiodoro, Josefina Flores Coni, and Francisco Guichón

Circulation of Information and Goods in Central-Southern Patagonia: Distribution of Rock Art and Lithic Raw Materials During the Late Holocene

Guadalupe Romero

Rock Art and Information Exchange in Desert Environments of Northern Patagonia: Data and Perspectives from the Northeast of Neuquén Province (Argentina)

Mara Basile and Norma Ratto

Images from Pathways and Villages from the First Millennium in the Fiambalá Region (Catamarca, Argentina)

Flavia Sergo and M. Sol Zárate Bernardi

Petroglyphs in Cerro Tunduqueral, Uspallata, Mendoza (Argentina): A Landscape Approach in a High-Altitude Desert

18:00 Coffee Break and Posters

19:00 **Ricardo Villalba**—Keynote Talk 3

PAST AND PRESENT CLIMATIC DYNAMICS ALONG THE ARID DIAGONAL IN SOUTH AMERICA: IMPLICATIONS FOR HUMANS

- 20:30 Argentine Barbecue (Asado) at Salentein Winery
- 22:30 Return to Fuente Mayor Hotel

Thursday, November 13th

9. GENERAL ISSUES IN DESERT ARCHAEOLOGY

Coordinators: Karen Borrazzo and Alan N. Williams

8:30 Karen Borrazzo and Alan N. Williams

Introduction and Goals

8:45 David W. Zeanah, Robert G. Elston, and Brian F. Codding

Resource Use, Patch Residence Time and the Sexual Division of Labor among Great Basin foragers during the Pleistocene–Holocene Transition

9:05 Nora Viviana Franco, María Virginia Mancini, George A. Brook, and Lucas Vetrisano

Environmental and Cultural Changes in Southern Continental Patagonia: The Chico and Santa Cruz River Basins

9:25 Rafael Goñi, Solana García Guraieb, and Francisco Guichón

Those Were the Deserts: Archaeological and Bioarchaeological Evidence of Late Holocene Human Peopling in Southern Patagonia

9:45 Vivian Scheinsohn, Sabrina Leonardt, Florencia Rizzo, Pablo Tchilinguirián, Nora Kuperszmit, and Mariela Carpio Gonzalez

The Role of the Genoa Valley in the Patagonian Desert Archaeology

10:05 Amber L. Johnson and Lewis R. Binford

Probing Northern Desert Archaeology Using Ethnoarchaeology of Environmental Analogues from Southern Deserts

10:30 Coffee Break and Posters

11:00 Salomón Hocsman

Regionalization Processes in the High Altitude Desert of Northwestern Argentina During Middle to Late Holocene

11:20 Alan N. Williams, June Ross and Mike Smith

Puntutjarpa Rockshelter Re-visited: Episodic Occupation of the Western Desert through the Holocene

11:40 **Erik J. Marsh**

The Emergence of Agropastoralism: Accelerated Ecocultural Change on the Andean Altiplano, ~3540–3120 cal BP

12:00 Mónica A. Berón

Dunes, Hills, Waterholes, and Saltpeter Beds: Attractives for Human Populations in the Dry Pampa Subregion

12:20 Brief Presentation of Posters

Tania Bilbao, Paula Sosa, Victoria Balducci, Silvina Barbanente, Peter Thomas, Silvia Musso, Víctor A. Durán, and Alejandro Cobo

Diffusion of Archaeological Knowledge through Environmental Education Articles Facing Climate Change in Mendoza

Juris Burlakovs, Vita Rudovica, Dita Pole, Zane Vincevica-Gaile, Anda Cine, Diana Kristina, Alise Kepite, Jurgis Armans, Marika Kacare and Jekaterina Matuko

Scythian and Krygyz Burials in Tuva and the Upper Yenisei Region: From Remote Sensing to Archaeological Excavations

Víctor Durán, Valeria Cortegoso, Ramiro Barberena, Alejandra Gasco, Silvina Castro, Cecilia Frigole, Gustavo Lucero, Erik Marsh, and Carina Llano

Continuity and Change in the Human Use of High-Altitude Andean Deserts between 29–36°S (Argentina)

Sebastián Pasqualini, Gisela Cassiodoro, and Juan Matías Dellepiane

Logistical Mobility in Plateaus from Central-Western Santa Cruz (Patagonia, Argentina): An Anthracological, Technological, and Archaeofaunistic Approach

Agustina A. Rughini

Lithic Technology and Human Peopling in the Northern Patagonian Deserts: The Site Cueva Huenul 1

- 12:30 General Discussion
- 13:00 Lunch

6. HISTORICAL CHALLENGES FOR DESERT PEOPLES: TOWARDS THE COMPARATIVE STUDY OF RESPONSES TO INTRUSIONS AND ECOLOGICAL CHANGE

Coordinators: Alistair Paterson and Amalia Nuevo Delaunay

- 14:30 Alistair Paterson and Amalia Nuevo Delaunay
 - Introduction and Goals
- 14:40 Julieta N. Aranibar, Emmanuel Millán, Silvana B. Goirán, and Eduardo M. Bringa Simulations of Human Settlements in Arid Environments with the SeDD (Settlement Dynamics in Drylands) Model
- 15:00 Alistair Paterson

Towards a Comparative Perspective: Australian Responses to Intrusions and Ecological Change

15:20 **David W. Zeanah, Brian Codding, Rebecca Bliege Bird, and Douglas W. Bird** Anthropogenic Fire and Intensive Seed Exploitation in the Australian Arid Zone

15:40	Raquel	Gil	Montero	and	Mariano	Morales
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Regional Impact of Mining Activity During Colonial Time in Lípez (Southern Bolivia)

16:00 Peter Mitchell

"I Rode through the Desert": Equestrian Adaptations in Southern Hemisphere Arid Zones

16:20 Amalia Nuevo Delaunay, Rafael A. Goñi, and Juan Bautista Belardi

From Contact Onwards in Southern Patagonia

- 16:40 **Ricardo Villalba**—Discussant
- 17:00 General Discussion
- 17:30 Coffee Break and Posters
- 19:00 **Luis A. Borrero**—*Keynote Talk 4* THE OLD, WEIRD PATAGONIAN DESERTS
- 20:00 **Book Presentation**—Arqueología de Ambientes de Altura de Mendoza y San Juan (Argentina), compiled by Valeria Cortegoso, Víctor Durán and Alejandra Gasco (Editorial of the Universidad Nacional de Cuyo). With a short introduction by Nora V. Franco
- 21:00 Dinner at Fuente Mayor Hotel Restaurant

Friday, November 14th

8. DESERT AND SEMI-DESERT PALEOECOLOGY, PALEOENVIRONMENTS, AND PALEOCLIMATES

Coordinators: M. Eugenia Gayó and Antonio Maldonado

- 8:30 Marcelo R. Morales, Paul Tchilinguirian, Malena Pirola, and Sabrina Bustos
 New Holocene Paleoenvironmental Records from the Dry Puna, Northwestern Argentina
- 8:50 Mariano S. Morales, Axel E. Nielsen, Ricardo Villalba, and Duncan Christie
 Precipitation Changes on the South American Altiplano (18–23°S) during the Late
 Intermediate Period (AD 1000–1450) and Their Impacts on Human Populations
- 9:10 María Eugenia de Porras, Andrés Zamora-Allendes, and Antonio Maldonado
 Rodent Midden Pollen Record from the Atacama Desert: From Modern Signal Calibration to
 Tracing Past Climatic Dynamics

9:30 Samuel Marx, Hamish McGowan, and Balz Kamber

Changing Patterns in Aridity in Australia's Deserts during the Mid- to Late Holocene as Indicated by Dust Emissions

9:50 Sophie B. Lehmann, Naomi E. Levin, David R. Braun, Kate J. Dennis, Deano D. Stynder, Laura C. Bishop, and Frances Forrest

A Plio–Pleistocene Record of Vegetation, Climate, and Hydrology in Western South Africa Using Carbon and Oxygen Isotopic Compositions of Fossil Tooth Enamel

10:10 Brief Presentation of Posters

Malena Pirola, Sabrina Bustos, and Marcelo R. Morales

Preliminary Paleoenvironmental Interpretation of the 11,500–4000 BP span from Cruces Core 1, Dry Puna of Jujuy, Argentina: The Diatom and C (TOC and TIC) Content Records

Jorge O. Sánchez, Mariana Brea, Alejandro F. Zucol, Gustavo Martínez and Gustavo A. Martínez

Initial Late Holocene Vegetal Communities Inferred from Archaeological Sites in Northeastern Patagonia (Argentina): Anthrachological Evidence from the site Zoko Andi 1

Antonio Maldonado, D. Cardenas, Juana Martel-Cea, Karsten Schittek, M. Eugenia de Porras and Stella M. Moreiras

15,000-Year Pollen Records From High Andean Lakes in the Subtropical Semi-Arid Chile (32°S)

Leandro D. Rojo and Adriana Mehl

Stable Carbon Isotopes From Bulk Organic Matter as Indicators of Paleoenvironmental Changes in the Arroyo La Estacada, Mendoza (Argentina)

Francisco J. González-Pinilla, Claudio Latorre, M. Ignacia Rocuant, Maisa Rojas and John Houston

Developing Quantitative Estimates of Rainfall From Abrocoma Fecal Pellets in Middens as a New proxy for Past Climate Change in the Atacama Desert

Cecilia Frigolé and Alejandra Gasco

Potters and Herders at the Southern Edge of the Andean World: Subsistence and Mobility in Northern Mendoza (500 BC–AD 1000)

- 10:20 General Discussion
- 11:00 Coffee Break and Posters
- 12:00 Lunch

10. ROUND-TABLE: COMPARATIVE FRAMEWORKS FOR THE ANALYSIS OF ARCHAEOLOGICAL DISCONTINUITIES

Coordinators: Peter Veth, Ramiro Barberena, and Jo McDonald

14:00 Ramiro Barberena, Peter Veth, and Jo McDonald

Introduction and Comparative Goals

14:15 Robert K. Hitchcock

Discontinuities in Ethnographic Time: View from Africa

14:30 Peter Mitchell

Discontinuities in South African Archaeology

14:45 **Jo McDonald**

Discontinuities in Information Exchange in Australian Western Desert Arid Zone Graphic Systems

15:00 Peter Veth

(Dis)continuities in Arid Hybrid Coastal Economies: Barrow Island Archaeology Project

15:15 Luis A. Borrero

Discontinuities and Colonization of Fuego-Patagonia

15:30 Ramiro Barberena, César Méndez, and Luciano Prates

Demographic Basis of Archaeological Gaps and Troughs in South American Deserts: A Comparative Exploration

15:45 **Hugo D. Yacobaccio**

Discontinuities, Fragmentation, and Protection

16:00 Calogero M. Santoro, Claudio Latorre, José Capriles and Eugenia M. Gayó

What Happened When the Atacama Desert Run Out of Water: Explaining Environmental, Archaeological, and Social Discontinuities in the Driest Desert of the World

16:15 Alan N. Williams

Demographic and Mobility Changes for Prehistoric Australia: A Time-Series Approach Using Archaeological Radiocarbon Data

- 16:30 Amber L. Johnson—Discussant
- 16:50 **David W. Zeanah**—Discussant
- 17:10 General Discussion
- 17:30 Coffee Break
- 18:00 Individual Session Meetings: Future Prospects and Published Outcomes
- 19:00 Plenary Session
- 20:30 Closing Dinner and "Desert" Party

Saturday, November 15th

Transfers to Mendoza City and Mendoza Airport Departure for Field Trip to Patagonia

