SOUTHBOUND

Late Pleistocene Peopling of Latin America

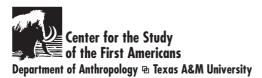


SOUTHBOUND

Late Pleistocene Peopling of Latin America

Editors Laura Miotti - Mónica Salemme Nora Flegenheimer - Ted Goebel

A Peopling of the Americas Publication Michael R. Waters, General Editor Ruth Gruhn, Series Editor





SOUTHBOUND: LATE PLEISTOCENE PEOPLING OF LATIN AMERICA

©2012 Center for the Study of the First Americans. All rights reserved. No part of this book may be reproduced, projected, stored in a retrieval system, or transmitted, for whatever purpose, in any form or by any means, whether electronic, mechanical, magnetic, photographic, laser, or otherwise, without the prior written permission of the Center for the Study of the First Americans, Department of Anthropology, Texas A&M University, College Station, TX 77843-4352.

Design and typesetting by C&C Wordsmiths, Lenoir, North Carolina. Printed in the United States of America by Tops Printing, Inc., Bryan, Texas

Contents

		_		-		
nt		_	 _4	Ŀ	_	
nt	rn	$\boldsymbol{\alpha}$	 •	г	n	n

The Debate at the B	Beginning of the 21st Century on the Peopling of the Americas
	Laura Miotti, Nora Flegenheimer, Mónica Salemme, and Ted Goebel
Part 1 Peopling N	Models and Bioanthropology
[Argentina]	The Impact of Early Man Debates on Argentine Archaeology around 1900 Irina Podgorny
[South America]	GIS Model of Topographic Accessibility to South America Lucía Magnin, Diego Gobbo, Juan Carlos Gómez, and Antonio Ceraso 13
[South America]	South America 18,000 Years Ago: Topographic Accessibility and Human Spread Laura Miotti and Lucía Magnin
[Colombia]	A Review of the Early Peopling and Cultural Diversity of Colombia during the Late Pleistocene Francisco Javier Aceituno
[South America]	Native Male Founder Lineages of South America Virginia Ramallo, Marina Muzzio, María R. Santos, Josefina M. B. Motti, Laura S. Jurado Medina, Claudio M. Bravi, and Graciela Bailliet
[Colombia]	Dental and Craniofacial Diversity in the Northern Andes, and the Early Peopling of South America Miguel E. Delgado-Burbano
[Chile]	The Bioanthropological Evidence of a ca. 10,000 CALYBP Ten-Individual Group in Central Patagonia Omar Reyes, César Méndez Melgar, Francisco Mena, and Mauricio Moraga 39
[Chile]	An Appraisal of Human Remains from Pali Aike Cave (Magallanes, Chile): Inferences about Demography and Mortuary Practices during the Early Holocene G. Lorena L'Heureux and Tom Amorosi
Part 2 Archaeolo	gy of Early South Americans
[Brazil]	The Itaparica Technocomplex: The First Conspicuous Settlement of Central and Northeastern Brazil from a Technological Perspective
	Antoine Lourdeau

[Southern SA]	Exploring Morphometric Variations in Fishtail Projectile Points from Uruguay, Pampa, and Patagonia Carola Castiñeira, Judith Charlin, Marcelo Cardillo, and Jorge Baeza
[Argentina]	Variability of Triangular Non-Stemmed Projectile Points of Early Hunter-Gatherers of the Argentinian Puna Salomón Hocsman, Jorge G. Martínez, Carlos A. Aschero, and Alfredo D. Calisaya
[Argentina]	Patterns of Cultural Transmission in the Manufacture of Projectile Points: Implications for the Early Settlement of the Argentine Puna Rodolphe Hoguin and Federico Restifo
[Argentina]	Evidence of Early Human Burials in the Southern Argentinian Puna Jorge G. Martínez
[Chile]	Procuring Quartz Crystal in Latest-Pleistocene/Early-Holocene Sites in Northern Semiarid and Mediterranean-Central Chile César Méndez Melgar and Donald Jackson
[Southern SA]	Human Occupation in the Northern Argentine-Chilean Central Andes during the Early Holocene Valeria Cortegoso, Víctor Durán, Silvina Castro, Alejandra Gasco, Gustavo Lucero, and Diego Winocur
[Argentina]	Human Occupation of the Central Mountains of Argentina during the Pleistocene-Holocene Transition (11,000–9000 RCYBP) Diego E. Rivero
[Argentina]	Lithic Technology at Campo Laborde, an Early-Holocene Megamammal Hunting Site in the Pampean Region (Argentina) Pablo G. Messineo
[Argentina]	Early Settlements in Eastern Tandilia, Buenos Aires Province, Argentina: Archaeological Contexts and Site-Formation Processes Diana Mazzanti, Gustavo Martínez, and Carlos Quintana
[Argentina]	Early Settlers and Their Places in the Tandilia Range (Pampean region, Argentina) Natalia Mazzia and Nora Flegenheimer
[Argentina]	Broken Stone Tools from Cerro El Sombrero Cima (Tandilia Range, Argentina) Celeste Weitzel
[Argentina]	The First Occupations of the El Trebol Site during the Pleistocene-Holocene Transition (Nahuel Huapi Lake, Patagonia, Argentina) Adam Hajduk, Ana M. Albornoz, Maximiliano J. Lezcano, and Pablo Arias Cabal
[Argentina]	Formal Variability in Fishtail Points of the Amigo Oeste Archaeological Site, Somuncurá Plateau (Río Negro, Argentina) Darío Hermo and Enrique Terranova
[Argentina]	Geochemical Sourcing of Obsidian Fishtail Points: Studies for the Somuncurá Plateau (Río Negro, Argentina) Laura Miotti, Enrique Terranova, Ramiro Barberena, Darío Hermo,
[Argentina]	Martín Giesso, and Michael D. Glascock
	Virginia Lynch Darío Hermo, and Myrian Álvarez

[Argentina]	of Santa Cruz Province, Argentina) Laura Marchionni and Martín Vázquez
[Argentina]	Variability in Lithic Technological Strategies of Early Human Occupations from the Central Plateau, Santa Cruz, Argentina Fabiana Skarbun
[Argentina]	Technological and Functional Analysis of Pleistocene Components from La María Locality, Santa Cruz, Argentina Manuel Cueto and Alicia Castro
[Argentina]	Heat Treatment of Lithic Artifacts in Early Sites from the Central Plateau of Santa Cruz (Argentina) Ariel D. Frank
[Argentina]	Initial Human Exploration at the Southern End of the Deseado Massif? Nora Viviana Franco, Pablo Ambrústolo, Natalia Cirigliano, and Luis Alberto Borrero
[Argentina]	A Fossil Shark Tooth in Early Contexts of Cerro Casa de Piedra 7, Southwest Patagonia, Argentina Alicia Castro, Alberto Luis Cione, María Teresa Civalero, and Mariana De Nigris
[Argentina]	Early Occupations in Tierra del Fuego and the Evidence from Layer S at the Imiwaia I Site (Beagle Channel, Argentina) Ernesto Luis Piana, Atilio Francisco Zangrando, and Luis Abel Orquera 177
Part 3 Paleoenvir	onments of Latin America
[México]	A New Pleistocene-age Archaeological-Paleontological Deposit in Santiago Chazumba, Oaxaca, México: An Initial Appraisal Joaquín Arroyo-Cabrales, Ramón Viñas-Vallverdú, Xose Pedro Rodriguez, Albert Rubio, Jordi Rosell, Alejandro López-Jiménez, and Irán I. Rivera-González 179
[México]	Extinct Birds and Early Humans in the Basin of México Eduardo Corona-M
[Argentina]	Late Quaternary Ecosystems and Humans in Northern Patagonia: New Results from Cueva Huenul 1 (Neuquén, Argentina) María de la Paz Pompei, Ramiro Barberena, M. Eugenia de Porras, Karen Borrazzo, Agustina A. Rughini, and Adolfo F. Gil
[Argentina]	Diatom Analysis in Santa Cruz Central Massif (Patagonia, Argentina): Preliminary Results Marilén Fernández and Mónica Salemme
[Argentina]	Early Human Occupation and Environment South of the Deseado Massif and South of Lago Argentino (Argentina) María Virginia Mancini, Nora V. Franco, and George A. Brook
And the last	
Author Index	
General Index	

Part 1 Peopling Models and Bioanthropology





몤

The Impact of Early Man Debates on Argentine Archaeology around 1900



Irina Podgorny¹

➤ Keywords: Classification criteria, museum studies, history of archaeology

This paper argues that the coming into being of the supposedly fossil man found in the Tertiary beds of the Pampas created a paradoxical context. Whereas it attracted international interest in Argentine findings, it radically transformed the practice of local archaeology (Podgorny 2005). Historiography had rooted this transformation in Aleš Hrdlička's rejection of the evidence of early man in South America. As this paper proposes, however, Hrdlička's impact on the Argentine practice of archaeology and anthropology was overvalued, creating an argument that veiled the dynamics of the practice of science.

In the late nineteenth century, "prehistoric man" as a scientific object had emerged on the borders of scientific legitimacy. Fake prehistoric objects abounded in Europe and the Americas, where it was difficult to assess the character of those objects arriving from an unknown past. At stake was what, why, and whom to believe. In Argentina—as everywhere—scientific societies appointed commissions to judge and evaluate a rather controversial kind of evidence (Cohen and Hublin 1989; Coye 1997; Podgorny 2000a; van Riper 1993). After the acceptance of fossil man late in the 1850s, prehistory was consolidated in Europe by creating a common sequence of human stages to be applied to the most remote periods of the human past. While some prehistorians proposed that sequences had only a local meaning, others advocated the universal character of the earliest human technological stages. In the U.S., for instance, William Holmes "rejected the effort to establish New World archaeological periods of technology to parallel those of Western Europe" and assumed that "Paleolithic man had never existed in North America" (Hinsley 1981:105). In Argentina, however, naturalists supported local man's great antiquity, partially owing to the presence of two European promoters of the "interna-

¹ Archivo Histórico, Museo de La Plata-CONICET, Paseo del Bosque s/n, 1900 La Plata, Argentina; e-mail: podgorny@retina.ar

10 中 Southbound Podgorny

tional movement of prehistory": Giovanni Ramorino and Pellegrino Strobel, Italian professors of natural history in Buenos Aires, who early in the 1870s reported "prehistoric news" to Europe and also encouraged local naturalists to search for prehistoric artifacts. Ramorino was a patron to scholars. One, an Italo-Argentine schoolteacher named Florentino Ameghino (1854?–1911), late in the 1870s reported on the association of fossil mammals with objects of human manufacture (Podgorny 2000a, 2009).

Moreover, since the 1850s French collectors led the trade in fossil mammal bones from the Pampas. For them, "prehistoric man" was another object to be offered to the museums. In a context where the search for "prehistoric objects" was seen as a mere attempt to create a new commodity for the European market of natural history, Ameghino's reports were not fully accepted. Pursuing further legitimacy, in 1878 Ameghino attended the International Exposition in Paris, where he exhibited the evidence of the "Man of the Great Armadillo," sold part of his collections, and became trained in geology and the classification of fossil mammals. In 1880 Ameghino published *La antigüedad del hombre en el Plata*, describing the methods of geological archaeology to be applied in Argentina and Uruguay. Ameghino returned from Paris in 1881, having arranged the local prehistoric tools in a sequence inspired by the model proposed by Gabriel de Mortillet, which patterned the whole Argentine prehistory in parallel with the European sequence (Podgorny 2000b, 2009).

Once in Argentina, Ameghino included in the sequence several deposits from the Plata basin (Ameghino 1885). He was then appointed assistant director to the newly established Museo de La Plata (Podgorny and Lopes 2008), where he shifted his interest to the earliest Patagonian mammals. In 1887 Ameghino broke with Museo de La Plata researchers, starting a war—comparable to the U.S. "bone wars"—in describing the most primitive mammals of Patagonia (Brinkman 2010, Podgorny 2002). As a result, Ameghino published his *Contribución al estudio de los mamíferos fósiles* (1889), which included a rather sophisticated classification of local prehistory that was his last work devoted to the topic. The "fossil mammal rush" of the 1890s gave birth to hundreds of new fossil species, new genera, and also uncountable debates over the age of the Patagonian stratigraphic beds and the origin and distribution of mammals (Podgorny 2005; Simpson 1984).

As for his research, Ameghino returned to the subject of mankind. In 1884 he had sketched a theoretical phylogenetic tree, describing man's hypothetical ancestors and predicting the species to be found in the years to come. As Director of the Museo Nacional de Buenos Aires (1902–11), Ameghino described supposedly human fossil remains from the Pampas. The hypothetical genus of the 1880s then became an actual species; the Old World fossil specimens (Spy, *Pithecantropus erectus*, Heidelberg) became offspring of the Homunculus from Patagonia; and the anthropomorphic apes became bestialized forms of man (Podgorny 2005).

Ameghino's proposals were received as a matter of fact by educators working at the newly established University of La Plata; some Argentine newspapers created a favorable context for accepting the local origin of all humankind. As analyzed elsewhere (Podgorny 1997, 2005), Ameghino's ancestors of man were discussed in several languages and scientific meetings; for several years they attracted worldwide attention. All over the anthropological world, casts of the South American human ancestors circulated in different academic circles to analyze their morphology.

Ameghino's interpretations, however, were far from being generally accepted by scientists either from Argentina or abroad. Aleš Hrdlička's visit to Buenos Aires in 1910 has to be framed in this world of facts and doubts (Podgorny and Politis 2000). Hrdlička's rejection of the evi-



dence could have been conclusive for the North American anthropological field, but it was not definitive for European anthropologists who analyzed the evidence following their own methods and hypothesis (Podgorny 2005). Ameghino replied only to the European responses. His death in 1911 meant that he avoided reading Hrdlička's conclusions published in 1912 in a book that did not circulate among Argentinian scholars. In this sense, the impact of Hrdlička on Argentine anthropology still deserves further study.

Moreover, Ameghino would soon become a national icon. During the Great War, Argentine socialists, some writers, and philosophers began to promote Ameghino as an example of the evolution of Argentine thought. In this context, the debates about the Tertiary man of Buenos Aires, an idea held by his brother Carlos in the 1910s, was interwoven with cultural disputes, confining the issue within national boundaries. These unsolved controversies and the so-called "ameghinismo," i.e., the honors paid to the national savant, shaped the classification of anthropological and archaeological collections of Argentina's museums. Geographical criteria replaced the contested 19th century geochronology and French-shaped sequences in the displays and school books (Podgorny 1999). This drift from chronology to geographical distribution was partially a result of the controversial character of Early Man findings in the Pampas. Ameghino could hardly have imagined that his endeavors to include time in his findings would turn into the rejection of time as the crucial dimension of local archaeology, something that would survive even when the Ameghinian debates were almost forgotten.



Reference Cited

Ameghino, F. 1885 Informe sobre el Museo Antropológico y Paleontológico de la Universidad Nacional de Córdoba durante el año 1885. *Boletín de la Academia Nacional de Ciencias de Córdoba* 8:347–60.

—— 1889 Contribución al Conocimiento de los Mamiferos Fósiles de la República Argentina. *Actas de la Academia Nacional de Ciencias de la República Argentina en Córdoba*, Tomo VI, Buenos Aires.

Brinkman, P. 2010 The Second Jurassic Dinosaur Rush: Museums & Paleontology in America at the Turn of the Twentieth Century. The University of Chicago Press, Chicago.

Cohen, C., and J. J. Hublin 1989 Boucher de Perthes (1788–1868). Les origins romantiques de la préhistoire. Belin, Paris.

Coye, N. 1997 La préhistoire en parole et en acte. Méthodes et enjeux de la pratique archéologique, 1830–1950. L'Harmattan, Paris.

Hinsley, C. 1981 *The Smithsonian and the American Indian: Making a Moral Anthropology in Victorian America*. Smithsonian Institution Press, Washington.

Podgorny, I. 1997 De la santidad laica del científico: Florentino Ameghino y el espectáculo de la ciencia en la Argentina moderna. *Entrepasados* 13:37–61.

—— 1999 De la antigüedad del hombre en el Plata a la distribución de las antigüedades en el mapa: Los criterios de organización de las colecciones antropológicas del Museo de La Plata entre 1890 y 1930. *História, Ciências, Saúde-Manguinhos* 6(1):81–100.

—— 2000a The 'Non-Metallic Savages': The Use of Analogy in Victorian Geological Archaeology and French Palethnology and Its Reception in Argentina at the Turn of 19th Century. In *Vergleichen als archäologische Methode. Analogien in den Archäologien*, edited by A. Gramsch, pp. 19–38. BAR International Series, Oxford.

—— 2000b El argentino despertar de las faunas y de las gentes prehistóricas. Coleccionistas, museos, estudiosos y universidad en la Argentina, 1875–1913. Libros del Rojas, Buenos Aires.

12 中 Southbound Podgorny

—— 2002 Ser todo y no ser nada. El trabajo de campo entre los naturalistas argentinos a fines del Siglo XIX. In *Historias y estilos del trabajo de campo en Argentina*, edited by R. Guber and S. Visakovsky, pp. 31–77. Antropofagia, Buenos Aires.

—— 2005 Bones and Devices in the Constitution of Palaeontology in Argentina at the End of the Nineteenth Century. *Science in Context* 18(2):249–83.

— 2009 El sendero del tiempo y de las causas accidentales. Los espacios de la prehistoria en la Argentina, 1850–1910. Prohistoria, Rosario.

Podgorny, I., and M. M. Lopes 2008 El desierto en una vitrina, Museos e historia natural en la Argentina del Siglo XIX. Limusa, México.

Podgorny, I., and G. Politis 2000 It Is Not All Roses Here. Aleš Hrdlička's Travelog and His Trip to Argentina in 1910. *Revista de História da Arte e Arqueologia* 3:95–105.

Simpson, G. G. 1984 Discoverers of the Lost World: An Account of Some of Those Who Brought Back to Life South American Mammals Long Buried in the Abyss of Time. Yale University Press, New Haven.

