

Peopling of the New World
Anthropology 6803
The George Washington University
Spring 2014
Tuesday - 5:10 PM - 7:00 PM **HAH, Rm. 202**

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Office hours: Monday 5:30 PM – 6:00 PM or by appointment

Required book:

Meltzer, David J.
2009 *First Peoples in a New World: Colonizing Ice Age America*. University of California Press, Berkeley.

Although I did not order copies for the bookstore, **I highly recommend you get the following book**, which presents overviews of the latest information on many of the topics we will discuss. Many of its chapters are required readings, which will be on Blackboard for those without a book.

Graf, Kelly, Caroline Ketron, and Michael Waters
2013 *Paleoamerican Odyssey*. Center for the Study of the First Americans, College Station, TX.

This is not available through Amazon and apparently must be ordered from the Center for the Study of the First Americans' website: <http://www.centerfirstamericans.org/>

Additional required readings are posted on Blackboard.

Course Overview

This graduate and upper-level undergraduate course will guide students through the earliest human occupation of the New World: how, when, and from where people arrived more than 13,000 years ago. We will look at the archaeological data from sites in North and South America, northeast Asia, and Europe (along with linguistic, radiocarbon, skeletal, and genetic data) to examine the competing theories about the origins of the first people in the New World. While we will review data collected, we will also focus on the host of difficult epistemological questions

Virtually all the questions concerning the first people in the New World are in dispute: who were they, where did they come from, when did they get here, what route did they take, was there one or multiple migrations, and what did they do when they got here, to name just the most obvious.

Course Goals: Together we will work towards the following objectives.

1. *You will be able to identify and explain the competing theories and evaluate the pros and cons for each.*
2. *You will understand the strengths and limitations of the data and underlying assumptions for the competing theories.*
3. *By the end of this course, you should be able to carry on an informed conversation with any Paleoindian archaeologist around.*

Reading Assignments

In addition to reading from the Meltzer book, we will be reading from 5 – 10 articles or book chapters per week. All readings outside the books are posted to the course Blackboard website in digital form. Some are short, some are

long, some are easy, some are harder, and eventually you will find that you have already read or understand a portion of them, but you need to do all the readings in order to engage in discussion during class. Both your attendance and your participation will count in your final grade, so being prepared for and engaged in class is important. I will also give several quizzes to encourage you to keep up.

Class Participation

Attendance is mandatory. We will meet 14 times this semester, so anyone missing classes will miss an appreciable part of the course content. The in-class format until the last class will consist of discussing the required readings for the week. **Each student will lead the discussion for one class.** Every student, however, will be expected to have completed all of the readings before the start of class and come prepared to ask and answer questions about them. There will occasionally be quizzes to see that the readings are being done. During some of the class periods I will use Powerpoint images as well as artifact casts to elaborate upon the readings. An electronic projector will be available throughout the course, and may be used in presentations or summations.

Term Paper

A term paper will be required, 4000 words for undergraduates, 5000 words for graduates, including bibliography, doubled spaced. The last week of the class students will present a verbal summary of their papers to the class. The final written version of the paper will be **due by 5:00 pm, Monday, May 5, 2014**. Use of electronic images (i.e., a PowerPoint or equivalent talk) is mandatory for the in-class presentation of your research. You should decide on a paper topic early in the semester, and I want to see an outline with a list of references by spring break.

Term paper topics can include detailed overviews of specific sites or research projects, or a discussion of a scholarly argument or arguments. The term paper will provide you with the opportunity to (a) explore a particular research topic in more depth than is possible in the classroom; (b) develop your library and computer research skills; and (c) improve your writing skills.

Your paper must make use of the following professional standards:

- A minimum of 10 scholarly references (books and journal articles)
- At least eight must be scholarly books or journal articles (non web-sites)
- Internet resources may be used (but text must be cited if used directly)
- web site addresses and authors must be fully acknowledged for any text or images used.
- Double (not space-and-a-half, not triple) spaced pages (meet the 4000UG/5000G student word length!).
- References must be in *American Antiquity* style. See examples from the readings, or go to <http://www.saa.org/publications/StyleGuide/styFrame.html>
- The paper must contain a brief abstract (75-100 words), an introduction, a main body (with subsections as needed), and a conclusion. Look at how the articles assigned for the class are written, and use them as guides to professional writing
- Spell- and grammar-checked
- Page numbers centered at the bottom of the page.

GRADES

Each class activity will be graded as follows:

Class attendance, quizzes, and general participation 30 points

Verbal presentation of the term paper 20 points

Written term paper 50 points

Grading Scale

A+	100
A	95
A-	92
A-/B+	90
B+	88 (etc.)

Attendance and Participation

This class depends on informed and active class participation. Thus, attendance and class participation are crucial to

your getting a good grade. All students are expected to be in class and actively participate in class discussions in a positive and thoughtful manner. I will note attendance and class participation throughout the semester. Attendance and participation scores will be based on the following general grade boundaries (i.e., the actual number can vary between these values depending on the degree of participation):

100 – student attended every class (except excused absences) during the semester and actively participated in class by engaging with others in a positive thoughtful manner.

90 - student attended every class (except excused absences) and participated regularly in class by engaging with others in a positive thoughtful manner.

80 – student regularly attended classes and periodically engaged in discussions.

50 – student did not attend classes regularly or only occasionally engaged in discussions.

0 – student attended less than half the classes or was disruptive during class.

Peopling of the New World

Week 1: Introduction and Overview

Meltzer, David J. Preface, Acknowledgements, and Chapter 1, Overture in *First Peoples in a New World: Colonizing Ice Age America*, pp. ix-xviii, 1-22. University of California Press, Berkeley.

Meltzer, David J. 2009 The Landscape of Colonization. In *First Peoples in a New World: Colonizing Ice Age America*, pp. 23-61. University of California Press, Berkeley.

Anonymous (2012). Young Americans. *Nature* 485:6 May 3, 2012.

Wheat, Amber (2012). Survey of Professional Opinions Regarding the Peopling of the Americas. *The SAA Archaeological Record* 12(2):10–14.

Chamberlain, T.C. (1890). The Method of Multiple Working Hypotheses. *Science* (1965) 148:754-59.

Week 2: History of Research

Meltzer, David J. 2009 From Paleoliths to Paleoindians. In *First Peoples in a New World: Colonizing Ice Age America*, pp. 63-94. University of California Press, Berkeley.

Anderson, David G., D. Shane Miller, Stephen J. Yerka, J. Christopher Gillam, Erik N. Johanson, Derek T. Anderson, Albert C. Goodyear, and Ashley M. Smallwood 2010 PIDBA (Paleoindian Database of the Americas) 2010: Current Status and Findings. *Archaeology of Eastern North America* 38:63-90.

Goebel, T., Michael R. Waters, and Dennis H. O'Rourke 2008 The Late Pleistocene Dispersal of Modern Humans in the Americas. *Science* 319:1497-1502.

Kelly, Robert L. and Todd, Larry C. 1988 Coming Into the Country: Early Paleoindian Hunting and Mobility. *American Antiquity* 53(2):231–244.

Tankersley, Kenneth B. 2004 The Concept of Clovis and the Peopling of North America. In *The Settlement of the American Continents: A Multidisciplinary Approach to Human Biogeography*, edited by C. Michael Barton, Geoffrey A. Clark, David R. Yesner, and Georges A. Pearson, pp. 49-63. University of Arizona Press, Tucson.

Week 3: Evaluation Standards

Meltzer, David J. 2009 The Pre-Clovis Controversy. In *First Peoples in a New World: Colonizing Ice Age America*, pp. 95-135. University of California Press, Berkeley.

Bradley, Bruce A., and Dennis Stanford 2004 The North Atlantic Ice-edge Corridor: A Possible Palaeolithic Route to the New World. *World Archaeology* 36:459-478.

Dincauze, Dena F. 1984 An Archaeo-Logical Evaluation of the Case for Pre-Clovis Occupations. In *Advances in World Archaeology*, Volume 3, edited by Fred Wendorf and A. E. Close, pp. 275–323. Academic Press, Orlando.

Griffin, James B., David J. Meltzer, and Bruce D. Smith 1988 A Mammoth Fraud in Science. *American Antiquity* 53(3):578–582.

Haynes, C. Vance 1969 The Earliest Americans. *Science* 166: 709–15.

Kraft, John C., and Ronald A. Thomas 1971 Early Man at Holly Oak, Delaware. *Science* 192:756–761.

Preston, Douglas 1995 The Mystery of Sandia Cave. *The New Yorker* 12 June 1995. 1999 Woody's Dream. *The New Yorker*, 15 November 1999.80–87.

Roosevelt, Anna C., John Douglas, and Linda Brown (2002). The Migrations and Adaptations of the First Americans: Clovis and Pre-Clovis Viewed from South America. In *The First Americans: the Pleistocene Colonization of the New World*, edited by Nina G. Jablonski, pp. 159-236. Memoirs of the California Academy of Sciences, No. 27. University of California Press, San Francisco.

Straus, L.G., David J. Meltzer, and Ted Goebel 2005 Ice Age Atlantis? Exploring the Solutrean-Clovis 'Connection'. *World Archaeology* 37:507-532.

Waguespack, Nicole M. 2007 Why We're Still Arguing About the Pleistocene Occupation of the Americas. *Evolutionary Anthropology* 16:63–74.

Waters, Michael 2004 The Role of Geoarchaeology in the Search for the First Americans. In *New Perspectives on the First Americans*, edited by Bradley T. Lepper and Robson Bonnichsen, pp. 187–192. Center for the Study of the First Americans, Texas A&M University Press, College Station, Texas.

Week 4: Migration Theory

Meltzer, David J.

2009 What Do You Do When No One's Been there Before? In *First Peoples in a New World: Colonizing Ice Age America*, pp. 209-238. University of California Press, Berkeley.

Anthony, D.W. 1990 Migration in Archeology: The Baby and the Bathwater. *American Anthropologist* 92:895-914.

Beaton, J. M. 1991 Colonizing Continents: Some Problems from Australia and the Americas. In *The First Americans: Search and Research*. Edited by T. D. Dillehay and D. J. Meltzer, pp. 209-230. CRC Press, Boca Raton, Florida.

Fiedel, Stuart J. 2004 Rapid Migrations by Arctic Hunting Peoples Clovis and Thule. In *The Settlement of the American Continents: A Multidisciplinary Approach to Human Biogeography*, edited by C. Michael Barton, Geoffrey A. Clark, David R. Yesner, and Georges A. Pearson, pp. 79-84. University of Arizona Press, Tucson.

Moore, John H. 2001 Evaluating Five Models of Human Colonization. *American Anthropologist* 103:395-408.

Rockman, Marcy 2003 Knowledge and Learning in the Archaeology of Colonization. In *Colonization of Unfamiliar Landscapes The Archaeology of Adaptation*, edited by Marcy Rockman and James Steele, pp. 3-24. Routledge Taylor and Francis Group, New York.

Steele, James, T. Sluckin., D. Denholm, and C. Gamble 1998 Modeling Paleoindian Dispersals. *World Archaeology* 30:286-305.

Surovell, Todd A. 2000 Early Paleoindian Women, Children, Mobility, and Fertility. *American Antiquity* 65:493-509.

Week 5: Migration Theory II

Anderson, David G. 1990 The Paleoindian Colonization of Eastern North America: A View from the Southeastern United States. In *Early Paleoindian Economies of Eastern North America*, edited by Kenneth Tankersley and Barry Isaac, pp. 163-216. Research in Economic Anthropology Supplement 5.

Bradley, Bruce, and Michael Collins (2013). Imagining Clovis as a Cultural Revitalization Movement. In *Paleoamerican Odyssey*, edited by Kelly Graf, Caroline Ketron, and Michael Waters, pp. 247-255. Center for the Study of the First Americans, College Station, TX.

Dias, Adriana, and Lucas Bueno (2013). The Initial Colonization of South American Eastern Lowlands: Brazilian Archaeology Contributions to Settlement of America Models. In *Paleoamerican Odyssey*, edited by Kelly Graf, Caroline Ketron, and Michael Waters, pp. 339-57. Center for the Study of the First Americans, College Station, TX.

Erlandson, Jon M. 2002 Anatomically Modern Humans, Maritime Voyaging, and the Pleistocene Colonization of the Americas. In *The First Americans: The Pleistocene Colonization of the New World*, ed. by Nina G. Jablonski, pp. 59–92. Memoir of the California Academy of Sciences, Number 27, San Francisco.

Week 6: Linguistic and Biological Evidence

Meltzer, David J. 2009 Non-archaeological Answers to Archaeological Questions. In *First Peoples in a New World: Colonizing Ice Age America*, pp. 137-181. University of California Press, Berkeley.

Greenberg, J.H.; Turner, C.G.; Zegura, S.L. 1986 The Settlement of the Americas: A Comparison of the Linguistic, Dental, and Genetic Evidence. *Current Anthropology* 27(5):477–497.

Hill, Jane H.

2004 Evaluating Historical Linguistic Evidence for Ancient Human Communities in the Americas. In *The Settlement of the American Continents: A Multidisciplinary Approach to Human Biogeography*, edited by C. Michael Barton, Geoffrey A. Clark, David R. Yesner, and Georges A. Pearson, pp. 39-48. University of Arizona Press, Tucson.

Nichols, Joanna 2002 First American Languages. In *The First Americans: The Pleistocene Colonization of the New World*, ed. by Nina G. Jablonski, pp. 273–293. Memoir of the California Academy of Sciences, Number 27, San Francisco.

Auerbach, Benjamin M. 2012 Skeletal Variation Among Early Holocene North American Humans: Implications for Origins and Diversity in the Americas. *American Journal of Physical Anthropology* 149:525–536.

Tamm, Erika, Toomas Kivisild, Maere Reidla, Mait Metspalu, David Glenn Smith, Connie J. Mulligan, Claudio M. Bravi, Olga Rickards, Cristina Martinez-Labarga, Elsa K. Khusnutdinova, Sardana A. Fedorova, Maria V. Golubenko, Vadim A. Stepanov, Marina A. Gubina, Sergey I. Zhadanov, Ludmila P. Ossipova, Larisa Damba, Mikhail I. Voevoda, Jose E. Dippierr, Richard Villems, Ripan S. Malhi 2007 Beringian Standstill and Spread of Native American Founders. *PlosOne* 9:e829.

Turner, Christy G., II. 2002 Teeth, Needles, Dogs, and Siberia: Bioarchaeological Evidence for the Colonization of the New World. In *The First Americans: The Pleistocene Colonization of the New World*, ed. by Nina G. Jablonski, pp. 123–158. Memoir of the California Academy of Sciences, Number 27, San Francisco.

Week 7: Late Pleistocene Environment & Extinctions

Meltzer, David J. 2009 Clovis Adaptations and Pleistocene Extinctions. In *First Peoples in a New World: Colonizing Ice Age America*, pp. 239-280. University of California Press, Berkeley.

Haynes, Gary 2009 Introduction to the Volume. In *American Megafaunal Extinctions at the End of the Pleistocene*, edited by Gary Haynes, pp. 1–20. Springer, New York, New York.

Holliday, Vance, and D. Shane Miller (2013). The Clovis Landscape. In *Paleoamerican Odyssey*, edited by Kelly Graf, Caroline Ketron, and Michael Waters, pp. 221-245. Center for the Study of the First Americans, College Station, TX.

Anderson, David, Thaddeus Bissett, and Stephen Yerka (2013). The Late-Pleistocene Human Settlement of Interior North America: the Role of Physiography and Sea-level Change. In *Paleoamerican Odyssey*, edited by Kelly Graf, Caroline Ketron, and Michael Waters, pp. 183-203. Center for the Study of the First Americans, College Station, TX.

Ives, John, Duane Froese, Kisha Supernant, and Gabriel Yanicki (2013). Vectors, Vestiges, and Valhallas - Rethinking the Corridor. In *Paleoamerican Odyssey*, edited by Kelly Graf, Caroline Ketron, and Michael Waters, pp. 149-169. Center for the Study of the First Americans, College Station, TX.

Martin, Paul S. 1973 The Discovery of America. *Science* 179:969–74.

Week 8: Settling in to an Empty or Populated (Pre-Clovis) Landscape

Meltzer, David J. 2009 Settling In: Late Paleoindians and the Waning Ice Age. In *First Peoples in a New World: Colonizing Ice Age America*, pp. 281-320. University of California Press, Berkeley.

Meltzer, David J. 2009 When Past and Present Collide. In *First Peoples in a New World: Colonizing Ice Age America*, pp. 321-344. University of California

Anderson, David G. 2005 Pleistocene Human Occupation of the Southeastern United States: Research Directions for the Early 21st Century. In *Paleoamerican Origins: Beyond Clovis*, edited by Robsen Bonnicksen, Bradley T. Lepper, Dennis Stanford, and Michael R. Waters, pp. 29-42. Center for the Study of the First Americans, Texas A&M University Press, College Station, Texas.

Collins, Michael, Dennis Stanford, Darrin Lowery, and Bruce Bradley (2013). North America before Clovis: Variance in Temporal/Spatial Cultural Patterns, 27,000-12,000 cal yr BP. In *Paleoamerican Odyssey*, edited by Kelly Graf, Caroline Ketron, and Michael Waters, pp. 521-39. Center for the Study of the First Americans, College Station, TX.

Goodyear, Albert C. 2005 Evidence of Pre-Clovis Sites in the Eastern United States. In *Paleoamerican Origins: Beyond Clovis*, edited by Robsen Bonnicksen, Bradley T. Lepper, Dennis Stanford, and Michael R. Waters, pp. 103-112. Center for the Study of the First Americans, Texas A&M University Press, College Station, Texas.

Dennis L. Jenkins, Loren G. Davis, Thomas W. Stafford Jr., Paula F. Campos, Bryan Hockett, George T. Jones, Linda Scott Cummings, Chad Yost, Thomas J. Connolly, Robert M. Yohe II, Summer C. Gibbons, Maanasa Raghavan, Morten Rasmussen, Johanna L. A. Paijmans, Michael Hofreiter, Brian M. Kemp, Jodi Lynn Barta, Cara Monroe, M. Thomas P. Gilbert, and Eske

Willerslev. Clovis Age Western Stemmed Projectile Points and Human Coprolites at the Paisley Caves. *Science*, 13 July 2012: 223-228.

Week 9: Beringia, Alaska, and the West

Beck, Charlotte, and George Jones (2013). Complexities of the Colonization Process: a View from the North American West. In *Paleoamerican Odyssey*, edited by Kelly Graf, Caroline Ketron, and Michael Waters, pp. 273-91. Center for the Study of the First Americans, College Station, TX.

Dixon, E. J. 2001 Human Colonization of the Americas: Timing, Technology, and Process. *Quaternary Science Reviews* 20:277-299.

Kunz, Michael, and Tony Baker (2011). *From Mesa to Monte Verde*. Powerpoint presentation.

Potter, Ben, Charles Holmes, and David Yenser (2013). Technology and Economy among the Eastern Prehistoric Foragers in Interior Beringia. In *Paleoamerican Odyssey*, edited by Kelly Graf, Caroline Ketron, and Michael Waters, pp. 81-104. Center for the Study of the First Americans, College Station, TX.

Smith, Heather, Jeffrey Rasic, and Ted Goebel (2013). Biface Traditions of Northern Alaska and their Role in the Peopling of the Americas. In *Paleoamerican Odyssey*, edited by Kelly Graf, Caroline Ketron, and Michael Waters, pp. 105-26. Center for the Study of the First Americans, College Station, TX.

Week 10: The West Coast and Central and South America

Erlandson, Jon M., Madonna L. Moss, and Matthew Des Lauriers 2008 Life on the Edge: Early Maritime Cultures of the Pacific Coast of North America. *Quaternary Science Reviews* 27:2232-2245.

Dillehay, Thomas (2008). Profiles in Pleistocene History. In *The Handbook of South American Archaeology*, edited by Helaine Silverman and William Isbell, pp. 29-43. Springer, NY.

Borrero, Luis Alberto (2008). Early Occupations in the Southern Cone. In *The Handbook of South American Archaeology*, edited by Helaine Silverman and William Isbell, pp. 59-77. Springer, NY.

Pearson, Georges A. 2004 Pan-American Paleoindian Dispersals and the Origins of Fishtail Projectile Points as Seen through the Lithic Raw-Material Reduction Strategies and Tool-Manufacturing Techniques at the Guardiria Site, Turrialba Valley, Costa Rica. In *The Settlement of the American Continents: A Multidisciplinary Approach to Human Biogeography*, edited by C. Michael Barton, Geoffrey A. Clark, David R. Yesner, and Georges A. Pearson, pp. 85-102. University of Arizona Press, Tucson.

Roosevelt, A. C., M. Lima da Costa, C. Lopes Machado, M. Michab, N. Mercier, H. Valladas, J. Feathers, W. Barnett, M. Imazio da Silveira, A. Henderson, J. Sliva, B. Chernoff, D. S. Reese, J.

A. Holman, N. Toth, K. Schick 1996 Paleoindian Cave Dwellers in the Amazon: The Peopling of the Americas. *Science* 272:373–384.

Sandweiss, D. H., H. McInnis, R. L. Burger, A. Cano, B. Ojeda, R. Paredes, M. C. Sandweiss and M. D. Glascock 1998 Quebrada Jaguay: Early South American Maritime Adaptations. *Science* 281:1830

Week 11: Plains and the East

Lepper, B. T. 1999 Pleistocene Peoples of Midcontinental North America. In *Ice Age Peoples of North America: Environments, Origins, and Adaptations of the First Americans*, edited by R. Bonnicksen and K. L. Turnmire, pp. 362–394.

Robinson, B.S., J.C. Ort, W.A. Eldridge, A.L. Burke, and B.G. Pelletier 2009 Paleoindian Aggregation and Social Context at Bull Brook. *American Antiquity* 74:424-447.

Week 12: Evaluating the Migration Theories and Reconstructing Lifeways

Adams, J. M., G. R. Foote, and M. Otte 2001 Could pre–Last Glacial Maximum Humans have Existed in North America Undetected? An Interregional Approach to the Question. *Current Anthropology* 42:563–566.

Erlandson, Jon M., Michael H. Graham, Bruce J. Bourque, Debra Corbett, James A. Estes, and Robert S. Steneckf 2007 The Kelp Highway Hypothesis: Marine Ecology, the Coastal Migration Theory, and the Peopling of the Americas. *Journal of Island & Coastal Archaeology* 2:161–174.

Waters, Michael, and Thomas Stafford (2013). The First Americans: a Review of the Evidence for the Late-Pleistocene Peopling of the Americas. In *Paleoamerican Odyssey*, edited by Kelly Graf, Caroline Ketron, and Michael Waters, pp. 541-60. Center for the Study of the First Americans, College Station, TX.

Wyatt, Steve 2004 Ancient Transpacific Voyaging to the New World via Pleistocene South Pacific Islands. *Geoarchaeology* 19:511-529.

Mandryk, C. A. S., H. Josenhans, D. W. Fedje and R. W. Mathews 2001 Late Quaternary Paleoenvironments of Northwestern North America: Implications for Inland versus Coastal Migration Routes. *Quaternary Science Reviews* 20:301–314.

Week 13: Post-Clovis in North America

Anderson, David (1996). Models of Paleoindian and Early Archaic Settlement in the Lower Southeast. In *The Paleoindian and Early Archaic Southeast*, edited by David Anderson and Kenneth Sassaman, pp. 29-57. University of Alabama Press, Tuscaloosa.

Kennett, D. J., J. P. Kennett, A. West, C. Mercer, S. S. Que Hee, L. Bement, T. E. Bunch, M. Sellers, and W. S. Wolbach 2009 Nanodiamonds in the Younger Dryas Boundary Sediment Layer. *Science* 323:94.

Kerr, Richard A. 2008 Experts Find No Evidence for a Mammoth-Killer Impact. *Science* 319:1331-1332.

Madsen, David (2007). The Paleoarchaic to Archaic Transition in the Great Basin. In *Paleoindian or Paleoarchaic? Great Basin Human Ecology at the Pleistocene-Holocene Transition*, edited by Kelly Graf and Dave Schmidt, pp. 3-20. University of Utah Press, Salt Lake City.

Week 14: Presentations