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MICHAEL R. WATERS

**Professor of Anthropology and Geography
Holder of the Endowed Chair in First American Studies
Director, Center for the Study of the First Americans
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Professional Interests:

Peopling of the Americas, late Quaternary history, Geoarchaeology, North America, Northeast Asia

Degrees Received:

**Ph.D. 12/83 Geosciences, University of Arizona, Tucson
M. S. 5/80 Geosciences, University of Arizona, Tucson
B. S. 12/77 Geosciences, University of Arizona, Tucson**

Employment History:

2005-present Professor, Departments of Anthropology and Geography; Holder of the Endowed Chair in First American Studies; Director, Center for the Study of the First Americans; Executive Director, North Star Archaeological Research Program; Texas A&M University, College Station, Texas.

2002-2004 Professor, Departments of Anthropology and Geography; Holder of the Endowed Professorship in First American Studies; Associate Director, Center for the Study of the First Americans; Executive Director, North Star Archaeological Research Program; Texas A&M University, College Station, Texas.

1998-2002 Professor, Departments of Anthropology and Geography, Texas A&M University, College Station, Texas.

1991-1998 Associate Professor, Departments of Anthropology and Geography, Texas A&M University, College Station, Texas.

- 1986-1991 Assistant Professor, Departments of Anthropology and Geography, Texas A&M University, College Station, Texas.
- 1979-1996 Geoarchaeologist on over 50 archaeological field projects in the United States, Yemen, Jamaica, and Russia.
- 1978-1986 Archaeological consultant on over 25 archaeological projects in California and Arizona.
- 1978-1985 Geologist, U.S. Geological Survey, Denver, Colorado (part-time).
- 1971-1978 Archaeological field assistant on 12 archaeological field projects.

Current Research Projects:

- Geoarchaeological and archaeological investigations of the Buttermilk Creek Clovis site, Texas.
- Geoarchaeological and archaeological investigations of the Gault Clovis site, Texas.
- Geoarchaeological investigations of the Hueyatenco "Pre-Clovis" site, Mexico.
- Geoarchaeological and archaeological investigations of Mammoth sites in southern Wisconsin.

Professional Memberships:

Society for American Archaeology
American Quaternary Association
Geological Society of America (Fellow)
Sigma Xi, The Scientific Research Society of North America

Publications:

Journal Articles:

Waters, M. R., 2008, Alluvial chronologies and archaeology of the Gila River drainage basin, Arizona: *Geomorphology*, v. 101, p. 332-341.

Collins, M. B., Waters, M. R., Goodyear, A. C., Stanford, D. J., Pertierra, T., and Goebel, T., 2008, Paleoamerican origins workshop: a brief report: Current Research in the Pleistocene, v. 25, p. 195-197.

Waters, M. R., Wiersema, J., and Stafford, T. W., 2008, A geoarchaeological evaluation of an early human burial from Brazoria County, Texas: Journal of Archaeological Science, v. 35, p. 2425-2433.

Goebel, T., Waters, M. R., and O'Rourke, D. H., 2008, The late Pleistocene dispersal of modern humans in the Americas: Science, v. 319, p.1497-1502.

Waters, M. R., and Stafford, T. W., 2007, Redefining the age of Clovis: Implications for the peopling of the Americas: Science, v. 315, p. 1122-1126.

Gingerich, J. A. M., and Waters M. R., 2007, New dates from the Shawnee-Minisink site, Pennsylvania. Current Research in the Pleistocene, v. 24, p. 90-92.

- Hildebrand, J. A., Wiggins, S. M., Driver, J. L., and Waters, M. R., 2007, Rapid seismic reflection imaging at the Clovis period Gault site in central Texas. Archaeological Prospection, v. 14, p. 245-260.
- Renne, P. R., Feinberg, J. M., Waters, M. R., Arroyo-Cabrales, J., Ochoa-Castillo, P., Perez-Campa, M., and Knight, K. B., 2005, Age of Mexican ash with alleged “footprints”: Nature, v. 438, p. 7-8.
- Darling, J. A., Ravesloot, J. C., and Waters, M. R., 2004, Village drift and riverine settlement: modeling Akimel O’Odham land use: American Anthropologist, v. 106, p.282-295.
- Ravesloot, J. C., and Waters, M. R., 2004, A Geoarchaeological approach to interpreting archaeological site patterning along the middle Gila River Valley, Arizona: Journal of Field Archaeology, v. 29:203-214.
- Buvit, I., Waters, M. R., Konstantinov, M. V., and Konstantinov, A. V., 2003, Geoarchaeological investigations at Studenoe, an Upper Paleolithic site in the Transbaikal region, Russia: Geoarchaeology: An International Journal, v. 18, p. 649-673.
- Goebel, T., Waters, M. R., and Dikova, M., 2003, The archaeology of Ushki Lake, Kamchatka, and the Pleistocene peopling of the Americas: Science, v. 301, p. 501-505.
- Waters, M. R. and Ravesloot, J. R., 2003, Disaster or catastrophe: human adaptation to high- and low-frequency landscape processes—a reply to Ensor, Ensor, and Devries: American Antiquity, v. 68, p. 400-405.
- Waters, M. R., and Haynes, C. V., 2001, Late Quaternary arroyo formation in the American Southwest: Geology, v. 29, p. 399-402.
- Waters, M. R., and Ravesloot, J. C., 2001, Landscape change and the cultural evolution of the Hohokam along the middle Gila River and other river valleys in south-central Arizona: American Antiquity, v. 66, p. 285-299.
- Goebel, T., and Waters, M. R., 2000, New AMS ¹⁴C ages for the Tolbaga Upper Paleolithic site, Transbaikal, Siberia: Current Research in the Pleistocene, v. 17, p. 32-34.
- Goebel, T., Waters, M. R., and Meshcherin, M. N., 2000 Masterov Kliuch—An early Upper Paleolithic site in the Transbaikal, Siberia: Asian Perspectives, v. 39, p. 47-71.
- Goebel, T., Waters, M. R., Buvit, I., Konstantinov, M. V., and Konstantinov, A. V.,

- 2000, Studenoe-2 and the origins of microblade technologies in the Transbaikal, Siberia: Antiquity, v. 74, p. 567-575.
- Waters, M. R., 2000, Alluvial stratigraphy and geoarchaeology in the American Southwest: Geoarchaeology: An International Journal, v. 15, p. 537-557.
- Waters, M. R., and Ravesloot, J. C., 2000, Late Quaternary geology of the middle Gila River, Gila River Indian Reservation, Arizona: Quaternary Research, v. 54, p. 49-57.
- Waters, M. R., Forman, S., and Pierson, J., 1999, Late Quaternary geology and geochronology of Diring Yuriakh: An Early Paleolithic site in central Siberia: Quaternary Research, v. 51, p. 195-211.
- Waters, M. R., Byrd, B., and Reddy, S., 1999, Geoarchaeological investigations of San Mateo and Las Flores Creeks, California: Implications for coastal settlement models: Geoarchaeology: An International Journal, v. 14, p. 289-306.
- Pearl, F. B., and Waters, M. R., 1999, A geoarchaeological assessment of alluvial valleys at Camp Pendleton with an overview of the important natural site formation processes: Pacific Coast Archaeological Quarterly, v. 35, p. 19-32.
- Waters, M. R., 1998, The Sulphur Spring stage of the Cochise Culture and its place in Southwestern prehistory: The Kiva, v. 64, p. 115-135.
- Waters, M. R., 1998, The effect of landscape and hydrologic variables on the prehistoric Salado: Geoarchaeological investigations of the Tonto Basin, Arizona: Geoarchaeology: An International Journal, v. 13, p. 105-160.
- Waters, M. R., Forman, S., and Pierson, J., 1997, Evaluation of the stratigraphy and age of Diring Yuriakh: a Lower Paleolithic site in central Siberia: Current Research in the Pleistocene, v. 14, p. 87-89.
- Waters, M. R., Forman, S., and Pierson, J., 1997, Diring Yuriakh: A Lower Paleolithic site in central Siberia: Science, v. 275, p. 1281-1284.
- Waters, M. R., and Kuehn, D. D., 1996, The geoarchaeology of place: The effect of geological processes on the preservation and interpretation of the archaeological record: American Antiquity, v. 61, p. 483-497.
- Waters, M. R., and Nordt, L., 1995, Late Quaternary floodplain history of the Brazos River, Texas: Quaternary Research, v. 43, p. 311-319.
- Nordt, L. C., Boutton, T. W., Hallmark, C. T., Waters, M. R., 1994, Late Quaternary vegetation and climate changes in central Texas based on stable

carbon isotopes: Quaternary Research, v. 41, p. 109-120.

Waters, M. R., Giardino, J. R., Ryter, D., and Parrent, J. M., 1993, Geoarchaeological investigations of St. Ann's Bay, Jamaica: The search for the Columbus Caravels and an assessment of 1000 years of human land use: Geoarchaeology: An International Journal, v. 8, p. 259-279.

Largent, F. B., Jr., Waters, M. R., and Carlson, D. L., 1991, The spatiotemporal distribution and characteristics of Folsom projectile points in Texas: Plains Anthropologist, v. 36, p. 323-341.

Waters, M. R., 1991, The geoarchaeology of gullies and arroyos in southern Arizona: Journal of Field Archaeology, v. 18, p. 141-159.

Ellis, G. L., and Waters, M. R., 1991, Cultural and landscape influences on Tucson Basin Hohokam settlement: American Anthropologist, v. 93, p. 125-137.

Largent, F. B., Jr., and Waters, M. R., 1990, The distribution of Folsom points in Texas: Current Research in the Pleistocene, v. 7, p. 62-64.

Woosley, A. I., and Waters, M. R., 1990, Reevaluation of early Cochise artifact associations with Pleistocene Lake Cochise, southeastern Arizona: American Antiquity, v. 55, p. 360-366.

Waters, M. R., and Woosley, A. I., 1990, The geoarchaeology and Archaic prehistory of the Willcox Basin, southeastern Arizona: Journal of Field Archaeology, v. 17, p. 163-175.

Waters, M. R., 1989, Late Quaternary pluvial episodes of Lake Cochise Arizona: Current Research in the Pleistocene, v. 6, p. 93-95.

Waters, M. R., 1989, Late Pleistocene and Holocene lacustrine history and paleoclimatic significance of pluvial Lake Cochise, southern Arizona: Quaternary Research, v. 32, p. 1-11.

Waters, M. R., 1988, Impact of fluvial adjustments on archaeological sites and settlement patterns along the San Xavier Reach of the Santa Cruz River, Arizona: Geoarchaeology: An International Journal, v. 3, p. 205-219.

Waters, M. R., 1988, Implications of the alluvial record of the Santa Cruz River to the discovery of Paleo-Indian and early Archaic sites in the Tucson Basin, Arizona: Current Research in the Pleistocene, v. 5, p. 98-99.

Waters, M. R., 1988, Holocene alluvial geology and geoarchaeology of the San Xavier reach of the Santa Cruz River, Arizona: Geological Society of

America Bulletin, v. 100, p. 479-491.

Waters, M. R., and Field, J., 1986, Geomorphic analysis of Hohokam settlement patterns on alluvial fans along the western flank of the Tortolita Mountains, Arizona: Geoarchaeology: An International Journal, v. 1, p. 329-345.

Waters, M. R., 1986, Sulphur Springs Woman: An early human skeleton from southeastern Arizona: American Antiquity, v. 51, p. 361-365.

Waters, M. R., 1986, The Sulphur Spring phase and its place in New World prehistory: Quaternary Research, v. 25, p. 251-256.

Waters, M. R., 1985, Late Quaternary alluvial stratigraphy of Whitewater Draw, Arizona: Implications for regional correlation of fluvial deposits in the American Southwest: Geology, v. 13, p. 705-708.

Waters, M. R., 1985, Early Holocene occupation along Whitewater Draw, southeastern Arizona: The Sulphur Spring stage: Current Research in the Pleistocene, v. 2, p. 31-33.

Waters, M. R., 1983, Late Holocene lacustrine chronology and archaeology of ancient Lake Cahuilla, California: Quaternary Research, v. 19, no. 3, p. 373-387.

Waters, M. R., 1983, Man and Pleistocene Lake Cahuilla, California: Journal of New World Archaeology, v. 5, no. 3, p. 1-3.

Articles in Books:

Ravesloot, J. C., Darling, J. A., and Waters, M. R., 2008, Hohokam and Pima-Maricopa irrigation agriculturalists: Maladaptive or resilient societies, in, Fisher, C., Hill, J. B., and Feinman, G., eds., The Socio-Natural Connection: Integrating Archaeology and Environmental Studies for 21st Century Conservation: University of Arizona Press, in press.

Waters, M. R., 2007, Archaeological excavation of the Center Hill Site (SDM W-179), San Diego County, California, in Kaldenberg, R. L. And Gross, G. T., eds., Archaeological Papers in Honor of the Life and Professional Contributions of Paul H. Ezell, Anthropologist: San Bernardino County Museum, California, in press.

Waters, M. R., 2006, Prehistoric human response to landscape changes in the American Southwest, in, Doyel, D. E., and Dean, J. S., eds., Environmental Change and Human Adaptation in the Ancient American Southwest: Albuquerque, University of New Mexico Press, p. 26-45.

Waters, M. R., 2004, The role of geoarchaeology in the search for the first

- Americans, in, Lepper, B. T. And Bonnicksen, R., eds., New Perspectives on the First Americans: Center for the Study of the First Americans, Texas A&M University, College Station, Texas, p. 187-192.
- Waters, M. R., 2003, Dating late Quaternary alluvial stratigraphic sequences, in, Howard, A. J., Macklin, M. G., and Passmore, D. G., eds., Alluvial Archaeology in Europe: Swets & Zeitlinger B.V., Lisse, The Netherlands, p. 305-312.
- Waters, M. R., 1990, The Sulphur Spring - Clovis Controversy, in, Derevyenko, A. P., ed., Chronostratigraphy of the Paleolithic in North, Central, East Asia and America: U.S.S.R. Academy of Sciences, Novosibirsk, U.S.S.R., p. 249-254.
- Waters, M. R., 1990, Late Quaternary alluvial stratigraphy and early Holocene archaeology of Whitewater Draw, Arizona, in, Donahue, J. D., and Lasca, N. P., eds., Archaeological Geology of North America: Boulder, G.S.A. Centennial Special Volume 4, p. 315-322.
- Waters, M. R., and Haynes, C. V., 1987, Archaeological geology of Paleo-Indian sites in southeastern Arizona: Geologic Diversity of Arizona and its Margins: Arizona Bureau of Geology and Mineral Technology Special Paper 5, p. 212-220.
- Waters, M. R., 1985, Early man in the New World: An evaluation of the radiocarbon dated pre-Clovis sites in the Americas, in, Mead, J. I., and Meltzer, D., eds., Environments and Extinctions: Man in Late Glacial North America: Orono, University of Maine, Center for the Study of Early Man, p. 125-143.
- Waters, M. R., 1982, The Lowland Patayan ceramic tradition, in, McGuire, R. H., and Schiffer, M. B., eds., Hohokam and Patayan: Prehistory of Southwestern Arizona: New York, Academic Press, p. 275-298.
- Waters, M. R., 1982, Trail shrines at site SDM C-1, in, McGuire, R. H., and Schiffer, M. B., eds., Hohokam and Patayan: Prehistory of Southwestern Arizona: New York, Academic Press, p. 533-536.
- Waters, M. R., 1982, The Lowland Patayan ceramic typology, in, McGuire, R. H., and Schiffer, M. B., eds., Hohokam and Patayan: Prehistory of Southwestern Arizona: New York, Academic Press, p. 537-570.
- Waters, M. R., 1982, Ceramic data from Lowland Patayan sites, in, McGuire, R. H., and Schiffer, M. B., eds., Hohokam and Patayan: Prehistory of Southwestern Arizona: New York, Academic Press, p. 571-580.

Monographs and Books:

Waters, M. R., 2004, Lone Star Stalag: German Prisoners of War at Camp Hearne: Texas A&M University Press, College Station, 268 p.

Waters, M. R., 1992, Principles of Geoarchaeology: A North American Perspective: University of Arizona Press, Tucson, 398 p.

Wallace, C. A., Lidke, D. J., Waters, M. R., and Obradovich, J. D., 1989, Rocks and structure of the southern Sapphire Mountains, Granite and Ravalli Counties, western Montana: U.S. Geological Survey Bulletin 1824, 29 p.

Waters, M. R., 1986, The geoarchaeology of Whitewater Draw, Arizona: Tucson, University of Arizona Anthropological Papers no. 45, 81 p.

Edited Volumes:

Bonnichsen, R., Lepper, B. T., Stanford, D., and Waters, M. R. (Editors), 2005, Paleoamerican Origins: Beyond Clovis: Center for the Study of the First Americans, Texas A&M University, College Station, Texas, 367 p.

Geologic Maps:

Loen, J. S. and Waters, M. R., 1988, Geologic map of the Pioneer District, Powell County, Montana: U. S. Geological Survey Open-File Report 87-0346, 1 map.

Wallace, C. A., Schmidt, R. G., Lidke, D. J., Waters, M. R., and others, 1987, Preliminary Geologic Map of the Butte 1° x 2° Quadrangle, western Montana: U.S. Geological Survey Open File Report OF-86-292, 14 p., 1 map.

Elliot, J. E., Waters, M. R., Campbell, W. L., and Avery, D. W., 1984, Mineral resource potential and geologic map of the Dolus Lakes roadless area, Powell and Granite Counties, Montana: U.S. Geological Survey Miscellaneous Field Studies Map, MF-1640-A, 16 p., 1 map.

Wallace, C. A., Schmidt, R. G., Waters, M. R., Lidke, D. J., and French, A. B., 1981, Preliminary geologic map of parts of the Butte 1 X 2 degree quadrangle, Montana: U. S. Geological Survey Open-File Report 81-1030, 3 sheets.

Other Publications:

Over 65 abstracts and presented papers.

Seven book reviews.
Five replies.
Over 40 contract and technical reports.
Two popular articles.

Awards, Honors, and Scholarships:

George Carter Professor Emeritus Lecture Series, Department of Geography, Texas A&M University, 2006
Fallon-Marshall Lecture, College of Liberal Arts, Texas A&M University, 2005
Kirk Bryan Award, Geological Society of America, 2003
Rip Rapp Archaeological Geology Award, Geological Society of America, 2004
Named a Fellow of the Geological Society of America, 2004
University of Leeds, England, School of Geography, "Distinguished International Visiting Scholar," 2000
Texas A&M University Association of Former Students, Teaching Award, 1998
Chevron Oil Scholarship, 1982-83
Cities Services Geology Scholarship, 1977-78
Graduation with honors and distinction, 1977
Evans B. Mayo Award for outstanding performance in field geology
Beta Tau Chapter, Sigma Gamma Epsilon and NAGT nomination,
Department of Geosciences summer field camp, 1977
Eagle Scout, Troop 874, San Diego County, California, 1970.
Numerous invited lectures at universities across the United States.

Research Grants:

Interdisciplinary Research Initiatives Program, Texas A&M University, 1995, 1997, 1999
Incentive Grant, Center for Teaching Excellence, Texas A&M University, 1996, 1997
Advanced Research Program, Texas Higher Education Coordinating Board Grant, 1993, 1999
National Science Foundation, 2000, 2004
National Geographic Society Research Grant, 1993
International Research and Exchange Board, 1989
Texas A&M University International Enhancement Grant, 1989
Texas A&M University Mini-Grant, 1991, 1993, 1995
Texas A&M University Faculty Development Leave, Spring 1992, Spring 1997, Spring 2003
Texas Historical Commission, Texas Preservation Trust Fund Grant, 1999
College of Liberal Arts Summer Research Award, 1987, 1989
Wenner-Gren Foundation for Anthropological Research, 1982
Sigma Xi, Grants-in-Aid of Research, 1982
Educational Fund for Archaeology, University of Arizona, 1982
Great Basin Foundation, San Diego, California, 1979

Geological Society of America, 1979

Graduate College Program Development Fund, University of Arizona, 1979, 1982