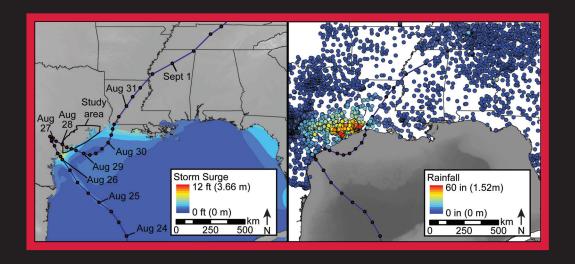
AMERICAN ANTIQUITY

Volume 84 Number 2 April 2019





SOCIETY FOR AMERICAN ARCHAEOLOGY

EDITORIAL STAFF OF AMERICAN ANTIQUITY

Editor: LYNN H. GAMBLE, Department of Anthropology, University of California, Santa Barbara, Santa Barbara, CA 93106; phone: 805-893-7341; e-mail: gamble@anth.ucsb.edu

Editorial Assistant: HUGH D. RADDE, Department of Anthropology, University of California, Santa Barbara, Santa Barbara, CA 93106; e-mail: hradde@umail.ucsb.edu

Book Review Editor: CHRISTOPHER B. RODNING, Department of Anthropology, Tulane University, 101 Dinwiddie Hall, 6823 Saint Charles Avenue, New Orleans, LA 70118; phone: 504-862-3051; e-mail: crodning@tulane.edu Managing Editor: MARNIE COLTON, Society for American Archaeology, 1111 14th Street NW, Suite 800, Washington, DC 20005; phone: 202-789-8200; e-mail: marnie_colton@saa.org

AMERICAN ANTIQUITY EDITORIAL BOARD 2018–2021

SUSAN M. ALT, Indiana University, USA
DOUGLAS BAMFORTH, University of Colorado, USA
CHERYL P. CLAASSEN, Appalachian State University, USA
JELMER EERKENS, University of California, Davis, USA
KELLEY HAYS-GILPIN, Northern Arizona University, USA
DOUGLAS J. KENNETT, University of California, Santa Barbara, USA
PATRICIA LAMBERT, Utah State University, USA
MATTHEW J. LIEBMANN, Harvard University, USA
NATASHA LYONS, Ursus Heritage Consulting and Simon Fraser University, Canada
BARBARA J. MILLS, University of Arizona, USA
ANNA MARIE PRENTISS, University of Montana, USA
TORBEN C. RICK, Smithsonian Institution, USA
TSIM D. SCHNEIDER, University of California, Santa Cruz, USA
STEPHEN SILLIMAN, University of Massachusetts, Boston, USA

American Antiquity (ISSN 0002-7316) is published quarterly in January, April, July, and October on behalf of the Society for American Archaeology by Cambridge University Press, One Liberty Plaza, 20th Floor, New York, NY 10006. The journal is one of three offered as a benefit of individual membership. Institutional subscription rates, print and digital: \$412 in the U.S. and Canada (£275 + VAT elsewhere). Institutional subscription rates, digital only: \$360 in the U.S. and Canada (£237 + VAT elsewhere). It is also possible to purchase American Antiquity as part of an SAA Package including Latin American Antiquity and Advances in Archaeological Practice. Institutional subscription rates, print and digital*: \$678.00 in the U.S. and Canada (£452 + VAT elsewhere). Institutional subscription rates, digital only: \$584 in the U.S. and Canada (£389 + VAT elsewhere). An SAA Premium Package, which includes the three journals plus an annual lease access to the digital archives of the journals, is also available. *Advances in Archaeological Practice is a digital only publication. Society members receive digital access to all three journals along with one print journal subscription. An additional print subscription can be purchased. To subscribe, change an address, or order back issues, please write to the Society for American Archaeology at the address below. Prepayment is required, payable in U.S. funds. American Antiquity is not available for exchange. Claims for nonreceipt and for damaged copies must be made within 90 days (U.S.) or 180 days (non-U.S.) of the publication date for free replacement. Non-U.S. deliveries cannot be guaranteed; non-U.S. members and subscribers may purchase replacement copies.

Periodicals postage paid at New York, NY, and additional mailing offices. POSTMASTER: Send address changes to *American Antiquity*, c/o Society for American Archaeology, 1111 14th Street NW, Suite 800, Washington, DC 20005, or e-mail membership@saa.org



ARTICLES

- 191 Declining Foraging Efficiency in the Middle Tennessee River Valley Prior to Initial Domestication Elic M. Weitzel
- 215 Dukha Mobility in a Constructed Environment: Past Camp Use Predicts Future Use in the Mongolian Taiga Randall Haas, Todd A. Surovell, and Matthew J. O'Brien
- 234 Bioarchaeological Evidence for Social Maturation in the Mortuary Ritual of Ipiutak and Tigara Hunter-Gatherers: Lifespan Perspectives on the Emergence of Personhood at Point Hope, Alaska *Lauryn C. Justice and Daniel H. Temple*
- 252 An Optimal Irrigation Model: Theory, Experimental Results, and Implications for Future Research Shannon A. Boomgarden, Duncan Metcalfe, and Ellyse T. Simons
- A Quantitative Dwelling-Scale Approach to the Social Implications of Maize Horticulture in New England

 William A. Farley, Amy N. Fox, and M. Gabriel Hrynick

REPORTS

- 292 Preparing for the Future Impacts of Megastorms on Archaeological Sites: An Evaluation of Flooding from Hurricane Harvey, Houston, Texas Leslie A. Reeder-Myers and Mark D. McCoy
- 302 The Red Bird River Shelter (15CY52) Revisited: The Archaeology of the Cherokee Syllabary and of Sequoyah in Kentucky Jan F. Simek, Beau Duke Carroll, Julie Reed, Alan Cressler, Tom Belt, Wayna Adams, and Mary White
- 317 Calculating Hohokam Domestic Architecture Building Costs to Test an Environmental Model of Architectural Changes David R. Abbott, Douglas B. Craig, Hannah Zanotto, Veronica Judd, and Brent Kober

American Antiquity is abstracted or indexed in Abstracts in Anthropology; Academic Search; America; Arts and Humanities Citation Index®; History and Life; Anthropological Literature; Art Index; ASTIS Bibliography; ASTIS Current Awareness Bulletin; Current Contents®/Arts and Humanities; Book Review Index; Ceramic Abstracts; Ethnoarts Index; Expanded Academic Index; GeoRef; Hispanic American Periodicals Index; Historical Abstracts; Humanities Index; International Bibliography of Social and Cultural Anthropology; International Bibliography of the Social Sciences; Middle East, Abstracts and Index; Social Sciences Citation Index®; and SportSearch.

Copyright © 2019 by the Society for American Archaeology. All Rights Reserved. ISSN 0002-7316

- 336 Isotopic Insights into Dietary Life History, Social Status, and Food Sharing in American Samoa Jelmer W. Eerkens, Eric J. Bartelink, Julianna Bartel, and Phillip R. Johnson
- 353 Projectile Point Reworking: An Experimental Study of Arrowpoint Use Life Chris Loendorf, Thatcher Rogers, Theodore J. Oliver, Brian R. Huttick, Allen Denoyer, and M. Kyle Woodson

REVIEWS

- 366 The Oxford Handbook of the Prehistoric Arctic, edited by T. Max Friesen and Owen K. Mason *Donald H. Holly, Jr.*
- 367 Marine Ventures: Archaeological Perspectives on Human-Sea Relations, edited by Hein B. Bjerck, Heidi Mjelva Breivik, Silje E. Fretheim, Ernesto L. Piana, Birgitte Skar, Angélica M. Tivoli, and A. Francisco Zangrando E. James Dixon
- 368 The Archaeology and History of Pueblo San Marcos: Change and Stability, edited by Ann F. Ramenofsky and Kari L. Schleher
 B. Sunday Eiselt
- 369 New Mexico and the Pimería Alta: The Colonial Period in the American Southwest, edited by John G. Douglass and William M. Graves Sarah Trabert
- 370 Sex and Death on the Western Emigrant Trail: The Biology of Three American Tragedies, by Donald K. Grayson Donald L. Hardesty
- 371 Applied Soils and Micromorphology in Archaeology, by Richard I. Macphail and Paul Goldberg Vance T. Holliday
- 372 New Geospatial Approaches to the Anthropological Sciences, edited by Robert L. Anemone and Glenn C. Conroy

 Thomas G. Whitley
- 373 Early Human Life on the Southeastern Coastal Plain, edited by Albert C. Goodyear and Christopher R. Moore Joseph A. M. Gingerich
- 374 Petroglyphs, Pictographs, and Projections: Native American Rock Art in the Contemporary Cultural Landscape, by Richard A. Rogers Aaron M. Wright
- 375 Frontiers of Colonialism, edited by Christine D. Beaule *Maxine Oland*
- 376 Blackbeard's Sunken Prize: The 300-Year Voyage of Queen Anne's Revenge, edited by Mark U. Wilde-Ramsing and Linda F. Carnes-McNaughton John R. Bratten
- 377 Ancient Ocean Crossings: Reconsidering the Case for Contacts with the Pre-Columbian Americas, by Stephen C. Jett Terry L. Jones