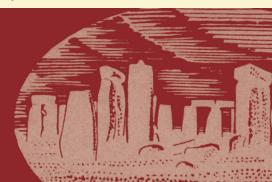


www.antiquity.ac.uk Volume 97 • Number 391 • February 2023

A REVIEW OF WORLD ARCHAEOLOGY EDITED BY ROBERT WITCHER

ISSN 0003 598X

https://doi.org/10.15184/aqy.2023.6 Published online by Cambridge University Press



REVIEWS EDITOR Marion Uckelmann

> DEPUTY EDITOR Robin Skeates

EDITORIAL MANAGER Lindsey Elstub PRODUCTION TEAM LEADER Ross Kendall

PUBLIC ENGAGEMENT AND PRESS ADMINISTRATOR

Adam Benton

EDITORIAL ASSISTANT Frederick Foulds

EDITORIAL ADDRESS

Antiquity, Department of Archaeology, Durham University, South Road, Durham DH1 3LE, UK Tel: +44 (0) 191 3341125; Email: editor@antiquity.ac.uk

Antiquity is an international, peer-reviewed journal of archaeological research that aims to communicate the most significant discoveries, theory, method and cultural resource issues rapidly and in plain language to practising archaeologists everywhere.

Antiquity is included in the Cambridge Journals Online service at http://journals.cambridge.org/AQY. Additional and free-to-access material may be found at http://antiquity.ac.uk

Antiquity was founded in 1927 by O.G.S. Crawford and is owned by the Antiquity Trust, a registered charity. The trustees of the Antiquity Trust are Graeme Barker, Amy Bogaard, Robin Coningham, Barry Cunliffe, Roberta Gilchrist, Anthony Harding, Carl Heron, Martin Millett, Nicky Milner, Stephanie Moser and Cameron Petrie.

The Directors of Antiquity Publications Ltd, owned by the Antiquity Trust and responsible for producing *Antiquity*, are **Chris Gosden**, **Sue Hamilton**, **Nicky Milner**, **Cameron Petrie**, **Mike Pitts**, **Marie Louise Stig Sørensen and Robert Witcher**.

EDITORIAL ADVISORY BOARD

Peter Bellwood, The Australian National University, Australia	Peter Mitchell, University of Oxford, UK
Xingcan Chen, Chinese Academy of Social Sciences, Beijing	Timothy Pauketat, University of Illinois, USA
Eduardo Goés Neves, Universidade de São Paulo, Brazil	Victor Paz, University of The Philippines, The Philippines
Elizabeth Graham, University College London, UK	Michael Petraglia, Australian Research Centre for Human
Charles Higham, University of Otago, New Zealand	Evolution, Griffith University, Australia
Corinne Hofman, Leiden University, the Netherlands	Innocent Pikirayi, University of Pretoria, South Africa
Stephen Houston, Brown University, USA	Susan Pollock, Freie Universität Berlin, Germany
Timothy Insoll, University of Exeter, UK	Natalia Shishlina, State Historical Museum, Moscow, Russia
Susan Keech McIntosh, Rice University, USA	Benjamin Smith, University of Western Australia, Australia
Ian Kuijt, University of Notre Dame, USA	Claire Smith, Flinders University, Australia
Kevin Lane, Universidad de Buenos Aires, Argentina	Monica Smith, University of California, Los Angeles, USA
Akira Matsuda, University of Tokyo, Japan	Miriam Stark, University of Hawai'i-Manoa, USA
Barbara Mills, University of Arizona, USA	Sarah Tarlow, University of Leicester, UK

Antiquity is published six times a year: February, April, June, August, October and December.

Published by Cambridge University Press on behalf on Antiquity Publications Ltd.

Advertising enquiries to the publisher at advertising@cambridge.org.

©Antiquity Publications 2023. All rights reserved. No part of this publication may be reproduced, in any form or by any means, electronic, photocopying or otherwise, without permission in writing from Cambridge University Press. Permission to copy (for users in the USA) is available from Copyright Clearance Center, http://www.copyright.com, email: info@copyright.com. This journal issue has been printed on FSCTM-certified paper and cover board. FSC is an independent, non-governmental, not-for-profit organisation established to promote the responsible management of the world's forests. Please see www.fsc.org for information.

Printed by Bell & Bain Limited, Glasgow, UK.

Cartographic design by Connor J. Sweetwood; inset maps use map data from Mapbox, OpenStreetMap and their data sources. To learn more, visit https://www.mapbox.com/about/maps/ and http://www.openstreetmap.org/copyright.

Typesetting: Nova Techset Private Limited, Bengaluru & Chennai, India.

Subscriptions can be purchased from Cambridge University Press and online at https://www.cambridge.org/core/journals/ antiquity/subscribe.

Antiquity remains neutral with regard to jurisdictional claims in maps supplied by authors.

Cover. A kneeling bronze figurine with a Zun (ritual vessel) on its head, from Bronze Age (c. 2700–1000 BC) Sanxingdui, south-west China. Ongoing excavations at the site are shedding light on the sacrificial practices of the Sanxingdui Culture, permitting comparison of the site with other contemporaneous Bronze Age urban centres, and setting a methodological precedent for future excavations of early Chinese sites. For more information, see 'New discoveries at the Sanxingdui Bronze Age site in south-west China' by Yingfu Li, Tian Qiu, Jianbo Guo and Yuniu Li in this issue (image reproduced from Xu et al. 2021b: back cover, with permission of the Director of the Sichuan Provincial Institute of Cultural Relics and Archaeology, who leads the Sanxingdui excavations).



Volume 97

Number 391

February 2023

1

Editorial

Robert Witcher

Research Articles

Cooking in caves: Palaeolithic carbonised plant food remains from Franchthi and Shanidar Ceren Kabukcu, Chris Hunt, Evan Hill, Emma Pomeroy, Tim Reynolds, Graeme Barker & Eleni Asouti	12
New radiocarbon dates for ornamented Mesolithic objects from north-west Poland: chronology and regional connections in the western Baltic region Tomasz Płonka, Michał Adamczyk & Marcin Diakowski	29
The emergence of monumental architecture in Atlantic Europe: a fortified fifth-millennium BC enclosure in western France Vincent Ard, Marylise Onfray, David Aoustin, Éric Bouchet, Guillaume Bruniaux, Grégory Dandurand, François Daniel, Alexa Dufraisse, Salomé Granai, Antoine Laurent, Victor Legrand, François Lévêque, Friedrich Lüth, Vivien Mathé, Pascal Mora & Hélène Vitté	50
New Early Neolithic and Late Bronze Age amber finds from Thy Timothy Earle, Jens-Henrik Bech & Chiara Villa	70
Materials in movement: gold and stone in process in the Upton Lovell G2a burial Rachel J. Crellin, Christina Tsoraki, Christopher D. Standish, Richard B. Pearce, Huw Barton, Sarah Morriss & Oliver J.T. Harris	86
Pigeons and papyrus at Amarna: the birds of the Green Room revisited Christopher M. Stimpson & Barry J. Kemp	104
Bogs, bones and bodies: the deposition of human remains in northern European mires (9000 BC–AD 1900) Roy van Beek, Cindy Quik, Sophie Bergerbrant, Floor Huisman & Pikne Kama	120

In search of a musical past: evidence for early chordophones from Vietnam	141
Fredeliza Z. Campos, Jennifer R. Hull & Vương Thu Hồng	
Magical practices? A non-normative Roman imperial cremation at Sagalassos Johan Claeys, Katrien Van de Vijver, Elena Marinova, Sam Cleymans, Patrick Degryse & Jeroen Poblome	158
Into the Tsar's residence: geophysical survey of the early medieval Bulgarian capital of Veliki Preslav Peter Milo, Petar Dimitrov, Mariya Manolova-Voykova, Tomáš Tencer, Beáta Milová & Michal Vágner	176
Beyond Inca roads: archaeological mobilities from the high Andes to the Pacific in southern Peru David G. Beresford-Jones, Christian Mader, Kevin J. Lane, Lauren Cadwallader, Benedikt Gräfingholt, George Chauca, Jennifer Grant, Stefan Hölzl, Luis V.J. Coll, Matthias Lang, Johny Isla, Charles French & Markus Reindel	194
A systematic approach for studying the persistence of settlements in the past Katherine A. Crawford, Angela C. Huster, Matthew A. Peeples, Nicolas Gauthier, Michael E. Smith, José Lobo, Abigail M. York & Dan Lawrence	213
Debate Article	
Archaeological knowledge production: reading mortuary reconstructions Marianne Moen, Neil Price & Unn Pedersen	231
Reviews	
Book reviews	
Deborah Barsky <i>Human prehistory: exploring the past to understand the future</i> MICHAEL J. WALKER	241
Brian N. Andrews & Danielle A. Macdonald (ed.). <i>More than shelter from the storm: hunter gatherer houses and the built environment</i> Ashley Lemke	243
Brian Hayden Understanding chipped stone tools Anders Högberg	245

Kristian Kristiansen Archaeology and the genetic revolution in European prehistory IAN ARMIT	247
Christoph Baumer History of the Caucasus: at the crossroads of empires Norman Hammond	249
Marta Alberti & Katie Mountain (ed.). <i>Hadrian's Wall: exploring its past to protect its future</i> RICHARD HINGLEY	251
Kathleen Sheppard <i>Tea on the terrace: hotels and Egyptologists' social networks,</i> 1885–1925 HÉLÈNE MALOIGNE	253
Paul Everill & Karen Burnell (ed.). Archaeology, heritage, and wellbeing: authentic, powerful and therapeutic engagement with the past TIMOTHY DARVILL	255

New Book Chronicle

CLAIRE NESBITT

Project Gallery (http://www.cambridge.org/core/journals/antiquity/project-gallery)

258

Tracking Pleistocene occupation on the Eastern Iranian Plateau: preliminary results

Ali Sadraei, Ceri Shipton, Omran Garazhian, Mahya Azar, Roghayeh Zafaranlou & Mohammad Reza Soroush

The *Shaqadud Archaeological Project* (Sudan): exploring prehistoric cultural adaptations in the Sahelian hinterlands

Ladislav Varadzin, Lenka Varadzinová, Altayeb Abdallah, Boshra Abdallah Abdallah, Mustafa Abdalla Mohammed, Stanley H. Ambrose, Pavel Burgert, Martin Černý, Giulia D'Ercole, Dorian Q. Fuller, Elena A.A. Garcea, Jan Hošek, Kristýna Hošková, Mica B. Jones, Katarína Kapustka, Ikram Madani Ahmed, Jon-Paul McCool, Hamad Mohamed Hamdeen, Jan Novák, Adéla Pokorná, Petr Pokorný, Jaroslav Řídký & Jiří Unger

A deep history within a small wetland: 13 000 years of human-environment relations on the East European Plain

Piotr Kittel, Andrey Mazurkevich, Emilie Gauthier, Eduard Kazakov, Yuriy Kublitskiy, Monika Rzodkiewicz, Agnieszka Mroczkowska, Daniel Okupny, Jacek Szmańda & Ekaterina Dolbunova

New discoveries at the Sanxingdui Bronze Age site in south-west China Yingfu Li, Tian Qiu, Jianbo Guo & Yuniu Li

The Mogou Multidisciplinary Investigation Project: insights into the kinship and social organisation of a Bronze Age population in north-west China Xiaoying Ren, Ruilin Mao, Guoke Chen, Edward Allen, Yao Yu, Michael Storozum, Jing Yuan & Shaoqing Wen

LiDAR survey of the fifth-century Tsukuriyama mounded tomb group in Japan Jun Mitsumoto, Joseph Ryan, Yuji Yamaguchi & Akira Seike