

www.antiquity.ac.uk Volume 94 • Number 374 • April 2020

A REVIEW OF WORLD ARCHAEOLOGY

EDITED BY ROBERT WITCHER



EDITOR Robert Witcher

REVIEWS EDITOR
Claire Nesbitt
ASSOCIATE EDITOR
Rebecca Gowland
EDITORIAL ASSISTANT

Ross Kendall

Editorial Manager Liz Ryan

DEPUTY EDITORIAL MANAGER
Thomas Swindells

PUBLIC ENGAGEMENT AND PRESS ADMINISTRATOR
Adam Benton

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, 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 Xingcan Chen, Chinese Academy of Social Sciences, Beijing Eduardo Goés Neves, Universidade de São Paulo, Brazil Elizabeth Graham, University College London, UK Charles Higham, University of Otago, New Zealand Corinne Hofman, Leiden University, the Netherlands Stephen Houston, Brown University, USA Timothy Insoll, University of Exeter, UK Susan Keech McIntosh, Rice University, USA Ian Kuijt, University of Notre Dame, USA Kevin Lane, Universidad de Buenos Aires, Argentina Akira Matsuda, University of Tokyo, Japan Barbara Mills, University of Arizona, USA

Timothy Pauketat, University of Illinois, USA
Victor Paz, University of The Philippines, The Philippines
Michael Petraglia, Max Planck Institute for the Science of
Human History, Jena, Germany
Innocent Pikirayi, University of Pretoria, South Africa
Susan Pollock, Freie Universität Berlin, Germany
Natalia Shishlina, State Historical Museum, Moscow, Russia
Benjamin Smith, University of Western Australia, Australia
Claire Smith, Flinders University, Australia
Monica Smith, University of California, Los Angeles, USA
Miriam Stark, University of Hawai'i-Manoa, USA

Peter Mitchell, University of Oxford, UK

Sarah Tarlow, University of Leicester, UK

Antiquity is published six times a year by Cambridge University Press for Antiquity Publications Ltd: February, April, June, August, October, December.

Advertising enquiries to the publisher at advertising@cambridge.org

©Antiquity Publications 2020. 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

Cover. Mad Dog Tower in Sand Canyon, a Pueblo III period (thirteenth century AD) site located in the central Mesa Verde region in south-western Colorado (USA) during the initial documentation and preparation for laser scanning and photogrammetry research by a Polish team. The maximum height of the tower is now 3.2m above the modern ground surface (and was probably 4.5m). It may have been a part of a communication/signalling system within a larger community of allied sites (the so-called Castle Rock Community) (photograph by R. Słaboński). Full details can be found later in this issue in the article by Radosław Palonka et al.

ANTIQUITY

Number 374

April 2020

455

Editorial		
Research Articles		
Palaeolithic occupation and cultural transition in the Wainganga River Basin, India Prachi Joshi	300	
The chronology and function of a new circular mammoth-bone structure at Kostenki 11 Alexander J.E. Pryor, David G. Beresford-Jones, Alexander E. Dudin, Ekaterina M. Ikonnikova, John F. Hoffecker & Clive Gamble	323	
Settlement change on the western Konya Plain: refining Neolithic and Chalcolithic chronologies at Canhasan, Turkey Andrew Fairbairn, Piotr Jacobsson, Douglas Baird, Geraldine Jacobsen & Elizabeth Stroud	342	
Chariots in the Eurasian Steppe: a Bayesian approach to the emergence of horse-drawn transport in the early second millennium BC Stephan Lindner	361	
The origins of decorated ostrich eggs in the ancient Mediterranean and Middle East Tamar Hodos, Caroline R. Cartwright, Janet Montgomery, Geoff Nowell, Kayla Crowder, Alexandra C. Fletcher & Yvonne Gönster	381	
The metal behind the myths: iron metallurgy in the south-eastern Black Sea region Nathaniel L. Erb-Satullo, Brian J.J. Gilmour & Nana Khakhutaishvili	401	
Optically stimulated luminescence profiling and dating of earthworks: the creation and development of prehistoric field boundaries at Bosigran, Cornwall Soetkin Vervust, Tim Kinnaird, Peter Herring & Sam Turner	420	
Crossing the ice: an Iron Age to medieval mountain pass at Lendbreen, Norway	437	

From pack animals to polo: donkeys from the ninth-century Tang tomb of an

Songmei Hu, Yaowu Hu, Junkai Yang, Miaomiao Yang, Pianpian Wei, Yemao

elite lady in Xi'an, China

Hou & Fiona B. Marshall

Lars Pilø, Espen Finstad & James H. Barrett

Volume 94

	Alpine ice and the annual political economy of the Angevin Empire, from the death of Thomas Becket to Magna Carta, c. AD 1170–1216 Christopher P. Loveluck, Alexander F. More, Nicole E. Spaulding, Heather Clifford, Michael J. Handley, Laura Hartman, Elena V. Korotkikh, Andrei V. Kurbatov, Paul A. Mayewski, Sharon B. Sneed & Michael McCormick	473
	Ancestral Pueblo settlement structure and sacred landscape at Castle Rock Community, Colorado Radosław Palonka, Kathleen O'Meara, Katarzyna Ciomek & Zi Xu	491
	Tormented Alderney: archaeological investigations of the Nazi labour and concentration camp of Sylt Caroline Sturdy Colls, Janos Kerti & Kevin Colls	512
Re	eviews	
	Review Articles	
	Diversity of forager lifeways in the prehistoric past JACOB L. FISHER	533
	Foraging in the past: archaeological studies of hunter-gatherer diversity Ashley K. Lemke	
	The archaeology of large-scale manipulation of prey: the economic and social dynamics of mass hunting Kristen Carlson & Leland C. Bement	
	The archaeology of climate change in Late and Post-Glacial North-west Europe James Walker	536
	Sea-level change in Mesolithic southern Scandinavia: long- and short-term effects on society and the environment Peter Moe Astrup	
	Resilience and reorganisation of social systems during the Weichselian Lateglacial in North-west Europe: an evaluation of the archaeological, climatic, and environmental record Sonja B. Grimm	
	Book Reviews	
	B.A. Olsen, T. Olander & K. Kristiansen <i>Tracing the Indo-Europeans: new evidence from archaeology and historical linguistics</i> Martin Furholt	539
	Penny Bickle & Emilie Sibbesson Neolithic bodies Chris Fowler	541

	Brad H. Koldehoff & Timothy R. Pauketat Archaeology and ancient religion in the American Midcontinent LARS FOGELIN	543
	Rex E. Gerald & Patrick D. Lyons <i>The Davis Ranch site: a Kayenta immigrant enclave in southeastern Arizona</i> J. Brett Hill	545
	Victoria L. McAlister <i>The Irish tower house: society, economy and environment,</i> c. 1300–1650 COLM J. DONNELLY	547
	Katherine Fennelly An archaeology of lunacy: managing madness in early nineteenth-century asylums Susan Piddock	549
	Gordon J. Barclay & Ron Morris The fortification of the Firth of Forth 1880–1977: 'The most powerful naval fortress in the British Empire' CALUM ROBERTSON	551
	Robert N. Spengler III Fruit from the sands: the Silk Road origins of the foods we eat Marijke van der Veen	553
	Francis Allard, Yan Sun & Katheryn M. Linduff Memory and agency in ancient China: shaping the life history of objects KEITH N. KNAPP	555
	Simon Mackenzie, Neil Brodie, Donna Yates & Christos Tsirogiannis Trafficking culture: new directions in researching the global market in illicit antiquities ROBERT J. VIGAR	557
Ne	w Book Chronicle	560

CLAIRE NESBITT

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

A rare depiction of a butchering scene in the rock paintings of Maser in Madhya Pradesh, India

Shaik Saleem & Parth R. Chauhan

A newly discovered cache of large biface lithics from northern Honshu, Japan Yoshitaka Kanomata & Andrey Tabarev

A new look at the Minoan 'blue' monkeys Bernardo Urbani & Dionisios Youlatos Agropastoralists? Late Iron Age and historic forest livelihoods in the Cherangani Hills of north-west Kenya

Samuel Paul Lunn-Rockliffe & David K. Kay

Iron Age botanical remains from nuraghe S'Urachi, Sardinia Guillem Pérez-Jordà, Julia Hurley, Damià Ramis & Peter van Dommelen

The seal matrix of Sir John Campbell and the struggle for Dunyvaig Castle on the Isle of Islay

Steven Mithen, Darko Maričević & Roddy Regan