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Antiquity, Dept. of Archaeology,

Durham University, South Road, Durham DH1 3LE, UK

Tel: +44 (0) 191 3341125; Fax: +44 (0) 191 3341101; Email: editor@antiquity.ac.uk

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Front cover. Rock art panels in Sandstone Canyon in the Mesa Verde region depicting hunting scenes, clan symbols and modern graffiti (featured in this month's Project Gallery; photograph courtesy of Robert Słaboński).



# ANTIQUITY

Volume 90

Number 349

February 2016

<b>Editorial</b>	1
<b>Research</b>	
Migrations and interactions in prehistoric Beringia: the evolution of Yakutian lithic technology Yan Axel Gómez Coutouly	9
First Palaeolithic rock art in Germany: engravings on Hunsrück slate Wolfgang Welker	32
Trade me an axe? Interpretive challenges of the distribution and provenance of Neolithic basaltic bifacial tools in Israel Danny Rosenberg & Tatjana Gluhak	48
Scalar differences: temporal rhythms and spatial patterns at Monjukli Depe, southern Turkmenistan Reinhard Bernbeck & Susan Pollock	64
Diet, dispersal and social differentiation during the Copper Age in eastern Hungary Julia I. Giblin & Richard W. Yerkes	81
Cultivation of choice: new insights into farming practices at Neolithic lakeshore sites Amy Styring, Ursula Maier, Elisabeth Stephan, Helmut Schlichtherle & Amy Bogaard	95
Buried with turtles: the symbolic role of the Euphrates soft-shelled turtle ( <i>Rafetus euphraticus</i> ) in Mesopotamia Rémi Berthon, Yilmaz S. Erdal, Marjan Mashkour & Gülriz Kozbe	111
Communal eating and drinking in early Roman Mediterranean France: a possible tavern at <i>Lattara</i> , c. 125–75 BC Benjamin P. Luley & Gaël Piquès	126
The Kayuko Mound Group: a festival site in southern Belize Holley Moyes, Mark Robinson & Keith M. Prufer	143
Anaemia (thalassaemia) in the Middle Euphrates Valley of Syria in the second–fourth centuries AD? Jacek Tomczyk, Piotr Palczewski, Hanna Mańkowska-Pliszka, Tomasz Płoszaj, Krystyna Jędrychowska-Dańska & Henryk W. Witas	157
Weapons of war? Rapa Nui <i>mata'a</i> morphometric analyses Carl P. Lipo, Terry L. Hunt, Rene Horneman & Vincent Bonhomme	172
Satellite evidence of archaeological site looting in Egypt: 2002–2013 Sarah Parcak, David Gathings, Chase Childs, Greg Mumford & Eric Cline	188

## Method

- A fragmented past: (re)constructing antiquity through 3D artefact modelling and customised structured light scanning at Athienou-Malloura, Cyprus** 206  
Derek B. Counts, Erin Walcek Averett & Kevin Garstki

## Debate

- Bridging theory and bow hunting: human cognitive evolution and archaeology** 219  
Frederick L. Coolidge, Miriam Noël Haidle, Marlize Lombard & Thomas Wynn
- Conflict antiquities and conflicted antiquities: addressing commercial sales of legally excavated artefacts** 229  
Alice Stevenson
- ‘Celts: art and identity’ exhibition: ‘New Celticism’ at the British Museum** 237  
Manuel Fernández-Götz

## Reviews

### Review articles

- Identifying Celts** VINCENT MEGAW 245

*Celtic art* Venceslas Kruta

*Celts: art and identity* Julia Farley & Fraser Hunter (ed.)

*Celts: art and identity* Ian Leins

- Mortuary practices and living-dead interactions: recent research in the ancient Andes** DAVID CHICOINE 249

*Living with the dead in the Andes* Izumi Shimada & James L. Fitzsimmons (ed.)

*Funerary practices and models in the ancient Andes: the return of the living dead* Peter Eeckhout & Lawrence S. Owens (ed.)

### Book reviews

- Mark Golitko *LBK realpolitik: an archaeometric study of conflict and social structure in the Belgian Early Neolithic* 252  
PHILIPPE CROMBÉ

- Paul Yule *Cross-roads: Early and Late Iron Age south-eastern Arabia* 253  
PETER MAGEE

- Giorgos Rethemiotakis & Peter M. Warren (ed.) *Knossos: a Middle Minoan III building in Bougadhia Metochi* 254  
ILARIA CALOI

- Thanasis J. Papadopoulos & Litsa Kontorli-Papadopoulou *Vravron: the Mycenaean cemetery* 256  
NIKOLAS PAPADIMITRIOU

- Marian H. Feldman *Communities of style: portable luxury arts, identity, and collective memory in the Iron Age Levant* 258  
JOSEPHINE CRAWLEY QUINN

Natalia Vogeikoff-Brogan <i>Mochlos III: the Late Hellenistic settlement: the beam-press complex</i> SCOTT GALLIMORE	259
Alessandro Sebastiani, Elena Chirico, Matteo Colombini & Mario Cygielman <i>Diana Umbronensis a Scoglietto: santuario, territorio e cultura materiale (200 a.C.–550 d.C.)</i> INGRID EDLUND-BERRY	261
Penny Coombe, Francis Grew, Kevin Hayward & Martin Henig <i>Roman sculpture from London and the South-east</i> BEN CROXFORD	262
Gregor Kalas <i>The restoration of the Roman Forum in Late Antiquity: transforming public space</i> CARLOS MACHADO	264
Debby Banham & Rosamond Faith <i>Anglo-Saxon farms and farming</i> GABOR THOMAS	265
Fiona Beglane <i>Anglo-Norman parks in medieval Ireland</i> NAOMI SYKES	266
Izumi Shimada (ed.) <i>The Inka Empire: a multidisciplinary approach</i> STEVE KOSIBA	267
<b>New Book Chronicle</b> Robert Witcher	270

## Project Gallery on the website (<http://antiquity.ac.uk>, click on Antiquity+)

### The prehistory of the Land of Nineveh

Cecilia Conati Barbaro, Andrea Zerboni, Daniele Moscone, Mauro Cremaschi, Marco Iamoni, Alberto Savioli & Daniele Morandi Bonacossi

### Confirmation of the world's oldest woven garment: the Tarkhan Dress

Alice Stevenson & Michael W. Dee

### Bryn Celli Ddu passage-tomb revisited

S. Griffiths, B. Edwards, A. Wilson, Ffion Reynolds & Adam Stanford

### European Celtic art and its eastern connections

Chris Gosden, Peter Hommel & Courtney Nimura

### New evidence for the Achaemenid Royal Road in the Alvand Mountains (Hamedan, Iran)

Behzad Balmaki

### Architecture, rock art and the settlement structure in the Castle Rock Community, Mesa Verde region, Colorado

Radosław Palonka

**Molina de Aragón: archaeological investigations of environmental change in the frontiers of medieval Iberia**

Guillermo García-Contreras Ruiz, Rowena Y. Banerjee, Alexander D. Brown & Aleksander G. Pluskowski

**Finding Felix: understanding Gibraltar's Second World War defences**

Kevin Lane, Mark Ainsworth, Richard Durell, Victor Hermida, Jean Paul Latin & Ian Reyes

# The prehistory of the Land of Nineveh

Cecilia Conati Barbaro, Andrea Zerboni, Daniele Moscone, Mauro Cremaschi, Marco Iamoni, Alberto Savioli & Daniele Morandi Bonacossi

## Introduction

Since the middle of the last century, when Ralph Solecki excavated the Neanderthals at Shanidar and Robert Braidwood began his work at Jarmo, the ‘hilly flanks of the Zagros’ have been a mythical place for the study of prehistory (Braidwood & Howe 1960; Solecki 1971). Despite its crucial importance for early human history and its high archaeological potential, this extensive region—encompassing parts of Iraq, Iran and Turkey—has, until the recent establishment of several research projects, not been subject to systematic exploration. In September 2015, a joint team from the universities of Udine, Rome (‘La Sapienza’) and Milan initiated a field project focused on the prehistory of the provinces of Nineveh (Mosul) and Dohuk, in the northernmost part of Iraqi Kurdistan. The purpose of this study is to outline the main chrono-cultural aspects of the region’s prehistory, from the Lower Palaeolithic to the early Chalcolithic, and to relate them to environmental changes that have occurred since the Middle Pleistocene. This research is part of the broader ‘Land of Nineveh Archaeological Project’, led by Udine University, that has been running since 2012 with the aim of understanding the formation and evolution of the cultural and natural landscape of this region from the Palaeolithic to the Islamic period (Morandi Bonacossi & Iamoni 2015).

## The survey

The study area covers 2900km<sup>2</sup> and is delimited by the plain of Dohuk and the Zagros foothills to the north, the lake formed by the Eski Mosul Dam to the west, the piedmont plain that extends to the Jebel Maqlub and Bardarash regions to the south, and the River Al-Khazir to the east (Figure 1). The region being investigated here consists of different geographical units, including mountains, foothills, intermontane basins and valleys, and river terraces.

The first field season was devoted to a geoarchaeological survey of three sample areas: the intermontane valleys (Mkeris and Merseeda Valleys; the upper course of the River al-Khazir); the piedmont areas and river terraces (from the River Gomel to the Rubar Dashqalan); and finally, the plain and terraces above the former Tigris Valley along the left shore of the Eski Mosul Dam. A further goal of the survey was to locate sources of lithic raw materials.

The region’s geological bedrock mostly consists of limestone strata (Jassim & Goff 2006), which are prone to karstic processes, the most pertinent of which, for our purposes, is the occurrence of caves and rock shelters formed by rock dissolution. In the Land of Nineveh, caves and rock shelters are common, and in many cases they contain evidence of human occupation continuing until just a few decades ago.

We can distinguish three main categories of rock shelter that may be of potential interest regarding the search for prehistoric sites. Caves correspond to the initial portions of long and complex karstic cavities (Figure 2), with high vaults and large, flat floors. The latter are generally covered by thick layers of dung, the result of long-term pastoral use. Sparse lithics occur on the floor surfaces and near cave entrances. Caves are also important for palaeoclimate studies, as speleothems preserve information on local variation in rainfall. We have also found lithic scatters in rock shelters and beneath collapsed roofs related to former caves or rock shelters. For example, site 744 features a thick breccia deposit containing Middle Palaeolithic artefacts, charcoal and faunal remains that were protected from erosion by the collapsed blocks of the rock shelter’s vault (Figure 3).

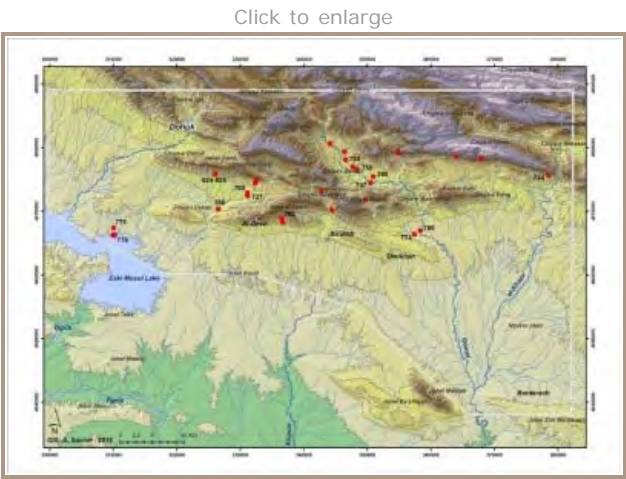


Figure 1. Map of the region under investigation, showing the position of the prehistoric sites identified during the field survey (numbers = sites quoted in the text).

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Figure 2. The cave containing site 533, Kaf Serdakni.

[Click to enlarge](#)



Figure 3. Site 744: the breccia layer with Middle Palaeolithic industry and faunal remains; A: general view of the deposit (white arrow) and the blocks of the collapsed roof (black arrows); B & C: details of the deposits.

During the first survey campaign, 7 caves, 11 rock shelters and a collapsed roof sealing an anthropic deposit were found. Fifteen open-air sites were also identified, featuring lithic material from the Lower Palaeolithic to the Late Neolithic–Chalcolithic. These lithic scatters were found mainly on fluvial terraces and in correspondence with chert outcrops in the mountains (Figure 4).

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Figure 4. The fluvial terraces along the Gomel River.

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Figure 5. Site 782, the Skafta Zeri mine.

Surveys along the Zagros foothills (Chiya-e-Zihera) overlooking the plain between the River Gomel and the village of Al Qosh revealed rich outcrops of chert and three chert mines of the ‘room-and-pillar’ type (Figure 4) with highly complex underground plans (site 782, Skafta Zeri Cave and sites 824 and 825), possibly dating from the Neolithic onwards (Figure 5).

### Chronology and finds

Two pebble cores collected on a fluvial terrace in a tributary wadi of the River Gomel (site 774) constitute the first Lower Palaeolithic evidence in the region (Figure 6A). Middle Palaeolithic (Levallois) cores, débitage and tools were identified in the valleys of Merseeda at site 744 and Atrush at site 758 (fluvial terrace), and, in the piedmont area, on fluvial terraces at sites 774, 727, 785 and 786. Late Palaeolithic materials (blade/bladelet cores and débitage products) were collected from fluvial terraces at sites 260, 747 and 755 (intermontane valleys), in the piedmont area at sites 765 and 727, and on the plain at site 775. A large number of lithic artefacts of Late Neolithic–Chalcolithic date were found at the open-air site of Gali Dakhas (776), on the north-east shore of the Eski Mosul Dam.

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### Conclusions

The sites identified in the area explored so far show the richness and variety of solutions adopted by human groups in prehistoric times, such as the early use of the mountains and intermontane valleys for seasonal subsistence activities and raw material exploitation, and the shift to more



open areas, adjacent to the plains and near perennial water sources, during later phases. Furthermore, the identification of Lower Palaeolithic tools offers the opportunity to contribute to the discussion on hominin dispersal from Africa to Eurasia. A programme is planned for future field seasons, including surveys of zones not yet investigated, intensive surveys of limited areas and test trenches in caves and shelters in order to verify the extent of the deposits.

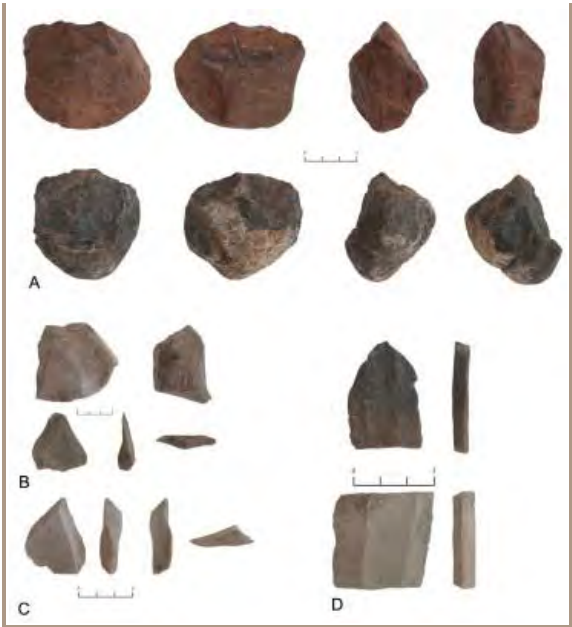


Figure 6. A: Site 774, Lower Palaeolithic, pebble cores; B: site 785, Middle Palaeolithic, preferential Levallois core, Levallois point; C: site 786, Middle Palaeolithic, centripetal flake; D: site 776, Chalcolithic, burin, blade fragment.

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### References

- BRAIDWOOD R.J. & B. HOWE. 1960. *Prehistoric investigations in Iraqi Kurdistan*. Chicago (IL): University of Chicago Press.
- JASSIM, S.J. & J.C. GOFF. 2006. *Geology of Iraq*: Praha: Dolin.
- MORANDI BONACOSSO, D. & M. IAMONI. 2015. Landscape and settlement in the eastern upper Iraqi Tigris and Navkur Plains (northern Kurdistan region, Iraq). The Land of Nineveh Archaeological Project, seasons 2012–2013. *Iraq* 77: 9–40.
- SOLECKI, R. 1971. *Shanidar: the first flower people*. New York: Alfred A. Knopf.

### Authors

\* Author for correspondence.

- **Cecilia Conati Barbaro\***  
Sapienza Università di Roma, Dipartimento di Scienze dell'Antichità, Piazzale Aldo Moro 5, 00185 Rome, Italy (Email: [cecilia.conati@uniroma1.it](mailto:cecilia.conati@uniroma1.it))
- **Andrea Zerboni**  
Università degli Studi di Milano, Dipartimento di Scienze della Terra 'Ardito Desio', Via Luigi Mangiagalli 34, 20133 Milan, Italy
- **Daniele Moscone**  
Sapienza Università di Roma, Dipartimento di Scienze dell'Antichità, Piazzale Aldo Moro 5, 00185 Rome, Italy
- **Mauro Cremaschi**  
Università degli Studi di Milano, Dipartimento di Scienze della Terra 'Ardito Desio', Via Luigi Mangiagalli 34, 20133 Milan, Italy
- **Marco Iamoni**  
Università degli Studi di Udine, Dipartimento di Storia e Tutela dei Beni Culturali, Vicolo Florio 2/B, 33100 Udine, Italy
- **Alberto Savioli**  
Università degli Studi di Udine, Dipartimento di Storia e Tutela dei Beni Culturali, Vicolo Florio 2/B, 33100 Udine, Italy
- **Daniele Morandi Bonacossi**  
Università degli Studi di Udine, Dipartimento di Storia e Tutela dei Beni Culturali, Vicolo Florio 2/B, 33100 Udine, Italy

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Antiquity, Department of Archaeology  
Durham University, South Road, Durham DH1 3LE, UK

[assistant@antiquity.ac.uk](mailto:assistant@antiquity.ac.uk) | [editor@antiquity.ac.uk](mailto:editor@antiquity.ac.uk)  
Tel: +44 (0)191 3341125 | Fax: +44 (0)191 3341101