From 2013 to 2017 the project «Ichthyophagoi their culture and economy. Landscape and people during the Iron Age in coastal Oman» went on with archaeological excavations and field surveys related to the study of the coastal area between Bimah and Tiwi under the patronage of the Ministry of Heritage and Culture (Sultanate of Oman), the Italian Ministry of Foreign Affairs and International Cooperation and the University of Naples «L’Orientale». The activities focused on the Early Iron Age coastal settlement of Bimah (named BMH2 after the 1985-88 campaigns of the Italian Archaeological Expedition led by Maurizio Tosi), by the definition of the socio-economic strategies of coastal people that later on were labelled as Ichthyophagoi in the Greek-Roman classical sources. Despite the negative perspective concerning the barbarians fish eater that emerged from the written sources, Bimah and its natural environment are going to take the shape of a complex portrait. From an inner perspective, the ancient village subsistence economy takes form by a deep coastal landscape exploitation involving different strategies as well as from an outer perspective, so that Bimah appears to be mostly connected with the Early Iron Age II (900-600 BC) cultures of northern Oman, linked to them by the fine painted ware trade.
If one sees at the prehistoric evidence, such as the so-called «Bronze Age Tower», it is clear that the area should have been an attractive point probably due to the natural springs that gave life to Wadi Bimah, nowadays dry.

No clear levels of abandonment were identified between the lower levels in which Bronze Age lithic came to light and the first Early Iron Age II levels in which diagnostic stone vessels and pottery assemblages were collected. Moreover, it seems that there is not an Early Iron Age I phase, a phenomenon already attested elsewhere, such as in Kalba and northeastern Oman.

Thus, the construction of the Early Iron Age II village should have followed a natural process: the local community was attracted by an area already exploited during the Bronze Age where fresh water was available. The related tower could have been a focal element for the new community. Thus, the first evidence of an Early Iron Age II phase is that of a seasonal occupation followed by the construction of the huts and, perhaps, the shift to a permanent occupation based not only on fishing but also on agriculture and breeding. By all means, the main resource is the sea: the impressive amount of sea products, above all the shell beads, must have been a major issue in the village, some sort of currency of exchange in the commercial trade.

BMH2 emerged in a period during which a settlement intensification took place along the Gulf regions in southeastern Arabia Early Iron Age II period, in particular from the Musandam peninsula to the Hajar mountain piedmont and alluvial plains.

This impressive spread of settlements was mainly allowed by the new irrigation system of the falaj, the main responsible for intensive cultivations. In fact, palaeoclimatic proxies suggest that at the beginning of the 1st millennium BC a radical decrease in rainfall occurred.
FIGURE 46.3. A cultic element from the hut H1: a clay snake inside a Lambis truncata.

FIGURE 46.4. Some fine painted ware small carinated cups.
The underwater channels were the natural solution to the problem, even though in this model BMH2 stands as a particular case. Although in Wadi Bimah agricultural areas and terraces have been identified, no falaj irrigation structures were detected up to now. The only water resources must have been the Wadi Bimah spring or, when this latter expired, the wells that still today are used inside the wadi or, eventually, the seasonal water coming from the mountain through Wadi Bimah and the secondary wadi flows.

Although the village does not have huge proportion (150 x 100 m) and no more than 20 structures, it appears that there was some kind of differentiation in the spatial arrangement of the huts reflecting a variegated and stratified social scenario.

At least two main architectural and functional distinct areas were recognized. The southern huts, displayed along the lower part of the village, were strictly devoted to an industrial purpose: basins to dry fish, shell beads production, and food processing (cooking and grinding) are the most common activities performed. The faunal remains from the huts also prove that the practice of breeding was part of the complex economy of the village, which could have been a further resource during the year. The northern huts, on the contrary, revealed some interesting features related to a more sophisticated and quite less barbarian sphere. The huts were composed by more differentiated rooms, in which one can recognize fireplaces for communal banquets and store room, in both cases the carinated fine painted ware was the typical pottery artifact put in light.

Moreover, cultic elements were part of the daily life: Lambis truncata shell, above all, used in the construction of the walls of the huts, painted shells and pottery snakes most probably all of them devoted to the celebration of sea and land fertility.

One can imagine what was the rude atmosphere in this village made of simple structures more similar to a shelter than to a house during the fishing season: massive dry fish process (sure the smell was bad), frantic activities of fishing, catching clams, beads assembly line, food processing, etc. No matter what, they were not isolated in their own barbarian world, either they were seasonal fishers or permanent settlers trade linked them to the inner oases in a broader landscape ■
Serge Cleuziou & Maurizio Tosi

IN THE SHADOW OF THE ANCESTORS

THE PREHISTORIC FOUNDATIONS OF THE EARLY ARABIAN CIVILIZATION IN OMAN

second expanded edition

Edited by
Dennys Frenez & Roman Garba
Note: The maps in this book are historical and cannot be modified as they are specifically drawn for that period only and they do not reflect political, geographical and administrative boundaries. The Geographical Place Names (GPN) in these maps are not written by the Arabic Standardized Romanization System applied in the National Survey Authority of Oman (NSA).
# Table of Contents

## Foreword
*Cornerstones of Archaeological Research in Oman*, by H.H. Haitham bin Tariq Al-Said ix

## Editorial Note
*A Posthumous Expanded Edition*, by D. Frenez & R. Garba xi

## Acknowledgements
xv

## In Memoriam of Serge Cleuziou, 1945-2009
*An Arabian Explorer in a Cartesian Mind*, by M. Tosi † xix

## In Memoriam of Maurizio Tosi, 1944-2017
*A Scientist of Curiosity*, by D. Frenez xxv

### Chapter 1 • A Land of Many Landscapes for Greater Opportunities

1

### Chapter 2 • The Search for the Earliest Humans in Oman

17

*Window 1*

*On the Trail of the First Humans in Oman*, by J. Rose 32

### Chapter 3 • From Early Hunters to the Last Foragers

37

*Window 2*

*Early Herders at A-Buhais 18*, by M. Uerpmann & H.-P. Uerpmann 64

*Window 3*

*Earliest Cultures along the Coastlands of Oman*, by V. Charpentier 66

*Window 4*

*Sea Mammals and Humans in the Oman Peninsula*, by V. Charpentier & S. Méry 69

### Chapter 4 • The Great Transformation

71

*Window 5*

*The Middle Holocene Fishermen Settlement of KHB-1*, by F. Cavulli & S. Scaruffi 109

*Window 6*

*The Prehistoric Graveyard at Ras Al-Hamra RH-5*, by S. Salvatori 117

*Window 7*


*Window 8*

*Shell-Midden Economy in the Fourth millennium BC*, by M. Uerpmann & H.-P. Uerpmann 126

*Window 9*

*Marine Turtles from Ras Al-Hamra RH-5*, by M. Delfino & J. Frazier 128

*Window 10*

*Neolithic and Early Bronze Age Occupations at HD-5*, by F. Borgi & E. Maini 130
Window 11
Bead Production in the Late Neolithic Communities of Coastal Oman, by M. Buta, D. Frenez, E. Bortolini, V. Charpentier & J.M. Kenoyer

Window 12
Jabal Al-Aluya. An Inland Neolithic Settlement, by M. Lemée & G. Gernez

Window 13
The Hafit Settlement HD-6 at Ras Al-Hadd, by V.M. Azzarà & M. Cattani

Window 14
The Early Metallurgy of the Oman Peninsula, by C. Giardino

Window 15
Analysis of Stone and Metal Artifacts from HD-6, HD-10 and HD-1, by R.W. Law

Window 16
The Earliest Camel Remains of Oman from Ras Al-Hadd HD-6, by A. Curci & M. Carletti

Chapter 5 • A Great Society Emerges under the Eyes of the Ancestors

Window 17
Tomb 1 at Ras Al-Jinz RJ-1 and Associated Bone Pits, by H. Guy & O. Munoz

Window 18
Zukayt and the Burial Fields of Wadi Halfayin, by E. Bortolini

Chapter 6 • Taming the Desert with Oases and Herds

Window 19
Animal Economy in an Early Oasis Settlement, by M. Uerpmann & H.-P. Uerpmann

Window 20
Earliest Potteries in the Oman Peninsula, by S. Méry

Window 21
An Early Third Millennium BC Madbassa?, by S. Cleuziou *

Window 22
The Early Oasis Settlements of the Hajar Region, by J. Orchard & J. Orchard *

Chapter 7 • Trade and the Beginnings of Seafaring in the Indian Ocean

Window 23
Copper from Magan for the Mesopotamian Cities, by G. Weisgerber *

Window 24
From Green to Red. Smelting Red Copper from the Green Ore, by G. Weisgerber *

Window 25
Indus Pottery in the Oman Peninsula, by S. Méry

Window 26
Reconstructing an Early Bronze Age Boat, by T. Vosmer

Window 27
Early Bronze Age Navigation and Trade Routes, by T. Vosmer

Window 28
Bitumen from Ras Al-Jinz RJ-2, by E. Badel

Window 29
The Manufacture of Conus sp. Shell Rings at the Site of HD-60, by L.G. Marcucci

Chapter 8 • The Early Arabian Civilization at its Zenith
Window 30
Al-Ayn. A Small Settlement and Palm Tree Garden in Eastern Oman, by O. Blin

Window 31
Copper Production as Seen from Al-Moyassar 1, by G. Weisgerber †

Window 32
Bat. A Leading Centre of Early Civilization in Oman, by C.M. Cable & C.P. Thornton

Window 33
The Umm an-Nar Burial Pits of the Necropolis of Bat, by S. Döpper & C. Schmidt

Window 34
The Umm an-Nar Settlement of Al-Zebah, by S. Döpper & C. Schmidt

Window 35
The Indus Civilization Trade with the Oman Peninsula, by D. Frenez

Window 36
Carnelian and Agate Beads in the Oman Peninsula during the Third to Second millennia BC, by J.M. Kenoyer & D. Frenez

Chapter 9 • The Wadi Suq Period. Collapse and Transformation

Window 37
Copper in the Wadi Suq Period (Second millennium BC), by G. Weisgerber †

Window 38
Adam North Graveyard in Central Oman, by G. Gernez & J. Giraud

Chapter 10 • The Iron Age. New Developments on the Eve of History

Window 39
Long Collective Graves LCG-1 and LCG-2 at Daba, Musandam (Oman), by F. Genchi

Window 40
Mudhmar East. An Iron Age Ritual Site at the Desert Margin, by G. Gernez & M. Jean

Window 41
Iron Age Buildings with a Pillared Room in the Oman Peninsula, by A. Benoist

Window 42
Iron Age Mining and Smelting in the Lizq Period, by G. Weisgerber †

Window 43
The Early Iron Age in the Sultanate of Oman, by P.A. Yule

Window 44
ʿUqdat Al-Bakrah. An Early Iron Age Metal-Working Atelier just inside the Empty Quarter in Oman, by F. Genchi, C. Giardino & P.A. Yule

Window 45
The Fish-Eaters – Ichthyophagoi, by O. Nalesini

Window 46
Ichthyophagoi their Culture and Economy during the Iron Age in Coastal Oman, by R. Loreto

Window 47
Rock Art of Al-Hajar Mountains. A Review and Update, by A.E. Fossati

Window 48
Triliths. Hinterland Monuments of Ancient Nomads, by R. Garba

Chapter 11 • Dhofar. The Land of Frankincense

Bibliography • Journals / Books / Papers