PAST WORLDS THE TIMES ATLAS OF ARCHAEOLOGY





First published in 1988 by TIMES BOOKS LIMITED Copyright © 1988 **Times Books Limited**

Maps, illustrations, typesetting Swanston Graphics, Derby Malcolm Swanston Andrea Fairbrass Mel Pickering Andrew Bright Jeanne Radford

Duncan Mackay Tony Hoyle **Rex Nicholls** Cheryl Wilbraham

Colour processing Ensign Graphics, Hull

Design Ivan Dodd

Editorial direction Elizabeth Wyse Barry Winkleman

Rosemary Aspinwall Ailsa Heritage Andrew Heritage Candida Hunt Olivia Landry Paul Middleton

Place names consultant, index PJM Geelan

Picture research Caroline Lucas

Glossary Liv Gibbs and Andy Brown

Printed in Italy by Arnoldo Mondadori, Verona

All rights reserved No part of this publication may be produced in any form, or by any means, without permission in writing from the Publisher

,

British Library Cataloguing in Publication data Past worlds: the Times atlas of archaeology 1. Archaeology I. Scarre, Christopher

930.1

ISBN 0-7230-0306-8

951 925 fol. TS

÷

•

CATE

9,1,90

CONTENTS

| Contributors Chronology | pages 9-10 | Early hominids in Europe 6 700,000 – 120,000 BP | 62 Fro Sou |
|--|----------------|---|---------------------|
| Chronology | pages 11–21 | The early hominids of Europe | The |
| | | Bilzingsleben: a lakeside site | Bui C |
| ONE | page 22 | The first European tools | The |
| ARCHAEOLOGY: | | | 64 Hunt |
| UNDERSTANDING | | 120,000 – 35,000 BP Neanderthal Eurasia | Fro Chi |
| | | Neanderthal Eurasia | The |
| THE PAST | | The lost Eurasians | Ban |
| METHOD Dating the past | 24 | The first modern humans | 6 Earl |
| METHOD | | The origins of modern humans | 10,0 |
| Survival from the past | 26 | Klasies River Mouth | The |
| METHOD | ••• | Middle Stone Age Africa | The |
| Excavation | 28 | | 58 Tool |
| INTERPRETATION | | 50,000 - 10,000 BP | Abo |
| Settlement | 30 | The colonisation of Australia Koonalda Cave: an ancient flint mine | 400 Aust |
| INTERPRETATION | | From China to Australia | Roo |
| Settlement patterns | 32 | | 70 Art |
| INTERPRETATION | | 25,000 – 10,000 BP | Me |
| Burials | 34 | The colonisation of the New World | civ |
| INTERPRETATION | | Monte Verde: a hunter-gatherers' village | Mes |
| Underwater sites | 36 | Hunters of the Americas | An ' |
| ANALYSIS Food | 38 | 35,000 - 12,000 BP | 72 Tell Craf |
| ANALYSIS | | Upper Palaeolithic Europe | Cei |
| Textile s | 40 | Upper Palaeolithic dwellings | Fron |
| ANALYSIS | | Hunters of the Upper Palaeolithic | Old |
| Disea se | 42 | | 74 Potto The |
| ANALYSIS | | 30,000 – 12,000 BP The art of Upper Palaeolithic Europe | |
| Warfare | 44 | The painted cave at Altamira | |
| ANALYSIS | | Art and symbol | FO |
| Valuable s | 46 | | TÞ |
| ANALYSIS | | TUDEE | |
| Ritual | 48 | THREE page 7 | 400 |
| | , | THE AGRICULTURAL | Agi |
| ТWO | page 50 | REVOLUTION | 400 |
| HUMAN ORIGINS | pageov | 10,000 – 4000 BC | Agri |
| | | - | 78 Aspe |
| 16 million — 10,000 BC | | The domestication of plants | Aege |
| Humanity's ancestors | 52 | The domestication of animals | Eu |
| 16—5 million BP | | The effects of domestication | 450 |
| Background to human evolution Human characteristics | | First farmers of the Near East 8 | 30 The |
| Hominoid ancestors | | 10,000 – 6000 BC | The |
| Changing coastlines | | The Fertile Crescent | Craf |
| The first hominids in Africa | a 54 | Jericho: an early farming community | Sta |
| 5–2 million years BP | _ 04 | The arts of the farmer | Ritu 27 Ston |
| Hominid evolution | | 3 | 32 Ston Ston |
| Olduvai Gorge | | 7000 - 5500 BC | Co |
| Hominid remains | | Anatolia: the rise of agriculture Çatal Hüyük | The |
| The first hunter-gatherers | 56 | Under the volcano | Tisza |
| 2·5 million — 120,000 BP | | | 34 In co |
| Africa: the first tool-makers | | 10,000 – 6000 BC | The |
| An elephant kill site Farly stone tools | | Postglacial Europe | civi |

58

60

| 5 2 | From hunting to farming: South-East Asia 10,000 - 4000 BC | 90 |
|------------|--|-------|
| | The postglacial settlement of South-East Asia | |
| | Bui Ceri Uato: a Timorese rock shelter | |
| | The domesticated plants of South-East Asia | |
| 64 | Hunter-gatherers of the East Indies | |
| | From hunting to farming: | 92 |
| | China and Japan 10,000 – 2500 BC The advent of farming | |
| | Banpo: a Chinese farming village | |
| 66 | Early crafts of East Asia | |
| | Africa: hunters and herders | 94 |
| | 10,000 – 4000 BC | |
| | The Sahara after the ice | |
| | The rock art of the Sahara | |
| 58 | Tools of hunting and gathering | |
| | Aboriginal Australia | 96 |
| | 4000 BC - AD 1750 | |
| | Australia: the Aboriginal imprint | |
| | Roonka Flat: an Australian burial site Art and artefacts | |
| 70 | _ | 00 |
| | Mesopotamia: towards civilisation 6000 – 4000 BC | 98 |
| | Mesopotamia: the settlement of the plains | |
| | An 'Ubaid house | |
| 72 | Tell es-Sawwan: a Samarran village | |
| | Crafts in clay | |
| | Ceramics: the mastery of clay | 100 |
| | From 10,500 BC | |
| | Old World pottery | |
| 74 | Pottery: shaping and firing | |
| | The development of pottery | |
| | | |
| | FOUR page | e 102 |
| _ | THE FIRST CITIES | |
| | AND STATES | |
| 76 | | |
| | 4000 – 1000 BC | |
| | Agricultural intensification | 104 |
| | 4000 – 0 BC | |
| | Agriculture: the potential of animals | |
| 78 | Aspects of irrigation | |

| Aspects of frigation Aegean Anatolia: the impact of soil erosion | |
|---|-----|
| Europe: the megalith age 4500 – 2500 BC The agricultural settlement of western Europe The West Kennet long barrow Crafts and rituals | 106 |
| Standing stones 3200 – 1500 BC Ritual centres of north-west Europe Stonehenge Stone circles and alignments | 108 |
| Copper Age Europe 4500 – 2000 BC The metallurgical revolution | 110 |

- zapolgár: a Copper Age cemetery opper, gold and clay e dawn of Mediterranean
- 112

Early stone tools

The impact of climate 16 million - 10,000 BP

Ice Age Europe: changing environments **Climatic change: documentation** London: the animal population

Early hominids in East Asia

1 million - 120,000 BP The first Asian hominids Zhoukoudian: a cave dwelling Early Asians

Postglacial Europe Star Carr: a hunter-gatherer camp Lepenski Vir: a village on the Danube **Early farming in Europe** 6500 - 4000 BC **Europe: agricultural inroads** Langweiler 2: an early farming village The crafts of the European farmers **Early farming in South Asia** 10,000 – 4000 BC The spread of farming in South Asia Mehrgarh: an early farming community First farmers in India

civilisation 4000-2000 BC **Expansion in the Mediterranean** Troy: a Bronze Age citadel Mediterranean craftsmanship 86 Bronze Age Europe 2000 - 1000 BC 114 Wider contacts: Europe in the Bronze Age The Wasserburg: an island village Armour and adornment 88 **Bronze Age Scandinavia** 116 2000 - 500 BC **Bronze Age culture** Borum Eshøj: a Bronze Age burial Art and ritual

| Early farming In Africa | 118 |
|---|------|
| 4000 - 1000 BC | |
| The dual origins of A frican agriculture Native African crops | |
| Farmers and foragers | |
| The mastery of metals | 120 |
| 5000 BC - AD 1000 | |
| The development of metallurgy | |
| Mining | |
| Smelting Tools and techniques | |
| The first civilisations | 122 |
| 3500 – 1000 BC | 122 |
| The geography of civilisation | |
| Luxury trade | |
| The roles of literacy | |
| Mesopotamia: the first cities | 124 |
| 3500 - 2500 BC | |
| Mesopotamia: the growth of urbanism | |
| Uruk: an early city Writing and worship | |
| Ur: a Sumerian city 3000 - 1500 BC | 126 |
| A Sumerian capital | 140 |
| The death pit of Queen Shub-ad | |
| The Sumerian legacy | |
| Egypt: the pyramid age | 128 |
| 3250 – 2000 BC | |
| The Old Kingdom | |
| The pyramids at Giza | |
| Royalty and ritual | 120 |
| Cities of the Indus 3000 – 2000 BC Indus agriculture | 130 |
| Mohenjo-Daro: an Indus city | |
| The Indus civilisation | |
| Palace-cities of the Near East | 132 |
| 2500 – 1500 BC | |
| Trading networks of the Near East | |
| Mari: a Mesopotamian palace | |
| Rulers and merchants | |
| Writing From 3250 BC | 134 |
| The development of scripts Near Eastern palace archives | |
| The palace archives at Ebla | |
| The evolution of Chinese script | |
| Egypt: the imperial age | 136 |
| 2000 - 1000 BC | |
| Political change in the New Kingdom | |
| Thebes Wealth of the dead | |
| | 120 |
| Ancient Egypt: life on the Nile 2000 – 1000 BC | 138 |
| Urban life | |
| Rural life | |
| The afterlife | |
| Minoan Crete 25 00 – 1400 BC | 140 |
| Bronze Age Crete | |
| Knossos: the palace economy | |
| Minoan art | 1 40 |
| The struggle for the Levant | 142 |
| Power politics in the Near East | |

| 8 | 4500 – 1000 BC Wheeled vehicles | 148 |
|-----------|--|-----|
| 0 | Metalworking Bronze Age South-East Asia 4000 – 1000 BC South-East Asia: Neolithic to Bronze Age Ban Na Di: a Thai burial From ceramics to metalworking | 150 |
| | A South-East Asian house | |
| 2 | FIVE page | 152 |
| | EMPIRES OF THE | |
| | OLD WORLD 1000 BC – AD 650 | |
| 4 | | 154 |
| | 1000 BC - AD 650 | |
| | Geography of early empires Imperial propaganda: Assyria | |
| :6 | Symbols of empire | 1 |
| | The Assyrian empire 950 – 600 BC Assyrian hegemony | 156 |
| | Royal cities | |
| 28 | Symbols of power The first Persian empire | 158 |
| | 550 – 330 BC | |
| | The Achaemenid empire Persepolis: a royal palace | , |
| 30 | Persian opulence | * |
| /U | Classical Greece 900 – 350 BC | 160 |
| | The Greek homeland Greek colonisation | |
| 32 | The Greek achievement | |
| - | Athens: a Greek city-state 750 BC – AD 250 | 162 |
| | The city-state: Attica | |
| | The building of Athens The Athenian achievement | |
| 34 | Hellenism in Asia 350 – 1 BC | 164 |
| | The Hellenistic world 350 – 100 BC Priene: a Hellenistic city | • |
| | The Hellenistic age | |
| 36 | Celtic Europe 800 BC – AD 50 | 166 |
| | Celtic settlement Danebury: a Celtic hillfort | |
| | Celtic art | 1 |
| 38 | The rise of Rome 1000 – 100 BC Rome and Carthage | 168 |
| 90 | The development of Republican Rome | |
| | The pre-Classical West The Roman empire AD 1 – 300 | 170 |
| | Rome: imperial control | _,, |
| 10 | Inchtuthill: a legionary fortress Civil and military power | |
| | Rome: an imperial city AD 1 - 300 | 172 |
| | Rome and the Tiber Valley The city of Rome | |
| 42 | Images of Rome | |
| | A Roman landscape 50 BC - AD 400 | 174 |

| | The Germanic world 500 BC – AD 650 The Anglo-Saxon invasions | 180 |
|---|--|------------|
| | Feddersen Wierde Rituals and burials The Steppe nomads 1000 BC – AD 650 The Steppe homelands | 182 |
| - | The Kostromskaya barrow A nomadic culture Red Sea states 500 BC – AD 500 The incense states Petra: a desert capital | 184 |
| | Red Sea remains Imperial Persia AD 1 – 650 Parthian and Sasanian Persia Ctesiphon: a Persian capital | 186 |
| , | Arts of ancient Persia Mauryan India 1000 BC – AD 650 Urbanism in South Asia The temples of Ajanta | 188 |
| 5 | From the Iron Age to Buddhism Trans-Asian trade 500 BC – AD 750 Treasure from the Silk Road | 190 |
| 3 | Chou China 1000 – 200 BC Western and Eastern Chou Tonglushan: a Chinese copper mine Chou craftsmanship | 192 |
| | Han China 200 BC – AD 220 Imperial China: the Han dynasty Mawangdui: a Han burial Han China: everyday life | 194 |
| 2 | Korea and Japan 1000 BC – AD 650 Japan and Korea: early states Mozu: an imperial cemetery Across the Sea of Japan | 196 |
| | South-East Asia 1000 BC – AD 850 South-East Asia: the mercantile expansion Peikthano: a Buddhist centre The eclectic cultures of South-East Asia | 198 |
| | The settlement of Polynesia 1500 BC – AD 1000 The Polynesian colonisation | 200 |
| 5 | The canoes of Polynesia Lapita culture Iron Age Africa 1000 BC – AD 650 Africa: the agricultural expansion | 202 |
| 3 | An African dwelling An African iron smel <mark>ting furnace</mark> Out of Africa | |
|) | SIX page THE NEW WORLD 10,000 BC – AD 1600 | 204 |
| 2 | North America after the ice 10,000 – 4000 BC The demise of the big-game hunters | 206 |
| 4 | Casper: a bison kill site Hunters of the plains | |

Boğazköy: a Hittite capital Images of empire

Mycenaean Greece 1550-1150 BC 144

Bronze Age Greece Mycenae: a Bronze Age citadel A warrior elite

Shang China 3000 - 1000 BC

The evolution of Shang China The Shang burial at Sufutun From the Shang dynasty

Trier: a provincial capital A Roman country house Agriculture and industry Pompeii: a Roman town 500 BC - AD 79 In the shadow of Vesuvius Frozen in time 146 The house of the Vetii Pompeii: aspects of everyday life 178 **Greek and Roman technology** 500 BC - AD 300 The impact of technology Civil engineering Machinery

First farmers of the Americas20810,000 – 4000 BCEarly American agricultureEarly American agricultureEarly food plantsGuilá Naquitz: a Mexican caveFirst villages of the Americas2104000 – 1000 BCThe foundations of American civilisationAspero: early Peruvian ritualThe Americas: early village crafts

.

7

| Early civilisations: the Andes 1000 BC – AD 650 Cultures of the Andes Tiahuanaco: an Andean city Gods and beliefs | 212 | SEVEN pag TOWARDS THE MODERN WORLD AD 650 – 1800 | ge 236 | Ming China AD 1350 – 1600 Recovery under the Ming Peking: an imperial city The Ming: worldwide trade Dingling: the emperor Wanli's tomb | 264 |
|--|--------------|--|---------------|--|------------|
| Early civilisations: Central America 1000 – 150 BC Central American civilisation San Lorenzo: an Olmec ceremonial centre Monte Albán: a Zapotec temple | 214 | The Byzantine empire AD 650 – 1450 Byzantium: Rome in the East Constantinople: a city between two worlds Byzantium: church, land and state | 238 | Courtly splendour Feudal Japan AD 650 – 1600 Japan under the Shoguns Yajima-yakata: a Samurai mansion Crafts of Japan | 266 |
| La Venta: a votive offering Olmec art Teotihuacán: an American metropolis 150 BC – AD 750 | 216 | The Islamic world AD 620 – 1100 Islam: conquest and commerce Samarra: an Abbasid capital Early Islamic crafts | 240 | Islands of Polynesia AD 650 – 1750 The colonisation of the Pacific Polynesian ritual: Huahine marae Easter Island: a Polynesian enigma | 268 |
| The Teotihuacán empire The city of Teotihuacán Land of the living gods The Maya 300 BC – AD 1519 | 218 | The Viking world AD 700 – 1050 The Vikings: raiders and traders Hedeby: a Danish emporium Nordic culture | 242 | Polynesian life Maori New Zealand AD 1000 – 1750 The settlement of New Zealand Mount Wellington: a Maori hillfort | 270 |
| The realm of the Maya Tikal: a Maya city The enigma of the Maya Early cultures of North America | 220 | Mediaeval Christendom AD 650 – 1200 Christian Europe Cluny: a Burgundian abb e y | 244 | Wairau Bar: a moa-hunters' camp From prehistoric New Zealand The Arctic world 10,000 BC – AD 1750 | 272 |
| 1000 BC – AD 700 Foraging and farming in North America A basketmaker house Early crafts of North America Norton Mound: a Honewall buriel | | Craftsmanship and commerce Feudal Yorkshire AD 1100 – 1500 Yorkshire: a feudal landscape | 246 | Arctic settlement The Saami culture of Lappland Arctic cultures Towards a world economy | 274 |
| Norton Mound: a Hopewell burial Empires of the Andes AD 800 – 1532 The Inca administration | 222 | Wharram Percy: a mediaeval village Mediaeval Yorkshire: a rural economy Trade across the Sahara AD 650 – 1200 | 248 | AD 1500 – 1700 The pattern of early world trade The Amsterdam: wreck of an East Indiaman From the wrecks of East Indiamen | |
| Cities of the Andes Inca art Farmers of the Amazon AD 650 – 1600 | 224 | West African commerce Igbo Ukwu: an African burial Jenne-jeno: an early African city Art of the Obas | | Towards an industrial economy AD 1500 – 1800 The transport revolution Quarry Bank Mill | 276 |
| Cultures of the Amazon Teso dos Bichos: an Amazonian village Manioc: an Amazonian staple crop Crafts of the Amazon | | West Africa: states and kingdoms AD 1200 – 1750 Trading empires of West Africa AD 1200 – 1450 The European impact AD 1450 – 1750 | 250 | Cromford: a planned workers' village Steam, iron and machinery Acknowledgements Glossary | 278 281 |
| The Aztecs and their ancestors AD 900 – 1521 The heart of the Aztec empire Chichén Itzá: city of Quetzalcoati Master craftsmen of Mexico | 226 | Out of the melting pot The trading kingdoms of East Africa AD 650 – 1750 East Africa: the pre-colonial era | 252 | Bibliography Index | 285 290 |
| The Pueblo farmers of the Southwest AD 700 – 1600 Cultures of the Southwest | 228 | Great Zimbabwe Cross-cultural contacts Southern India and Ceylon AD 650 – 1600 | 254 | | |
| Snaketown: a Hohokam farming village Crafts of the Pueblo Indians Temple-mounds of the Mississippi AD 650 – 1600 | 230 | Hindu India The Hindu legacy Buddhist Ceylon Buddhist art and architecture of Ceylon | | | |
| Temples of North America Cahokia: a Mississippian temple-mound The southern cult Ozette: a hunting village | 232 | The Islamic empires AD 1350 – 1600 Islam in Asia Fatehpur Sikri: a Mughal palace-city | 256 | | |
| AD 1400 – 1500 Hunters of Washington State Ozette: settlement and subsistence From an American beach The first European settlements | 234 | The arts of Islam Kingdoms of South-East Asia AD 650 – 1600 South-East Asia: the age of kingdoms The temples of Angles | 258 | | |
| AD 1500 – 1776 The colonisation of the Americas Wolstenholme: an English colonial town Saint Augustine: a Spanish colonial town | <i>2</i> 137 | The temples of Angkor From the temple kingdoms Buddhist Asia 500 BC – AD 1400 The spread of Buddhism | 260 | | |

Saint Augustine: a Spanish colonial town

8

The spread of BuddhismBuddhist monuments: stupas and pagodasBuddhist artTang and Sung China262AD 600 – 1280Tang China: a unified empireChang'an: an imperial cityFrom the Tang dynastySung China

CONTRIBUTORS

GENERAL EDITOR

DR. CHRIS SCARRE Wolfson College University of Cambridge

CONSULTANT EDITORS DR. WARWICK BRAY Reader in Latin American Archaeology Institute of Archaeology University of London

DR. JILL COOK Head of Quaternary Section Prehistoric and Romano – British Antiquities British Museum

The late GLYN E. DANIEL Former Disney Professor of Archaeology University of Cambridge

JEREMY A. SABLOFF University Professor of Anthropology and the History and Philosophy of Science University of Pittsburgh

CONTRIBUTORS

DR. JOHN ALEXANDER Department of Archaeology University of Cambridge

DR. BRIDGET ALLCHIN Fellow of Wolfson College University of Cambridge

DR. F. RAYMOND ALLCHIN Reader in Indian Studies University of Cambridge

CAROL ANDREWS Curator Department of Egyptian Antiquities British Museum

JAN AUTON New Hall University of Cambridge

CHARLES A. AYLMER Chinese Librarian Cambridge University Library

DR. PAUL G. BAHN Writer and Translator of Archaeology Hull

DR. G. N. BAILEY Department of Archaeology University of Cambridge

DR. GINA L. BARNES St. John's College University of Cambridge

IRIS BARRY Former Research Student Institute of Archaeology University of London

DR. PETER BELLWOOD Department of Prehistory and Anthropology Australian National University Canberra

DR. J. BINTLIFF

A. A. M. BRYER Professor of Byzantine Studies University of Birmingham

DR. L. A. S. BUTLER Director of Archaeological Studies University of Leeds

DEBORAH CAMPBELL Department of Anthropology University of Pittsburgh

DR. J. WISSEMAN CHRISTIE Centre for South-East Asian Studies University of Hull

DR. HELEN CLARKE Senior Lecturer Department of Mediaeval Archaeology University College London

DR. JOHN CLEGG Department of Anthropology University of Sydney

DR. J. M. COLES Formerly Professor of European Archaeology University of Cambridge

MELISSA CONNOR Midwest Archaeological Centre Lincoln Nebraska

ELIZABETH CRUWYS Scott Polar Research Institute Cambridge

RICHARD D. DAUGHERTY Professor Emeritus Washington State University

DR. JEREMY H. C. S. DAVIDSON Lecturer in Vietnamese School of Oriental and African Studies University of London

T. DILLEHAY Professor of Anthropology University of Kentucky

CORINNE DUHIG Bone Technician Department of Biological Anthropology University of Cambridge

DONALD D. F. EASTON Clare Hall University of Cambridge

DR. GEORGE ERDOSY Wolfson College University of Cambridge

KATE FERNIE Selwyn College University of Cambridge

JOHN FISHER Professor of Latin American Studies University of Liverpool

MARY FRASER New Hall University of Cambridge DR. IAN S. GLOVER Department of Prehistoric Archaeology University of London

DR. JEREMY GREEN Department of Maritime Archaeology Western Australian Maritime Museum Fremantle

D. W. HARDING Professor of Archaeology University of Edinburgh

CHARLOTTE HERXHEIMER Institute of Archaeology University of London

DR. CATHERINE HILLS Department of Archaeology University of Cambridge

DR. MARK HORTON St. Hughes College University of Oxford

WENDY HORTON Darwin College University of Cambridge

KENNETH HUDSON Social and Industrial Historian Bath

I. NOËL HUME The Colonial Williamsburg Foundation Virginia

HENRY R. HURST Museum of Classical Archaeology University of Cambridge

J-F. JARRIGE Mission Archéologique de l'Indus Musée Guimet Paris

ROGER JOUSSAUME Chargé de Recherches au CNRS Université Beaulieu Rennes

BARRY J. KEMP Lecturer in Egyptology University of Cambridge

DR. R. G. KILLICK Former Secretary/Librarian British Archaeological Expedition Iraq

DR. PETER S. KORNICKI Lecturer in Japanese University of Cambridge

WOLFGANG LIEBESCHUTZ Professor of Classics University of Nottingham

DR. ROGER J. LING Department of the History of Art University of Manchester

DR. MICHAEL LOEWE Faculty of Oriental Studies University of Cambridge

PETER MARSDEN

Senior Lecturer School of Archaeological Sciences University of Bradford

DR. A. D. H. BIVAR Near and Middle East Department School of Oriental and African Studies University of London

KEITH BRANIGAN Professor of Archaeology and Prehistory University of Sheffield

DR. NOEL BROADBENT Centre for Arctic Cultural Research Umeå University Sweden MARTIN FUESS Department of Anthropology University of Pittsburgh

YURIKO FUKASAWA Archaeological Researcher Tokyo

PETER GATHERCOLE Darwin College University of Cambridge

JAMES P. GEISS Department of East Asian Studies Princeton University Museum of London

DR. COLIN MARTIN Director of Scottish Institute of Maritime Studies University of St. Andrews

9

MALCOLM McLEOD Keeper of Ethnography British Museum

JAMES MELLAART Lecturer in Anatolian Archaeology Institute of Archaeology University of London DR. GEORGE MITCHELL Specialist in Indian Archaeology London

DR. PETER MITCHELL Donald Baden-Powell Quaternary Research Centre Department of Ethnology and Prehistory University of Oxford

JANE A. MOON Former Senior Research Associate British Archaeological Department Iraq

DR. ELIZABETH H. MOORE School of Oriental and African Studies University of London

DR. A. E. NORTHEDGE Specialist in Islamic Archaeology London

DR. JOAN OATES Girton College University of Cambridge

DR. YOUNGSOOK PAK School of Oriental and African Studies University of London

GEOFFREY PARKER Professor of Modern History University of Illinois

CHRISTOPHER S. PEEBLES Glenn A. Black Laboratory of Archaeology Bloomington Indiana

DR. DAVID W. PHILLIPSON Curator University Museum of Archaeology and Anthropology University of Cambridge

STUART PIGGOTT Former Professor of Archaeology University of Edinburgh

DR. J. N. POSTGATE Reader in Mesopotamian Studies University of Cambridge

JESSICA RAWSON Acting Keeper Department of Oriental Antiquities British Museum

DR. JANE RENFREW Lucy Cavendish College University of Cambridge

TIMOTHY E. G. REYNOLDS Department of Archaeology University of Cambridge

DR. DEREK A. ROE Donald Baden-Powell Quaternary Research Centre University of Oxford

DR. PETER ROWLEY-CONWY Clare Hall University of Cambridge

DR. SANDER VAN DER LEEUW Department of Archaeology University of Cambridge

DOUGLAS SCOTT

CHRISTOPHER SYKES Wolfson College University of Cambridge

THURSTAN SHAW Formerly Professor of Archaeology University of Ibadan Nigeria

MARY TREGEAR

Keeper Department of Eastern Art Ashmolean Museum University of Oxford

DENIS C. TWITCHETT Gordon Wu Professor of Chinese History Department of East Asian Studies Princeton University

DR. MICHAEL URSINUS Centre for Byzantine Studies and Modern Greek University of Birmingham

ERICA UTSI Lucy Cavendish College University of Cambridge

SHELAGH VAINKER Department of Oriental Antiquities British Museum

DR. J. P. WILD Department of Archaeology University of Manchester

We would also like to thank: Greig W. Arnold Professor J. Baines Pauline Batchelor Matthew Bennett Dr. H. A. W. Burl Amanda Claridge Dr. John Collis Dr. A. R. David Dr. Mark Elvin Dr. Andrew Goudie Hero Granger-Taylor Dr. G. Herrmann Dr. D. Hughes John J. Hurst Dr. John Irwin Simon Kaner Dr. James Lewthwaite Dr. F. M. Meddens Dr. Joan Oates Guil Owen Dr. Neil Roberts Dr. R. Rodden David Sekers Professor Stuart Struever Lord William Taylour H. P. Willmott

Regional Archaeologist Rocky Mountain Regional Division Midwest Archaeological Centre

DR. ANDREW SHERRATT Department of Antiquities Ashmolean Museum University of Oxford

R. C. SIMMONS Professor of American History University of Birmingham

A. M. SNODGRASS Laurence Professor of Classical Archaeology University of Cambridge

10