



ARCHAEOPRESS PUBLISHING LTD Summertown Pavilion 18-24 Middle Way Summertown Oxford OX2 7LG www.archaeopress.com

ISBN 978-1-80327-667-0 ISBN 978-1-80327-668-7 (e-Pdf)

© Elle Clifford, Paul Bahn and Archaeopress 2024

Front cover: View of Creswell Crags, photo by Paul Kaye, with woolly mammoths generated by AI. Back cover: Montage of Ice Age animals, illustrations by Myriam Cuennet.

All rights reserved. No part of this book may be reproduced, or transmitted, in any form or by any means, electronic, mechanical, photocopying or otherwise, without the prior written permission of the copyright owners.

This book is available direct from Archaeopress or from our website www.archaeopress.com

ACKNOWLEDGEMENTS

We would like to thank the Archaeopress team for all their support, help and design skills, especially Patrick Harris and Erin McGowan.

At Creswell Crags, we are indebted to Paul Kaye, Peyton Kaye, Parker Kaye, Dr Angharad Jones, John Charlesworth and Hannah Andrews for their input and feedback.

For illustrations, we are deeply grateful to Elisabeth Daynès (www.elisabethdaynes.com) and to Myriam Cuennet (www.myc-art-editions.fr).

And last, but definitely not least, we are honoured that Chris Packham contributed the foreword.

IMAGE CREDITS

- title Northern lights photographed near Tromsø, Norway, woolly mammoth generated by Al. Photo E. McGowan.
- Hand stencils in the cave of El Castillo, Spain. Photo P. Saura.
- iv Reconstruction of an Ice Age woman and child, by E. Daynès.
- 2-3 Time line from the present to approximate arrival of modern humans in Europe. Archaeopress.
- Map of Europe showing the extent of land mass and the Eurasian ice sheets at Last Glacial Maximum around 20,000 years ago.
- 3 Map of Europe showing the extent of land mass and the Eurasian ice sheets at the end of the Last Ice Age around 10,000 years ago.
- 4–5 Engraving of cave lions from La Vache, France. Photo Guérin Nicolas. CC-BY-SA 3.0.
- 6 Wild ox engraved at Romito, Italy. Photo P. Bahn.
- A pile of animal dung fuel in a village in India. Photo Satdeep Gill. CC-BY-SA 3.0.
- 10 An artist's reconstruction of a woman who lived during the last period of the Ice Age, by E. Daynès.
- 11 Some of the human portraits engraved at La Marche, France, after Pales and de St Péreuse.
- 12 A recreation of a mammoth bone hut at Mezhirich, Ukraine. Photo P. Bahn.
- 13 A recreation of a Pincevent tent, Photo P. Bahn.
- 5 Reconstructed image of the boys' clothing and jewellery at the Sunghir burial, courtesy the late N. Bader.
- 16 Drawings and watercolours of Ice Age animals by M. Cuennet.
- 8 Drawing of a stag by M. Cuennet.
- 19 Drawing of a woolly mammoth in Rouffignac cave, France. Photo J. Vertut, P. Bahn collection.
- 20 An Ice Age engraving of a hare on stone from Isturitz, France. After Passemard.
- 21 Wolves engraved on a bone, from La Vache, France. After Marshack.
- 21 Marine mammal scene of seals, fish and eels engraved on an antler, from Montgaudier cave, France. After Breuil.
- Reconstruction of an Ice Age woman during pregnancy, by E. Daynès.
- Sculpted head of a horse from Angles-sur-l'Anglin, France. Photo P. Bahn.
- 26 Antler carving from southern France. Photo J. Vertut, P. Bahn collection.
- 29 The Romito boy's skeleton. Photo D. Frayer.
- 31 Textile imprint on the wall of Cosquer cave. Photo L. Vanrell.
- 32 Drawing of an eyed needle, bone awls and a piece of notched bone found in Church Hole at Creswell Crags. After Boyd Dawkins.
- 35 The Muraba'at basket is around 10,500 years old. Photo Y. Berman.
- 36 Drawing of a man who was buried at Sunghir, courtesy the late N. Bader.
- 37 Drawing of the two Sunghir boys' remains, courtesy the late N. Bader.
- Russian figurines made from mammoth ivory. Photos L. Lbova.
- Necklace from Labastide cave, France. Photo A. Marshack, P. Bahn collection.
- 40 Some of the ivory carvings found with the Sunghir burials, courtesy the late N. Bader.
- 41 The shells from the La Madeleine child burial. Photo M. Vanhaeren.
- 42 Bison painted on the walls at Covaciella, Spain. Photo P. Saura.
- 43 Drawing of a doe in red ochre made with finger dots from Covalanas, Spain. Photo P. Saura.
- A hand stencil in Cosquer cave. Photo L. Vanrell.
- 46 Children's footprints in Niaux cave, France. Photo J. Vertut, P. Bahn collection.
- 48 Above: Bear or 'Lion-man' ivory figurine. Photo Ulm Museum. Below: Brno ivory puppet. Photo A. Marshack, P. Bahn collection.
- 9 Maininskaya clay figure. Photo P. Bahn.
- 49 Bone disc found at Le Mas d'Azil, France. Photo J. Vertut, P. Bahn collection.
- 50 The clay bison from Le Tuc d'Audoubert, France. Photo R. Bégouën.
- 52 The frozen puppy known as 'Dogor' around 13,000 years old and found in the permafrost in Siberia in 2018. Photos S. Fedorov.
- 53 Tracing of wolf engraving from La Marche (Vienne). After Mélard.
- 55 Engraving of a horse with bridle, found in Oxocelhaya cave. After Larribau.
- 56 Reconstruction of a group of Ice Age people by E. Daynès.
- Excavation at Cueva Antón, Murcia, Spain. Photo J. Zilhão.
- 66 Map of Europe showing the extent of land mass and the Eurosian ice sheets at Last Glacial Maximum around 20,000 years ago.
- 67 Map of Europe showing the extent of land mass and the Eurasian ice sheets at the end of the Ice Age around 10,000 years ago.
- 68 Northern lights photographed near Tromsø, Norway. Photo E. McGowan.

Maps shown on pages 2, 3, 66 and 67 made in QGIS using Paleocoastlines GIS dataset (CC-BY) and DATED-1 European ice sheet dataset (CC-BY-3.0). Basemap made using World Administrative Boundaries shapefiles (Open Government License 3.0), European Environment Agency (EEA) elevation map of Europe based on GTOPO30 (as hillshade), and General Bathymetric Chart of the Oceans (GEBCO Compilation Group [2023] GEBCO 2023 Grid).

Zickel, M., D. Becker, J. Verheul, Y. Yener, C. Willmes, 2016. Paleocoastlines GIS dataset. CRC806-Database, https://doi.org/10.5880/SFB806.20

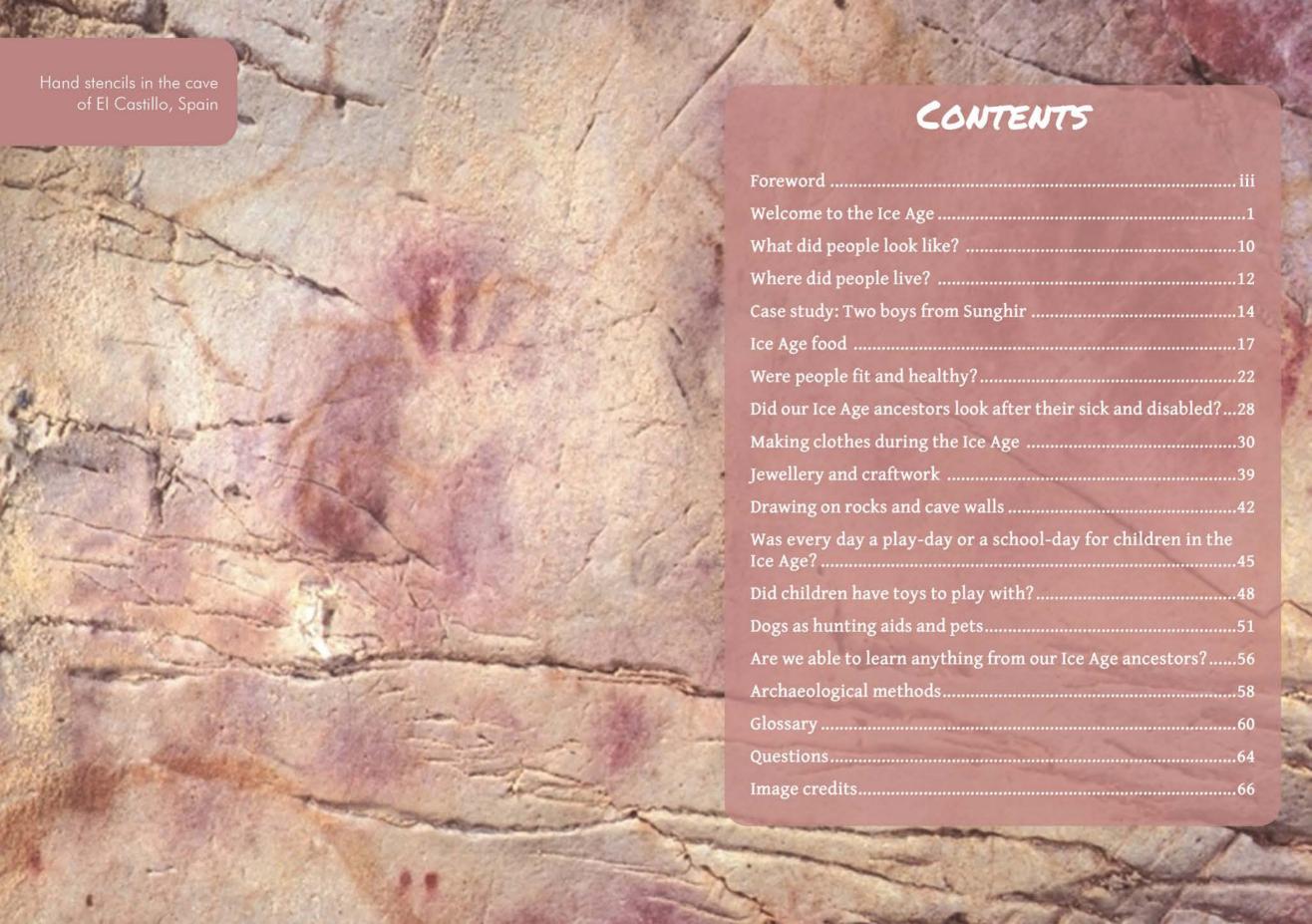
Hughes, A.L.C., R. Gyllencreutz, Ø.S. Lohne, J. Mangerud, J.I. Svendsen, 2015. DATED-1: compilation of dates and time-slice reconstruction of the build-up and retreat of the last Eurasian (British-Irish, Scandinavian, Svalbard-Barents-Kara Seas) Ice Sheets 40-10 ka. Department of Earth Science, University of Bergen and Bjerknes Centre for Climate Research, PANGAEA, https://doi.org/10.1594/PANGAEA.848117

LIVING IN THE ICE AGE

Elle Clifford Paul Bahn

Foreword by
Chris Packham

ARCHAEOPRESS



FOREWORD

When I was a child, the humans described in this book would have been called 'primitive' – such books were about 'primitive man'. Sadly, this painted a very inaccurate description of these people; the word 'primitive' made us think they were unsophisticated, basic, and at an early stage of human evolution. They were portrayed as 'cave men', hairy, naked, grunting, unintelligent animals. But, as you will learn in this wonderful book, this was very wrong – these people were the same as you and I.

Why did we misunderstand the people of the Ice Age? Well, that was down to our own lack of knowledge; but now, thanks to scientists and new technologies, we have learned so much more. They were far from primitive, they were clever, resourceful and inventive – they needed to be to survive in some very difficult environmental conditions. They were also skilful and creative, making beautiful clothes and tools, even what might have been toys for their children. Perhaps most importantly they were adaptable, learning to live and survive in many different habitats and conditions.

This fascinating book also shows us how they thrived, day to day – how they dressed, their jewellery, their shelters, what they ate, their health and diseases, how they looked after their families and their dogs, even what they looked like.

It's tempting to think that we can learn little from people who ate and drank, laughed and cried, between 40,000 and 12,000 years ago, but I think we should – because these remarkable people not only lived but survived through a period of unimaginable change on our planet. And now, once again, our planet is changing, this time because of our activities. And it's changing more quickly, more dramatically, than it did for these Ice Age humans; but if these ancient families survived, then we can survive too.

Chris Packham Naturalist, Broadcaster and Environmental Campaigner



WELCOME TO THE ICE AGE

Journey with us back to the Last Ice Age, and discover how small communities lived a **hunter-gatherer lifestyle** during this long time period of our ancient history. You will find out about:

- the different types of homes that Ice Age communities lived in;
- how they **foraged** and hunted for the resources they needed to survive in an ever-changing landscape;
- how our ancestors could craft fine tools and objects, and make beautiful art and jewellery;
- how their way of life had little impact on the environment in which they lived.

The period of time we will be referring to as the Last Ice Age is also called the 'Upper Palaeolithic' or 'Upper Old Stone Age'. It may have been one of the most important stages in human history, and the scientists who have studied this early part of our existence have produced evidence for what seem to be dramatic changes in our thinking, behaviour and development. Learning about our complex and exciting past gives us a greater understanding of the way **foraging** people manage their environment. This can help us to appreciate our planet and have a better understanding of what it means to be human.





ARCHAEOPRESS www.archaeopress.com

Living in the Ice Age takes you on a journey through life in Ice Age Europe, and the things you'd need to know to survive! This book looks at the daily life of biologically modern humans from about 40,000 to 12,000 years ago, a time when the climate and environment were changing rapidly. Explore the types of houses, food, clothes and toys people created in the Ice Age to see whether you would have liked to live back then.