

## The global origins and development of seafaring

Edited by Atholl Anderson, James H. Barrett & Katherine V. Boyle

Published by:

McDonald Institute for Archaeological Research University of Cambridge Downing Street Cambridge, UK CB2 3ER (0)(1223) 339336 (0)(1223) 333538 (General Office) (0)(1223) 333536 (FAX) dak12@cam.ac.uk www.mcdonald.cam.ac.uk

Distributed by Oxbow Books *United Kingdom:* Oxbow Books, 10 Hythe Bridge Street, Oxford, OX1 2EW, UK. Tel: (0)(1865) 241249; Fax: (0)(1865) 794449; www.oxbowbooks.com *USA:* The David Brown Book Company, P.O. Box 511, Oakville, CT 06779, USA. Tel: 860-945-9329; Fax: 860-945-9468

> ISBN: 978-1-902937-52-6 ISSN: 1363-1349 (McDonald Institute)

© 2010 McDonald Institute for Archaeological Research

All rights reserved. No parts of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without the prior permission of the McDonald Institute for Archaeological Research.

**Cover image:** A Tongan double-canoe with Oceanic lateen rig, under attack by Dutch seamen in April 1616. (Published originally in Spieghel der Australische Navigatie, 1622 (the journal of Jacob Le Maire). Image courtesy of the Alexander Turnbull Library, Wellington, New Zealand.)

Cover design by Atholl Anderson and Dora Kemp.

Edited for the Institute by James Barrett (Series Editor) and Dora Kemp (Production Editor).

Printed and bound by Short Run Press, Bittern Rd, Sowton Industrial Estate, Exeter, EX2 7LW, UK.

## Contents

Contributors Figures Tables Foreword		vii x xii xiii
<b>Part I</b> Chapter 1	<b>Introduction</b> The Origins and Development of Seafaring: Towards a Global Approach Atholl Anderson	3
<b>Part II</b> Chapter 2	<b>Inferences of Early Seafaring</b> Neptune's Children: the Evolution of Human Seafaring Jon McVey Erlandson	19
Chapter 3	Earliest Coastal Settlement, Marine Palaeoeconomies and Human Dispersal: the Africa–Arabia Connection Geoff BAILEY	29
Chapter 4	Pleistocene Migration and Colonization in the Indo-Pacific Region Sue O'Connor	41
Chapter 5	Pleistocene Sahul and the Origins of Seafaring James F. O'Connell, Jim Allen & Kristen Hawkes	57
Chapter 6	Seafaring Intensity and Island–Mainland Interaction along the Pacific Coast of North America Ben Fitzhugh & Douglas J. Kennett	69
Chapter 7	The First Argonauts: Towards the Study of the Earliest Seafaring in the Mediterranean Albert J. Аммегман	81
<b>Part III</b> Chapter 8	The Development of Boats and Seafaring The Global Origins of Seagoing Water Transport SEÁN McGrail	95
Chapter 9	Aspects of the Origin of Atlantic and Baltic Seafaring Ole Crumlin-Pedersen	109
<b>Part IV</b> Chapter 10	<b>Holocene Circumstances and Incentives of Seafaring</b> Pacific Voyaging and Settlement: Issues of Biogeography and Archaeology, Canoe Performance and Computer Simulation GeoFFREY IRWIN	131
Chapter 11	Prehistoric Pacific Population Movements Robin G. Allaby, Françoise R. Friedlaender, Floyd A. Reed, Kenneth K. Kidd, Judith R. Kidd, Geoffrey K. Chambers, Rodney A. Lea, Jun-Hun Loo, George Koki, Jason A. Hodgson, D. Andrew Merriwether, James L. Weber & Jonathan S. Friedlan	143 ender
Chapter 12	Seafaring and the Development of Cultural Complexity in Northeast Asia: Evidence from the Japanese Archipelago Junko Habu	159

Contents		
<i>Chapter</i> 13	Demographic Imperatives for Island Colonists William F. Keegan	171
<i>Chapter</i> 14	Island Colonization and Trade in the Mediterranean R. Helen Farr	179
<i>Chapter 15</i>	The Social and Environmental Context of Neolithic Seafaring in the Persian Gulf Robert A. Carter	191
Chapter 16	A Question of Life or Death? Seafaring and Abandonment in the Mediterranean and Pacific Islands Helen Dawson	203
Chapter 17	Conceptual Modelling of Seafaring, Climate and Early European Exploration and Settlement of the North Atlantic Islands Andrew J. Dugmore, Andrew F. Casely, Christian Keller & Thomas H. McGovern	213
<b>Part V</b> Chapter 18	<b>Sailing and Society</b> The Sea in the Land: Maritime Connections in the Chiefly Landscape of Tonga Geoffrey Clark	229
Chapter 19	Evidence for the Austronesian Voyages in the Indian Ocean Roger Blench	239
Chapter 20	'Ships a-sail from over the rim of the sea': Voyaging, Sailing and the Making of Mediterranean Societies <i>c.</i> 3500–800 вс Сургіан Вгоодванк	249
Chapter 21	Seafaring on the Atlantic Seaboard Barry Cunliffe	265
Chapter 22	'Horses are strong at sea': the Liminal Aspect of the Maritime Cultural Landscape Christer Westerdahl	275
Chapter 23	Rounding Up the Usual Suspects: Causation and the Viking Age Diaspora James H. Barrett	289
<b>Part VI</b> Chapter 24	<b>Conclusion</b> Histories of Global Seafaring: a Discussion James H. Barrett & Atholl Anderson	305

Index

315