Terra Australis reports the results of archaeological and related research within the south and east of Asia, though mainly Australia, New Guinea and island Melanesia — lands that remained terra australis incognita to generations of prehistorians. Its subject is the settlement of the diverse environments in this isolated quarter of the globe by peoples who have maintained their discrete and traditional ways of life into the recent recorded or remembered past and at times into the observable present.

Since the beginning of the series, the basic colour on the spine and cover has distinguished the regional distribution of topics as follows: ochre for Australia, green for New Guinea, red for South-East Asia and blue for the Pacific Islands. From 2001, issues with a gold spine will include conference proceedings, edited papers and monographs which in topic or desired format do not fit easily within the original arrangements. All volumes are numbered within the same series.

List of volumes in Terra Australis

Volume 4: Recent Prehistory in Southeast Papua. B. Egloff (1979)
Volume 10: The Emergence of Mailu. G. Irwin (1985)
Volume 14: 30,000 Years of Aboriginal Occupation: Kimberley, North-West Australia. S. O’Connor (1999)
New Directions in Archaeological Science

edited by Andrew Fairbairn, Sue O’Connor and Ben Marwick
Contents

Foreword 1
Andrew Fairbairn, Sue O’Connor and Ben Marwick

1 Assessing the frequency distribution of radiocarbon determinations from the archaeological record of the Late Holocene in western NSW, Australia
Simon J. Holdaway, Patricia C. Fanning and Judith Littleton 1

2 Heat-retainer hearth identification as a component of archaeological survey in western NSW, Australia
Patricia C. Fanning, Simon J. Holdaway and Rebecca S. Phillipps 13

3 Persistent places: An approach to the interpretation of assemblage variation in deflated surface stone artefact distributions from western New South Wales, Australia
Justin Shiner 25

4 Developing methods for recording surface artefacts on nineteenth and twentieth century sites in Australia
Samantha Bolton 43

5 Late Quaternary environments and human occupation in the Murray River Valley of northwestern Victoria
A. L. Prendergast, J. M. Bowler and M. L. Cupper 55

6 Seeing red: The use of a biological stain to identify cooked and processed/damaged starch grains in archaeological residues
Jenna Weston 77

7 Initial tests on the three-dimensional movement of starch in sediments
Michael Haslam 93

8 Re-viewing raphides: Issues with the identification and interpretation of calcium oxalate crystals in microfossil assemblages
Alison Crowther 105

9 Archaeobotany of Sos Höyük, northeast Turkey
Catherine Longford, Andrew Drinnan and Antonio Sagona 121
<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>A multi-disciplinary method for the investigation of early agriculture: Learning lessons from Kuk</td>
<td>Tim Denham, Simon Haberle and Alain Pierret</td>
</tr>
<tr>
<td>11</td>
<td>Dating marine shell in Oceania: Issues and prospects</td>
<td>Fiona Petchey</td>
</tr>
<tr>
<td>12</td>
<td>Examining Late Holocene marine reservoir effect in archaeological fauna at Hope Inlet, Beagle Gulf, north Australia</td>
<td>Patricia Bourke and Quan Hua</td>
</tr>
<tr>
<td>13</td>
<td>Archaeological surfaces in western NSW: Stratigraphic contexts and preliminary OSL dating of hearths</td>
<td>Edward J. Rhodes, Patricia Fanning, Simon Holdaway and Cynthja Bolton</td>
</tr>
<tr>
<td>14</td>
<td>HPLC-MS characterisation of adsorbed residues from Early Iron Age ceramics, Gordion, Central Anatolia</td>
<td>Todd Craig, Peter Grave and Stephen Glover</td>
</tr>
<tr>
<td>15</td>
<td>Melting Moments: Modelling archaeological high temperature ceramic data</td>
<td>Peter Grave</td>
</tr>
<tr>
<td>16</td>
<td>New approaches for integrating palaeomagnetic and mineral magnetic methods to answer archaeological and geological questions on Stone Age sites</td>
<td>Andy I. R. Herries</td>
</tr>
<tr>
<td>17</td>
<td>The role of the conservator in the preservation of megafaunal bone from the excavations at Cuddie Springs, NSW</td>
<td>Colin Macgregor</td>
</tr>
</tbody>
</table>