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 Southeast 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 1: Burrill Lake and Currarong: coastal sites in southern New South Wales. R.J. Lampert (1971)

Volume 2: Ol Tumbuna: archaeological excavations in the eastern central Highlands, Papua New Guinea. J.P. White (1972)

Volume 3: New Guinea Stone Age Trade: the geography and ecology of traffic in the interior. I. Hughes (1977)

Volume 4: Recent Prehistory in Southeast Papua. B. Egloff (1979)

Volume 5: The Great Kartan Mystery. R. Lampert (1981)

Volume 6: Early Man in North Queensland: art and archeaology in the Laura area. A. Rosenfeld, D. Horton and J. Winter (1981)

Volume 7: The Alligator Rivers: prehistory and ecology in western Arnhem Land. C. Schrire (1982)

Volume 8: Hunter Hill, Hunter Island: archaeological investigations of a prehistoric Tasmanian site. S. Bowdler (1984)

Volume 9: Coastal Southwest Tasmania: the prehistory of Louisa Bay and Maatsuyker Island. R. Vanderwal and D. Horton (1984)

Volume 10: The Emergence of Mailu. G. Irwin (1985)

Volume 11: Archaeology in Eastern Timor, 1966-67. I. Glover (1986)

Volume 12: Early Tongan Prehistory: the Lapita period on Tongatapu and its relationships. J. Poulsen (1987)

Volume 13: Coobool Creek. P. Brown (1989)

Volume 14: 30,000 Years of Aboriginal Occupation: Kimberley, Northwest Australia. S. O'Connor (1999)

Volume 15: Lapita Interaction. G. Summerhayes (2000)

Volume 16: The Prehistory of Buka: a stepping stone island in the northern Solomons. S. Wickler (2001)

Volume 17: The Archaeology of Lapita Dispersal in Oceania. G.R. Clark, A.J. Anderson and T. Vunidilo (2001)

term auxiralis 17

The archaeology of Lapita dispersal in Oceania

Papers from the Fourth Lapita Conference, June 2000, Canberra, Australia

Edited by G.R. Clark, A.J. Anderson and T. Vunidilo

PANDANUS BOOKS Research School of Pacific and Asian Studies THE AUSTRALIAN NATIONAL UNIVERSITY

Cover-

Main: Ugaga Island in Fiji, where a small Lapita site is located (A. Anderson).

Top left to right: Modelled clay face with dentate-stamped markings from Boduna Island, PNG (R. Torrence); Trochus shell fish hook from the Arawe Islands, West New Britain (A. Smith); excavations on Ugaga Island, Fiji (A. Anderson); modified Trochus shell from the Arawe Islands, PNG (A. Smith).

Cover map: Hollandia Nova. Thevenot 1663 by courtesy of the National Library of Australia. Reprinted with permission of the National Library of Australia

Pandanus Books 2001

This book is copyright in all countries subscribing to the Berne convention. Apart from any fair dealing for the purpose of private study, research, criticism or review, as permitted under the Copyright Act, no part may be reproduced by any process without written permission. Enquiries should be made to the publisher.

Typeset in Palatino 10.5pt on 14pt by Pandanus Books and printed on A2 Matt Art 115gsm by Elect Printers, Canberra phone 02 6280 6925.

ISSN 0725-9018

National Library of Australia Cataloguing-in-Publication entry

Lapita Conference (4th :, 2000-Canberra, A.C.T.). The archaeology of Lapita dispersal in Oceania : papers from the fourth Lapita Conference, tune 2000, Canberra, Australia.

ISBN 1 74076 010 7.

1. Archaeology — Islands of the Pacific — Congresses. 2. tapita culture — Islands of the Pacific — Congresses. 3. Ethnology — Islands of the Pacific — Congresses. 4. Islands of the Pacific — Concinzation — History — Congresses. 1. Anderson, Atholl. II. Clark, Geolfrey R. (Geolfrey Richard), 1965-. III. Vunidilo, T. IV. Australian National University. Dept. of Archaeology and Natural History. V. Australian National University. Centre for Archaeological Research. VI. Title. (Series : Terra Australia).

99

Published by Pandanus Books, Research School of Pacific and Asian Studies, The Austrolian National University, Canberra ACT 0200 Australia Editorial enquiries please contact Pandanus Books on 02 6125 3269

Pandanus Books are distributed by UNIREPS, UNSW, Sydney NSW 2052 Ph 02 9664 0999 Fax 02 9664 5420

Production: Ian Templeman, Duncan Beard and Emily Brissenden

Introduction

It was to have been the turn of Fiji to host the quadrennial Lapita Conference but the contemporary reality of an increasingly destabilised post-colonial Pacific intervened in the shape of a coup on 19 May 2000, just a fortnight before participants were due to arrive. It would have been the first major archaeological conference in the archipelago since the 1969 Wenner-Gren Symposium on Oceanic Culture History. To salvage the event it was relocated to the more prosaic setting of the Australian National University, a location in winter which lacks the tropical cachet of the Pacific, but which is well supplied with the people and facilities essential to run an international conference at short notice. The sudden change in venue unfortunately meant that some people were unable to alter their travel plans and make it to Canberra, particularly colleagues from North America. Nevertheless, around 60 Pacific scholars from Japan, Hawaii, New Caledonia, France, Fiji and Australasia did participate and delivered more than 40 papers, which besides providing an overview of current archaeological research on the west and central Pacific, also took us a step further toward understanding the Lapita phenomenon.

This volume collects the key papers of the conference which, with one exception, can be grouped into four themes. The first addresses the distribution of Lapita sites from the Bismarck Archipelago to Samoa. New and fundamental data on the age, number and distribution of Lapita sites are presented by Anderson et al., and Felgate and Summerhayes. In a separate paper, Anderson employs this data to argue that there was variable mobility during the Lapita dispersal. Secondly, employs this data to argue that there was variable mobility during the Lapita dispersal. Secondly, employs this data to argue that there was variable mobility during the Lapita dispersal. Secondly, employs this data to argue that there was variable mobility during the Lapita dispersal. Secondly, employs this data to argue that there was variable mobility during the Lapita dispersal. Secondly, employs this data to argue that there was variable mobility during the Lapita dispersal. Secondly, employs this data to argue that there was variable mobility during the Lapita paper. Parr et al., Szabo). A third group of papers concerns the artefacts and sites of the post-Lapita period, in an attempt to delineate more clearly the transitions seen in prehistoric material culture suites and patterns of landscape use (Bedford, Bedford and Clark, Leavesley, Parke, Sand, Spriggs and Bedford, Valentin et al.). Sand, for example, convincingly demonstrates differential rates of change in several classes of non-pottery artefacts, to illuminate the drivers and significance of culture change in New Caledonia over 3000 years. Fourthly, several authors investigate, and in some cases challenge, the view that Lapita arrived in the Bismarck Archipelago as a complete package from Island Southeast Asia (Bulmer, Cameron, Hagelberg, Smith). If this is so, then why, they ask, do spindle whorls not occur in Lapita sites, and why do *Trochus* shell working and possibly the domestic

dog, have a pre-Lapita age in Island Melanesia? Most unusually, the exceptional paper for a Lapita conference is one devoted exclusively to Lapita ceramics. Torrence and White report the spectacular find of modelled ceramic faces with dentate-stamped decoration (cover photo) from Boduna Island and discuss implications for understanding the Lapita design system.

If the papers in this volume suggest that there are changing interests in Lapita and its descendant assemblages, they also demonstrate how far we remain from definitive solutions to questions about origins which emerged soon after the inception of Lapita scholarship. The relative simplicity of articulating the pertinent questions still contrasts starkly with the difficult business of constructing useful databases in the field and laboratory. Nevertheless, this volume represents a recent and substantive contribution toward further understanding.

The decision not to proceed with the Fijian conference had to do with practicalities and personal safety but there were political implications which could not be ignored. Some participants felt that attending a conference in Fiji might be seen as offering tacit support to an administration that had taken control of the country at gunpoint. The issue raised an ethical dilemma for researchers, the implications of which go beyond Fiji's shores. The coup in Fiji is symptomatic of a broader political instability sweeping the Asia–Pacific region, which presents particular challenges to archaeologists and indeed all researchers seeking to study in the area. Should we boycott any country that is not under democratic rule? Or one where human rights are abused? These are not simple questions when the turmoil is linked, as so often it is, to indigenous movements centred upon control of land. Archaeologists cannot avoid making political decisions in these cases, but do the nature and recent history of our discipline enjoin sympathy for indigenous aspirations or ought we to adopt broader perspectives? This is a dilemma, both personal and professional, that will only recur in the Pacific's current troubled economic and political climate.

The Centre for Archaeological Research, Australian National University, provided generous funding for the conference and we also thank the Department of Archaeology and Natural History and the School of Archaeology and Anthropology (ANU) for their support. The Research School of Pacific and Asian Studies provided airfares that allowed two representatives from the Fiji Museum to attend, for which we thank the Director, Professor Jim Fox. We are grateful to all the participants who made last-minute travel arrangements in order to divert to Canberra. The Fiji Museum kindly arranged beautiful pandanus bags for all participants. For assistance with conference facilities, refreshments and social events we thank Gillian Atkin, Belinda Barbour, Stuart Bedford, Matthew Campbell, Peta Hill, Geoff Hope, Matthew Leavesley, Lyn Schmidt and Matthew Spriggs.

The Editors

Contents

1.	An inventory of Lapita sites containing dentate-stamped pottery	1
	Atholl Anderson, Stuart Bedford, Geoffrey Clark, Ian Lilley, Christophe Sand, Glenn Summerhayes and Robin Torrence	
2.	Mobility models of Lapita migration	15
	Atholl Anderson	
3.	Defining the chronology of Lapita in the Bismarck Archipelago	25
	Glenn Summerhayes	
4.	A Roviana ceramic sequence and the prehistory of Near Oceania: Work in progress	39
	Matthew Felgate	
5.	The rise and rise of the incised and applied relief tradition: A review and reassessment	61
	Stuart Bedford and Geoffrey Clark	
6.	Changes in non-ceramic artefacts during the prehistory of New Caledonia	75
	Christophe Sand	
7.	Arapus: A Lapita site at Mangaasi in central Vanuatu?	93
	Matthew Spriggs and Stuart Bedford	
8.	Ceramics from Malekula, northern Vanuatu: The two ends of a potential 3000-year sequence	105
	Stuart Bedford	
9.	The Strandlooper concept and economic naivety	115
	Janet Davidson and Foss Leach	
10.	Spatial analysis of fossil phytolith assemblages at an archaeological site in West New Britain, Papua New Guinea	125
	Ieff Parr. Carol Lentfer and William Boud	

11.	Tattooed faces from Boduna Island, Papua New Guinea	135
	Robin Torrence and J. Peter White	
12.	Phallus-shaped and other ceramic handles of Vanua Levu, Fiji	141
	Aubrey Parke	
13.	A continuous sequence? <i>Trochus</i> sheil artefacts in Lapita and post-Lapita assemblages from the Arawe Islands, West New Britain Province, Papua New Guinea	151
	Anita Smith	
14.	The reef, the beach and the rocks: An environmental analysis of mollusc remains from Natunuku, Viti Levu, Fiji	159
	Katherine Szabó	
15.	Genetic affinities of the principal human lineages in the Pacific	167
	Erika Hagelberg	
16.	Textile technology and Austronesian dispersals	177
	Judith Cameron	
17.	Lapita dogs and singing dogs and the history of the dog in New Guinea	183
	Susan Bulmer	
18.	Earth mounds of New Hanover, Papua New Guinea: distribution and function	203
	Matthew Leavesley	
19.	Burial practices at the end of the prehistoric period in Cikobia-i-ra (Macuata, Fiji)	211
	Frédérique Valentin, Christophe Sand, Isabelle Le Goff, Tarisi Sorovi Vunidilo, Sepeti Matararaba, André Ouetcho, Jacques Bole, David Baret and Jone Naucabalavu	

An inventory of Lapita sites containing dentate-stamped pottery

Atholl Anderson¹, Stuart Bedford¹, Geoffrey Clark¹, Ian Lilley², Christophe Sand³, Glenn Summerhayes¹ and Robin Torrence⁴

Department of Archaeology and Natural History, Research School of Pacific and Asian Studies, The Australian National University, Canberra ACT 0200, Australia

 2 Aboriginal and Torres Strait Islander Unit, University of Queensland, Brisbane 4072, Australia

³ Département Archéologie, New Caledonia Museum, BP:2393, 98846 Nouméa, New Caledonia

⁴ Anthropology, Australian Museum, 6 College Street, Sydney NSW 2010, Australia

Introduction

Recent estimates of the number of Lapita sites now recorded have varied considerably. Green's review in 1979, and his map (Green 1979;Fig. 2.2), still quoted, counted 19 localities and about 60 sites. Kirch and Hunt (1988) counted 79 sites and Kirch's (1997) review estimated more than 100 sites. A paper on Lapita colonisation models (Anderson n.d.), at the Fourth Lapita Conference, suggested 112 sites. Informal counts by regional specialists (Bedford, Burley, Clark and Summerhayes) during the conference and several months later, at the Pacific 2000 Conference in Hawaii, indicated that the number might be up to about 180 sites — distributed as 90 in the western islands, 40 between the Reefs, Vanuatu and New Caledonia, and 50 in the eastern islands. In fact, our inventory (below) lists 184 sites (broad density distribution shown in Fig. 1). These data suggest that current understanding amongst archaeologists of the total abundance of Lapita sites is at variance with the sum of the data that can be accumulated from each area. In other words, the regional evidence needs to be brought together again, as it has been in the earlier publications noted above.

It is not a simple matter, however, because much depends upon how 'Lapita' is defined, even when the definition is restricted to ceramics. Exactly where and how a line is drawn between Lapita ceramics and the various wares that were contemporary with them, or replaced them, is an abiding issue of Pacific prehistory. It is difficult because many assemblages to which nobody would refuse the label 'Lapita' contain, in addition to undisputed Lapita wares, others which in form and decoration (or the lack of decoration) can be assigned to post-Lapita assemblages: plain wares, some styles of incised decoration, applique and so on. As in many other areas of archaeology, much depends upon individual preference and purpose. Tracing the legacy of Lapita in successive ceramic types will take a more inclusive view than seeking to define the initial Lapita assemblage, for example. Choices need to be made and ours is based on the following considerations.

A principal division in perception, still evident amongst Pacific archaeologists, which was outlined by Jack Golson (1971:75) and Roger Green (1974:251) 30 years ago, lies between seeing Lapita ceramics as the manifestation of an archaeological *horizon*, and viewing Lapita pottery as representing an archaeological *tradition* — using the terms as defined by Willey and Phillips (1958). Each viewpoint has specific interpretive problems.

If Lapita is seen as a ceramic tradition extending across a large area of Near and Remote Oceania, and occupying a time depth of 1000 years or more, then the term 'Lapita' includes the plain wares of Tonga and Samoa, as well as the Buka-style pottery of Watom, even though there is little stylistic similarity between the plain wares of Tonga and the plain wares of Samoa, let alone between either of the plain wares and Buka-style pottery. In this case 'Lapita' refers to local or regional pottery sequences that demonstrate technological or stylistic continuity from an initial Lapita ceramic assemblage, however that might be defined.

The important point is that the trajectory of ceramic development from the first Lapita assemblages might, and indeed appears to, follow quite different paths in the archipelagos of the west and central Pacific (Bedford and Clark this volume). Confusion can arise since the term 'Lapita' then includes ceramic elements that are early and widespread (Lapita sensu stricto) with those that are later and limited to smaller districts or areas (Lapita sensu lato). Spennemann (1989:68), for example, identified a continuous sequence of ceramic development on Tongatapu, and therefore used 'Lapita' as a synonym for 'ceramic', which seems too broad a definition to be archaeologically meaningful since pottery was produced on Tongatapu for 1500 years, about half of the entire prehistoric sequence.

The interpretation of assemblages containing a proportion of dentate-stamped pottery as representing an archaeological horizon, defined as "a primary spatial continuity represented by cultural traits and assemblages whose nature and mode of occurrence permit the assumption of a broad and rapid spread" (Willey and Phillips 1958:33), can also be problematic. First, there is some evidence to suggest that dentate-stamped pottery begins earlier and continues longer in Near Oceania than in Remote Oceania, and the concept of a Lapita ceramic horizon, as opposed to a tradition, might therefore be inappropriate in the west. In Remote Oceania, on the other hand, the ceramic evidence generally supports an interpretation as an archaeological horizon. Second, and in line with the definition above, defining an archaeological horizon on the basis of one or two ceramic criteria can provide a misleading picture of cultural homogeneity that obscures important aspects of social variability (see Clark and Anderson In press). The likelihood of significant cultural variation amongst the western Pacific Lapita groups seems plausible because of the longer time depth and the different kinds of interaction that might be expected between Lapita and non-Lapita (probably non-Austronesian-speaking) populations. To characterise Lapita only on the basis of a numerically minor form of the ceramics has a potentially different implication than in Remote Oceania where, it is assumed, colonising populations were smaller and more homogeneous and the dentatestamped pottery, though still a minor element, more representative of the restricted variety.

Given, then, that interpretations of 'Lapita' ceramics legitimately embrace aspects of both horizon and tradition, how might we proceed to delineate a Lapita entity? Clearly, this depends on what we are trying to find out, and our aim at this stage in Lapita research is relatively modest. We want to specify the currently recorded number and distribution of Lapita sites, using one explicit criterion which is found throughout the Lapita range and which defines Lapita against all other known assemblages in the region in which Lapita occurs. The obvious criterion is dentate-stamped decoration (cf. Kirch and Hunt 1988:28). Other aspects of Lapita ceramics such as vessel form, technology and other decorative techniques might be equally as informative, but they have yet to be reported in sufficient detail for use in a distributional study of this kind. The dentate-stamped criterion has at least the virtue of providing a Lapita-wide foundation of site abundance and other site characteristics that is uncontroversial and upon which more complex inventories and arguments can be based.

Why do this at all? Several answers may be given. First, just as for the sake of a common understanding of our subject it is important to agree on criteria about characterising Lapita pottery form

and decoration, so it is necessary for Lapita specialists to reach a broad agreement from time to time about how many sites we are dealing with and which ones. Second, as the archaeology of the Lapita phenomenon becomes richer in data of all kinds we need to try to understand what Lapita is, and is not, in terms other than the formal attributes of its material culture and the demonstrated and conjectured nature of its settlement patterns and economy. That it represents a substantial migration by people who in some sense were the earliest Neolithic populations in the region and the first people in the eastern archipelagos is clear enough. But a deeper understanding of the migration and colonisation processes and results depends also on attempting questions such as how numerous were the first settlers, how often and fast did they move, which kinds of localities did they prefer to settle first and why, what set the process going and where and why did it stop. These are all fundamental issues of studies in prehistoric migration and colonisation throughout world archaeology and to the investigation of which Lapita studies might also aspire. To do so, control over the facts of Lapita site abundance, distribution and age is essential.

Information in the inventory

Table 1 shows the complete list, so far as our information extends, of archaeological sites containing dentate-stamped pottery. National site register codes are given where available and the site name. Locality type is approximate and many sites might fall under more than one description but we have taken the description which provides the most distinctive information, i.e. given that all sites are on islands and nearly all are coastal, what additional feature of location, if any, distinguishes them. A brief description of site contents is similarly subjective but indicates at least whether the site was a pottery find spot, a small deposit of restricted diversity or a full settlement site. The ceramic series is the local series; that is, where the ceramics fall in the local sequence. Although description of the Lapita ceramic series throughout its range is becoming more precise and perhaps better understood in developmental terms (e.g. Summerhayes 2000a), it is not yet possible to place all sites or levels containing dentate-stamped ceramics into a single Lapita-wide framework. Age is given approximately and according to relevant radiocarbon dates, in calendrical years BP.

Indicator references are simply one or two essential references to get the reader into the area of publications from which additional data may be drawn. We emphasise here that this inventory is only a summary of the information available. We urge readers to go through the indicator references to reach the original site reports and specific publications.

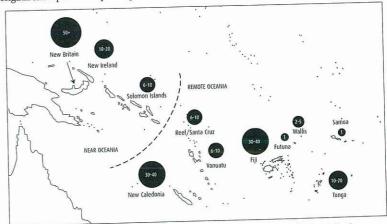


Fig. 1. Number of locations with dentate-stamped pottery in Near and remote Oceania (see Table 1).

Table 1. List of locations with dentate-stamped pottery and site characteristics.

CODE	LOCATION/ NAME	LOCALITY TYPE	EXTENT OF SITE (sq m)	CONTENTS	CERAMIC SERIES	AGE	INDICATOR REFERENCE
WEST NEW BRIT	'AIN			-			
Arawes							
FNY	Paligmete	coastal midden	18,000	full range	Early	-	Summerhayes 2000a
FNZ	Winguru	coastal midden	18,000	full range	Late	-	Summerhayes 2000a
FOH	Magekur	coastal midden	10,000	full range	Early to Middle	3240-2750	Summerhayes 2000a
FO)	Apalo	coastal midden	12,000	full range	Early to Late	3200-2520	Summerhayes 2000a
FOL	Amalut	coastal midden	3000	full range	Middle to Late	2770-2360	Specht & Gosden 1997
no code	Maklo	coastal midden	no estimate	pottery & obsidian	no estimate		Swadling 1992
no caue FOR	Makio Makio		no estimate		no estimate	_	Swadling 1992
		coastal midden		pottery & obsidian		_	Gosden et al. 1994
FOF	Lolmo	offshore island cave	55	full range	Late	_	Gosden et al. 1994
FOL	Agussak	offshore island	500	pottery & obsidian	no estimate	_	Swadling 1992
Kandrian Kandrian area	Vd0330K	dishole islata	300	pottery a obsidian	no estimate		31100king 1272
FLF	Alanglongromo	rock shelter	30	pottery & obsidian	Middle	3060-2750	Summerhayes 2000a
FLK	Aringilo	open site	no estimate	pottery	no estimate	_	Specht 1991a
FLX	Ngaikwo	open site	no estimate	pottery	no estimate	_	Specht 1991a
YA	Narangpun	open site	no estimate	pottery	no estimate	_	Specht et al. 1992
Apugi Island	unknown	uaknown	no estimate	pottery	no estimate	-	Specht et al. 1992
FFT	Langpun	coastal midden	no estimate	pottery	no estimate	_	Specht et al. 1981
		coastal midden			Middle to Late	_	Summerhayes 2000a
FS	Auraruo		no estimate	pottery		_	
INT	Kreslo (between Arawe and Kandin)	reef platform	2500	pottery	Middle to Late	_	Specht 1991b
Talasea area	Alaste and Kanalily						
CN	Point Mondu (east of Talasea wharf)	beach	no estimate	pottery & obsidian	no estimate	-	Specht et al. 1988
FCR/FCS	Lagenda plantation	hoach	no estimate	pottery & obsidian	Early	_	Specht et al. 1988
•	Nariri Beach	beach				_	Special et al. 1988
FOK	below Bitokara		no estimate	pottery & obsidian	no estimate	_	·
FCH	Nabodu Beach at Bamba village	beach 	no estimate	pot sherd	no estimate	_	Specht et al. 1988
R)	Valahia, near Pasiloke	beach 	no estimate	pottery & obsidian	no estimaté	_	Specht et al. 1988
EB	Patanga village	beach	no estimate	pottery & obsidian	no estimate	-	Specht et al. 1988
RI	Walindi	inland spur	no estimate	pottery & obsidian	no estimate	-	Specht et al. 1989
Sarua Harbour							
EA	Boduna	islet	6000	pottery & obsidian	Early to Middle	2950-2720	Summerhayes 2000a
EM	Garala Island	offshore island	no estimate	pottery & obsidian		-	Specht et al. 1988
QD	Langu, Binnen Island	offshore island	no estimate	pottery & obsidian		-	Specht et al. 1988
Garua island							
SZ	Scoria pit	coastal hill	1600	poltery & obsidian	Middle to Late	2800-2000	Summerhayes 2000a
AO	unknown	coastal hill	1600	pottery & obsidian	Middle to Late		Torrence 1993
QY .	Golas Gully	coastal hill	no estimate	pottery & obsidian	no estimate	_	Torrence 1993
AS	unknown	coastal stream bed	no estimate	pot sherd	no estimate	_	Torrence 1993
ΈK	Mt America	mudflats	no estimate	pot sherd	Early	-	Torrence 1993
RD	unknown	inland hill	no estimate	pottery & obsidian	Early to Late	-	Torrence & Stevensor 2000
EL	unknowe	coastal hill	no estimate	pottery & obsidian	Early to Late	***	Specht & Gosden 199
χο	unknown	coastal hill	no estimate	pottery & obsidian	Late	-	Torrence & Stevensor

Table	1	confinue

Table 1. conti							
CODE	LOCATION/ NAME	LOCALITY TYPE	EXTENT OF SITE (sq m)	CONTENTS	CERAMIC SERIES	AGE	INDICATOR REFERENCE
CY	unknown	beach .	no estimate	pottery & obsidian	Late	-	Torrence & Stevenson 2000
AAN/05-7	มกหางพก	coastal plain	no estimate	pottery & obsidian	Early to Late	2700	Torrence & Stevenson 2000
AAJ	unknown	coastal hill	no estimate	pottery & obsidian	no estimate	-	Torrence & Stevenson 2000
AAQ	unknown	inland hill	no estimate	pottery & obsidian	no estimate	-	Torrence & Stevenson 2000
Willaumez Peni							
AAH	Numundo plantation	coastal hill	no estimate	pottery & obsidian	no estimate	-	Torrence et al. 1999
ABH	Numundo plantation	inland hill	no estimate	pottery & obsidian	Late	_	Torrence et al. 1999
'ABN Kombe	Garu plantation	inland hill	no estimate	pottery & obsidian	no estimate	-	Torrence et al. 1999
CL	Poi Mission	coastal midden	no estimate	pottery, obsidian, shell midden	no estimate	3000-2700	Lilley 1991
FPA	Kautaga Island	coastal midden	no estimate	full range	no estimate	3000-2700	Lilley 1991
EAST NEW BRITA	AIN						
Duke of Yorks							
Ouke of York Is							
DN	Piuka	coastal midden	no estimate	pottery & obsidian	no estimate	-	White & Harris 1997
OK	Urkuk	coastal midden	no estimate	pottery	no estimate	_	White & Harris 1997
OP	Kabilomo	coastal midden	no estimate	pottery & obsidian	no estimate	_	White & Harris 1997
	Nakukur 1 and 2	coastal midden	75,000?	pottery & obsidian	no estimate		White & Harris 1997
ES/SET Hiako	Mioko Island	coastal midden	no estimate	pottery	no estimate	_	White & Harris 1997
DQ					no estimate		White & Harris 1997
FB/SfA Kabakon	Palpal village	coastal midden	30,000	pottery		3090	White & Harris 1997
SEE	Kabakon Island	coastal midden	8100	pottery, obsidian, bone	Early	3070	WHITE O ROLLS 1991
Vtuan SFF	unknown	coastal midden	no estimate	pottery & obsidian	no estimate	-	White & Harris 1997
Kerawara SEF	unknown	coastal midden	no estimate	pottery & obsidian	no estimate	-	White & Harris 1997
M <i>akada</i> SEO	unknown	coastal midden	no estimate	pottery & obsidian	no estimate	_	White & Harris 1997
SEP		coastal midden	no estimate	pottery & obsidian	no estimate	>2780	White & Harris 1997
Watom	Uraputput Point	roaziai illinosii	un ezmuare	pottery a dosional	no estimate	-2,00	mac e nomo 1771
Reber Mission a		constal middle-	no estimate	full range	Middle to Late	2200-2000	Green & Anson 1991
AC	Kainapirina	coastal midden			Middle to Late	2800-1800	Anson 2000
01	Vunavaung	coastal midden	no estimate	full range			
SAD	Maravot	coastal midden	no estimate	full range	Middle to Late	2300-1900	Green & Anson 2000
NEW IRELAND							
New Ireland ma	ainland						
EFY .	Lemau	coastal midden	กo estimate	pottery, obsidian, volcanic stone	no estimate	-	White 1992
AA	Lossu	coastal midden	no estimate	pottery	no estimate	-	White & Downie 1980
ELS/ELT	tasigi (Dori & Mission)	coastal midden	no estimate	puttery	Late	2980-2690	Golson 1992
Lambon Island							_
EPE	Lambon Island	unknown	no estimate	pottery	no estimate	2360-2060	Summerhayes pers. comm.
Anir Islands							•
EAQ	Malekolon	coastal midden	10,000	pottery, obsidian,	Middle	2900-2300	Summerhayes

continued over

Tah	۵ا	1	con	tione	4
าสม	16.	Ι.	LOH	шше	u

CODE	LOCATION/ NAME	LOCALITY TYPE	EXTENT OF SITE (sq m)	CONTENTS	CERAMIC SERIES	AGE	INDICATOR REFERENCE
				. H			
ERA	Kamgot	coastal midden	100,000	full range	Early	3200-2900	Summerhayes 2000b
ERB	Mission	coastal midden	no estimate	pottery, obsidian, volcanic stone	Middle	2900-2300	Summerhayes 2000b
no code	Naliu	coastal midden	no estimate	pottery & obsidian	no estimate	2900-2300	Summerhayes 2000b
ERC	Balbalankin	coastal midden	15,000	full range	Middle	2900-2300	Summerhayes 2000b
Mussau							
ECA	Talepakemalai	coastal midden	72,500	full range	Early	3550-2770	Kirch 1997
ECB	Etakosarai	coastal midden	2700	full range	no estimate	3500-3300	Kirch et al. 1991
EHB	Etapakengaroasa	coastal midden	1150	full range	no estimate	3500-2400	Kirch et al. 1991
EKQ	Epakapaka	rock shelter	90	full range	no estimate	3100-2800	Kirch et al. 1991
MANUS							
GDN	Kohin Cave	cave	no estimate	pottery	no estimate	3900-2450	Kennedy 1981
GLT	Mouk	coastal flat	no estimate	pottery	no estimate	_	McEldowney & Ballard
GFR	Paemasa (Baluan)	coastal flat	no estimate	pot sherd	no estimate	-	McEldowney & Ballard
							1991
NORTH SOLOM	ONS						
Nissan	. 1	1.4.6		* 0			
DFF	Lebang Halika	rock shelter	no estimate	full range	Early	_	Spriggs 1991
DGD/2	unkaowa -	rock shelter	40	full range	Early	>2730	Spriggs 1991
DES	Tarmon	reef flat	5110	pottery & adzes	Late	_	Spriggs 1991
Buka and Soha							
)JQ	Kessa	reef flat	10,000	pottery, vocanic stone, adzes, obsidian	Middle	_	Wickler 2001
DAF	Sohano	reef flat	39,000	pottery, volcanic stone, adzes, obsidian	Middle	-	Wickler 2001
)AA	Sohano	rock shelter	25,000	pottery & obsidian	Middle	_	Wickler 2001
KC	Sohano Primary School	rock shelter	100	pottery	Middle	_	Wickler 2001
CLOMONS							-
Roviana Lagoo.		:_a stdf	1000				# 1 · · · · · · · · · ·
10 code	Honiavasa Nuna Revisea	inter-tidal	1800	pottery	Late		Felgate this volume
io code	Nusa Roviana	inter-tidal	no estimate	pottery	Late	_	Felgate this volume
EEF/SANTA CR	RUZ						
!F-2	Nenumbo, Reef Islands	coastal midden	1000	full range	Middle	3200-1900	Green 1976
F-6	Ngamanie, Reef Islands	coastal midden	2400	pottery & midden	Middle	2800-2500	Green 1976
Z-8	Nanggu, Nendo, Santa Cruz	coastal midden	14,000	pottery & midden	Middle	3200-3100	Green 1976
7-23	Malu, To Motu Neo Island, Santa Cruz	coastal midden	3000	pottery, chert, obsidian	Middle	-	McCoy & Cleghorn 1988
7-45	Bianga Mepala, Wia Island,	coastal midden	10,000	pottery, obsidian,	Middle	-	McCoy & Cleghorn
	Santa Cruz			adze			1988
EW CALEDONIA	Α						
lorth coast							
KM001	Boirra	coastal flat	10,000	full range	Early to Late	3000-2750	Galipaud 1988
AR098	Arama	coastal flat		-	?Late	_	Galipaud 1988
P1001	Pam	mangrove			?Late	_	Sand et al. 2001
lest coast		•		. ,			
K0027	Oundjo	coastal flat	no estimate	pottery	?Late		Baret et al. 2000
K0013	Lapita	coastal flat	5000		Early to Late	_	Gifford & Shutler 1956
K0013A	Lapita	coastal flat	20,000		Early to Late	3000-2750	Sand 1998a
KO013B	Lapita	coastal flat	250		Early to Late	3000-2750	Sand 1998a

Table 1. conti	inued						•
CODE	LOCATION/ NAME	LOCALITY TYPE	EXTENT OF SITE (sq m)	CONTENTS	CERAMIC SERIES	AGÉ	INDICATOR REFERENCE
WK0028	Koniene	coastal flat	no estimate	pottery	?Early to Late	-	Sand 1996
WK0141	Podtanean	coastai flat	no estimate	pottery	?Late	_	Galipaud 1988
WNP003	Franco	coastal sand	no estimate	pot sherd	?Late	_	Galipaud 1988
WNP038	Pindai	coastal sand	no estimate	pottery	?Late	-	Sand 1996
WBR001	Nessadiou	coastal sand	no estimate	full range	Early to Late	3000-2750	Sand 1996
WBR009	· Ile Verte	coastal dune	no estimate	pot sherd	?Late	-	Frimigacci & Siorat 198
WBR006	Temroc	coastal flat	no estimate	pottery	?Late	-	Frimagacci 1975
WPT055	Naĭa	coastal flat	no estimate	pottery	?Late	_	Smart n.d.
WPT055	Naïa	coastal flat	no estimate	pottery	?Early to Late	-	frimagacci 1975
WPT148 South coast	Ongové	coastal flat	10,000	pottery	?Early to Late	_	Sand 1994
SNA019	Anse Vata	coastal flat	no estimate	pot sherd	?Late	_	Frimagacci 1975
lle des Pines	AIDE TOTO	coastos not	(in commune	pot siicio	. LUIC		timagata 1772
KV0001	Kapume	coastal dune	no estimate	pot sherd	?Late	_	Golson 1962
KY0003	St Maurice-Vatcha	coastal dune	10,000	full range	Early to Late	2950-2700	Sand 1999
KGJ004	Gadji (1)	coastal flat	no estimate	pot sherd	?Late	-	Frimagacci 1975
East coast	Gadji (1)	coastal flat	no estimate	pot sileta	tuic		Timiogocci 1213
EHIOSO	Dowalwoue	coastal sand	no estimate	pot sherd	?Late	_	Gifford & Shutler 1956
SUN014	Witpwe	coastal flat	no estimate	pot sherd	Late	_	Sand & Ouetcho 1992
STY007	Pwekina	coastal flat	5000	pottery	Late	_	Sand & Ouetcho 1994
STY015	Goro	coastal flat	>10,000	full range	Early to Late	_	Sand et al. 2000
Loyalty Islands	4010	CODSCOTTION	- 10,000	ton tonge	carry to cate		John Cron 2000
	Patho	coastal sand	>2000	full range	?Early to Late		Sémah & Galipaud 199
LP0020							
LP0023	Kurin	coastal dune	>5000	full range	Early to Late	_	Sand et al. In press
111002	Hnaeo	coastal dune	no estimate	full range	Early to Late		Sand et al. 1998
EWT008	Hnajoisisi	rock shelter	50	full range	Late	2800-2750	Sand 1998
LWT054	Keny	coastal dune	>20,000	fuli range	?Early to Late	?2950-2750	Sand 1998
LUV081	Wadrilla	coastal sand	pottery	?Early to Late	-		Sand et al. 1999b
VANUATU							
Erromango							
no code	lfo	coastal flat	500-1000	full range	?Early to Late	3000-2800	Bedford et al. 1998
no code	Ponamla	coastal flat	100-500	full range	Late		Bedford et al. 1998
Elate				•			
no code	Erueti	coastal flat	10-100	full range	?Early to Late	3000-2800	Spriggs 1997
Malakula	Lideti	LODSIGI HOL	20 100	ion range	really to Eute	3000 1000	Spriggs 1227
			40.400	6.0	1-1-		n = 25d = + -1 1000
no code	Malua Bay	coastal flat	10-100	full range	Late		Bedford et al. 1998
Malo							
141010							
	Batuni-Urunga	coastal flat	>3000	full range	?Early to Late	3000-2800	Hedrick n.đ.
MA 8-20	Batunî-Urunga Avunatari	coastal flat coastal flat	>3000 >3000	full range full range	?Early to Late ?Early to Late	3000-2800 3000-2800	Hedrick n.đ. Galipaud 1998
MA 8-20 MA 8-38	Avunatari	coastal flat		full range	?Early to Late		
MA 8-20	_		>3000	•	•	3000-2800	Galipaud 1998
MA 8-20 MA 8-38 MA 8-39	Avunatari Naone	coastal flat coastal flat	>3000 >3000	full range full range	?Early to Late ?Early to Late	3000-2800 3000-2800	Galipaud 1998 Hedrick n.d.
MA 8-20 MA 8-38 MA 8-39 MA 8-40	Avunatari Naone Atanoasao	coastal flat coastal flat	>3000 >3000	full range full range	?Early to Late ?Early to Late	3000-2800 3000-2800	Galipaud 1998 Hedrick n.d.
MA 8-20 MA 8-38 MA 8-39 MA 8-40 FIJI ISLANDS Yasawas, Vanua	Avunatari Naone Atanoasao Levu, Cikobia	coastal flat coastal flat coastal flat	>3000 >3000 no estimate	full range full range full range	?Early to Late ?Early to Late	3000-2800 3000-2800 3000-2800	Galipaud 1998 Hedrick n.d.
MA 8-20 MA 8-38 MA 8-39 MA 8-40 FIJI ISLANDS Yasawas, Vanua Y2-25	Avunatari Naone Atanoasao Levu, Cikobia Waya, Yalobi	coastal flat coastal flat	>3000 >3000	full range full range	?Early to Late ?Early to Late ?Early to Late	3000-2800 3000-2800	Galipaud 1998 Hedrick n.d. Galipaud 1998
MA 8-20 MA 8-38 MA 8-39 MA 8-40 FIJI ISLANDS Yasawas, Vanua	Avunalari Naone Atanoasao I Levu, Cikobia Waya, Yalobi Vanua Levu,	coastal flat coastal flat coastal flat coastal flat	>3000 >3000 no estimate no estimate	full range full range full range full range	?Early to Late ?Early to Late ?Early to Late Late	3000-2800 3000-2800 3000-2800	Galipaud 1998 Hedrick n.d. Galipaud 1998
MA 8-20 MA 8-38 MA 8-39 MA 8-40 FIJI ISLANDS Yasawas, Vanua Y2-25 no code	Avunatari Naone Atanoasao I Levu, Cikobia Waya, Yalobi Vanua Levu, Vaturekuka	coastal flat coastal flat coastal flat coastal flat coastal flat riverbank	>3000 >3000 no estimate no estimate	full range full range full range full range pottery & lithics	?Early to Late ?Early to Late ?Early to Late Late Late	3000-2800 3000-2800 3000-2800 2800-2400	Galipaud 1998 Hedrick n.d. Galipaud 1998 Hunt et al. 1999 Parke 2000
MA 8-20 MA 8-38 MA 8-39 MA 8-40 FIJI ISLANDS Yasawas, Vanua Y2-25 TIO CODE	Avunatari Naone Atanoasao I Levu, Cikobia Waya, Yalobi Vanua Levu, Vaturekuka Cikobia, Naselala	coastal flat coastal flat coastal flat coastal flat	>3000 >3000 no estimate no estimate	full range full range full range full range	?Early to Late ?Early to Late ?Early to Late Late	3000-2800 3000-2800 3000-2800	Galipaud 1998 Hedrick n.d. Galipaud 1998 Hunt et al. 1999
MA 8-20 MA 8-38 MA 8-39 MA 8-40 FIJI ISLANDS Yasawas, Vanua Y2-25 no code CIKOO6 Viti Levu and no	Avunatari Naone Atanoasao a Levu, Cikobia Waya, Yalobi Vanua Levu, Vaturekuka Cikobia, Naselala earby	coastal flat coastal flat coastal flat coastal flat riverbank coastal flat	>3000 >3000 no estimate no estimate no estimate	full range full range full range full range full range pottery & lithics full range	?Early to Late ?Early to Late ?Early to Late Late Late Late	3000-2800 3000-2800 3000-2800 2800-2400 — 2800-2400	Galipaud 1998 Hedrick n.d. Galipaud 1998 Hunt et al. 1999 Parke 2000 Sand et al. 1999a
MA 8-20 MA 8-38 MA 8-39 MA 8-40 FIJI ISLANDS Yasawas, Vanua Y2-25 no code CIKOO6 Viti Levu and ne	Avunatari Naone Atanoasao I Levu, Cikobia Waya, Yalobi Vanua Levu, Vaturekuka Cikobia, Naselala Parby Natunuku	coastal flat coastal flat coastal flat coastal flat riverbank coastal flat coastal flat	>3000 >3000 no estimate no estimate no estimate 1000	full range full range full range full range full range pottery & lithics full range full range	PEARLY to Late PEARLY to Late PEARLY to Late Late Late Late Late Late Late Late	3000-2800 3000-2800 3000-2800 2800-2400 — 2800-2400 2800-2300	Galipaud 1998 Hedrick n.d. Galipaud 1998 Hunt et al. 1999 Parke 2000 Sand et al. 1999a Davidson et al. 1990
MA 8-20 MA 8-38 MA 8-39 MA 8-40 FIJI ISLANDS Yasawas, Vanua Y2-25 TO Code CIKOO6 VITI Levu and ne VL1/1	Avunatari Naone Atanoasao a Levu, Cikobia Waya, Yalobi Vanua Levu, Vaturekuka Cikobia, Naselala earby	coastal flat coastal flat coastal flat coastal flat riverbank coastal flat coastal tlat coastal dune rock shelter	>3000 >3000 no estimate no estimate no estimate 1000 1000-3000	full range full range full range full range pottery & lithics full range full range full range	PEARLY to Late PEARLY to Late PEARLY to Late Late Late Late Early to Late Early to Late Early to Late	3000-2800 3000-2800 3000-2800 2800-2400 — 2800-2400	Galipaud 1998 Hedrick n.d. Galipaud 1998 Hunt et al. 1999 Parke 2000 Sand et al. 1999a Davidson et al. 1990 Hunt 1980
MA 8-20 MA 8-38 MA 8-39 MA 8-40 FIJI ISLANDS Yasawas, Vanua Y2-25 TO Code CIKOO6 VITI Levu and ne VL1/1	Avunatari Naone Atanoasao I Levu, Cikobia Waya, Yalobi Vanua Levu, Vaturekuka Cikobia, Naselala Parby Natunuku	coastal flat coastal flat coastal flat coastal flat riverbank coastal flat coastal flat	>3000 >3000 no estimate no estimate no estimate 1000	full range full range full range full range full range pottery & lithics full range full range	PEARLY to Late PEARLY to Late PEARLY to Late Late Late Late Late Late Late Late	3000-2800 3000-2800 3000-2800 2800-2400 — 2800-2400 2800-2300	Galipaud 1998 Hedrick n.d. Galipaud 1998 Hunt et al. 1999 Parke 2000 Sand et al. 1999 Bunt 1980 Anderson et al. 2000
MA 8-20 MA 8-38 MA 8-39 MA 8-40 EIJI ISLANDS Yasawas, Vanua Y2-25 TO code CIKOO6 VIII Levu and ne VL1/1 VL16/81 TO code	Avunatari Naone Atanoasao I Levu, Cikobia Waya, Yalobi Vanua Levu, Vaturekuka Cikobia, Naselala earby Natunuku Yanuca	coastal flat coastal flat coastal flat coastal flat riverbank coastal flat coastal tlat coastal dune rock shelter	>3000 >3000 no estimate no estimate no estimate 1000 1000-3000	full range full range full range full range pottery & lithics full range full range full range	PEARLY to Late PEARLY to Late PEARLY to Late Late Late Late Early to Late Early to Late Early to Late	3000-2800 3000-2800 3000-2800 2800-2400 — 2800-2400 2800-2300	Galipaud 1998 Hedrick n.d. Galipaud 1998 Hunt et al. 1999 Parke 2000 Sand et al. 1999a Davidson et al. 1990 Hunt 1980
MA 8-20 MA 8-38 MA 8-39 MA 8-40 FIJI ISLANDS Yasawas, Vanua Y2-25	Avunatari Naone Atanoasao Levu, Cikobia Waya, Yalobi Vanua Levu, Vaturekuka Cikobia, Naselala Paranuku Yanuca Qara-1-Oso II	coastal flat coastal flat coastal flat coastal flat riverbank coastal flat coastal flat coastal flat	>3000 >3000 no estimate no estimate no estimate 1000 1000-3000 150	full range full range full range full range full range pottery & lithics full range full range full range pot sherd	PEARLY to Late PEARLY to Late PEARLY to Late Late Late Late Early to Late Early to Late Late Late	3000-2800 3000-2800 3000-2800 2800-2400 — 2800-2400 2800-2300	Galipaud 1998 Hedrick n.d. Galipaud 1998 Hunt et al. 1999 Parke 2000 Sand et al. 1999 Davidson et al. 1990 Hunt 1980 Anderson et al. 2000

continued over

Table 1. continued

CODE	LOCATION/ NAME	LOCALITY TYPE	EXTENT OF SITE (sq m)	CONTENTS	CERAMIC SERIES	AGE	INDICATOR REFERENCE
no code	Vatulele, unlocalised	unknown	no estimate	pottery	?Early	-	Ewins 1995
BQ178A	Bega, Nadawa	coastal flat	no estimate	pottery	?Early	-	Crosby 1988
BQ175A	Bega, Kulu	coastal flat	<1000	full range	Late	_	Anderson & Clark 199
93A	Bega, Melabe	coastal flat	no estimate	pottery	Late		Crosby 1988
BQ132	Bega	coastal flat	no estimate	pottery	Late	_	Crosby 1988
UG1-2	Ugaga	islet	100-500	full range	Early to Late	2900-2300	Clark 1999
VL21/5	Naigani	coastal flat	1000-3000	full range	Early	2900-2700	Kay 1984
no code	Moturiki, Saulevu	islet	no estimate	pottery	Late	-	Nuna 1999
Lau Group							
no code	Yacata, Site in village	coastal flat	no estimate	poltery	Late	-	Parke 2000
no code	Susui, Bureniwaqa	coastal flat	no estimate	pollery	Late	-	Nunn & Matararaba 2000
no code	Cikobia-I-Łau, Korovusa	coastal flat	no estimate	pottery	Late	-	Nunn & Matararaba 2000
no code	Mago, Votua	coastal flat	1000-3000	full range	Late	2800-2600	Clark et al. In press
no code	Mago, Sovanibeka	rock shelter	30	pottery	Late	2700-2300	Clark & Hope 1997
101/7/197 & 101/7/96	Lakeba & Qaranipuqa -Wakea (2)	rock shelter/ coastal flat	80 + 15,000	full range	Early to Late	2900-2700	Best 1984
no code	Namuka, unlocalised	unknown	no estimate	pottery	no estimate	-	Best pers. comm.
no code	Komo, unfocalised	unknown	no estimate	pottery	no estimate	-	Best pers. comm.
no cođe	Moce, unlocalised (2)	unknown	no estimate	pottery	no estimate		Best 1984
no code	Fulaga, unlocalised	บกหกอพก	no estimate	pottery	no estimate	-	Best 1984
To31/1	Totoya, Uđu	coastal flat	no estimate	pottery	Late	-	Clark & Cole 1997
To31/2	Totoya, Lawaki Levi	u coastai flat	no estimate	pottery	Late	-	Clark & Cole 1997
To31/3	Totoya, Waroke	coastal flat	no estimate	pottery	Late	-	Clark & Cole 1997
no code	Ono-1-Lau (3)	coastal flat	no estimate	pottery	no estimate	-	Best 1984
TONGA Tongatapu (4)							
To.1/TO-Pe-11	Pe'a, Site 1	coastal flat	4300	full range	?Late	_	Poulsen 1987
To.2/TO-Nk-2	Nukuleka	coastai flat	300	full range	?Early to Late	2700-2900	Poulsen 1987
To. 3/TO-Pe-3	Ha'ateiho	coastal flat	2150	full range	Late	_	Poulsen 1987
To. 5/TO-Pe-5	Veitongo	coastal flat	1230	full range	Late	_	Poulsen 1987
To. 6/TD-Pe-6	Tufo Mahina	coastal flat	1500	full range	Late	2400-2300	Poulsen 1987
TO-Nu-82	Mangaia Mound	coastal flat	no estimate	full range	Late	3100-2600	Spennemann 1989
TO-Nu-2	unknown	unknown	no estimate	pattery	Late	_	Spennemann 1989
TO-Nu-12	unknown	unknown	no estimate	pat sherd	Late	_	Spennemann 1989
10-Pe-28	Pe'a, Site 28	unknown	no estimate	pottery	Late	_	Spennemann 1989
10-Pe-42	Pe'a, Site 42	unknown	no estimate	pattery	Late	_	Spennemann 1989
10-Pe-27	Yuki's Mound	unknown	no estimate	pottery	Late	_	Groube 1971
Ha'apai Group	* aki s illoolid	Olikii SAII	no eximite	policit	Luia .		
no code	Tungua, Fakatafenga	coastal flat	no estimate	pottery	Late	-	Burley et al. 1999
no code	Ha'afeva, Mele Havea	islet	900	pottery	iate	2700-2600	Burley et al. 1999
no code	'Uiha, Vaipuna	coastal flat	400	pottery	Late	2800-2500	Burley et al. 1999
no code	Lifuka, Tongoleleka		1500	full range	Late	2800-2600	Burley et al. 1999
no code	Foa, Faleloa	coastal flat	750	full range	Late	2650-2550	Burley et al. 1999
no coue							

Table 1. continued							
COOE	LOCATION/ NAME	LOCALITY TYPE	EXTENT OF SITE (sq m)	CONTENTS	CERAMIC SERIES	AGE	INDICATOR REFERENCE
Niuatoputapu NT-90	Lolokoka	coastal flat	3000	pottery	Late		Kirch 1988
SAMOA <i>Upolu</i> no code	Mulifanua	submerged beach	6000	pottery	?Early	2750	Dickinson & Green 1998
WALLIS MA021 MA046 no code	Utuleve Utuleve Utupoa	coastal sand coastal flat coastal flat	10,000 1000 no estimate	full range full range pottery	Early to Late Early to Late Late	2800-2750 — —	Sand 1998 Frimigacci 2000 Frimigacci 2000
FUTUNA Si001	Asipani	coastal flat	>3000	full range	Late		Sand 1993

⁽¹⁾ Unpublished surface collection

⁽²⁾ One or two sites present

⁽³⁾ Three sites recorded by Best (1984)

⁽⁴⁾ see Burley et al. (2001)

References

- Anderson, A.J. n.d Towards shinkansen? Mobility models in Lapita colonisation. Paper presented at the Fourth Lapita Conference, Australian National University, Canberra, June 2000.
- Anderson, A., Clark, G. and Worthy, T. 2000 An inland Lapita site in Fiji. Journal of the Polynesian Society 109:311-316.
- Anson, D. 2000 Excavations at Vunavaung (SDI), Rakival Village, Watom Island, Papua New Guinea. New Zealand Journal of Archaeology 20(1998):95–118.
- Baret, D., Bole, J., Ouetcho, A. and Sand, C. 2000 Etude de Potentiel et Pré-inventaire des Ressources Patrimoniales du Milieu. (Nouméa) Projet Koniambo: Etude environnemental de Base, Nouméa.
- Bedford, S., Sprigge, M., Wilson, M., and Regenvanu, R. 1998 The Australian National University-National Museum of Vanuatu archaeology project: a preliminary report on the establishment of culture sequences and rock art research. Asian Perspectives 37(2):165–193.
- Best, S. 1984 Lakeba: the prehistory of a Fijian Island. Unpublished PhD thesis, Department of Anthropology, University of Auckland, Auckland.
- Burley, D.V., Nelson, E. and Shutler, R. Jr 1999 A radiocarbon chronology for the eastern Lapita frontier in Tonga. Archaeology in Oceania 34:137–146.
- Burley, D.V., Dickinson, W.R., Barton, A. and Shutler, R. Jr 2001 Lapita on the periphery: New data on old problems in the Kingdom of Tonga. Archaeology in Oceania 36:89–104.
- Clark, G. 1999 Post-Lapita Fiji: cultural transformation in the mid-sequence. Unpublished PhD thesis, Australian National University, Canberra.
- Clark, G. and Anderson, A. In press The pattern of Lapita settlement in Fiji. Archaeology in Oceania.
- Clark, G., Anderson, A. and Matararaba, S. In press The Lapita site at Votua, Northern Lau Islands, Fiji. Archaeology in Oceania.
- Clark, G. and Hope, G. 1997 Preliminary Report on Archaeological and Palaeoenvironmental Investigations in Northern Lau (Mago, Yacata-Kaibu and Vatuvara). Unpublished report to the Fiji Museum, Suva.
- Clark, J.T. and Cole, T. 1997 Environmental change and human prehistory in the Central Pacific: archaeological and palynological investigations on Totoya Island, Fiji. Unpublished report to the Fiji Museum, Suva.
- Crosby, A. 1988 Beqa: archaeology, structure and history in Fiji. Unpublished MA thesis, Department of Anthropology, University of Auckland, Auckland.
- Davidson, J., Hinds, E., Holdaway, S. and Leach, F. 1990 The Lapita site of Natunuku, Fiji. New Zealand Journal of Archaeologu 12:121–155.
- Dickinson, W.R. and Green, R.C. 1998 Geoarchaeological context of Holocene subsidence at the Ferry Berth Lapita site, Mulifanua, Upolu, Samoa. Geoarchaeology 13(3):239–263.
- Ewins, R. 1995 Proto-Polynesian art? The cliff paintings of Vatulele. Journal of the Polynesian Society 104:23-74.
- Felgate, M. In press A Roviana ceramic sequence: work in progress. In G.R. Clark, A.J. Anderson and T. Vunidilo (eds) The Archaeology of Lapita Dispersal in Oceania. Pandanus Press, Australian National University: Canberra.
- Frimigacci, D. 1975 La préhistoire néo-calédonienne. Unpublished Thèse de 3e cycle, Paris University, Paris.
- Frimigacci, D. 1990 Aux temps de la terre noire: ethno-archéologie des îles Futuna et Alofi, SELAF 321.
- Frimigacci, D. 2000 La préhistoire d'Uvea (Wallis). Chronologie et périodisation. Journal de la Société des Océanistes 111:135–163.
- Frimigacci, D. and Siorat, J.P. 1988 L'îlot Vert site archéologique des périodes Koné et Naïa de Nouvelle-Calédonie. Journal de la Société des Océanistes 86:3–20.
- Galipaud, J-C. 1988 La poterie préhistorique néo-calédonienne et ses implications dans l'étude du processus de peuplement du Pacifique occidental. Unpublished Thèse de Doctorat, Paris I University, Paris.
- Galipaud, J-C. 1998 The Lapita site of Atanoasao Malo, Vanuatu. Field Report No.8. ORSTOM: Port Vila.
- Gifford, E. and Shutler, R. Jr 1956 Archaeological excavations in New Caledonia. Anthropological Records 18(1). University of California Press: Berkeley and Los Angeles.
- Golson, J. 1962 Rapport sur les fouilles effectuées à l'Île des Pins (Nouvelle-Calédonie), de décembre 1959 à février 1960. Etudes Mélanésiennes 14-17:11-23.

- Golson, J. 1971 Lapita ware and its transformations. Pacific Authropological Records 12:67-76.
- Golson, J. 1992. The ceramic sequence from Lasigi. In J-C. Galipaud (ed.) Poterie Lapita et Peuplement, pp.155–168.
 ORSTOM: Noumea.
- Gosden, C., Webb, J., Marshall, B. and Summerhayes, G.R. 1994 Lolmo Cave: a mid to late Holocene site, the Arawe Islands, West New Britain Province, Papua New Guinea. Asian Perspectives 33:97-119.
- Green, R.C. 1974 A review of portable artifacts from Western Samoa. In R.C. Green and J.M. Davidson (eds) Archaeology in Western Samoa, pp. 245–275. Bulletin of the Auckland Institute and Museum Number 7: Auckland.
- Green, R.C. 1976 Lapita sites in the Santa Cruz group. In R.C. Green and M. Cresswell (eds) Southeast Solomon Islands Cultural History: A preliminary survey, pp. 245–65. Royal Society of New Zealand Bulletin 11: Wellington.
- Green, R.C. 1979 Lapita. In J.D. Jennings (ed.) The Prehistory of Polynesia, pp. 27–60. Australian National University Press: Canberra.
- Green, R.C. and Anson, D. 1991 The Reber-Rakival Lapita site on Watom. Implications of the 1985 excavations at the SAC and SDI localities. In J. Allen and C. Gosden (eds) The Report of the Lapita Homeland Project, pp. 170–181. Occasional Papers in Prehistory 20, Department of Prehistory, Research School of Pacific Studies, Australian National University: Canberra.
- Green, R.C. and Anson, D. 2000 Excavations at Kainapirina (SAC), Watom Island, Papua New Guinea. New Zealand Journal of Archaeology 20(1998):29–94.
- Groube, L.M. 1971 Tonga, Lapita pottery, and Polynesian origins. Journal of the Polynesian Society 80:278-316.
- Hedrick, J. n.d Archaeological investigations of Malo Island. Lapita settlement strategy in the northern New Hebrides.

 Manuscript draft of PhD thesis, University of Pennsylvania, Pennsylvania.
- Hunt, T.L. 1980 Toward Fiji's past; archaeological research on southwestern Viti Levu. Unpublished MA thesis, University of Auckland, Auckland.
- Hunt, T.L., Aronson, K.F., Cochrane, E.E., Field, J.S., Humphrey, L. and Rieth, T.M. 1999 A preliminary report on archaeological research in the Yasawa Islands, Fiji. Domodomo 12:5–43.
- Kay, R. 1984 Analysis of archaeological material from Naigani. Unpublished MA thesis, University of Auckland,
- Kennedy, J. 1981 Lapita colonisation of the Admiralty Islands. Science 213:757-759.
- Kirch, P.V. 1988 Niuatoputapu: the prehistory of a Polynesian chiefdom. Thomas Burke Memorial Washington State Museum Monograph No. 5. The Burke Museum: Seattle.
- Kirch, P.V. 1997 The Lapita Peoples: ancestors of the Oceanic World. Blackwell: Oxford.
- Kirch, P.V. and Hunt, T.L. 1988 The spatial and temporal boundaries of Lapita. In P.V. Kirch and T.L. Hunt (eds)

 Archaeology of the Lapita Cultural Complex: a critical review, pp. 9–31. Thomas Burke Memorial Washington

 State Museum Research Report 5: Seattle.
- Kirch, P.V., Hunt, T.L., Weisler, M., Butler, V. and Allen, M.S. 1991 Mussau Islands prehistory: results of the 1985–86 excavations. In J. Allen and C. Gosden (eds) Report of the Lapita Homeland Project, pp.144—163. Occasional Papers in Prehistory 20, Department of Prehistory, Research School of Facific Studies, Australian National University: Canberra.
- Lilley, I. 1991 Lapita and post-Lapita developments in the Vitiaz Straits-West New Britain Area. Indo-Pacific Prehistory Association Bulletin 11:313–322.
- McCoy, P.C. and Cleghorn, P.C. 1988 Archaeological excavations on Santa Cruz (Nendo), Southeast Solomon Islands: Summary report. Archaeology in Oceania 23:104–115.
- McEldowney, H. and Ballard, C. 1991 The Mouk Island site: Manus as paradox or parable in reconstructions of the Lapita cultural complex? In J. Allen and C. Gosden (eds) Report of the Lapita Homeland Project, pp. 92–102. Occasional Papers in Prehistory 20, Department of Prehistory, Research School of Pacific Studies, Australian National University: Canberra.
- Marshall, Y., Crosby, A., Matararaba, S. and Wood, S. 2000 Sigatoka. The shifting sands of Fijian prehistory. University of Southampton Department of Archaeology Monograph No.1: Southampton.
- Nunn, P. 1999 Lapita pottery from Moturiki Island, Central Fiji. Archaeology in New Zealand 42:309-313.
- Nunn, P. and Matararaba, S. 2000 New finds of Lapita pottery in northeast Fiji. Archaeology in Oceania 35:92-93.

- Palmer, B. 1966 Lapita style potsherds from Fiji. Journal of the Polynesian Society 75:373-377.
- Parke, A.L. 2000 Coastal and inland Lapita sites in Vanua Levu, Fiji. Archaeology in Oceania 35:116-119.
- Poulsen, J. 1987 Early Tongan Prehistory. Terra Australia 12. Department of Prehistory, Research School of Pacific Studies, Australian National University: Canberra.
- Sand, C. 1991 The ceramic chronology of the Island of Futuna, Western Polynesia: an overview. In M. Spriggs (ed.) Lapita Design Form and Composition, pp. 123–133. Occasional Papers in Prehistory 19, Research School of Pacific Studies, Australian National University: Canberra.
- Sand C. 1993 Données archéologiques et géomorphologiques du site ancien d'Asipani, Futuna (Polynésie occidentale). Journal de la Société des Océanistes 96(2):117–144.
- Sand, C. 1994 Entre mer et montagne. Inventaire archéologique de la Commune de Païta (Province Sud). Les Cahiers de l'Archéologie en Nouvelle-Calédonie, Vol. 4: Nouméa.
- Sand, C. 1996 Le début du peuplement austronésien de la Nouvelle-Calédonie. Données archéologiques récentes. Les Cahiers de l'Archéologie en Nouvelle-Calédonie, Vol. 6: Nouméa.
- Sand, C. 1998a Archaeological report on localities WKO013A and WKO013B of the site of Lapita (Koné, New Caledonia). Journal of the Polynesian Society 107:7–33.
- Sand, C. 1998b Recent Archaeological Research in the Loyalty Islands of New Caledonia. Asian Perspectives 37(2):194-223.
- Sand, C. 1998c Archaeological research on Uvea Island, Western Polynesia. New Zealand Journal of Archaeology 18(1996):91–123.
- Sand, C. 1999 The beginning of Southern Melanesian Prehistory: Excavation at the St Maurice-Vatcha Lapita site, New Caledonia. Journal of Field Archaeology 26:307–323.
- Sand, C. and Outecho, A. 1992 Bwede ko-tchon tchuvan-vare kein (des rivières déviées par les ancêtres). Premier inventaire archéologique de la commune de Yaté, Province Sud de la Nouvelle-Calédonie. Les Cahiers de l'Archéologie en Nouvelle-Calédonie, Vol. 1: Nouméa.
- Sand, C. and Outecho, A. 1994 Fouilles archéologiques de sauvetage sur le site STY007 de Pwekina (Commune de Yaté). Bulletin de la Société des Etudes Mélanésiennes 29:17-29.
- Sand, S., Valentin, F., Sorovi-Vunidilo, T., Bole, J., Ouetcho, A., Matararaba, S., Naucabalavu, J., Baret, D. and Lagarde, L. 1999a Cikobia-I-Ra. Archaeology of a Fijian Island. Les cahiers de l'archéologie en Nouvelle-Caledonie, Vol. 9: Nouméa.
- Sand, C., Bole, J. and Outecho, A. 1999b Fichier d'inventaire des sites archéologiques et traditionnels de la Province des îles loyauté:programme 1992–1997. Département Archéologie du Service des Musées et du Patrimoine de Nouvelle-Calédonie, Nouméa.
- Sand, C., Bole, J., Outecho, A. and Baret, D. 2000 Recherches archéologiques sur le site Lapita de Goro (Yaté, Province Sud). Département Archéologie du Service des Musées et du Patrimoine de Nouvelle-Calédonie. Nouméa.
- Sand, C., Bole, J., Outecho, A. and Baret, D. 2001 Nouvelles données sur le Lapita en Province Nord (Nouvelle-Calédonie). Département Archéologie du Service des Musées et du Patrimoine de Nouvelle-Calédonie, Nouméa.
- Sand, C., Bole, J., Outecho, A. and Baret, D. In press Site LPO023 of Kurin: characteristics of a Lapita settlement in the Loyalty Islands (New Caledonia). Asian Perspectives.
- Semah, A-M. and Galipaud, J-C. 1992 La fouille du site LAPITA de Patho (île de Maré, Nouvelle-Calédonie). Rapport d'activités. Sciences Sociales, Archéologie No. 5. ORSTOM: Nouméa.
- Smart, C. n.d [1969] Notes on the Pottery Sequence obtained from Southern New Caledonia. Unpublished manuscript, Australian National University, Canberra.
- Specht, J. 1991a Report on fieldwork in West New Britain Province, January 1991. Unpublished manuscript in possession of the authors.
- Specht, J. 1991b Kreslo: a Lapita pottery site in southwest New Britain, Papua New Guinea. In J. Allen and C. Gosden (eds) Report of the Lapita Homeland Project, pp. 189–204. Occasional Papers in Prehistory 20, Department of Prehistory, Research School of Pacific Studies, Australian National University: Canberra.

- Specht, J., Hollis, J. and Pain, C. 1981 Report on archaeological fieldwork West New Britain, Papua New Guinea.
 Unpublished manuscript in possession of the authors.
- Specht, J., Fullagar, R., Torrence, R. and Baker, N. 1988 Prehistoric obsidian exchange in Melanesia: A perspective from the Talasea sources. Australian Archaeology 27:3–16.
- Specht, J., Gosden, C., Webb, J., Boyd, W. and Lilley, I. 1992 Report on archaeological research in West New Britain Province, PNG January–February 1992. Unpublished manuscript in possession of the authors.
- Specht, J. and Gosden, C. 1997 Dating Lapita Pottery in the Bismarck Archipelago, Papua New Guinea. Asian Perspectives 36:175–189.
- Spennemann, D.H.R. 1989 'Ata 'a Tonga mo 'ata 'o Tonga: early and later prehistory of the Tongan Islands.
 Unpublished PhD thesis, Australian National University, Canberra.
- Spriggs, M. 1991 Nissan, the island in the middle. Summary report on excavations at the north end of the Solomons and south end of the Bismarcks. In J. Allen and C. Gosden (eds) The Report of the Lapita Homeland Project, pp. 222-243. Occasional Papers in Prehistory 20, Department of Prehistory, Research School of Pacific Studies. Australian National University: Canberra.
- Spriggs, M. 1997 The Island Melanesians. Blackwell: Oxford.
- Summerhayes, G.R. 2000a Lapita Interaction. Terra Australis 15. Department of Archaeology and Natural History and the Centre for Archaeological Research, Australian National University: Canberra.
- Summerhayes, G.R. 2000b Recent archaeological investigations in the Bismarck Archipelago, Anir-New Ireland province, Papua New Guinea. Bulletin of the Indo-Pacific Prehistory Association 19:167–174.
- Swadling, P. (ed.) 1992 Places of cultural and natural heritage significance in West New Britain: A report for West New Britain Provincial Tourist Bureau. Papua New Guinea National Museum, Boroko.
- Torrence, R. 1993 Archaeological research on Garua Island, WNB, PNG, June–July 1993. Unpublished report in possession of the author.
- Torrence, R., Specht, J. and Boyd, B. 1999 Archaeological fiedlwork on Numundo and Garu Plantations, West New Britain, PNG. Unpublished report submitted to the West New Britain Provincial Government and the National Museum and Art Gallery, Papua New Guinea.
- Torrence, R. and Stevenson, C. 2000 Beyond the beach: changing Lapita landscapes on Garua Island, Papua New Guinea. In A. Anderson and T. Murray (eds) Australian Archaeologist: Collected papers in honour of Jim Allen, pp. 324–345. Coombs Academic Publishing, Australian National University: Canberra.
- White, J.P. 1992 New Ireland and Lapita. In J-C. Galipaud (ed.) Poterie Lapita et Peuplement: Actes du Colloque LAPITA, pp. 83–90. ORSTOM: Noumea.
- White, J.P. and Downie, J. 1980 Excavations at Lesu, New Ireland. Asian Perspectives 23:193-220.
- White, J.P. and Harris, M.N. 1997 Changing sources: early Lapita period obsidian in the Bismarck Archipelago. Archaeologu in Oceania 32:97–107.
- Wickler, S. 2001 The Prehistory of Buka: A stepping stone island in the Northern Solomons. Terra Australis 16. Department of Archaeology and Natural History and the Centre for Archaeological Research, Australian National University: Canberra.
- Willey, G.R. and Phillips, P. 1958 Method and Theory in American Archaeology. University of Chicago Press: Chicago and London.