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# Debating Lapita: Distribution, chronology, society and subsistence

Stuart Bedford, Matthew Spriggs, David V. Burley, Christophe Sand, Peter Sheppard and Glenn R. Summerhayes

Lapita has been a focus for archaeologists for generations. Initially inspired by the scattered reporting in the early twentieth century of highly decorated sherds (Meyer 1909; McKern 1929; Piroutet 1917), its increasing significance in terms of the human settlement of the Pacific began to build in the 1960s. The Lapita culture has been most clearly defined by its distinctive dentate-stamped decorated pottery and the design system represented on it and on further incised pots. It is defined earliest in the Bismarck Archipelago to the east of the large island of New Guinea, at some time in the centuries preceding 3000 cal. BP. At around that date the Lapita culture spread out from its Bismarck Archipelago 'homeland' to beyond previously inhabited regions of Near Oceania to establish the first human colonies in the western part of Remote Oceania, the present-day south-east Solomons, Vanuatu, New Caledonia, Fiji, Tonga, Samoa and Wallis and Futuna. At about the same time there was a push to the south-west out from the Bismarcks along the south coast of New Guinea, perhaps even as far as the Torres Straits (McNiven et al. 2006).

The broad overlapping themes of this volume, Lapita distribution and chronology, society and subsistence, relate to research questions that have long been debated in relation to Lapita. It is a substantial volume with 23 chapters, reflecting the increasing breadth and focus on different aspects of Lapita that have developed over several decades.

The distribution and chronology theme, as addressed in Chapters 2 to 9, connects to questions of its geographical spread, site location within that extent and its origins. The eastern and southern boundaries appear to be well established, having remained unchanged since the 1970s: Samoa the furthest east and New Caledonia the most southerly. However, it seems very unlikely the north-western boundaries of Lapita are yet fixed, with earlier and simpler dentate-stamping having been found in Island Southeast Asia (ISEA) (e.g. Hung et al. 2011 for Luzon). How these ISEA pottery traditions relate to dentate-stamped pottery in Micronesia and Lapita in the Bismarcks remains unresolved. Some have argued that the pottery follows a trail from ISEA to Micronesia and then on to the Bismarcks (Carson 2018; Carson et al. 2013). Clark and Winter (Chapter 2) address this question head-on with a detailed comparison of motif forms and designs from the two regions. In an expansion of the boundary, recent serendipitous discoveries and predictive modelling of the 3000 cal. BP south Papuan coastline have now extended the Lapita range westwards right up to the Fly River (Skelly et al. 2014). David et al. (Chapter 3) discuss one of these sites, Moiapu at Caution Bay near Port Moresby, and how it fits into the regional context and sequence, focusing particularly on its place at the end of Lapita. These discoveries on the south Papuan coast, along with later pottery from the Torres Strait (McNiven et al. 2006)

and on Lizard Island on Australia's Great Barrier Reef (Tochilin et al. 2012), suggest that the western and south-western boundaries of Lapita are not yet fixed. The implications of this are discussed by Lilley (Chapter 5), who suggests that coastal Aboriginal Australians were most likely much more connected to Lapita expansion than previously imagined, both linking to it and also involved in facilitating its extension.

The theme of distribution also connects with questions of site location and spread within the Lapita boundary. Sites are overwhelmingly found in coastal locales but can be found on large islands through to small islets, on back beaches or in intertidal situations. The evidence for the latter appears to be largely restricted to Near Oceania where Lapita populations were entering already populated islands (but see Burley 2016, Nunn and Heorake 2009 for suggested Tongan and Fijian examples). Two chapters address these different locales. Summerhayes et al. (Chapter 4) focus on the Near Oceanian site of Kamgot, an Early Lapita site in the Anir Group off southern New Ireland, once located in an intertidal zone. They outline the archaeological evidence and discuss the economic advantages of establishing a settlement in an intertidal situation. Burley et al. (Chapter 8) discuss an Early Lapita site in Fiji, on the small island of Kavewa in Vanua Levu. It is strategically positioned on a passage through the reef, a location that may have been chosen by founder colonies to facilitate exploration and settlement of the Vanua Levu mainland.

While the geographic distribution of Lapita dentate-stamped sites has been extended, there remain some persistent gaps within its current extension, namely the central Solomons, Samoa and American Samoa. There remains an ongoing debate whether these are real or perceived. In some cases, the geomorphological and post-depositional complexities make the search and discovery of Lapita sites extremely difficult. A lack of focused research is also a factor in some areas. This might be partly the case in the Vitiaz Strait where Lapita has been found only on the Siassi Islands to date, but it seems most likely that it may have been more widespread due to the strategic location between the Bismarcks and the New Guinea mainland. Gaffney et al. (Chapter 6) address this question in relation to Arop Island where recent fieldwork has been carried out. They present a range of evidence that points to a Lapita presence on that island. Sheppard (Chapter 7) revisits the Lapita gap in the main Solomons, arguing that earlier contentions for a leap-frog scenario of Early Lapita settlement remain robust. He adds new data that further support this scenario.

Lapita chronology is continually being addressed, and many of the chapters here touch on this aspect. Long gone are the days when Lapita was seen to continue in some areas for more than a thousand years, or that there was a pause in the Bismarcks for 400 years before people moved further east. Much more refined use of radiometric methods, the incorporation of  $\Delta R$  offsets for marine shell samples, the identification of charcoal to species, or the specific targeting of short-lived samples such as nutshell have led to much more robust chronological delineation. The use of uranium-thorium dating (U/Th) on coral artefacts has also provided unprecedented chronological definition in the case of Tonga. What the dating of Lapita sites in Remote Oceania currently supports is a scenario where populations 'exploded out of the Bismarcks, and in a radiocarbon instant, occupied most of its ultimate range' (Sheppard 2010:107). The time period for the production of dentate-stamped pottery has also been generally reduced across the same region, with its demise now appearing to be no later than 2700-2500 cal. BP. The further delineation of the chronology for Lapita in Near Oceania remains to be completed. A major review of dates for that region is the focus of Chapter 9 (Specht and Gosden). The authors radically trim down the numbers of acceptable dates for the region under a chronometric hygiene exercise and also suggest a likely starting date for Lapita in the Bismarcks could be around 3250-3150 cal. BP. Kirch, in his closing commentary (Chapter 23), states that his own soon-to-be-published re-dating of Lapita in the Mussau group will present a similar time range for that part of the Lapita 'homeland' area as well.

Chapters 10 to 17 are situated under the broad category of Lapita society with a particular focus on aspects of the design system and its symbolism (Chapters 12 to 16). A range of comparative techniques and statistical analyses are employed, all of which tease out various aspects of the design system and its application. Results of these analyses also contribute to discussions relating to connectivity, colonisation strategies and chronology. Sand et al. (Chapter 10) revisit the eponymous Site 13, Lapita, following extensive rescue archaeology excavations carried out there in 2015. New dates and new data provide a much fuller picture of the history of the site's occupation over several hundred years. The results highlight the spatial complexity of the site, which is a cautionary tale for Lapita research in general, as summaries of sites and whole islands can be based on only a few test pits that may represent 5 per cent or less of a site overall. Moving east to Vanuatu, Bedford illustrates and discusses Lapita pottery, both vessel form and designs, recovered from the small islands of north-east Malakula (Chapter 11). While the sites clearly date to the colonising phase in this part of Vanuatu, the pottery displays very distinctive regional variation. This leads to questions both of ultimate origins and about the rates of change in any given ceramic sequence. The topics of the influence and origins of the Lapita design system are taken up by Ambrose in Chapter 12. Ambrose, who first illustrated Lapita sherds in a 1959 publication (Golson 1959), up-ends the argument that Lapita motifs influenced design systems on other media. He argues, rather, that plaiting and basketry were more likely to have been dominant and fundamental influences on Oceanic art, including the decoration of Lapita pottery (Chapter 12). Lapita 'faces' have long been argued as being an essential component of Lapita iconography. Spriggs, who first established this (Spriggs 1990), brings a totally new perspective to the debate (Chapter 13). Here he argues that what once were seen as faces are more likely to represent heads and masks, headdresses and skullcaps.

The chapter of LeBlanc et al. (Chapter 14) is the first of three that look at Lapita motifs and design structure in fine detail. LeBlanc et al. shift away from the more traditional element-motif approach by taking a structural approach to analysing the Lapita design system, targeting design density, layout and organisation. Their focus, using this approach, is on assessing how cohesive the Eastern Lapita Province is in terms of ceramic design. Chiu (Chapter 15) provides an update of her ongoing research into Lapita motifs, presenting data on motif similarity among 50 Lapita sites, highlighting social connections that may be traced through the distribution of motifs. Along similar lines of inquiry to those of Chiu, Noury (Chapter 16), who argues that there are two primary distinct sets of Lapita designs or group designs, uses them to track movement across Remote Oceania. Rather than focusing on Lapita design, Leclerc (Chapter 17) discusses the results of the chemical characterisation of Lapita and Post-Lapita ceramics. He argues that the shift from the compositional variability found in Lapita ceramics to a restricted compositional range found in Post-Lapita ceramics is an indication of significant societal change.

Chapters 18 to 21 focus on aspects of Lapita subsistence. The chapters highlight the radically different environments that were encountered by Lapita populations and the range of food sources that were available and exploited. Summerhayes et al. (Chapter 18) provide a detailed study of midden remains from the Early Lapita site of Kamgot and its distinctive intertidal location. Lebot and Sam (Chapter 19) review the availability of indigenous plants in Vanuatu that could have been consumed by Lapita colonists. They suggest that a whole range of plant food sources could potentially have been utilised on first arrival, weakening any argument that settlement in this part of Remote Oceania was hindered by a paucity of locally available flora. Ono et al. (Chapter 20) present a review of Lapita fishing, providing a case study from the small island of Uripiv adjacent to Malakula in Vanuatu and comparing it with all other published Lapita sites. Fish bone remains, fishhooks and capture methods are discussed. Hawkins and Worthy (Chapter 21) review avian extinctions across the Lapita distribution, highlighting the evidence for radical impact that humans had on a range of naïve and vulnerable species. The importance of taphonomic influence in assessing site preservation and thus impact is also highlighted.

Chapter 22 (Shing and Willie) moves beyond the strictly academic focus on Lapita to show how it has been accepted or not in wider educational and community awareness programs. The authors discuss how the long-running archaeology awareness programs in Vanuatu, coordinated by the Vanuatu Cultural Centre, have developed in different and sometimes unexpected directions.

Patrick Kirch first encountered Lapita sites in the field in 1971 on a visit to the Reef Islands in the south-east Solomons, and first excavated them on the island of Futuna in Western Polynesia in 1974. In the final chapter (Chapter 23), he reflects on four decades of Lapita research and what the priorities might be for the future.

#### Inventory of Lapita sites

The first tally of Lapita sites was compiled by Green in 1979. It included a map (1979: Figure 2.2), discussion of site stratigraphy and excavated areas, pottery recovered, a mere 24 radiocarbon dates (1979: Table 2.10) and relevant references (1979:49–57). There were 19 localities and around 60 sites. Kirch and Hunt (1988) followed 10 years later with similar detail and reached a figure of 79 sites. Another 10 years after that, Kirch estimated that there were around 100 sites, and described in some detail 32 of those where information was easily accessible (1997:263–276). He noted that for the remaining two-thirds of the inventory 'very little is known indeed' (Kirch 1997:263).

In 2001 the number of sites had increased to 184, and a full list and accompanying data and references were tabulated (Anderson et al. 2001). The last full tally, although not a full listing, was in 2007 where the number of sites had increased to 229 (Bedford and Sand 2007:8–9). As part of the overall preparation of this volume, we have compiled an updated inventory of all sites where dentate-stamped pottery has been found in the Western Pacific. We follow the historical pattern of such inventories in that we include sites where a dentate-stamped component of decoration is included in the ceramics recovered. There are two exceptions included where Lapita sites are indicated through other evidence. They are a site at Lamap, Malakula, Vanuatu, where a single piece of Talasea obsidian was collected on the surface and the site of Pouebo in New Caledonia where the very distinctive geology of this region has been identified in Lapita sherds found from other sites in New Caledonia (Chiu et al. 2016). Table 1.1 follows earlier formats and includes national site register codes if available, site name, a general description of locality, site extent, contents, the ceramic series in terms of the localised sequence, age in calendrical years BP (gleaned from relevant radiocarbon dates or comparison of design motifs) and key references.

Since the last tally of sites in 2007, we have added 64 sites to the inventory, providing now an overall total of 293 Lapita sites across its distribution. While this appears to be a substantial increase it is not all newly discovered sites. The new total has come about both through the addition of new sites (49) that have been identified since 2007, but also the addition of a number of old sites (15) from the Bismarcks (Kombe and Fissoa) and the south-east Solomons (Taumako and Reefs-Santa Cruz) that managed to slip through previous tallies. One site that was previously incorrectly listed was also removed (Loloma, New Georgia). Totals for each region are now as follows: 19 for New Guinea, 88 for the Bismarcks, 28 for the Solomons, 30 for Vanuatu, 38 for New Caledonia, 51 for Fiji, 34 for Tonga, one for Samoa, three for Wallis (East Uvea) and one for Futuna. We do not include sites in ISEA or the Marianas where dentate-stamped pottery is known or designs in incised or other techniques display complex 'Lapita-like' motifs whose exact relation to Western Pacific Lapita have yet to be established (see Anggraeni et al. 2014; Aoyagi et al. 1993; Azis et al. 2018; Bellwood and Koon 1989; Carson 2014; Chia 2003; Hung 2008; Lape 2000). Similarly, the early pottery sites in the Torres Strait and the undated finds on Lizard Island on Queensland's Great Barrier Reef are not included because of the non-specific

nature of pottery found so far at these sites (see Lilley, Chapter 5, for a discussion of these sites). The new sites that have been identified since 2007 include 17 in New Guinea, two in the Bismarcks, three in the Solomons, five in Vanuatu, three in New Caledonia, seven in Fiji and 11 in Tonga. In most regions, the increase of new sites has been slowly incremental, as per the focus of archaeological research in any particular area, which is to be expected. The most striking addition is the extension of the distribution of Lapita further west along the south coast of New Guinea (David et al. 2011; Skelly et al. 2014). However, in arriving at a total of 16 sites for Caution Bay we have followed the definition used by the excavators, where an archaeological 'site' was defined as a location of cultural materials 15 m or more from its closest neighbour. This recording criteria tends to inflate occupational settlement site numbers in relation to other areas of the Lapita distribution.

Table 1.1. Currently known Lapita sites (293): Location, locale type, extent, content, ceramic series, age and references.

Code	Location name	Locale type	Extent (sq m)	Content	Ceramic series	Age BP	References
North New	Guinea					•	
Saudaun Pr	rovince						
No code	Aitape	unknown	-	surface pottery	?Middle	_	Swadling et al. 1988
Sepik							
RNJ	Tubungbale, Ali Island	coastal flat	-	surface pottery	?Late	-	Terrell and Welsch 1997
South New	Guinea				•		
Gulf Provin	се						
OJS	Hopo, Vailala River	inland ancient dune	_	pottery	Late	2668-2615	Skelly et al. 2014
Caution Bay	у						
ABEN	Bogi 1	coastal midden	1500	full range	Middle to Late	2900-2250	McNiven et al. 2011; David et al. 2011
АВНА	Tanamu 1	coastal midden	260	pottery and obsidian	Middle to Late	2900-2860	David et al. 2011; Mialanes et al. 2016
ABHD	Tanamu 3	coastal midden	-	pottery and obsidian	Late	2750-2350	
AAYN	Moiapu 1	inland low hill	-	pottery and obsidian	Late	2551-2470	David et al. 2011; Mialanes et al. 2016
AAYL	Moiapu 2	Inland low hill	-	pottery and obsidian	Late	2700-2250	Mialanes et al. 2016
AAZD	Moiapu 3	inland low hill	-	pottery and obsidian	Late	2630-2410	David et al. this volume
AAWA	Nese 1	inland low hill	-	pottery and obsidian	Late	2750-2550	McNiven et al. 2012a: Figure 2; Mialanes et al. 2016
ABAO	Edubu 1	inland low hill	300	full range	Late	2650-2350	McNiven et al. 2012b
ABAN	Edubu 2	inland low hill	-	pottery	Late	2850-2150	Mialanes et al. 2016
ABKL	ML 18	coastal midden	-	pottery and obsidian	Late	2850-2650	Mialanes et al. 2016
AAUJ	JA21	inland	-	pottery and obsidian	Late	2800-2550	Mialanes et al. 2016

Code	Location name	Locale type	Extent (sq m)	Content	Ceramic series	Age BP	References
AAIT	MLA14	inland low hill	-	pottery	Late	2750-2500	Mialanes et al. 2016
AAVM	Ataga 1	inland low hill	-	pottery and obsidian	Late	2650-2450	McNiven et al. 2011; Mialanes et al. 2016
-	JD17	coastal midden	-	pottery	Late	-	McNiven et al. 2011: Figure 5n
-	JD10	coastal midden	-	pottery	Late	-	McNiven et al. 2011
ABIV	JD14	coastal midden	-	pottery	Late	-	McNiven et al. 2011; McNiven et al. 2012a: Figure 2
Morobe Pro	ovince						
KLK	Tuam Island, Siassi	coastal flat	2000	pottery	Middle to Late	3150-2750	Lilley 2002
West New	Britain						
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
FOJ	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 and Gosden 1997
No code	Maklo	coastal midden	-	pottery and obsidian	_	-	Swadling 1992
FOR	Maklo	coastal midden	-	pottery and obsidian	_	-	Swadling 1992
FOF	Lolmo	offshore island cave	55	full range	Late	-	Gosden et al. 1994
	Agussak	offshore island	500	pottery and obsidian	-	-	Swadling 1992
Kandrian							
Kandrian ar	<i>т</i> еа						
FLF	Alanglongromo	rock shelter	30	pottery and obsidian	Middle	3060-2750	Summerhayes 2000a
FLK	Aringilo	open site	_	pottery	_	-	Specht 1991a
FLX	Ngaikwo	open site	-	pottery	-	-	Specht 1991a
FYA	Narangpun	open site	_	pottery	-	-	Specht et al. 1992
FFT	Langpun	coastal midden	-	pottery	-	-	Specht et al. 1981
FFS	Auraruo	coastal midden	-	pottery	Middle to Late	-	Summerhayes 2000a
FNT	Kreslo	reef platform	2500	pottery	Middle to Late	-	Specht 1991b
Talasea area	а						
FCN/FCO	Point Mondu	beach	-	pottery and obsidian	_	-	Specht and Torrence 2007a
FCR/FCS	Lagenda plantation	beach	-	pottery obsidian	Early	-	Specht et al. 1988

Code	Location name	Locale type	Extent (sq m)	Content	Ceramic series	Age BP	References
FCT	Lagenda Island	beach	-	pottery	-	-	Specht and Torrence 2007a
FDK	Nariri Beach	beach	-	pottery and obsidian	-	-	Specht and Torrence 2007a
FCH	Nabodu beach	beach	-	pot sherd	-	-	Specht and Torrence 2007a
FRJ	Valahia	beach	-	pottery and obsidian	-	-	Specht and Torrence 2007a
FRI	Walindi	inland spur	_	pottery and obsidian	-	-	Specht and Torrence 2007a
Garua Harboi	Ur						
FEA	Boduna	islet	6000	pottery and obsidian	Early to Middle	2950-2720	Specht and Summerhayes 2007
FEM	Garala Island	offshore island	-	pottery and obsidian	-	-	Specht and Torrence 2007a
FQD	Langu, Binnen Island	offshore island	-	pottery and obsidian	-	-	Specht and Torrence 2007a
Garua Island	•		•				
FSZ	Scoria pit	coastal hill	1600	pottery and obsidian	Middle to Late	2800-2000	Summerhayes 2000a
FA0	unknown	coastal hill	1600	pottery and obsidian	Middle to Late	-	Specht and Torrence 2007a
FQY	Golas Gully	coastal hill	-	pottery and obsidian	-	-	Specht and Torrence 2007a
FAS	unknown	coastal stream	-	sherd	-	-	Specht and Torrence 2007a
FEK	Mt America	mudflats	-	sherd	Early	-	Specht and Torrence 2007a
FEL	unknown	coastal hill	-	pottery and obsidian	Early to Late	-	Specht and Torrence 2007a
FX0	unknown	coastal hill	-	pottery and obsidian	Late	-	Torrence and Stevenson 2000
FYS	unknown	beach	-	pottery	-	-	Specht and Torrence 2007a
FCY	unknown	beach	-	pottery and obsidian	Late	-	Specht and Torrence 2007a
FAAN/D5-7	unknown	coastal plain	-	pottery and obsidian	Early to Late	2700	Specht and Torrence 2007a
FAAJ	unknown	coastal plain	-	pottery and obsidian	-	-	Specht and Torrence 2007a
FAAQ	unknown	inland hill	-	pottery and obsidian	-	-	Specht and Torrence 2007a
Willaumez Pe	eninsula						
FAAH	Numundo plantation	coastal hill	-	pottery and obsidian	-	3200-2960	Torrence et al. 1999
FABH	Numundo plantation	inland hill	-	pottery and obsidian	Late	-	Torrence et al. 1999
FABN	Garu plantation	inland hill	-	surface pottery	-	-	Torrence et al. 1999
FACU	unknown	hill on divide	-	surface pottery	-	-	Specht and Torrence 2007b

Code	Location name	Locale type	Extent (sq m)	Content	Ceramic series	Age BP	References
FACZ	Foothill of Mt Krummel	inland foothill	-	surface pottery	-	-	Specht and Torrence 2007b
FACR	Whiteman range foothills	low spurs	_	surface pottery	Late	2800	Specht and Torrence 2007b
Kombe Coa	st						
FCL	Poi Mission	coastal midden	_	full range	-	3000-2700	Lilley 1991
FPA	Kautaga Island	coastal midden	_	full range	-	3000-2700	Lilley 1991
FPB	Kou Island	midden	_	pottery	_	_	Lilley 1991
FPN	Rudiger Point	midden	-	pottery	_	_	Lilley 1991
FPR	Poi Island	coastal midden	_	pottery	_	_	Lilley 1991
FPE	Kalapia Island	midden	_	pottery	_	_	Lilley 1991
FPF	Kalapia Island	midden	-	pottery	_	_	Lilley 1991
East New B	Britain		'			,	
Duke of You	rks						
Duke of You	rk Island						
SDN	Piuka	coastal midden	-	pottery and obsidian	-	-	White and Harris 1997
SDK	Urkuk	coastal midden	-	pottery		-	White 2007
SDP	Kabilomo	coastal midden	-	pottery and obsidian	-	-	White 2007
SES/SET	Nakukur 1 and 2	coastal midden	75 000?	pottery and obsidian	-	-	White 2007
Mioko						1	
SDQ	Mioko Island	coastal midden	-	pottery	-	-	White 2007
SFB/SFA	Palpal village	coastal midden	30 000	pottery	-	-	White 2007
Kabakon							<u> </u>
SEE	Kabakon Island	coastal midden	8100	full range	Early	3090	White 2007
Utuan	•		· ·	l.		,	
SFF	unknown	coastal midden	-	pottery and obsidian	-	-	White 2007
Кегаwага	<u>'</u>		,	1	,	,	
SEF	unknown	coastal midden	-	pottery and obsidian	-	-	White 2007
Makada	<del> </del>		,				•
SEO	unknown	coastal midden	-	pottery and obsidian	-	-	White 2007
SEP	Uraputput Point	coastal midden	-	pottery and obsidian	-	>2780	White 2007
Watom			<u> </u>	1	1	1	1
	ion and Rakival						
SAC	Kainapirina	coastal midden	-	full range	Middle to Late	2200-2000	Anson et al. 2005

Code	Location name	Locale type	Extent (sq m)	Content	Ceramic series	Age BP	References
SDI	Vunavaung	coastal midden	-	full range	Middle to Late	2800-1800	Anson et al. 2005
SAD	Maravot	coastal midden	-	full range	Middle to Late	2300-1900	Anson et al. 2005
SAU	Vunailau	coastal hill/cliff	-	surface pottery, obsidian	-	-	Specht 1968; Anson pers. comm. 2017
Pomio- Jacqu	inot Bay						
No code	Liton River	river	_	pottery	Late?	_	Leavesley and Sarar 2013
New Ireland					•		,
New Ireland	mainland						
EFY	Lemau	coastal midden	-	pottery, obsidian, stone	_	-	White 1992
EAA	Lossu	coastal midden	-	pottery	-	_	White and Downie 1980
ELS/ELT	Lasigi	coastal midden	-	pottery	Late	2980-2690	Golson 1992
No code	Bagail Kavieng	coastal midden	_	pottery, obsidian	Late?	_	Summerhayes and Leavesley pers. comm.
ENX	Fissoa	coastal midden	_	pottery	Late?	_	White and Murray- Wallace 1996
Lambon Islan	d				•	•	
EPE	Lambon Island	unknown	-	pottery	-	_	White 1996
Anir Islands							
EAQ	Malekolon	coastal midden	10 000	pottery, obsidian, vol. stone	Middle	2900-2300	Summerhayes 2000b
ERA	Kamgot	coastal midden	24 000	full range	Early	3200-2900	Summerhayes 2000b
ERB	Mission	coastal midden	-	pottery, obsidian, vol. stone	Middle	2900-2300	Summerhayes 2000b
No code	Naliu	coastal midden	-	pottery and obsidian	Middle/ Late	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	3300-2770	Kirch 1997; Kirch 2001
ECB	Etakosarai	coastal midden	2700	full range	Early?	3500-3300	Kirch et al. 1991
ЕНВ	Etapakengaroasa	coastal midden	1150	full range	-	3500-2400	Kirch et al. 1991
EKQ	Epakapaka	rock shelter	90	full range	Middle?	3100-2800	Kirch et al. 1991
Emira Island							
EQS	Tamuarawai	coastal flat	22 500	full range	Early	3300-3000	Summerhayes et al. 2010

Code	Location name	Locale type	Extent (sq m)	Content	Ceramic series	Age BP	References
Tanga Island							
ETM	Angkitkita	coastal flat	-	pottery and lithics	Late	2750	Garling 2003; Cath-Garling 2017
Admiralties							
Manus							
GDN	Kohin Cave	cave	-	pottery	-	3900-2450	Kennedy 1981
GLT	Mouk	coastal flat	-	pottery	-	-	McEldowney and Ballard 1991
GFR	Paemasa (Baluan)	coastal flat	-	pottery	-	-	McEldowney and Ballard 1991
SOLOMONS							
North Solom	ions						
Nissan							
DFF	Lebang Halika	rock shelter	-	full range	Early		Spriggs 1991
DGD/2	Unknown	rock shelter	40	full range	Early	>2730	Spriggs 1991
DES	Tarmon	reef flat	5110	pottery and adzes	Late	-	Spriggs 1991
Buka and So	hano						
DJQ	Kessa	reef flat	10 000	pottery, obsidian, vol. stone, adzes	Middle	-	Wickler 2001
DAF	Sohano	reef flat	39 000	pottery, obsidian, vol. stone, adzes	Middle	-	Wickler 2001
DAA	Sohano	rock shelter	-	pottery and obsidian	Middle	-	Wickler 2001
DKC	Sohano Primary School	rock shelter	100	pottery	Middle	-	Wickler 2001
New Georgia	a						
Roviana Lago	oon						
Site 97	Honiavasa, Honiavasa Island	intertidal	1800	pottery	Late	-	Felgate 2001, 2003
Site 96	Nusa Roviana (Zoroka)	intertidal	1750	pottery	Late	-	Felgate 2001, 2003
Kolombanga	га						
No code	Poitete, Kolombangara Island	intertidal	-	surface sherds	Late	-	Summerhayes and Scales 2005
SE SOLOMON	IS				•		-
Taumako		,					
SE-DF-19	Te Ana Tavatava, Lakao Island	rock shelter	-	full range	Late	2950-2350	Leach and Davidson 2008
Reef-Santa (	_			•	•		
SE-RF-2	Nenumbo, Te Motu Taibä, Ngaua, Reef Islands	coastal midden	1000	full range	Middle	3185-2639	Green 1976; Sheppard et al. 2015

Code	Location name	Locale type	Extent (sq m)	Content	Ceramic series	Age BP	References
SE-RF-4	Te Motu Taibä, Ngaua, Reef Islands	coastal beach	_	surface scatter pottery	-	_	Green 1979
SE-RF-5	Laki, Te Motu Taibä, Ngaua, Reef Islands	surface	_	surface pottery	_	_	Doherty 2007
SE-RF-6	Ngamanie, Lomlom, Reef Islands	coastal midden	2400	pottery and midden, obsidian, chert	Middle	2910-2470	Green 1976; Green and Jones 2007
SE-RF-7	Te Motu Taibä, Ngaua, Reef Islands	small surface scatter	_	pottery	_	_	Green 1979
SE-RF-8	Fenualoa, Reef Islands	surface scatter	2400	pottery	_	_	Green 1979
SE-SZ-8	Nanggu, Nendö [traditional name for Santa Cruz] Santa Cruz	coastal midden	14 000	pottery and midden, obsidian, chert	Middle	2920-2729	Green 1976; Green et al. 2008; Sheppard et al. 2015
SE-SZ-10	Tömotu Noi Island, Santa Cruz	coastal midden	_	surface collected mainly plain, 1 piece of obsidian	_	_	Green 1976; Green et al. 2008
SE-SZ-23	Malu, Tömotu Neo Island, Santa Cruz	coastal midden	3000	pottery, chert, obsidian	Middle	-	McCoy and Cleghorn 1988
SE-SZ-33	Mdailu, Santa Cruz	coastal midden	_	pottery	_	_	McCoy and Cleghorn 1988
SE-SZ-42	Luenemba River, Santa Cruz	ceramics in stream cut	_	pottery	_	_	Green et al. 2008
SE-SZ-45	Bianga Mepala, Wia Island, Santa Cruz	coastal midden	10 000	pottery, obsidian, adze	Middle	-	McCoy and Cleghorn 1988
SE-SZ-50	Bonati, Tömotu Noi, Santa Cruz	surface	_	pottery	Middle?	_	Green et al. 2008
Vanikoro						_	
No code	Ngae	-	-	pottery	-	-	Noury and Galipaud 2011
No code	Milu	-	-	pottery	-	-	Noury and Galipaud 2011
No code	Lavaka	-	-	pottery	-	-	Noury and Galipaud 2011
Tikopia	•						
TK 4	Kiki	coastal midden	4500	full range	Late	2900-2800	Kirch and Yen 1982; Kirch and Swift 2017
VANUATU							
Mota Lava, B	1	1	1	1		T	
No code	Nerenugman	back beach	3000	full range	Middle to Late	-	Bedford and Spriggs 2014

Code	Location name	Locale type	Extent (sq m)	Content	Ceramic series	Age BP	References
Santo				'		•	
No code	Big Bay Matantas	back beach	3500	pottery and obsidian	Late	2900-2800	Bedford and Spriggs 2008
No code	Port Olry	back beach	3000	pottery and obsidian	Middle to Late	2900-2800	Bedford and Spriggs 2008; Bedford fieldnotes
No code	Shograon	back beach	_	pottery	Middle to Late	2500	Galipaud 2010; Noury and Galipaud 2011
Aore							
No code	Makué	back beach	-	full range	Early to Late	3150-2950	Galipaud and Swete Kelly 2007; Galipaud et al. 2014
No code	west coast	back beach	-	surface pottery	-	-	Galipaud 2001
No code	SDA Mission	back beach	-	surface pottery	-	-	Galipaud 2001; Noury and Galipaud 2011
Tutuba							
No code	east coast	back beach	-	surface pottery	-	-	Galipaud 2001
No code	south-east coast	back beach	-	surface pottery	-	-	Galipaud 2001
Mavea		•				<u>'</u>	
No code	north-east coast	coastal flat	-	pottery	-	-	Galipaud and Vienne 2005
No code	east coast	coastal flat	-	pottery	-	-	Galipaud and Vienne 2005; Bedford and Galipaud 2010
Malo							
MA 8-20	Batuni-urunga	coastal flat	>3000	full range	Middle	3000-2800	Hedrick n.d.
MA 8-38	Avunatari	coastal flat	>3000	full range	Middle	3000-2800	Galipaud 1998
MA 8-39	Naone	coastal flat	>3000	full range	Middle	3000-2800	Hedrick n.d.
MA 8-40	Atanoasao	coastal flat	-	full range	Middle	3000-2800	Galipaud 1998; Bedford and Galipaud 2010
No code	Avnambulu	coastal flat	-	pottery	-		Hedrick 1971
No code	Alawara	coastal flat	-		_		Hedrick 1971
Malakula							
No code	Malua Bay	back beach	10-100	full range	Late	2800-2600	Bedford 2006a
No code	Uripiv Island	back beach	2000	full range	Late	2850-2600	Bedford 2003; Horrocks and Bedford 2005; Bedford et al. 2011; Kinaston et al. 2014
No code	Wala Island	back beach	1000	full range	Late	2800-2600	Bedford 2003
No code	Atchin Island	back beach	2000	full range	Late	2800-2600	Bedford 2003
No code	Vao Island	back beach	3000	full range	Middle to Late	3000-2600	Bedford 2003, 2006b; Bedford et al. 2011
No code	Lamap	surface	-	Talasea obsidian	-	-	Bedford fieldnotes
No code	Port Stanley	surface	-	dentate sherd	Middle		Bedford fieldnotes

Code	Location name	Locale type	Extent (sq m)	Content	Ceramic series	Age BP	References
Efate				•		1	
No code	Teouma	back beach promontory	2000	full range	Early to Late	3000-2800	Bedford et al. 2010; Petchey et al. 2014, 2015
No code	Teouma west	surface	_	dentate sherd	Early	3000-2800	Shing and Willie this volume
No code	Erueti	back beach	1000-2000	full range	Middle to Late	3000-2800	Garanger 1972; Bedford and Spriggs 2014
Erromango							
No code	Ifo	coastal flat	1000-2000	full range	Middle to Late	3000-2800	Bedford 2006a
No code	Ponamla	back beach	100-500	full range	Late	2800	Bedford et al. 1998; Bedford 2006a
Aneityum							
No code	Anelguhuat	back beach	3000	full range	Late	2800	Bedford et al. 2016
NEW CALEDON	NIA						
North coast		T				T	T
NKM001	Воігга	coastal flat	10 000	full range	Early to Late	3000-2750	Galipaud 1988
NAR098	Arama	coastal flat	-	pottery	? Late	-	Galipaud 1988
NPL001	Pam	mangrove	-	pottery	? Late	-	Sand et al. 2001
West coast					,		
WK0027	Oundjo	coastal flat	-	pottery	?Late	-	Baret et al. 2000
WK0013	Lapita	coastal flat	500	full range	Early to Late	-	Gifford and Shutler 1956
WK0013A	Lapita	coastal flat	20 000	full range	Early to Late	3000-2750	Sand 1998a; Sand et al. this volume
WK0013B	Lapita	coastal flat	250	full range	Early to Late	3000-2750	Sand 1998a
WK0014	Podtanean	coastal flat	-	pot sherd	?Late	-	Gifford and Shutler 1956
WK0028	Koniene	coastal flat	-	pottery	?Late	-	Sand 1996
WK0141	Podtanean	coastal flat	-	pottery	?Late	-	Galipaud 1988
WNP003	Franco	coastal sand	-	pot sherd	?Late	-	Galipaud 1988
WNP038	Pindai	coastal sand	-	pottery	?Late	-	Sand 1996
WBR001	Nessadiou	coastal sand	-	full range	Early to Late	3000-2750	Sand 1996
WBR009	île Verte	coastal dune	-	pot sherd	?Late	-	Frimigacci and Siorat 1988
WBR006	Temroc	coastal flat	-	pottery	?Late	-	Frimigacci 1975
WPT055	Naïa	coastal flat	-	pottery	?Late	-	Smart n.d.
WPT055	Naïa	coastal flat	-	pottery	?Early to Late	-	Frimigacci 1975
WPT148	Ongoué	coastal flat	10 000	pottery	?Early to Late	-	Sand 1994
V8	Vavouto	coastal flat	10 000	full range	Early to Late	2900-2750	Sand 2010
GD 2006-042	Deva	coastal flat	no estimate	pottery	?Late	-	Barp et al. 2006

Code	Location name	Locale type	Extent (sq m)	Content	Ceramic series	Age BP	References
WBR040	Deva	coastal flat	no estimate	pot sherd	Late	2750	Sand et al. 2013
South coast				•	•		
SNA019	Anse Vata	coastal flat	-	pot sherd	?Late	-	Frimigacci 1975
Ile des Pines							
KV0001	Kapume	coastal dune	-	pot sherd	?Late	-	Golson 1962
KV0003	St Maurice- Vatcha	coastal dune	18 000	full range	Early to Late	2950-2700	Sand 1999
KGJ004	Gadji (1)	coastal flat	_	pot sherd	?Late		Frimigacci 1975
East coast							
EHI050	Dowalwoue	coastal sand	-	pot sherd	?Late	-	Gifford and Shutler 1956
SUN014	Witpwe	coastal flat	-	pot sherd	Late	-	Sand and Ouetcho 1992
STY007	Pwekina	coastal flat	5000	pottery	Late	-	Sand and Ouetcho 1992
STY015	Goro	coastal flat	>10 000	full range	Early to Late	-	Sand et al. 2000
No code	Kouaoua	coastal flat	no estimate	pottery	?Late	-	Sand 2010
No code	Pouebo	unknown	no estimate	pottery	Early	-	Chiu et al. 2016
Loyalty Island	ds			•	•		
LP0020	Patho	coastal flat	>2000	full range	?Early to Late	-	Sémah and Galipaud 1992
LP0023	Kurin	coastal flat	>5000	full range	Early to Late	-	Sand et al. 2002
LL1002	Hnaeo	coastal dune	-	full range	Early to Late	-	Sand et al. 1999b
LWT008	Hnajoisisi	rock shelter	50	full range	Late	2800-2750	Sand 1998b
LWT054	Keny	coastal dune	>20 000	full range	?Early to Late	2950-2750	Sand 1998b
LUV081	Wadrilla	coastal sand	-	pottery		-	Sand et al. 1999b
LTD825	Namara	coastal beach	_	pottery	-	_	Sand et al. 2010
FIJI ISLANDS		1	I	1			
Western Islar	nds						
Y2-25	Yalobi, Waya Island	coastal flat	-	full range	Late	2800-2400	Hunt et al. 1999
K27-11	Tavua, Tavua Island	coastal flat	-	full range	Late	2850-2750	Cochrane et al. 2011
Southern Isla		1	1	ı	1	1	1
No code	Unlocalised, Vatulele Island	unknown	-	pottery	Late	-	Ewin 1995
BQ178A	Nadawa, Beqa Island	coastal flat	-	pottery	Late	-	Crosby 1988
BQ175A	Kulu, Beqa Island	coastal flat	<1000	full range	Late	-	Anderson and Clark 1999
93A	Melabe, Beqa Island	coastal flat	-	pottery	Late	-	Crosby 1988
BQ132	Beqa, Beqa Island	coastal flat	-	pottery	Late	-	Crosby 1988

Code	Location name	Locale type	Extent (sq m)	Content	Ceramic series	Age BP	References
UG1-2	Ugaga, Ugaga Island	islet	100-500	full range	Late	2800-2300	Clark 2009
No code	Nalotu Water Tank, Kadavu Island	inland, creek	-	pottery	Late	-	Burley and Balenaivalu 2012
No code	Tiliva Resort, Kadavu Island	back beach	500	pottery	Late	-	Burley and Balenaivalu 2012
No code	Waisomo Makawa, Ono Island	coastal flat	-	pottery	Late	-	Burley and Balenaivalu 2012
Viti Levu Islar	nd						
VL1/1	Natunuku	coastal dune	1000	full range	Middle to Late	2900-2300	Davidson et al. 1990
VL16/81	Yanuca	rock shelter	1000-3000	full range	Middle to Late	-	Hunt 1980
No code	Qara-I-Oso II	inland shelter	150	pot sherd	Late	-	Anderson et al. 2000
VL15/1	Natadola Bay		-	pot sherd	Late	-	Palmer 1966
VL16/22	Naqarai	coastal dune	-	pottery	Late	-	Hunt 1980
VL16/1	Sigatoka	coastal dune	_	pottery	Late	2550-2700	Petchey 1995; Burley and Connaughton 2010
No code	Bourewa	sandspit/ beach	12 500	full range	Middle to Late	3000-2700	Nunn 2007
No code	Rove Beach	coastal flat	-	pottery	Late	-	Kumar et al. 2004
No code	Waikereira Bay	coastal flat	_	surface sherds	Late	-	Nunn 2007
No code	Jugendars Farm Bay	coastal flat	_	surface sherds	Late	-	Nunn 2007
No code	Tomato Patch Bay	coastal flat	-	surface sherds	Late	-	Nunn 2007
No code	Qoqo Island	tombolo	5000	full range	Middle to Late	2850-2650	Nunn et al. 2006
No code	Navutulevu	coastal flat	-	surface sherds	-	-	Kumar et al. 2004
No code	Qaqaruku	rock shelter	_	surface sherds	Late	-	Kumar 2002
Central Island	<del>, , , , , , , , , , , , , , , , , , , </del>			_	1		
No code	Saulevu, Moturiki Island	islet	-	pottery	Late	-	Nunn 1999
No code	Naitabale, Moturiki Island	back beach	300	full range	Middle to Late	2900-2700	Nunn et al. 2007
VL21/5	Naigani, Naigani Island	coastal flat	1000-3000	full range	Middle	2900-2700	Best 2002; Irwin et al. 2011
No code	Vagariki, Yadua Island	coastal flat	-	pottery	Late	2600	Nunn et al. 2005
No code	Taviya, Ovalau Island	coastal flat	-	surface sherds	-	-	Nunn et al. 2004
Northern Islai	1						
No code	Yacata, Yacata Island	unknown	_	pottery	Late	-	Parke 2000

Code	Location name	Locale type	Extent (sq m)	Content	Ceramic series	Age BP	References
No code	Vaturekuka, Vanua Levu Island	riverbank	-	pottery and lithics	Late	-	Parke 2000
No code	Nukubalavu, Vanua Levu Island	back beach	500	full range	Late	2800	Jones pers. comm.
No code	Vorovoro, Vorovoro Island	tombolo	500	full range	Middle	3000	Burley 2012
No code	Ligaulevu, Mali Island	coastal flat	-	pottery	Late	-	Burley notes
No code	Kavewa, Kavewa Island	coastal flat	750	full range	Middle	-	Burley et al. this volume
CIK006	Naselala, Cikobia-i-Ra Island	coastal flat	-	full range	Late	2800-2400	Sand et al. 1999a
Lau Group							
No code	Susui, Bureniwaqa	coastal flat	-	pottery	Late	-	Nunn and Matararaba 2000
No code	Cikobia-i-Lau, Cikobia-i-Lau Island	coastal flat	-	pottery	Late	-	Nunn and Matararaba 2000
No code	Votua, Mago Island	coastal flat	1000-3000	full range	Late	2800-2600	Clark 2009
No code	Sovanibeka, Mago Island	rock shelter	30	pottery	Late	2700-2300	Clark and Hope 1997
101/7/197	Lakeba, Lakeba Island	rock shelter	80	full range	Middle to Late	2800-2700	Best 1984
101/7/196	Qaranipuqa- Wakea, Lakeba Island	coastal flat	15 000	full range	Middle to Late	2800-2700	Best 1984
No code	Namuka, Namuka Island	unknown	-	pottery	-	-	Best pers. comm.
No code	Komo, Komo Island	unknown	_	pottery	_	-	Best pers. comm.
No code	Unlocalised (2), Moce Island	unknown	-	pottery	_	-	Best 1984
No code	Fulaga, Fulaga Island	unknown	_	pottery	-	-	Best 1984
To31/1	Udu, Totoya Island	coastal flat	-	pottery	Late	-	Clark and Cole 1997
To31/2	Lawaki Levu, Totoya Island	coastal flat	-	pottery	Late	-	Clark and Cole 1997
To31/3	Waroke, Totoya Island	coastal flat	-	pottery	Late	-	Clark and Cole 1997
No code	Ono-i-Lau (3), Oni-i-Lau Island	coastal flat	-	pottery	-	-	Best 1984
No code	Na Masimasi, Nayau Island	coastal flat	-	full range	Late	-	O'Day et al. 2004
No code	Vulago, Nayau Island	coastal flat	-	full range	Late	-	O'Day et al. 2004

Code	Location name	Locale type	Extent (sq m)	Content	Ceramic series	Age BP	References
TONGA							
Tongatapu							
To.2/TO-NK-2	Nukuleka	coastal flat	2500	full range	Middle/ Late	2850-2650	Poulsen 1987; Burley et al. 2010, 2012
No code	Hopoate	coastal flat	2000	full range	Middle/ Late	2850-2650	Burley 2016
No code	Talasiu	back beach ridge	450	full range	Late	2700-2650	Clark et al. 2015
No code	Tatakamotonga	back beach ridge	-	pottery	Late	-	Burley et al. 2001
No code	Captain Cook Landing	back beach ridge	-	pottery	Late	-	Burley notes
No code	Tinopai	coastal flat	_	pottery	Late	2750-2650	Burley notes
No code	Kauvai 1	coastal flat	-	pottery	?Middle/ Late	-	Burley notes
No code	Kauvai 2	back beach ridge	500	full range	Late	2750-2650	Burley notes
No code	Nukuhetulu	back beach ridge	-	pottery	Late	-	Burley et al. 2001
No code	Kanatea Island	back beach ridge	-	pottery	Late	-	Burley notes
To.5/TO-Pe-5	Ha'ateiho	back beach ridge	-	full range	Late	2800-2650	Poulsen 1987; Burley et al. 2001
No code	Uluaki (Golf Course)	back beach ridge	750	full range	Late	2750-2650	Burley notes
To.3 & 4/ TO-Pe-3	Pea, Taufa'ahau Road	coastal flat	2150	full range	Late	2750-2650	Poulsen 1987
To.1	Pea School Yard	coastal flat	4300	full range	Late	2800-2650	Poulsen 1987
To.6/TO-Pe-6	Tufu Mahina	back beach ridge	1500	full range	Late	2600-2300	Poulsen 1987
TO-Pe-28	Vaiola Hospital	back beach ridge	-	pottery	Late	-	Spennemann 1989; Burley et al. 2001
No code	Hofoa	back beach ridge	-	pottery	Late	-	Burley notes
TO-Nu-2	Fire Station	coastal flat	2500	full range	Late	2750-2650	Spennemann 1989; Burley et al. 2001
TO-Nu-12	Unga Road	coastal flat	-	pottery	Late	-	Spennemann 1989; Burley et al. 2001
TO-Nu-8	Mangaia Mound	coastal flat	500	full range	Late	2750-2650	Poulsen 1987
No code	Puke	back beach ridge	500	full range	Late	2700-2600	Burley notes
No code	Sia'atoutai Flats	coastal flat	-	pottery	Late	-	Burley notes
Ha'apai Group							
No code	Fakatafenga, Tungua	coastal flat	500	pottery	Late	-	Burley et al. 1999
No code	Ha'afeva, Mele Havea	coastal flat	750	pottery	Late	-	Burley et al. 1999
No code	Vaipuna, 'Uiha	coastal flat	750	pottery	Late	2800-2500	Burley et al. 1999
No code	Tongoleleka, Lifuka	back beach ridge	1500	full range	Late	2800-2600	Burley et al. 1999

Code	Location name	Locale type	Extent (sq m)	Content	Ceramic series	Age BP	References
No code	Faleloa, Foa	back beach ridge	750	full range	Late	2650-2550	Burley et al. 1999
No code	Pukotala, Ha'ano	back beach ridge	100	pottery	Late	2700-2600	Burley et al. 1999
Vava'u Grou	ıρ						
No code	Vuna, Pangaimotu Island	coastal dune	1500	full range	Late	2750-2600	Burley 2007; Burley and Connaughton 2007
No code	Ofu, Ofu Island	coastal flat	1500	full range	Late	2750-2600	Burley 2007; Burley and Connaughton 2007
No code	'Otea, Kapa Island	back beach ridge	800	full range	Late	2750-2600	Burley 2007; Burley and Connaughton 2007
No code	Falevai, Kapa Island	back beach ridge	500	full range	Late	2700-2600	Burley 2007; Burley and Connaughton 2007
No code	Mafana, Mafana Island	coastal flat	400	pottery	Late	-	Burley 2007
Niuatoputap	วบ						
NT-90	Lolokoka	coastal flat	3000	pottery	Late	2750-2600	Kirch 1988
SAMOA							
Upolu				,			
No code	Mulifanua	submerged beach	6000	pottery	?Early	2750	Dickinson and Green 1998
WALLIS							
MU021	Utuleve	coastal sand	10 000	full range	Early to Late	2800-2750	Sand 1998c
MU046	Utuleve	coastal flat	1000	full range	Early to Late	-	Frimigacci 2000
HI012	Utupoa	coastal flat	-	pottery	Late	-	Frimigacci 2000
FUTUNA			•	•	*	•	
SI001	Asipani	coastal flat	>3000	full range	Late	-	Sand 1993

Source: See references throughout table.

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