

Abstract

The study of marginal Caribbean islands and economies remains understated within the wider context of the discipline of Caribbean historical archaeology. Research has tended to focus mainly upon the study of the dominant site form of the colonial period in the region: the industrial sugar plantation, and mainly upon the larger islands. This contribution moves the scale of analysis to the smaller Caribbean island landscape as a whole entity, and attempts to frame an archaeological biography of Bequia in the St Vincent Grenadines over the last three hundred or so years. Further, we consider how more peripheral economic strategies that developed there over this period impacted upon this island landscape, how they are recognised archaeologically and what they can tell us about wider social and economic processes. Using landscape archaeology survey allied to GIS and historical cartographic analysis, the study presented here charts the emergence and development of a distinctive insular Caribbean socio-economic identity very much on the margins.

Key words: Bequia; Landscape Archaeology; Historical mapping; Island Archaeology.

The context of the study

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4 This contribution aims to frame the cultural, economic and social biography
5 of a small Caribbean island backwater (Bequia, St Vincent Grenadines)
6 over the last three hundred years or so through the use of a diverse range
7 of landscape archaeology methodologies. In this paper, the island itself
8 becomes the single unit of archaeological analysis rather than the site (cf
9 Curet 2004). The size of the island enables the landscape archaeologist,
10 through the study of historical mapping rectified with GIS, as well as on-
11 the-ground survey, to build up a picture of changing island landscape
12 organisation over a period that embraces early French colonial settlement,
13 English/British domination, the development and decline of a small-scale
14 sugar estate economy, and finally the emergence, in the post-
15 emancipation period, of a distinctive maritime-focused culture that
16 pervades the character of Bequia to this day. The observations made
17 here will offer a contrast to the heavily plantation-dominated studies
18 prevalent in Caribbean historical archaeology focusing as it does on an
19 island that is both physically and economically on the margins, a place
20 where the sugar industry was never greatly significant.
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36 The island of Bequia (pronounced 'beck-way'; the toponym derives
37 from the Arawak language word *Becouya* and means 'island of the clouds';
38 Dick 1977) is the most northernmost of the St Vincent Grenadine islands
39 (figure 1). The island roughly describes a back-to-front 'C'-shape; on the
40 west is the main anchorage of Admiralty Bay where most settlement s
41 focused (figure 2). On the south the airstrip is built upon reclaimed land at
42 Paget Farm; further eastwards are the fishing villages of La Pompe and
43 Friendship. Running up the eastern, windward (Atlantic) coast settlement
44 is less dense, and the prevailing north-easterly Trade Winds make for
45 rougher seas here. The northern end of the island is heavily forested with
46 limited settlement.
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58 **Figure 1:** location of the island of Bequia in the greater Caribbean.
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Figure 2: map of sites mentioned in the text.

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4 Bequia, along with the other Grenadine islands, is relatively arid.
5 Rainfall on the larger Windward Islands is much heavier due to the
6 accumulation of cloud on the windward (east-facing) slopes and their
7 higher elevations. The windward slopes of St Vincent receive alone twice
8 as much precipitation as Bequia, whose annual values are c. 1650 mm,
9 and often even then this is variable. There are a number of wells on
10 Bequia used to access groundwater, but are only effective on a domestic
11 scale; the infamous 'Bequia Drought' of 1957-9 effectively ended the
12 island's cotton industry, for example (Adams 1976; Price 1988, p. 19).
13 Access to water and its effective management is therefore a key factor in
14 human settlement and cultural development on Bequia, as we shall see.
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26 Three key historical factors have impacted upon the formation of the
27 socio-economic and cultural identity of Bequia in the colonial period, and
28 these factors have profound implications for understanding the shaping of
29 the island's archaeological landscape. Firstly, sugar monoculture was only
30 briefly successful here. At their zenith, between 1765 and 1838, nine sugar
31 'estates' (the term is used locally rather than 'plantation') were active. They
32 totalled approximately 1214 hectares, which is significant given the overall
33 area of the island is 1497 hectares (St Vincent Government 1868) but
34 much of this was hilly and forested land. As such, the actual area of land
35 available for sugar cultivation would have been limited by these factors.
36 Bequia therefore existed on the margins of the vast Windward Island
37 industrial monocultural sugar system, and the industry was never
38 profitable, rather there tended to be a greater focus upon additional
39 smaller-scale and marginal agricultural production of crops such as cotton,
40 indigo and copra. The archaeological visibility and spatial disposition of the
41 Bequia sugar estate, it would be expected, should differ considerably from
42 the larger plantations elsewhere in the Windwards. This is a subject to
43 which we shall return.
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Secondly, the first European settlement here was by the French, and this was initially a relatively small-scale and unstructured colonial encounter. This was followed within sixty or so years by a more concerted and structured English effort that effected a far-reaching re-organisation of the island-scape which is evidenced through the study of historical mapping sources, as we shall see. It should also be noted that other groups also played a significant part in the creation and maintenance of a very distinctive local creolised island culture (cf Finneran 2013): indigenous 'island' Caribs, 'Black' Caribs and African slaves all played varied roles in the emergence of a diverse population base. A study of the Bequia island landscape therefore offers scope for teasing out this complex ethnic history and cultural interplay.

Thirdly, the economic and cultural response to the end of slavery in Bequia (i.e. after 1833) also provokes interest. This is a crucial 'hinge point' in the Anglophone Caribbean, and one that has recently begun to attract archaeological recognition (Armstrong 2010). Newly freed slaves moved from the estates and formed their own settlements, squatting on marginal land and developing their own economic strategies. From this period a distinctive maritime culture emerged, based upon fishing, whaling, ship building and seamanship (Finneran 2016), placing Bequia within the continuum of the dynamic (but still poorly-understood) Afro-Caribbean/Afro-American maritime cultural florescence in the Americas (cf Harris 2014a; 2014b). This 'turn' from land to sea during this period is also visible in the reorganisation of space on the island landscape, with an emphasis upon settlement type and location, especially on the south side of the island around Friendship Bay, as we shall see.

This paper will argue that these social and economic twists and turns in the story of Bequia are traceable in the fabric of the island landscape and can be recovered through a multi-disciplinary landscape archaeology approach, and this is the key contention that informed the overall research design. The fieldwork that underpins this contribution was undertaken in 2014 and 2015 and involved field-walking, standing building

1 recording and limited excavation. Subsequent desk-based work focused
2 upon the collation of a series of relevant historical documentation and
3 cartographic resources to produce an enhanced geo-referenced set of
4 GIS-based historical mapping data (and with reference to the work of
5 Degraff and Baldwin 2013), which could be matched against the picture
6 yielded by archaeological survey and by oral history research. The
7 research design, although 'landscape archaeological' in orientation
8 therefore aimed to be integrated and multi-disciplinary, and focused upon
9 a 'whole island' approach rather than on seeing discrete sites in isolation.
10 One key historical resource that has been used to underpin the
11 archaeological research described herein has been the use of historical
12 cartography (cf Aston 1997 for an overview).
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23 The utility of historical cartographic sources in Caribbean island
24 settings has been recently recognised by archaeologists (cf Armstrong et
25 al. 2008; Clements 1997; Delle 1989; Hicks 2007; Higman 1986; Leech
26 2007). Doug Armstrong's work at Trent's Plantation in north-western
27 Barbados (Armstrong 2015), to cite just one application, indicates the
28 possibilities of such an approach. Geo-referencing a very early estate
29 survey against modern cartography he was able to reveal a great deal
30 about the earliest phase of Barbados' plantation history, locating sites not
31 found on later mapping. For the purposes of this study, seven historical
32 maps have been utilised (table i) spanning the period from c.1763 to 1861.
33 These have been used to delineate landscape change across the three
34 key phases noted above, viz: (1) the French colonial period (c. AD1700-
35 1763); (2) the English sugar plantation developmental period (c. AD1763-
36 1833) and (3) the post-emancipation period (AD 1833-c.1900). In order to
37 understand why these three broad phases have been defined, a more
38 detailed elucidation of the settlement history of Bequia is required.
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54 **Table i:** Historical cartographic sources for Bequia
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57 **The settlement history of Bequia**

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1 The pre-contact ethnohistory of the wider St Vincent-Grenadines chain can
2 be inferred from linguistic, oral history and, above all, archaeological
3 sources (Bright 2011, pp. 71ff; Callaghan 2007). On Bequia itself, pre-
4 contact sites are few, but the site at Park on the east coast merits special
5 mention as it is particularly rich, although threatened by coastal erosion.
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7 According to local Vincentian tradition (Gullick 1985, p. 43) Columbus
8 sighted the islands on January 22 1498 on his third voyage (this is
9 historically inaccurate as he did not commence this voyage until May 30
10 1498). The inhabitants of these islands at this time would have been a
11 recently arrived people who had come from the region of the Guyanas and
12 who had intermarried with the peoples they found here. Columbus refers to
13 them as 'Caribs', but more accurately they are now referred to by their own
14 ethnic names, Kaliphuna or Kalinago (Allaire 2013). Historically and
15 popularly these peoples are referred to as 'Island' or 'Red Caribs' (Davis
16 and Goodwin 1990). The Spanish did not settle the islands, however, and
17 the 'Island Caribs' of St Vincent (which they referred to as Hairoun) were
18 able to retain a degree of freedom.
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32 From the 1660s St Vincent (along with Dominica) was guaranteed
33 by the French and English as an 'Island Carib' territory and no attempt was
34 made by the European powers to settle either island (Taylor 2012, p. 31).
35 The rights of the 'Island Caribs' were reaffirmed under the terms of the
36 1748 Treaty of Aix la Chapelle that ended the Austrian War of Succession
37 (and which also had ramifications for European rivalries in the Americas as
38 a whole) but all the while *ad hoc* attempts at settling St Vincent were
39 undertaken by the French. We know from historical sources that when the
40 French first arrived on St Vincent from Martinico (Martinique) in 1719,
41 there were no accounts of Bequia being inhabited at all (Shephard 2013
42 ed., p. 18), and it was believed that the 'Island Caribs' only ever visited
43 Bequia to obtain wood for building canoes (Price 1988, p. 7).
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56 It is against this background of nascent and rather tentative colonial
57 contact between French pioneers and 'Island Caribs' that a new ethnic
58 factor enters the equation. According to local tradition, a slaver *en route* to
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Barbados was wrecked off Bequia and the surviving Africans came ashore to St Vincent and intermarried with local 'Island Caribs' to form in time a new ethnic group: the so-called 'Black Caribs' (Newman 2014). Sir William Young (1724-1788), Governor of Dominica from 1770, had a hand in dealing with the 'Black Carib' insurrection on St Vincent in 1772. He wrote (1795, pp. 6-7) that the 'Black Caribs' originated from slaves 'from the cargo of an African slave ship carried from the Bite of Benine for Barbados and wrecked about the year 1675 on the coast of Bequia'. Allegedly, Young reports, the Caribs at first enslaved them, but soon the slaves turned on their captors. George Davidson, writing in 1787 (1787, p. 17) states that the 'Black Caribs originally sprang from the cargo of a Guinea ship...wrecked on one of the Grenadilloes'. The French writer Jean Barbot (1746, p. 64) merely reports them as runaways (maroons) who came to the Grenadines in canoes from other islands.

From now on the colonial-era fortunes of Bequia and its larger neighbour St Vincent are entwined. In spite of its status as a protected Carib reserve, the French gradually established settlements in southern and leeward St Vincent, and a small number of French turtle fishermen and farmers (likely engaged in cotton, tobacco and indigo production) and their families are believed to have settled in Bequia from the early 1720s (Shephard 2013 ed., p. 20 ff). On March 3rd 1762 the island of Grenada was captured by the English and, along with Tobago, Dominica, St Vincent and the Grenadines, was ceded to the British under the terms of the Treaty of Paris of 1763. A number of sugar planters arrived in Bequia from St Kitts, Antigua and Barbados. In addition, fifteen individuals from the Dutch island of Saba (located in the Leeward Islands to the north) were granted land on Bequia (Melvill 1765). This is, as we shall see, an important historical detail. While the other incomers had to *purchase* land, the families from Saba, it appears, were *granted* land in response to their plea, perhaps in recognition of their abilities in water management techniques and maritime technology (Price 1934).

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This did not signal an end to social upheaval. The British put down an insurrection by Caribs on St Vincent in 1772, and in 1779 the islands were seized again by the French only to be returned under the terms of the Treaty of Versailles in 1783. The remnant French population found ready allies in the shape of the 'Black Caribs', and in 1795 war broke out again in response to British encroachment on the Carib lands (Kim 2013). The British eventually overcame the Caribs, killing the charismatic military leader of the 'Black Caribs', 'Chief' Joseph Chatoyer. At the end of 1796 over 4500 'Black Caribs' had been taken to the island of Balliceaux, off the east coast of Bequia, where they were held prior to deportation in March 1797 to the island of Roatan in the Honduras (Taylor 2012 *passim*). Descendants of these exiled 'Black Caribs' still live in Belize today as Garifuna communities and retain a strong cultural identification with St. Vincent, and Balliceaux in particular as a *lieu de mémoire* of great significance (Gonzales 1986).

The scene was now set for a faster pace of economic development based upon sugar cultivation. In 1776 there were only four sugar estates in Bequia, established by the newcomers from St Kitts, and twenty-two smallholdings primarily cultivating cotton, which had been likely initially introduced by French growers from the southern Grenadine island of Carriacou. Small amounts of cocoa and indigo were also likely still in production by a remnant French population (Rhodes House Library 1949). During this period sugar production was only just economically viable; pioneer English settlers such as the aristocrat Sir William Young, Charles Warner and other descendants focused their efforts on this crop, alongside the more marginal French smallholders (Shephard 2013 ed., p. 214). Into the late eighteenth century, only the Spring Estate on the east coast managed to produce in excess of 100 tons of sugar per annum, which was the limit for economic viability. The other eight sugar estates now established in the late eighteenth century failed to meet these targets (in comparison, the admittedly much larger and significantly more fertile island of St Vincent was producing on average c. 16000 tons of sugar per annum: Adams 1976, p. 14).

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2 Given this background, it is not surprising that slave Emancipation
3 in 1833 and the end of apprenticeship in 1838 saw the almost complete
4 collapse of the sugar economy in Bequia, although many other external
5 global factors contributed to the downturn. In turn this triggered a sharp
6 population decline as many former slaves emigrated to Trinidad where
7 work was more readily available and wages were higher. In 1854
8 Government records put total sugar production on Bequia as standing at
9 just over 103 tons, representing a fall of 72 percent from the 1828 level (St
10 Vincent Government 1854). By 1931 only five acres of land in all of Bequia
11 was under sugar cultivation (St Vincent Government 1931). Freedom also
12 had an implication for landscape organisation on the Island. Former slaves
13 left the estates and squatted on marginal lands between Paget Farm and
14 Friendship Estates, which then became the genesis of settlements at
15 Belmont, La Pompe, Lower Bay and Paget Farm (Price 1988, pp. 11-12).
16 Small-scale cultivation of cassava, maize and pigeon peas etc. became
17 their main economic focus.
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33 Soon fishing became an important adjunct to the marginal
34 agricultural activity. Former planters, now looking for another means of
35 production and income, invested in boats and fishing infrastructure, and a
36 new maritime cultural response developed against the backdrop of the
37 collapse of the sugar estates. Price (1988, p. 14) refers to the former
38 planters' new role as the 'Schooner Aristocracy' but he is not quite correct
39 in this assumption. William Wallace Jr. (who introduced whaling into
40 Bequia) was not a former planter, he was the son of a former estate
41 manager turned planter when the estate owner went bankrupt, although in
42 relative island terms he would have been regarded as being wealthy
43 (Nicola Redway pers. comm.). In time the skillsets acquired by the many of
44 the former Bequia slaves made them sought-after seamen, especially
45 when the Yankee whalers (i.e. whale boats sailing from the north-eastern
46 New England ports such as Nantucket), hunting humpback whales in the
47 waters of the eastern Caribbean came visiting the island in the winter
48 months to resupply and repair.
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Out of necessity, a new Bequia-based whaling industry emerged in the last quarter of the 19th century, hand in hand with the emergence of a significant ship building industry. In 1881, 30.5 percent of the male labour force, or 157 individuals, were engaged in maritime activities (Adams 1971). According to an early nineteenth-century source (St Vincent Government 1822) we learn that a slave named Louis, aged 10, a ‘negro from the Reform Estate in Admiralty Bay’, was ‘taken from the estate by an American Whaler Sloop called the *Mason's Daughter* by Capt. Brown March 4th 1821’. Soon more former slaves engaged with this industry, and by 1868 whale oil exports from St. Vincent (mainly from Yankee whaleship activities), ranked fourth behind sugar, rum and arrowroot starch and ahead of cotton and molasses (St Vincent Government 1868). Whales were hunted, killed and processed (flensed) in specific shoreside locations (tryworks) mainly around Friendship Bay. Whale meat was a source of protein, and also the carcass yielded oil for light and heat. Before the use of refrigerated ships in the 1960s, whale meat was either “corned” (a generic term for salting), “dove” (a local term for whale meat steeped in its own oil and herbs) or sold off fresh at the shoreside. Whaling still takes place annually on Bequia; a quota of four whales per year is permitted under the International Whaling Commission’s terms for ‘Aboriginal Subsistence Whaling’ even though the activity has no great antiquity, and historical records confirm the industry was established in 1875 and closely influenced by earlier contact with, and experience of, Yankee whalers, and their techniques (see Finneran 2016 for a nautical archaeological analysis of the ‘creolised’ material culture of Bequia).

The foregoing historical outline, with its heavy economic emphasis, has set the scene for the landscape archaeology analysis. Three key distinctive phases, each with their own set of economic implications can be defined: (1) early French settlement with small-scale agricultural and industrial emphasis, (2) the British ‘sugar’ phase and (3) the post-emancipation collapse and development of an overt emphasis upon maritime activity. We will now address each phase in turn using a

1 combination of archaeological survey data, historical mapping/GIS
2 analysis and augmented in part by oral and documentary history sources
3 as well, noting how each successive economic shift is mirrored in the
4 organisation of the small island landscape.
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8 **The early colonial landscape** 9

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12 The archaeology of French colonial archaeology in the Caribbean has
13 been hitherto a relatively neglected field, although is gaining in significance
14 as scholars seek to tease out the material culture implications of
15 domination by the different European colonial powers (Kelly 2004; 2009;
16 2013). In this corner of the Caribbean at least, the French story is often
17 neglected. The contributions of Father Raymond Breton (1609-1679), for
18 example, who lived among the Caribs on Dominica and produced a Carib-
19 French Dictionary, Jean-Baptiste du Tertre (1610-1687) and Jean-Baptiste
20 Labat (1663-1738) are often forgotten by Anglophone scholarship (Dobie
21 2010, p. 132). It is crucial to recognise that early attempts at French
22 colonisation here in the southern Windwards at least were relatively small-
23 scale and informal and as such the archaeological trace of their impact will
24 be ephemeral (Hazelwood and Steele 2003). A study of the archaeology of
25 the early 'frontier' phase of French colonisation in the southern Windwards
26 would be an interesting counterpoint to the better-defined picture from
27 islands such as Guadeloupe and Martinique, for example, where we see a
28 structured military and indeed religious intervention (eg Lenik 2011). Here
29 the picture is more opportunistic and ad hoc.
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48 Early French historical accounts of Bequia tend to emphasise the
49 natural resources of the island, and therefore mirror the economic
50 preoccupations of these earliest European settlers. The following passage,
51 for example, list the forest resources available: 'Becouya, éloigné de deux
52 lieues de Saint-Vincent...(dont) la terre est assez bonne, morneuse porte
53 quantité de bois de courbaril, bois d'inde, et bois de chandelle' (unnamed
54 1713 account quoted by Hatzenberger 2003, p. 223, note 81). These
55 plants are all the source of woods, varnish and dyes, so it appears that the
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1 economic focus of the early French settlers was settling upon those
2 resources. Indigo processing (from the plant *Indigofera tinctoria*) was an
3 important component of early French Caribbean island industries. Many
4 examples of *indigoterries* have been recorded on Guadeloupe and
5 Martinique where they often occupy more marginal landscapes unsuited to
6 sugar production (Delpuech 2001; Rousseau and Vrager 2004). This
7 would have been an ideal industry for a small colonial population on an
8 island such as Bequia.

16 Indigo works are archaeologically easily recognised, and without the
17 material evidence of cotton, tobacco or other small-scale agricultural
18 production of the early French colonial phases in the Caribbean, is the
19 most visible. These complexes comprise three tanks or vats, which are
20 placed together. Freshly-cut plants from the nearby fields were placed in
21 the steeper tank (the first and largest) and covered with water and
22 pounded until fermented, at which point the liquid was drained off into the
23 beating vat where it was stirred and agitated. The liquid was then drained
24 away and the residue tapped into a third vat where it was further refined,
25 sieved and bagged. The residue in the bags was then dried until hard
26 (Beeson 1964).

38 A recent survey of the indigo works on Bequia by Margaret Bradford
39 (2007) has identified three locations on the north-eastern coast of the
40 island where this industry took place, on the sites of the later Hope (Ance
41 Hyby area), Spring (Ance Fauvelle) and Park (Ance Caribe) estates and
42 these could broadly date to the mid-18th century (figure 3; marked as '+').
43 The Park complex was particularly well preserved, and the stone tanks
44 retained their mortar lining, but the site was irreparably ruined through
45 recent development (2015). The processing of the raw material was very
46 water intensive, and as such demanded a dependable supply of water
47 (which often in Bequia would not have been guaranteed). The vats at Park,
48 for example, are sited next to a watercourse, and an area of culverted
49 channelling (figure 4, left), but there is no indication of any further water
50 management or storage strategies here. The placing of these sites on the

1 corner of the island that receives the most rain and which is well served by
2 many natural watercourses would therefore be a sensible precaution. Even
3 so, the industrial production of indigo would not have been possible here
4 (and certainly not on the scale as is witnessed on Guadeloupe and
5 Martinique). According to local informants, later, into the nineteenth and
6 twentieth century, these indigo vats were renovated and reused for
7 Arrowroot (*Maranta arundinacea*) processing (a source of starch for
8 culinary use, and a major twentieth century export crop in the St Vincent
9 Grenadines; Martin 1967).

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18 **Figure 3:** Reconstruction of early French settlement sites on Bequia based
19 upon geo-referencing of 1764 and 1765 maps and additional material from
20 Degraff and Baldwin 2013, p. 32. Key = X indicates houses shown on 1764
21 and 1765 mapping; + indicates the three identified indigo processing sites.

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25 For further identifications see text below.

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29 **Figure 4:** left: detail of large indigo vat at Park (note irregular coursing of
30 masonry); and right large lime kiln structure at Pagets Farm. Scales one
31 metre.
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36 Apart from indigo works (and toponyms), the archaeological
37 evidence for the formative French phase of colonisation of Bequia is
38 sparse. Local tradition posits that the large limekiln complex at Pagets
39 Farm was an eighteenth-century French colonial construction (and it is so
40 marked on Degraff and Baldwin's map, 2013, p. 32). This is a structure of
41 considerable size (c. 5 metres in height; 3 metres diameter; figure four,
42 right) and is built of coursed stone. Raw material for lime making would
43 have been sourced from the nearby coral reefs. The size of the structure
44 suggests an almost industrial production of lime; this could not have been
45 related to a large programme of French colonial building activity, because
46 as figure 3 indicates, there was very little. The feature must date to the
47 British period when, as we shall see, large-scale estate and fortification
48 building and road construction began to take place. Lime was also used
49 for clarifying sugar syrup, but again there is no evidence of large-scale
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sugar cultivation during the brief period of French colonisation. Additionally this kiln is morphologically quite unlike those described, for example, by Verrand and Vidal from Martinique (2004), so the balance of probability is that this feature is a later (English) construction.

The 'Old Fort' estate house at Mount Pleasant is thought to be a French-period colonial construction (according to the present owner, Ottmar Schaedle, pers. comm. 2014) owing to the fact that the house itself was marked upon Jeffrey's 1775 map (surveyed in 1763 and effectively showing the extent of French settlement at the time of the English takeover; see table i). This map does show a structure (circle in square, possibly indicating a fortification rather than a house) in the general area of the present building, but if we geo-reference this map against a modern map (figure 3, site 'E'), it is clear that the Old Fort is not the building indicated. This identification is supported by the fact that the structure marked on the 1775 map is located by a very distinctive curve in the road, which is still preserved in the modern road alignment. No evidence of this building was located during survey.

Remaining with the historic mapping data, two sources can be used to demonstrate the extent of French settlement on Bequia in the years prior to the English takeover, the Privateers Bay map of 1764 and the Jeffrey's map of 1775 based upon a 1763 survey (table i). Figure 3 indicates the geo-referenced positions of the houses shown on these maps as well as the likely French indigo works mapped by Degraff and Baldwin. Only one structure is visible on the 1764 map, "a plantation" (which correlates with land Lot 16 belonging to M. Aquart on the later Byres' map, figure 5, and later incorporated as part of the Belmont plantation; shown as 'A' in figure 3). In contrast, Jeffery's map, surveyed a year later, shows much heavier settlement around the northern end of Privateers Bay/Admiralty Bay. At least seven houses are indicated here (shown as 'B' in figure 3) and these are presumably buildings which would later become part of the Belmont, Union and Reform Estates.

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2 On the eastern side of the island three structures are identified. The
3 house visible to the north-east above Ance Fauvelle *could* be the original
4 estate house of the nascent Spring Estate ('C'). The later estate house at
5 Spring is further westwards; this is a subject to which we shall return.
6 North-eastwards of this house, including the area around Ance Caribe
7 (Park), is the locality of what would later become the Industry Estate. Ance
8 Caribe is also the site of small-scale indigo production *possibly* dating from
9 the French colonial period (house indicated 'D'). *The Crop Report of 1776*
10 (Rhodes House Library 1949) indicates that 400 lbs of indigo were
11 produced by Peter Brocette owner of Lot 10 on Byres' later map (figure 5)
12 and listed under "land claimed as privately owned".
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22 At least three houses can be identified in Grande Ance (now Lower
23 Bay; 'F'), a location that appears to have been cleared and possibly also
24 fenced, but no subsequent plantation or estate developed here. Local
25 historian Nicola Redway (pers. comm.) suggests that this might be the site
26 of a cotton estate later attached to a house known as 'Retreat'. There are
27 also several distinct cleared areas shown on the Jeffrey's Map in the south
28 west, in what is now La Pompe, Friendship and Paget Farm. The
29 indications derived from an analysis of historical mapping and ground
30 truthing suggest that French settlement on Bequia was piecemeal and
31 based upon small-scale cultivation and limited indigo processing that
32 would likely be constrained by the availability of water. Now the British
33 arrive, and start to delineate the boundaries of estates. As we shall see,
34 the boundaries of these new sugar estates often fossilise earlier French
35 settlement patterns.
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47 48 49 **The growth of the sugar landscape.** 50 51

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54 **Figure 5:** geo-referenced sites and settlements from Byres' 1776/1794
55 maps. For key see text below.
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In the intervening thirteen years between Jeffrey's and Byres' maps much development had taken place and boundaries between estates more formally delineated as the British formalised the ordering of their new island landscape. The plots of land shown on Byres' map (figure 5) thus accord very closely to the later estate bounds shown in the 1830 estate map (figure 6). At the south-west of the island, a French Settler Labord, retained his lands (plot 1) and these boundaries match almost exactly the later delineation of the boundaries of Paget Farm Estate (figure 6). At the west, marked (A) on Byres' map, is a portion of Crown land, approx. five acres which as the legend tells us is marked out for fortification. Eight other sites marked B – I reflect similar areas of Crown Land set aside “for the defence of the island”, totalling 38 acres in all. These plots of land have implications for our discussion on fortification construction below. Eastwards of (A), Byres' Map shows a series of eleven small plots set aside to be granted to “poor white settlers”, which in the later 1830 estates map are shown as ‘small properties’, and which are identified with buildings ‘A’ on the Jeffrey's Map. A total of twenty lots (totalling 268 Hectares) were identified by the Commissioners in July 1771 as being suitable to be granted to “Poor Settlers”, i.e. unsuitable for the cultivation of sugar (Pownall 1771).

Sir William Young's lands form the boundaries of the later Friendship Estate and Hope Estate (plots 2 and 5). Those owned by St Hillaire (3), Warner (4) and possibly two additional plots were to ultimately form the basis of Mount Pleasant Estate in 1830, still then in hands of Warner's devisees. Land ascribed to “Gelleneau” (elsewhere Gelliseau) (15) matches somewhat the borders of the later Belmont Estate boundaries, and in the very south-eastern corner of the allocation is a structure (X) which should be identified with building ‘E’ on figure three (although it appears to be shown within a sub-plot, so is perhaps a fortification). Augier and Chevalier's plot (14) matches almost exactly the bounds of the future Union Estate, whilst the later boundaries of Reform (later known as Ocar – a presumed anglicisation of “Aquart”) match Aquart's plot (13) along with small patches of lots set aside for granting to

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poor settlers, lots 18 and 19. These plots are also abutted by Crown land set aside for fortifications.

The later Spring Estate grows out of Henville's plots 8 and 7, as well as un-allotted land and Mr Estancan's plot 6 and Marianne Estancan's plot 9. Building 'C' on figure three is still visible within Hanville's plot (7) now at the end of a long driveway (marked Y); this site, the probable earlier estate house, was located during field survey in 2014. It is sited atop a densely wooded hill, with views eastwards and open to sea breezes. Remains here include a series of low walls and the associated pottery and roof tile indicates a late eighteenth century occupation. Industry Plantation later develops from the lands of Fornease (12), Brocette (10) and Servant (11) and un-allotted plots to the north. The probable indigo works shown as building 'D' on figure 3 is within Brocette's allocation (marked Z). Byres' map effectively captures the moment when Bequia shifts from a small-scale economy based upon indigo, cotton and cocoa cultivation of the French period to an attempt to organise it into a smaller version of any other Windward sugar island with the delineation of larger plots whose boundaries form the basis of the later larger estate units (figure 6).

Figure 6: estate boundaries c. 1830 (adapted from Adams 1971).

Figure 6 is based upon Adams' analysis (Adams 1971) of the estate boundaries and derived from plans held by the St Vincent Government. These have been geo-referenced onto a modern map. Now the boundaries of the estates start to make sense in terms of the local topography; they follow for the most part the courses of rivulets and in some cases the alignment of the main roads. Some boundaries converge on the high point of the island. Adams has marked the location of the actual estate houses themselves (note the shift of the estate house at Spring to its present position), but nothing else. Whilst this map does not allow any more insight into the spatial structure of the 19th century sugar estates on Bequia, other map sources allied to on-ground archaeological survey can help in this regard.

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Dovers' 1812 map of the anchorage is a useful source that shows the disposition of two plantations: Belmont and Reform (figure 7). Both are spatially contrasting; the Reform estate house is shown alongside 'the only windmill in Bequia'. Eastwards, further away and behind the 'town of Bequia' (which itself only consist of a row of buildings along the shore, two wharves and a burying ground and chapel to the south) are three lines of 'Negro Houses' totalling 24 dwellings. It is clear from the plan that the town houses consist of a house at the front and likely smaller slaves quarters behind. The map also appears to show a portion of the Union plantation site; the base of a cattle mill is indicated to the south of the 'carriage road to Windward', which if we refer back to the Estate boundary map (figure six) we see forms the boundary between Reform and Union. In contrast, at Belmont to the south we have a more extensive estate house, a cattle mill and 26 dwellings 'Negro Houses' aligned in two rows, and closer to the estate house itself. The site of the probable slave village at Spring Estate was located through surface survey in 2014 and identified from large concentrations of low-fired earthenware. This village, located next to an extensive watercourse, is hidden well out of site of the Spring estate house.

Figure 7: Annotated portion of the 1812 Admiralty Chart indicating disposition of the Reform and Belmont plantations.

Table ii summarises the main archaeological visibility of the Bequia estates as observed by fieldwork and archaeological recording in 2014-15. Some are more complete than others. It is necessary however to amplify description of a crucial feature of plantation technology here, namely the use of cisterns and other features of water management that begin to develop with the sugar estates. Stone culverting and revetments have been located at several locations around Spring plantation. These features probably relate to management of water for domestic and livestock consumption, and are not associated with the earlier French indigo works.

Table ii: Archaeological visibility of the Bequia sugar estates

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4 'Old Fort', now a hotel, is the much-developed Mount Pleasant
5 estate house. Built of faced stone, the wooden frames and joists in the
6 building are constructed from hard Greenheart wood (*Chlorocardium*
7 *rodie*), imported from Guyana, and which is resistant against termite
8 attack (unlike the cedar used elsewhere on the island). Special attention
9 attaches to the extensive casemate and cistern complex, which is
10 exceptionally well preserved (similar ruined structures are noted at
11 Friendship and Belmont, though are not so extensive). The cisterns
12 comprise a series of two barrel-vaulted tanks from which the hotel still
13 draws water. Rainwater is captured on the sloping casemates and ducted
14 into the cisterns. Internally the cisterns are brick vaulted, and it may be
15 inferred the bricks would likely have been imported as ships' ballast from
16 Europe. The owner of the site estimates that the whole cistern complex
17 has a capacity of about 150 cubic metres (figure 8), and has also
18 suggested that their technology is French in origin, but for reasons outlined
19 above regarding the identification of 'Old Fort'/Mount Pleasant on the
20 Jeffreys Map and the Byres Map (figures 3 and 4) this cannot be the case.
21 A further intriguing detail, already alluded to earlier in the paper, also
22 militates against an early French origin for this water technology.
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40 **Figure 8:** plans and elevations of the cisterns at Old Fort, Mount Pleasant,
41 Bequia. The photograph is looking northwards, i.e. from the elevation line
42 A-B on the plan with the casemate in the foreground; the two-stored
43 (largely reconstructed) estate house and base of the cattle mill are in the
44 background. Scale in photograph is one metre.
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51 Analogues to these structures have been recorded hundreds of
52 kilometres to the north in the Leewards at Palmetto Point on the Dutch
53 island Saba by Ryan Espersen (2013). As noted above, a number of
54 families from Saba were offered land on Bequia at the beginning of the
55 British colonial period. The Old Fort (and the other cisterns) bear very
56 close similarity, in terms of overall design and size, to those recorded by
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Espersen at Palmetto Point (and indeed similar structures are noted also on St Eustatius). This link in technological transfer is further archaeologically evidenced by a stone bread oven at Old Fort, which shows similarities to similar forms investigated by Espersen at Palmetto Point. The standing remains at Old Fort therefore bear witness to technological interchange between different European Caribbean island communities in the late eighteenth century.

Plantation archaeology is of course the dominant motif of Caribbean historical archaeology studies, and Bequia offers a useful corrective to the spatial study of large industrial agro-complexes of, for example, Barbados (eg Handler and Lange 1978), Cuba (eg Singleton 2001) or Jamaica (eg Delle 1999) *inter alia*. On Bequia compact sugar estates developed, limited by the availability of level and unforested land. They were also never financially secure, as is noted above. Unlike Barbados, the planters did not invest (apart from a single instance at Reform) in expensive windmill technology; a basic cattle mill sufficed. It is hard to gauge the nature of the ancillary industrial buildings such as the boiling houses and storage areas, but the extant and well-preserved structures at Spring are small in comparison with those on Barbados, for example (pers. obs.). Only the cistern complexes, vital for the running of plantations in this more arid environment, betray any evidence of infrastructural development on a larger scale. The actual estate houses (where we can identify them) are also smaller in comparison with plantation houses on other larger islands, apart from the relatively large example (apparently with three wings), depicted in the 1816 map at Belmont, of which not a trace survives.

Even a marginal island such as Bequia would have demanded some means of military protection. Segments of land retained for fortification construction are noted on both the Byres' map and the estates map (Figures 5 and 6). In comparison to the larger Caribbean islands, Bequia is not greatly blessed with extensive fortification systems, and the few military structures visible today bear witness to local innovation on form rather than being built to a set and imposed European plan (Finneran

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2013; Lofffield 2001). Local adaptation in this area of the Caribbean was key. Architecture responded to local needs. At Fort Charlotte on St Vincent, for example, cannon point seaward *and* landward reflecting the need to defend the island from a French seaward attack as well as from landward guerrilla actions by the 'Island Caribs'.

On Bequia, when the French were finally defeated, the Governor of Grenada and all the ceded territories, Robert Melvill, requested a plan be drawn up to defend Bequia with strategically sited batteries (Melvill 1771). Captain Harry Gordon, an American officer, estimated that five batteries could be constructed at a cost of £1990, and would be sited to command bays that could be the targets of seaborne invasion. Admiralty Bay on the west of the island was to be protected by three batteries: two at the north and one to the south of the Bay (Gordon 1771). On the south coast a battery at St Hillaire covered 'South Bay' (Friendship). A further battery was sited on 'North East Bay'.

In order to anticipate the construction of the forts, parcels of Crown Land were set aside, and their locations mapped by Byres in 1776 (figure 5). Byres' map indicates nine areas apportioned for fortifications, but it is believed not all of these were developed as military sites. It is clear that plot 'G' on Byres' map corresponds to the site of the present Hamilton Fort. The present structure was assessed in 2015; it is obvious that none of the remaining standing architecture at the site belongs to the eighteenth century, being a relatively modern low curved stone mortared wall encompassing a viewpoint. Vague earthwork indications to the west of the flat central area suggest trace of an earlier bulwark. The present ordnance on display at the site (which is managed as a historic site by St Vincent and Grenadines National Trust) comprises five 18 pounder cannons, one of which displays a *fleur de lys* forward of the vent, meaning it is a French piece dating from the pre-Revolutionary period. They do not match the inventory proposed by Gordon and presumably represent an inchoate collection of ordnance brought together over the years to enhance the visitor experience to the site.

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2 Other forts or battery sites are found on the island are found in
3 varying states of preservation; none is even of the scale of the admittedly
4 small fort at Hamilton. Byres' plot 'A' (figure 4) is the location of a small
5 ruined fort behind the plantation complex at Paget Farm (this could either
6 be the battery planned as Smith's or Rice's point by Gordon, the
7 identification is not clear). On Byres' plot 'F' are the remains of another
8 battery, although locally this is suggested as being the site of an earlier
9 French battery. It may have been planned to construct another fort at
10 Spring (marked by Byres as plot 'D'). Above Friendship Bay is the site of
11 Byres' plot 'B'. This fortification, known as St Hilaire covered Friendship, or
12 South Bay. The American sailing writer Douglas Pyle, mentions an
13 occasion in 1971 when helping at a launch of a newly built wooden boat
14 *Skywave* in Friendship Bay, a sinker (weight) for a new mooring was
15 required. The assembled launching party fetched a cannon from the ruins
16 of the fortifications at St Hilaire and used it instead: 'the rusty cannon was
17 a relic ...of slavery and oppression. Now it was being recalled from
18 oblivion and given a useful function' (Pyle 1998: 81). Ambivalent attitudes
19 to the past are a common theme in Caribbean history.
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36 Other sites associated with military activity include a small lookout
37 point above Park beach, at the northern end of the former Industry Estate
38 and facing eastwards over the sea. This could be possibly the site of a
39 signal station, but which also may have been used as a dumping ground
40 for refuse, including pottery and glass. Surface survey here has also
41 uncovered clay pipe bowls and stems, military buttons and musket balls,
42 and pottery shards some with simple incisions, generally indicative of
43 Troumassoid affinity. This site at (corresponding with Point de Diable on
44 the Byres map) is not marked on any historical mapping and nor was it
45 surveyed by Degraff and Baldwin.
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56 **The post-Emancipation period: Bequia turns to the sea**

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An Admiralty Chart dating to 1861 covers the same area as Dovers' 1812 map gives some indication as to the post-Emancipation (i.e. after 1833) re-organisation of the Bequia landscape. Neither the windmill nor the lines of 'negro houses' at Reform or Belmont are now indicated, and the battery at Hamilton is marked as a ruin. Belmont is indicated as still being under sugar cane, although the estate house and part of the works are described as ruined, Reform is likewise indicated. Friendship is denoted as "flat pasture" with a group of "huts" indicated at the west end of Friendship Bay where the fishing village of Friendship exists today.

Northwestwards the area around Lower Bay is shown as 'small holdings' on the 1830 estate map (figure 6); this reflects the very fragmentary patterning of plots shown here on Byres' Map (figure 5; parcels of land between 1 and 2). Clearly the very rocky nature of the landscape here meant it was unsuitable for sugar cultivation. This area subsequently became the focus of squatting by former slaves in the post Emancipation period, when their economy re-orientated towards garden cultivation and fishing and other maritime activities. Similarly, the marginal land to the west of the Reform plantation (Hamilton) became a focus for freed slave settlement after 1833, and additional ex-slave settlements developed on the marginal small holding land at Lower bay and La Pompe. The main fishing and whaling settlement at Friendship Bay has historically been the home of more mixed-race populations.

In the nineteenth century, the post-emancipation period also saw the beginnings of larger scale patterns of movement and migration between the Caribbean islands and the wider region. Historical archaeology is well placed to pick up on these movements. For example, Barbadian migration to Brazil in the late nineteenth and early twentieth century was provoked by economic needs. The immigrants brought in their own distinctive vernacular forms of architecture (Chattel Houses) that can still be seen in Brazil today (Rocha and Alleyne 2012). In the 1860s a significant number of 'poor white' Barbadians settled first in St Vincent and then in Bequia, solely in Mount Pleasant, on the site of the old cane fields

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of the estate. Their descendants still live here today and they retain a number of distinctive 'poor white' Barbadian surnames, although there are no traces of Barbadian vernacular architecture here. It is locally remarked that even in such a small island as Bequia there have historically existed ethnically distinct and differentiated settlements, although this is not a picture noted today.

Figure 9: the post-emancipation reorganisation of the Bequia landscape showing nineteenth-twentieth century boat building sites (marked with an 'X'), whaling sites (*) and post-emancipation settlement and industrial zones (+).

After 1833 many of the main estate houses fell into ruin. Houses at Friendship and Mount Pleasant were converted into hotels in the 20th century. Houses at Reform and Union disappeared under the urban encroachment of Port Elizabeth, and those at Belmont, Paget Farm, Hope and Industry all disappeared. The last estate house at Spring was developed as the Firefly Hotel in the 1960s, but the associated plantation structures are still visible. After the collapse of the sugar industry attempts were made to re-orientate production in the late nineteenth century. Copra production (i.e. dried coconut flesh) was geared towards the production of oil. The Copra industry at Spring is evidenced by the construction of two brick-floored drying areas, as well as the still visible regularly planted coconut palms along open land by the shore. Whaling and boatbuilding also became an important activity in the post-Emancipation period; the archaeological implications of this industry are considered elsewhere (Finneran 2016) but a few points may be made in regards to the impact upon the landscape of this economic re-orientation.

Figure 10: Post-emancipation plantation economy and material culture, Spring Estate. Left: re-used sugar boiling copper; right brick-lined Copra drying floor. The bricks would appear to date in general from the late nineteenth century (scale one metre).

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Limited excavation and survey was undertaken on two small shore whaling sites (tryworks), on Petit Nevis island and at Friendship Bay in 2015. At Petit Nevis, the recently abandoned whaling works were planned and the extant structures analysed. Owing to the presence of Ramsay firebricks from the Hebburn Factory, Northumberland that closed in 1925, we are able to date the Petit Nevis furnace to the late 19th/early 20th century (Penmorfa 2017). In addition, a former sugar boiling pot, reused for trying the whale blubber, was recorded. This reuse of material culture is also noted at Speightstown in Barbados where a similar small-scale shore whaling economy developed in the nineteenth century, and is another part of the archaeological recognition of the economic shift in the post-Emancipation period (Finneran 2016). At Friendship Bay, a smaller and earlier shore-based tryworks was also recorded and excavated (dating allegedly to the 1860s; Herman Belmar, pers. comm.). In both cases the structures are markedly similar, comprising brick built platform with bases for two large copper trying pots and ventilation through the back. The historic locations of tryworks and whaling processing sites are indicated on figure nine (based upon sources from the Bequia Boat Museum, Pyle 1988 and Herman Belmar, pers. comm.).

Bequia was also known for its wooden boatbuilding heritage, an activity that has now virtually died out on the island. These boats are found in two scales: inshore boats and larger trading vessels (schooners). The smaller double-ended fishing boats are rigged with small sprit sails (there are no tall trees on the island suitable for masts; local boatbuilding has adapted accordingly to its environment and uses a two-part bamboo sprit sail mast). These are highly manoeuvrable and appear to be based upon the small boats dropped from the larger Yankee whalers; double-ended boats are easier to beach in the swells of the windward coast in particular. These boats were built by hand and without plans, often using skillsets handed down through families by oral transmission and used for longer-distance inter-island trading. It is in fact tempting to suggest, certainly in the case of the larger schooner designs built for inter-island trade, that

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Georgian wooden shipbuilding knowledge and techniques are fossilised here (Finneran 2016).

We are fortunate that the American sailing writer Douglas Pyle was able to document the final throes of the Bequia shipbuilding industry, an industry which grew directly within the context of the post-Emancipation reordering of the Island economic landscape (Pyle 1998, p. 85-93). The ritual and social implications of the communal boat building process and launch (which Pyle documents in a number of Caribbean islands at the end of the 1960s) are fascinating. In Carriacou, a Grenadine island to the south of Bequia, Pyle (1998, p. 26) reports on the sacrifice of a cockerel to a boat prior to launch and before the arrival of the local Catholic priest. The creole concept is therefore also embodied in the traditional boat building process as well as other cultural factors.

Conclusion

This paper has presented an outline of landscape change in a small and marginal Caribbean island setting over a three hundred year period as evidenced by historical map analysis, oral history research, documentary study and archaeological fieldwork. We have defined three different timescales, and can perceive, using a combination of the evidence bases outlined above, distinctive shifts in settlement patterning and land use over these periods. Bequia, a small island on the margins of the Caribbean sugar monocultural system, evolved its own economic identity, from an ephemeral French 'frontier-style' colonial imprint (cf Silliman 2005) to a more ordered attempt at landscape management by the English and then finally agricultural collapse, and a shifting socio-economic emphasis from the land to the sea. The archaeological indications of these marginal Caribbean island industries (indigo and arrowroot processing, copra processing, whaling and boatbuilding) have been discussed, and they too present a contrast to the dominant narrative of the sugar plantation as the centre of Caribbean economic activity (Shepherd 2002).

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There are doubtless many other Caribbean island stories to be discovered using a similar combination of methodologies as are outlined here. A number of recent archaeological landscape studies have shown us the importance of historical cartography in Caribbean combined with powerful tools such as GIS allied to on-ground survey. Recently published work from Montserrat (which of course has its own unique issues regarding accessibility owing to volcanic activity) has shown us the exciting possibilities suggested by the use of LIDAR, a technique well established in regional archaeological surveys in Europe and America (Opitz et al. 2015). Even without these high-technology solutions, open access GIS programmes can be used to help build a sustainable and local approach to landscape survey and site mapping, and add greatly to our knowledge of historical landscape change.

Within the wider Caribbean thematic context, a refocusing upon the archaeology of marginal and non-sugar-related industries, especially in small-island settings, is overdue. For example the salt industries of the Turks and Caicos offer ample scope for an island landscape archaeology study, such is their scale and complexity (Kennedy 2007). On the small Dutch island of Saba, Ryan Espersen's doctoral research work (2017) has cast light upon the possibilities of an archaeological study of class and poverty in a small scale island setting, very much in the same context as Matthew Reilly's stimulating and provocative work in a larger island setting of Barbados (eg Reilly 2016). John Chenoweth's study of the archaeology of a Quaker plantation site on Jost Van Dyke in the British Virgin Islands (Chenoweth 2014) belongs in a similar continuum to that of Laurie Wilkie and Paul Farnsworth's work on the Clifton plantation on New Providence in the Bahamas (Farnsworth 2000). These offer examples of adaptation of planter economies to small island settings, a counterpoint to the archaeological visibility of the more rigidly controlled and structured plantation landscapes of Jamaica, for example (Delle 1999) or Tobago (Clements 1997). Further, nautical and maritime archaeology studies offer ample scope for focusing on human social and cultural interaction with the

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sea at a time of great economic and social change (Finneran 2016; Smith 2016).

In summary, and reflecting on the project aims stated at the outset, the project has achieved a number of goals. Firstly, at the most basic level, it has demonstrated the archaeological potential of a hitherto understudied small Caribbean island, and in so doing has offered a counter point to the better-studied larger islands to the north. For the first time, we have put the historical archaeology of Bequia on the map, literally and figuratively, and this is important in a region such as the Grenadines and St Vincent that has seen extensive research on pre-contact material, but a relative lack of attention paid to the cultural processes of the colonial period. Second it is hoped that the application of a multi-faceted landscape archaeology approach, drawing heavily upon historical mapping, has been shown to be highly effective in a small-scale island setting, and has enabled us to chart profound socio-economic change in the fabric of the island landscape over a three hundred year period. Finally, and perhaps most importantly, it is hoped that the possibilities of the study of the archaeology of Caribbean island life on the margins--and beyond the sugar plantation--can be clearly recognised.

Acknowledgements

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1 and Belmont plantations for survey and planning. Comments by two
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6 respectfully dedicated to the memory of her late mother Mrs. Patricia
7 Mitchell, local historian and heritage champion of Bequia.
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List of Figures/Tables

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7 Figure 2: map of sites mentioned in the text.
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11 Figure 3: Reconstruction of early French settlement sites on Bequia based
12 upon geo-referencing of 1764 and 1765 maps and additional material from
13 Degraff and Baldwin 2013, p. 32. Key = X indicates houses shown on 1764
14 and 1765 mapping; + indicates the three identified indigo processing sites.
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16 For further identifications see text below.
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22 Figure 4: left: detail of large indigo vat at Park (note irregular coursing of
23 masonry; this feature was largely destroyed during development in 2015);
24 and right large lime kiln structure at Pagets Farm. Scales one metre.
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29 Figure 5: geo-referenced sites and settlements from Byres' 1776/1794
30 maps. For key see text below.
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34 Figure 6: estate boundaries c. 1830 (adapted from Adams 1971).
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38 Figure 7: Annotated portion of the 1812 Admiralty Chart indicating
39 disposition of the Reform and Belmont plantations.
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43 Figure 8: plans and elevations of the cisterns at Old Fort, Mount Pleasant,
44 Bequia. The photograph is looking northwards, i.e. from the elevation line
45 A-B on the plan with the casemate in the foreground; the two-stored
46 (largely reconstructed) estate house and base of the cattle mill are in the
47 background. Scale in photograph is one metre.
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54 Figure 9: the post-emancipation reorganisation of the Bequia landscape
55 showing nineteenth-twentieth century boat building sites (marked with an
56 'X'), whaling sites (*) and post-emancipation settlement and industrial
57 areas (+).
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2 Figure 10: Post-emancipation plantation economy and material culture,
3 Spring Estate. Left: re-used boiling copper; right brick-lined Copra drying
4 floor. The bricks would appear to date in general from the late nineteenth
5 century (scale one metre).
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11 Table i: Historical cartographic sources for Bequia
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15 Table ii: Archaeological visibility of the Bequia sugar estates
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‘The Island of the Clouds’

The archaeology of life on the margins in a small-scale Caribbean island landscape: Bequia (St Vincent Grenadines) c. AD1700- 1900

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Table i: Historical Cartographic sources for Bequia

Date	Title	Reference/Source and remarks
1764	<i>Windward Islands, Bequia. Map showing the coastline of Privateer's Bay, including high ground and the site of the plantation. Scale 1 inch to 300 feet.</i>	Kew, National Archives MFQ 1/1173/4
1775 (surveyed 1763)	<i>Thomas Jeffreys' Bequia or Becouya, the northernmost of the Granadilles</i>	Sayer and Bennet, London 1775 (prepared as part of a wider North American Atlas; see Cappon 1971. The 1816 map (below) is a later copy).
1776	<i>Plan of the Island of Bequia laid down by actual survey under the direction of the Honourable Commissioners for the Sale of Lands in the Ceded Islands, by John Byres, Chief Surveyor, 1776. About 5 inches to 1 mile.</i>	Kew, National Archives CO700/Saint Vincent 2.
1794	<i>Plan of the Island of Bequia by J. Byres. Republished London 14 July 1794, scale five inches to the mile.</i>	Kew, National Archives CO 700/St Vincent 4 (These were a series of maps published by Samuel Hooper and which included surveys of recently seized French islands such as St Vincent, Tobago and Dominica).
1811	<i>Admiralty Bay in the Island of Bequia, one of the Grenadines. By Captain Dovers RN 1811.</i>	Kew, National Archives BL SEC.8. (503).
1816	<i>Bequia, or Becouya, the northernmost of the Granadilles. New edition 2.75 inches to 1 mile.</i>	Kew, National Archives CO 700/Saint Vincent 8 (based upon 1775 map of Jefferys, see above).

	<i>Published by Laurie and Whittle, London.</i>	
1861	<i>Admiralty Chart 503: Admiralty Bay, Island of Bequia. Surveyed by J Parsons, Master, RN and others, 1861. About 16 inches to 1 mile.</i>	Kew National Archives CO 700/St Vincent 10

Table ii: Archaeological Visibility of the Bequia Sugar Estates

Plantation name	Estate House	Slave Village	Cisterns/water management	Mill form	Other features
Paget Farm	Not identified	Not identified	Well	None noted	Large lime Kiln
Friendship	Converted to Hotel	Not identified	Single vaulted cistern; c. 3 metres by 5 metres	None noted	
Mount Pleasant	Converted to Hotel	Not identified	Double-vaulted cistern complex	Extant cattle mill	Bread oven; fieldwalking yielded extensive 18 th century imported material
Hope	Not identified	Not identified	Not identified	Not identified	Not identified
Belmont	Not identified; shown as a ruin in 1861 map	Indicated on 1816 map, but no features survive	Single large vaulted cistern built into side of slope; similar dimension to the structure at Friendship.	Cattle mill indicated on 1816 map	Foundations of ancillary buildings in proximity to cistern
Reform	Not identified, but large structure indicated on 1861 map.	Indicated on 1816 map, but no features survive.	Not identified	Windmill indicated on 1816 map; not extant on 1861 map.	Presumably most of the estate core and slave houses destroyed by urban encroachment and shoreline change.
Union	Indicated on 1816 map, now under the site of sports field	Not identified	Not identified	Cattle mill indicated on 1816 map.	Presumably most of the estate core and slave houses destroyed by urban encroachment
Spring	Estate House converted into Hotel; well preserved. Former estate house located 2014 evidence of low walling survives	Evidenced by large concentration of low-fired earthenware on banks of a water course to north-west of present hotel.	Extensive culverting and channelling	Extant cattle mill	Associated with an extensive complex of well preserved buildings, eg boiling house as well as copra drying floor

	and extensive traces of imported ceramics from C18; <i>possible</i> French faience ware.				
Industry	Not identified	Not identified	Not identified	Not identified	Remains of ancillary buildings as well as indigo works in the vicinity

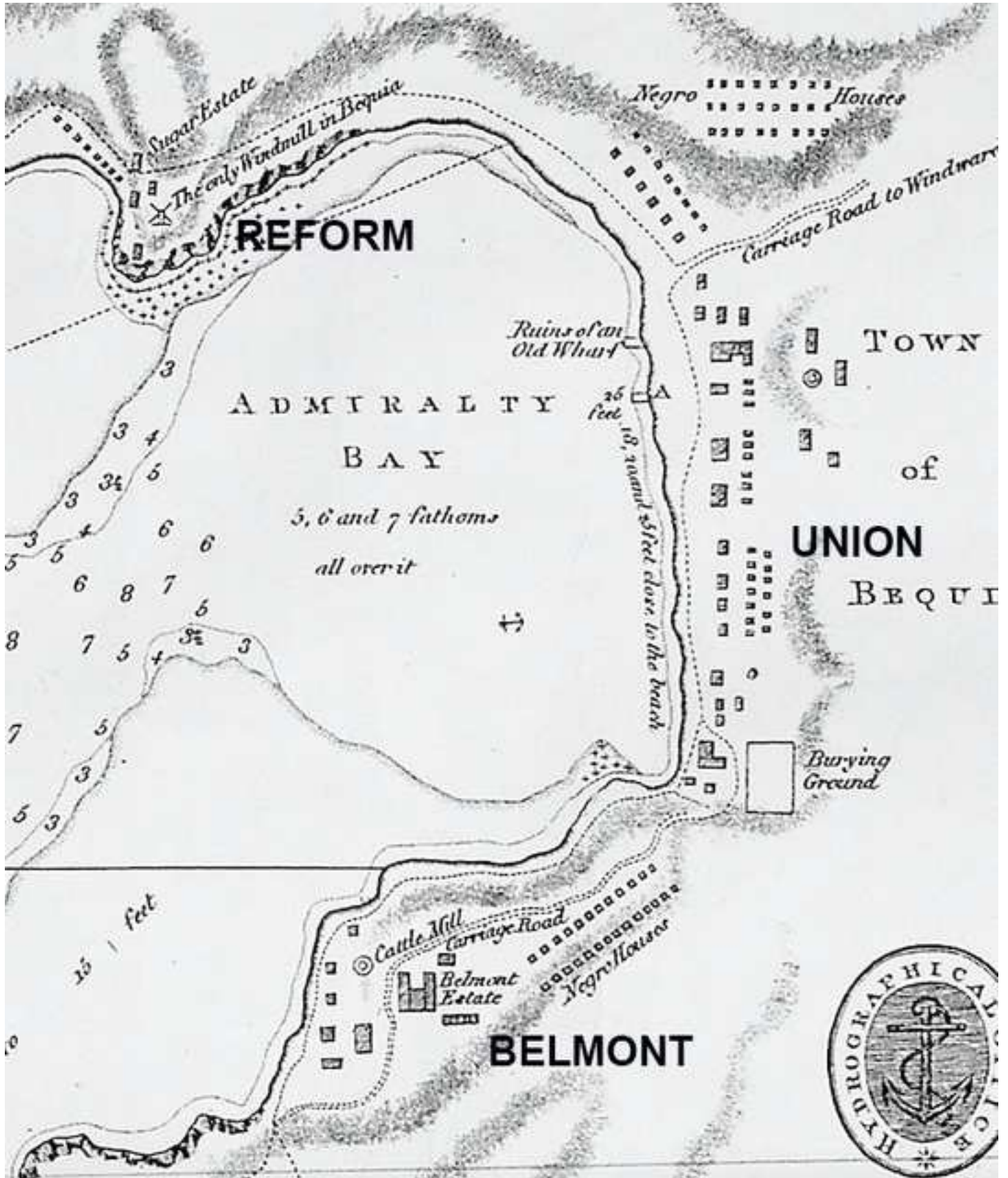


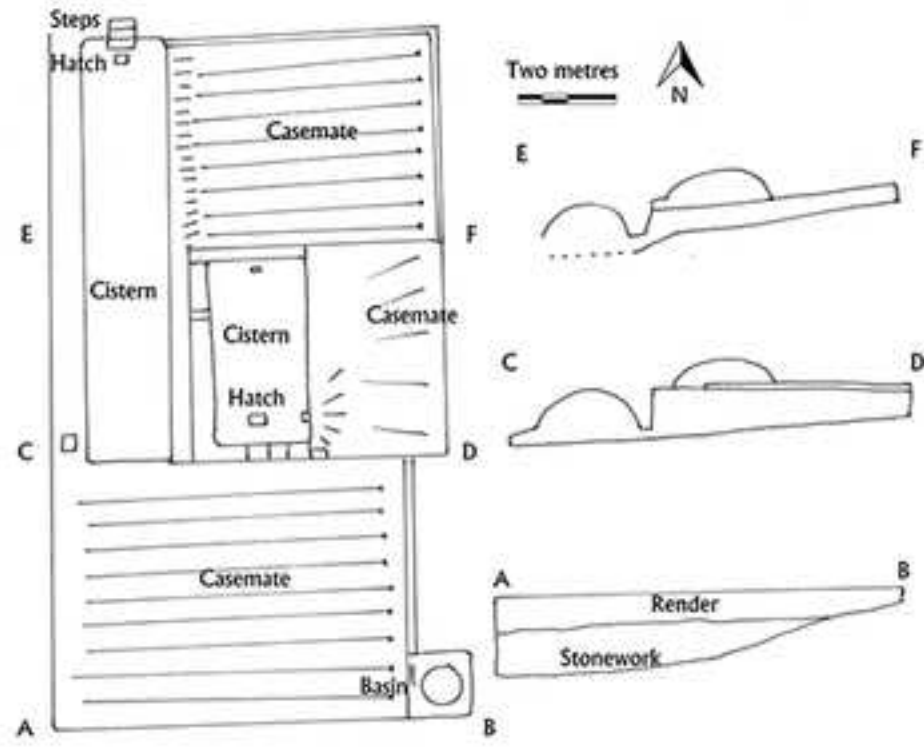












Old Fort Bequia SVG. Plan and profiles of cisterns



NPF 16



