The Role of Stone in Island Societies in Neolithic Atlantic Europe:
Creating Places and Cultural Landscapes

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ABSTRACT. The focus of the paper is an engagement with the significance of the exploitation of stone sources to make objects, particularly stone axe heads on islands in northwest Europe during the Neolithic period (4000 – 2500 BC). Case studies of Lambay Island in the Irish Sea, Rathlin Island off the northeast coast of Ireland, and the Shetland Islands explore the use of these three stone sources through the archaeological record, examining the biographies of objects (from quarries, through use, to discard or deposition) and applying a range of approaches to understanding material culture. What emerges is an understanding of the central role these three lithic sources played in how people engaged with and created their island places and landscapes. Through their daily engagement with different stone sources (including the ones focused on here) at a range of scales, people created and sustained social relationships and conventions. Hence it is argued that stone artefacts from local sources played a special role in shaping identities on the three islands.

Key words: Neolithic; northwestern Europe; things; islands; axe heads; stone sources; quarries; hoards

INTRODUCTION

Two themes of my current and ongoing research are the use of lithic sources by island societies in Atlantic Europe during the establishment and development of farming societies in the Neolithic period and current theoretical approaches to understanding material culture. In northwestern Europe, there is a recurring pattern of the exploitation of stone sources on islands to make objects, particularly stone axe heads (see discussion in Cooney, 2015). I have been engaged with understanding the significance of this phenomenon through work on three different islands (Fig. 1): Lambay in the Irish Sea (e.g., Cooney, 2005, 2009), Rathlin off the northeast coast of Ireland (Cooney et al., 2012a), and the Shetland Islands that stand between the Atlantic and the North Sea (Cooney et al., 2012b, 2013). Recently I have also had the opportunity to examine current theoretical approaches to material culture (Cooney, 2016). This work provides the basis for a comparative approach to explore the role of these lithic sources and the objects made from them in the creation of cultural landscapes on islands, posing the question of whether different theoretical and methodological perspectives can enrich our understanding of the relationship between people and place.

One of the approaches discussed below is the concept of object biographies or lives (e.g., Appadurai, 1986; Hoskins, 1998; Gosden and Marshall, 1999). In writing about the use of lithic sources and the objects made from them, researchers usually begin by considering the source or quarry sites (Cooney, 2011). Indeed quarries have been identified on the three islands and are important foci of research. However, another striking aspect of the activities of Neolithic people on Lambay, Rathlin, and the Shetland Islands was the deliberate deposition of objects

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whose origin lay in these quarries back in the ground, in the form of hoards or caches. This phenomenon is a useful, reflective place to start examining the role of such objects, considering examples in which the last act in the use of objects was their placement back into the physical environment. Taking a broader perspective on early farming societies in Europe, the deposition of hoards is also a widely recurring feature of the European Neolithic (e.g., Cordier and Bocquet, 1998; Pétrequin et al., 2012), which suggests that it was a recurring theme in the engagement of people with the material world.

Hence this paper employs different modes of ‘tacking’ to work with the archaeological record of three Neolithic island societies: first moving across and along the historical trajectory of objects from deposition back to quarry; second, using different theoretical approaches to understand the place and roles of such things and activities as part of the engagement between people and materials; and finally, asking how these specific island engagements might provide a wider understanding of island societies in Neolithic northwestern Europe.

**Burying the Hatchet:**

**Beginning at the End**

Brockley on Rathlin Island is one of two known exploited sources of porcellanite, a fine-grained metamorphic rock that takes a conchoidal fracture and accounts for at least 50% of the 21,000 or so stone axe heads known from Ireland (Cooney and Mandal, 1998, 2000). The large quantity of porcellanite objects known from Rathlin (Cooney et al., 2012a) includes a group of five stone axe heads formerly in the Morris collection and now in the National Museum of Ireland. This hoard (Fig. 2) comprises one complete and a portion of another polished porcellanite axe head, two porcellanite roughouts or preforms, and a ground shale axe head.

A striking feature of the production of axes and objects known as Shetland knives from riebeckite felsite, an igneous rock occurring in the form of intrusive dykes in granite country rock at the quarry complex at North Roe, on the Northmavine peninsula of Mainland Shetland (Ballin, 2011a, b; Davis, 2012), is the occurrence of hoards of both axes and knives. The most spectacular of the latter is the Stourbrough knife hoard (Fig. 3), composed of 19 knives, each placed upright and bookended by sandstone blocks. The hoard was found in eroding peat near the summit of a hill in West Mainland (Fojut, 2006). The primary method of working felsite is by flaking, although some varieties of the rock do not take a clean conchoidal fracture.

On the island of Lambay, a distinctive medium-grained igneous rock, porphyritic andesite (popularly known as porphyry), was used to make stone axe heads. The primary process of working this stone is by hammering and pecking (see Cooney, 2005, 2009). A striking feature noted in the quarry site excavation at the Eagle’s Nest was that alongside the quarrying of outcrops for axe head production, there was a recurring practice of deposition of a range of materials. Specific episodes of deposition can be recognized. One of these, which occurred in the Middle/Late Neolithic around 3000 BC, involved the placement of a porphyritic andesite polished axe head, a porphyritic andesite roughout or preform, a sandstone axe head, an unfinished gabbro mace head, and a cobble of jasper that may have been chosen because in size and shape it broadly resembles the axe head form of other objects (Fig. 4).

The hoards discussed above share a number of features. They are the result of deliberate human intent, and while we don’t know the detail of the placement of the Rathlin hoard, the locations of the Stourbrough and Eagle’s Nest hoards appear to have been deliberately selected. In each case, the composition of the hoard focuses on a major island lithic source that was exploited, but other materials are deliberately included. In the Rathlin and Eagle’s Nest hoards, there seems to be a deliberate inclusion of both roughouts or preforms and finished axe heads. Furthermore, it is tempting to suggest that the sandstone blocks in the Stourbrough hoard may refer to the act of grinding and polishing the knives. But can we move out from these

![FIG. 1. Location of Rathlin, Shetland, and Lambay Islands in relation to Ireland and Britain.](image)
interesting, specific actions, with their intimations of complex relationships, behaviour, and engagement with the material world, to a wider understanding of the role of the lithic sources on these three islands and the objects made from them during the Neolithic?

As a starting point, it is useful to refer to Hodder’s comment (2011a) that we have reached an interesting juncture in archaeology and related disciplines: there is now general agreement that humans and human social life depend on things. Given the prominence of porcellanite (Rathlin), riebeckite felsite (Shetland), and porphyritic andesite (Lambay) in the archaeological record of these respective island societies during the Neolithic, this is an important observation. It suggests that things made from these materials, as well as the processes of object production, use, and deposition, are likely to have played a key role in island social life. In his comment, Hodder also recognizes that jostling with and contained within the notion of this general theoretical agreement are a range of different perspectives, each of which (as their proponents would argue) offers particular insights into the idea that human social life depends on material things. The discussion below applies a number of these perspectives on material culture to the archaeological record of the use

FIG. 2. Axe hoard from Rathlin Island: NMI 1941:616 (shale); NMI 1941:617–620 (porcellanite).
of these specific island lithic sources on Rathlin, Lambay, and Shetland Islands to examine the extent to which island social life actually depended on them.

STUFF: THE STUDY OF MATERIALS AND MATERIALITY

Within the broader field of the study of material culture, there is a distinctive sub-field known as material culture studies, associated with the work of Miller and colleagues, which focuses particularly on the “stuff” of everyday life in the present (e.g., Miller, 2005, 2008, 2010; Tilley et al., 2006; see Hicks, 2010 for review). Material culture studies were initially focused on what Miller (1987) termed the anthropology of mass consumption. This line of research concentrated on the material world in the present and how consumers transformed items of mass production into objects: things that were used in human social lives. Miller has gone on to develop the argument focusing on what he refers to as the humility of things (Miller, 2010). He argues that the power of things is that they set the scenes we live in and ensure appropriate behaviour, without being open to challenge. Here Miller is explicitly drawing on Bourdieu’s (1977) theory of practice, which argues that everyday routines lead to consistent interaction with things, which in turn express underlying cultural patterns. Hence people grow up learning through their material surroundings.

A number of ideas here are useful in looking at the role of the three island lithic sources under discussion. Firstly, looking at the scale and palimpsest of production activities represented at a major stone quarry site such as North Roe, the source of the riebeckite felsite on Shetland (Fig. 5), the idea that organized production of stone axes (and in this particular case also Shetland knives) from specific sources could be represented as mass production is a useful one to think about. After all, stone was extracted and worked into axe and knife roughouts on a large scale, in a repetitive, organized manner over a significant period of time, transforming the quarry landscape, and providing things apparently for the whole of the population of the Shetland archipelago during the Neolithic (Ballin, 2012). The traditional term “axe factory” (e.g., Piggott, 1954) that is still used occasionally in the literature succeeded
in catching this sense of “industrial” scale. But it is anachronistic, with echoes of regulated, modern work separate from other elements of social life, and for that reason it is inappropriate in the context of small-scale traditional societies.

Miller’s approach successfully breaks down the distinction between the use of material culture in traditional and modern societies by blurring the lines between gifts (social) and commodities (economic) (Hicks, 2010). Through material culture studies, we can gain an understanding that it is through quarrying, the processes of transforming stone sources into objects, and handling, using, and disposing of things made from riebeckite felsite, porcellanite, or porphyritic andesite that social relationships were constituted, island lives were lived, and the world understood (Miller, 2008).

The increasing use of the term “materiality” in archaeology (and other disciplines) illustrates this concern with capturing the idea of the social significance of material culture (e.g., Tilley, 2004; Meskell, 2005). The term encapsulates a concern with the study of the physical characteristics of objects, alongside an understanding that humans consciously engage with things and are socially shaped by those engagements (DeMarrais et al., 2004; Knappett, 2012). As Knappett (2012) remarks, there is a tension between emphasis on the physical aspect of materiality and emphasis on its social aspect, as illustrated in the debate sparked by Ingold’s (2007) puzzlement that the discussion of materiality and material culture frequently seemed to have little to say about materials. On the other hand, Jones (2004, 2012) suggests that materiality provides an approach that actually links materials science and material culture studies: understanding the physical properties of materials and things facilitates an understanding of their social and cultural construction.

When we apply this approach to the island lithic sources under discussion, it is striking that porcellanite, riebeckite felsite, and porphyritic andesite all share the physical property of being visually distinct (see discussion in Cooney, 2002; Cooney and Mandal, 2000; Davis, 2012). The colour variation in their mineralogical and crystalline structure, for example, the phenocrysts in porphyritic andesite or the spherulites in some varieties of felsite, is enhanced through the process of grinding and polishing.

In the case of both riebeckite felsite on Shetland and porphyritic andesite on Lambay, the occurrence of coastal exposures of the rock and polished beach cobbles would have provided tangible evidence of the sensory transformation that the process of grinding and polishing could effect. As both porcellanite and the finer-grained varieties of riebeckite felsite take a conchoidal fracture, grinding and polishing would have followed on and been distinct from the primary process of flaking. This fact would have facilitated the spatial separation of this key stage of the performative relationship between people and the materials from the actual quarry sites. The current lack of evidence for grinding or polishing from the extensive North Roe quarry landscape suggests that riebeckite felsite preforms or roughouts were ground and polished at other locations (Ballin, 2013), while on Rathlin Island there is clear evidence that the working of porcellanite from the quarry at Brockley, including polishing and grinding, was spread across the island and appears to have been part of the activities of daily life (Cooney et al., 2012a).
Porphyritic andesite, on the other hand, because of its medium to coarse grain, appears to have been worked in a less formally structured sequence of actions; grinding may have begun before the “primary” process of hammering and pecking was completed (Cooney, 2005). The consequence of this informal structure was that all stages of production, including grinding and polishing, took place at the Eagle’s Nest quarry site. This fact in turn meant that a wider range of objects had to be brought to the quarry site: not just hammerstones for the initial phases of work, but also grinding stones. As grinding and polishing are known to be the most laborious and time-consuming aspects of the production process, people would have spent more time at the Eagle’s Nest quarry site. Perhaps not surprisingly, it became a locus for a range for other activities (see Discussion below). Hence it seems that the materiality of these different lithic sources was created in different ways, which were related very closely to the nature of the materials.

A final relevant point in relation to materiality is the concept of ensemble. The composition of the hoards discussed earlier in the paper, consideration of the places where the stone was worked, and the other objects (e.g., hammerstones and grinding stones) required to produce the items hoarded are reminders that instead of looking at the contents of the hoards as specific, stand-alone materials, it might be useful to engage with the notion of ensemble as another dimension of materiality (Knappett, 2012). This idea is associated particularly with the French tradition of technology studies (e.g., Lemonnier, 2012), in which the social and cultural centrality of things is seen as being located within multiple human-thing relationships in particular contexts (e.g., Coupaye and Douny, 2009).

ENGAGING WITH THE MATERIAL: THINGS ARE US

A long-standing strand in the study of material culture has been the relationship between cognition and material culture (Renfrew, 2012). In its functional processual phase, cognitive archaeology was defined as the study of past ways of thought inferred from material remains (Renfrew, 1994). Renfrew (2001) redefined the focus of cognitive archaeology, shifting it from the symbolic to materiality and material engagement. There was recognition of the co-dependence of mind and matter through the medium of bodily action and the specific capacities of material and technological environments to have an effect on people (Renfrew, 2007; Boivin, 2008; Malafouris, 2008). From this background there has been the development of material engagement theory, set out initially by Renfrew and Malafouris (e.g., Renfrew, 2004; Malafouris, 2004; Malafouris and Renfrew, 2010) and developed in detail by Malafouris (2013).

The application of material engagement theory is particularly relevant to the case study of Neolithic island lithic sources because of its focus on what Malafouris (2013) refers to as embodied engagement with the world. Instead of a separation of the mind from the realm of materiality and practice (see Knappett, 2005), material engagement theory relates thought, embodied action-taking, and environment, arguing that this relational domain is our way of engaging with the world. Working with stone through the process of extraction, crafting the shape of the object, and creating and changing surroundings by using things made of porcellanite, porphyritic andesite, or riebeckite felsite would all be examples of how mind and things are co-constituted in situated action. Cultural and social meanings emerge from use and performance in this process of embodied engagement (Renfrew, 2012; Malafouris, 2013).

This view is nicely captured by Edmonds and Ferraby (2013:35, 40) in poetically narrating the difference between what might have been an unsuccessful attempt to make a stone axe head…the material in hand remains a stranger. Cold shouldering the hammer’s invitation, it refuses to be drawn into the dance…and what happens when the engagement works…The line between hand and material losing its sharpness.

And for all that is inscribed on stone
Much is also written in the body,
Scars of service, build and heft
The body falling into certain shapes,
Like a hammer that drops
Without thinking,
In just the right place.

Hence objects such as stone axes are made by people, but in turn, people are made in the process.

This emphasis on a relational, distributed approach to both people and things is an approach to material culture that material engagement theory shares with symmetrical archaeology. Both perspectives use the concept of humans as a cyborg species (Olsen, 2012; Malafouris, 2013), stressing that the human condition is marked by its complex enmeshment with things (e.g., Webmoor and Witmore, 2008; Olsen, 2010). But while material engagement theory is engaged with the process of making the human mind, symmetrical archaeology focuses on things and on archaeology as the discipline of things (Shanks, 2007). The term derives from Latour’s (1993, 2005) symmetrical anthropology, the central tenet of which is that the human/object divide said to have been brought about by modernity is a fallacy. The argument is that in the present, as in the past, the human condition is a meshwork of relations between people and non-humans. Inspired by this idea, advocates of symmetrical archaeology argue that what sets this approach apart is its explicit focus on things, in contrast to other perspectives on material culture that use things to reach their real objective, the study of people (Olsen et al., 2012).

Conscious of the ongoing debate about this focus on things rather than people (e.g., Barrett, 2014; Olsen and
Witmore, 2015; Thomas, 2015), here I take symmetrical archaeology as providing us with two important insights when we come to look at island lithic sources. The first is the need to focus more on materials and things in their own right, and the second is the recognition that as archaeologists, we approach the material record of the past through a set of standardized technologies, creating a distinct ecology of practices (Olsen et al., 2012).

Hence it is useful to look at the things or objects from the three island sources themselves in more detail. For example, while the term “axe” is used as a general label, in fact this term covers a number of object types (axes, adzes, chisels, and wedges) that encompass a wide range of functions and roles. Those functions appear to have been more utilitarian in some cases, but more ceremonial in others. This distinction can be appreciated in terms of the size of axe heads (e.g., Cooney, 2000). For example, it would appear that one strand in the working of porcellanite was channeled toward the production of large axes with oblique butts (Cooney and Mandal, 1998). In his analysis of riebeckite felsite axes and knives from the North Roe quarry on Shetland, Ballin (2013, 2015) concludes that we can identify both functional and ceremonial channels in both types of object from the preform or roughout stage, through to the degree and care of polish and finish, to the function and context, and finally, in the patterns of deposition. In the case of porphyritic andesite at the Eagle’s Nest quarry (Fig. 6), one striking aspect was the variety of ways in which this material was used. First, it was a raw material for axes. Second, suitably shaped blocks were set up as anvil stones in areas of debitage build-up. Third, other blocks became the focus for structured deposition around them when they were deposited in pits or on the surface. And of course, there is the accumulation of debitage itself. Coming to this rich and varied material record, it is worth remembering that as archaeologists we impose our ecology of practices in trying to understand the meaningful engagement of people and things in the past. Hence our understanding of the role of porcellanite, riebeckite felsite, and porphyritic andesite is based on earlier research on museum collections and in the field that demonstrated there were significant numbers of objects that could literally be seen to be made of the same materials (e.g., for riebeckite felsite; Phemister et al., 1952; Ritchie, 1968; Ritchie and Scott, 1988). Fieldwork and petrological analysis established the links between the objects and the sources they came from. Mapping of the contexts of location and circumstances of discovery provided information on the movement and use of the objects. Finally, and perhaps most poignantly, excavation at quarry sites unpicks and tries to establish the organizational web behind the palimpsestic archaeological record of quarry faces, extraction pits, workshops and episodes of working stone (Fig. 7). We work in reverse order to untangle the beginnings of the lives of axes and related objects.

THE ENTANGLED LIVES OF ISLAND THINGS

This reference to entanglement is in recognition of the approach championed by Hodder (2011a, 2012a). The central strength of entanglement, according to Hodder (2012a), is the recognition that humans depend on things, things depend on other things, things depend on humans, and humans depend on humans. Hodder argues that the processes of transformation and constraint in society are not in the material facts of existence but in these dependences between humans and things, and the contingent ways in which multiple strands of entanglement are tied together.

Perhaps not surprisingly, Hodder’s most detailed and convincing examples of the ongoing, locally, and practically worked-out character of entanglement come from his own long-term engagement with the Neolithic site of Çatalhöyük in Turkey and the origins of agriculture in the Middle East (e.g., Hodder, 2011b, 2012a). He argues that amongst a range of resources at Çatalhöyük, clay (as in houses and pots) was a critical one (e.g., Hodder, 2012a). It is useful to think of stone as filling the same critical role, alongside the use of a variety of materials, on islands like...
Shetland, Rathlin, and Lambay in northwestern Europe during the Neolithic (see Boivin, 2004; Cooney, 2008). The impetus to begin organized production of axes and other objects from specific sources appears to be tied in with the shift to agriculture and its implied transformation of landscape, in which the axe became an important functional and symbolic asset (e.g., Whittle, 2003; Whittle et al., 2011). Even though in island environments forest clearance may have been a relatively rapid process (see Sheridan, 2012) and island life is likely to have focused on foraging as well as farming (e.g., Montgomery et al., 2013), the entanglement of axes as an aspect of what being Neolithic meant may have been what brought about the initial quest to exploit particular resources.

Once quarries were operational and objects from them were circulating and in use—as tools, as weapons, materializing the bonds between people, being broken and re-used, disposed of casually or deposited carefully—this use may have created the need for continuation of production and complicated notions of the temporalities associated with axe production (e.g., Bailey, 2007). The material engagement with an axe ranged from the relative rapidity of time in which a preform or roughout could be produced, the different pace (and patience) that was required to grind and polish it, and the circulation and use of the axe, which may have extended beyond individual human lives and become caught up in ideas of history and place. The quarries themselves were places transformed by the processes involved in making preforms or roughouts (e.g., Nyland, 2015; Topping, 2017). When people went back to quarries, there was evidence of previous activity. At the Eagle’s Nest, the glacially polished outcrop faces that may have brought people to the site initially were removed and the faces marked by scarring. In the case of Brockley on Rathlin Island, galleries were created in the porcellanite outcrop. At North Roe, alongside felsite dykes that were lightly exploited, other dykes, particularly at the Beorgs of Uyea, were heavily worked (Fig. 5); large areas of them were removed and extraction pits were created as people sought greater access to the outer areas of the dykes, the chilled margin with the granite country rock that seems to have been particularly favoured as a raw material (Cooney et al., 2017).

In understanding the processes of production and transformation at such quarry sites, the chaîne opératoire provides a widely used methodological framework for reconstructing processes by which materials are chosen, shaped, and transformed into things (e.g., Pelegrin, 1993). As Schlanger (2005) points out, this framework also aims to understand the nature and role of technical activities in past human societies, hence taking us beyond production processes. The notion of using shifting and interlocking scales of analysis when looking at the relationships between tasks, people, and the wider landscape, as suggested for example by Lemonnier (1993) and Conneller (2008), is reminiscent of Hodder’s entanglement approach. Lemonnier’s (2012) idea of ensemble mentioned above expresses the mesh of social meanings built around the physical characteristics of things and the material ways people interact with them.

It is useful to think about these ideas of entanglement and ensemble in relation to the chaîne opératoire involved in the production and use of the island sources discussed here. The chaîne opératoire approach tends to focus on success, but of course part of what we see in the build-up of material at quarry sites like North Roe on Shetland (Fig. 5) or the Eagle’s Nest on Lambay (Figs. 6 and 7)—including the broken preforms and roughouts, the debitage at sites like Craigmacagan on Rathlin (Logue et al., 2012), or the sites identified by Ballin (2103) on Shetland, such as Firths Voe, where felsite objects were reworked—is the need to cope with failure as well as success (Cooney, 1998). Even in societies enmeshed with the working of stone, there were risks involved: things did not always work out.

Against this background, it is useful to return to the idea that things have lives. The “object biography” approach was first put forward by Kopytoff (1986), who suggested that just as we write human biographies, we could think of...
objects in the same way. Objects are produced (born), are used (have an active life), and are discarded or deposited (die). Given the emphasis in this approach on examining the relationship between people and objects (Gosden and Marshall, 1999), it is not surprising that many such studies focus on exchange and circulation. However, as Joy (2009) points out, the difficulty that archaeologists have in reconstructing object biographies is that they most often deal with objects whose social life was ended through discard or deposition (see LaMotta, 2012). Joy (2009) suggests that in dealing with this problem, archaeologists should draw on the biographical information in the artifact itself and recognize the non-linear biographies of objects. This approach facilitates setting objects in the contexts of the social relationships that constitute and activate them.

Returning to the example of the three hoards with which we started, in each case we are dealing with an ensemble of objects deliberately brought together. The focus is on one of the three lithic sources discussed, but in each hoard other objects are drawn in that are linked to the lives of the axes (or in the case of the Stourbrough hoard, the Shetland knives). Linking the references to production and the early lives of objects in the hoards (the preforms or roughouts and the sandstone blocks) to the placement of material in the ground, it is tempting to see a link being made to a circular (rather than linear) concept of the biographies of objects, in which the beginnings and ends of the biographical cycle are cross-referenced. This link is particularly striking in the case of the hoard at the Eagle’s Nest on Lambay, where the hoard is deposited at a quarry site.

**DISCUSSION:**

**MAKING ISLAND WORLDS**

If there is an overarching theme that has emerged from looking at Neolithic life on these three islands in the context of different approaches to understanding things, it is the prominence of the three lithic sources, indicating that they were central to how people engaged with and created their island places and landscapes. Robb and Miracle (2007) suggest that prehistoric people actively and continuously evaluated and reinvented traditions from a repertoire of available possibilities. As a focal material resource in Neolithic northwestern Europe on islands like the three under scrutiny here, stone was central to those processes of engagement, evaluation, and reinvention. Through people’s daily engagement with different stone sources (including the ones focused on here) and at different scales (from object to monument), social relationships and conventions were created and sustained.

Of course, this engagement is heightened by the physical reality that the sea lays down clear boundaries around an island. As the novelist Andrew Greig (2004) put it, within islands everything is intensified. This idea feeds into the view of islands as valuable small-scale laboratories of social change because they are places that can be explored and comprehensively understood. On the other hand, the reality is that islands and mainlands are linked by the movement of people and things across the sea (e.g., Broodbank, 2000; Van de Noort, 2011) and that landscapes are complemented by seascapes (Renouf, 2011a, b). The importance of stone from island sources is that they allow us to explore the complementary relationship between the notion of islands as fixed, bounded places and the fluidity and inter-connectivity of islands and mainlands created by the movement of people (see Cooney et al., 2013). In the case of the porphyritic andesite from Lambay, while small numbers of axes from this island source are found on the Irish mainland, the majority that we know of were actually deposited at the quarry itself. By contrast, it is clear that the majority of porcellanite axes from Brockley were brought off the island and contributed to the widespread distribution of porcellanite axes in Ireland and Britain, as far north as Shetland (Sheridan, 2012). Felsite axes from the North Roe quarry appear to have been used predominantly in the Shetland archipelago, but their widespread distribution suggests that they played an important role as a material manifestation of a sense of cultural identity across the island group. As mentioned above, there is a wider trend of using island sources to produce axes in the Neolithic (Cooney, 2015). What the detailed discussion of the three sources here indicates is that within that broad trend, we should recognize that the material engagement with island sources during the Neolithic must be seen as specific to particular island circumstances and resources. As Robb (2001) put it in relation to Neolithic Malta, regional symbolic heritage would have been reworked in the context of locally (island-) grounded identity.

In attempting to draw out the importance of these island lithic sources, I have discussed a number of approaches. Clearly there are others, such as the life history approach (e.g., LaMotta, 2012) or fragmentation (Chapman, 2000), that would have been useful, but the perspective I have adopted could be seen as combining different theoretical insights into the study of things while recognizing the differences and tensions between them (see Olsen, 2010). This approach also illustrates Hodder’s (2011a, 2012b) conclusion that we have reached a stage where there is broad agreement that humans and social life depend on things and that there is value to be gained by comparing different approaches and points of agreement between them, rather than the differences that (perhaps inevitably) tend to be emphasized in the literature (e.g., Tilley, 2007; Renfrew, 2012).

The focus of this paper has been the role of lithic sources in the Neolithic cultural landscapes of three islands. As Priscilla Renouf (2011b) recognized, landscapes become enculturated as people experience them. People turn them into places permeated with knowledge, memory, history, identity, and emotion. In the case of Lambay, Rathlin, and Shetland Islands, things made from key stone sources played a central role in those human processes during the Neolithic.
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