"Inside that fortress sat a few peasant men, and it was half-made".
A Study of 'Viking' Fortifications in the British Isles AD793-1066.

By

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MPHIL(B) IN ARCHAEOLOGICAL PRACTICE
Abstract

The study of Viking fortifications is a neglected subject which could reveal much to archaeologists about the Viking way of life. The popular representation of these Scandinavian seafarers is often as drunken, bloodthirsty heathens who rampaged across Britain leaving a trail of destruction in their wake. Excavations at Coppergate, York and Dublin however, show that the Vikings developed craft and industry wherever they settled, bringing Britain back into trade routes lost since the collapse of the Roman Empire. These glimpses of domestic life show a very different picture of the Vikings to that portrayed in popular culture. Fortifications provide a compromise to these views, as they are relatively safe, militarised locations where an army in hostile territory can undertake both military and ‘domestic’ activities.

This study investigates the historiography of the Vikings and suspected fortification sites in Britain, aiming to understand the processes behind which archaeological sites have been designated as ‘Viking’ in the past. The thesis will also consider the study of Viking fortifications in an international context and attempt to identify future avenues of research that might be taken in an effort to better understand this archaeologically elusive people.
This work is dedicated to Laura, for continuing to put up with my over enthusiasm when it comes to all things Viking.
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Chapter 1

**Introduction**

Towards the end of the 8\textsuperscript{th} century AD, Britain and Ireland became subject to attack from Scandinavian seafarers. When, in 793, “the raiding of heathen men miserably devastated God’s church in Lindisfarne island by looting and slaughter” (Swanton 2000:57), the period known as the Viking Age begins. This continued in England until 1066, when Harald Hardrada and Earl Tostig were defeated by Harald Godwinson at the Battle of Stamford Bridge, whilst parts of Ireland and Scotland were to remain under direct Norse control or influence for some centuries after. The British Isles and Ireland were a focus of Viking activity throughout this time, with raiding taking place throughout much of the late 8\textsuperscript{th} Century and the first half of the 9\textsuperscript{th} Century. During this period raiding was seasonal, with the Vikings returning to Scandinavia before the onset of colder months.

However, with the first *longphuirt* (sing. *longphort*) – literally meaning ‘ship-bases’ (Hall 2007:86) – being constructed in Ireland in the 830’s by those described in the Irish annals as ‘Norsemen’, ‘heathens’ or ‘foreigners’ (CELT 2008) and the first wintering in England by Vikings on Thanet in 851, a period of ‘invasion’ or ‘colonisation’ began. At this time the *Anglo-Saxon Chronicle* begins to mention ‘raiding-armies’ (Swanton 2000:64) moving through the English countryside and the battles fought against the Anglo-Saxons.

Viking forces wintering in hostile territory needed a defensible location in which to camp and use as a base for further operations. “At first they appear to have
made use of natural islands, such as… Sheppey and Thanet” (Richards 2004:38). The Anglo-Saxon Chronicle, however, records that they also constructed purpose-built fortifications. Whilst the locations of these fortifications are often mentioned to some degree of accuracy (a locality as opposed to a region), there has been little attempt by archaeologists to identify and study them. In a past dissertation on Viking Conflict Archaeology, the author identified a number of issues surrounding Viking fortifications as far as the limits of the study allowed (Raffield 2008:50). This study will attempt to build on the brief observations that were made and will focus on fortifications as a specific entity.

The ‘Viking Age’ is an important period of British and Irish history, with the Viking attacks leading to a unified England under King Alfred of Wessex and the first foundations of towns and industry in Ireland. The Vikings were also responsible for bringing both countries into a large scale trading network - the presence of Islamic Dirham fragments in hoards such as the Croydon hoard and at the possible productive site at Torksey, Lincolnshire, are physical evidence that long range trading networks were established (Blackburn 2002:92-93). They were also partly responsible for the defeat of the English at the Battle of Hastings by William the Conqueror, with a Viking invasion force having to be defeated at the Battle of Stamford Bridge only days before the 14th of October, 1066.

The Vikings, therefore, had a huge influence on the future of Britain and Ireland considering that their armies probably numbered “hundreds rather than thousands” (Clarke 1999:40). They were present at the outposts of European culture both in the East and West, with Logan (2005:188) coining the phrase “from Vinland to the Volga” to express the distances that groups of Vikings travelled. Though they did raid, pillage and plunder, they also settled peacefully, established trade and were
often assimilated into local society. The modern day stereotype of the warlike Viking could distort the archaeological view of the Viking Age.

With the archaeology of the Viking Age being elusive in comparison to that of the Romans and Anglo-Saxons in Britain, the study of Viking conflict thus far has not been sufficient considering the warlike stereotype that Vikings have in popular culture. By locating and investigating Viking fortifications an insight into the ‘military’ lifestyle of Vikings in comparison with the domestic sphere presented so well by excavations at Jorvik and Dublin could be provided. Warfare is endemic in the human psyche – “it is something of which all human beings seem to be capable, and at the same time an attribute of humanity we would chose to deny” (Carman 1997:2). By ignoring this fact we are in danger of creating a ‘pacified past’ and the acceptance that people in the Viking Age lived side by side with military threat allows us to transcend from a one dimensional view of life presented by excavations of domestic settlements. This is useful not only for Viking studies but also conflict archaeology in general, as it provides comparative material for other periods whilst bringing the Viking Age into the conflict archaeology sphere. With the Viking Age being so often interpreted by historical and literary sources, a synthesized study that combines the disciplines of Archaeology and History is needed to strengthen our knowledge of this period.

In a previous dissertation on Viking conflict archaeology, the author utilised a case study for a possible Viking fortification and battlefield at Blunham, Bedfordshire. This site is considered by Edgeworth (2006, 2008) to be the site of a siege and battle recorded in the Anglo-Saxon Chronicle as occurring in the year 917, during which the Danish king of East Anglia and a number of jarls were killed.
Magnetometry survey and trial excavation at the site in 2007 did not provide conclusive results as to the Viking occupation at the site, with Edgeworth’s claim relying on comparative evidence with other suspected and known Viking sites in Britain and Ireland. It was this work that inspired this thesis, as much of our current knowledge is not based upon excavated sites but often speculative statements, the origins of which may lie in the antiquarian past.
Chapter 2

The State of Knowledge

Many publications discuss the Viking Age in Britain and Viking activities in the wider world. Many of these take the form of generalised books about the Viking Age (Richards 2004, Hall 2007, Logan 2005, Forte et al 2005). These publications are extremely useful with regards to describing the Viking wars, the dates of significant events and discussion on subjects such as Viking lifestyle and religion. What these books mostly lack however is detailed case studies on the archaeology of Viking Age conflict. Hall (2007) attempts to highlight certain case studies with reference to sites such as Camp De Péran, Brittany and the site of a possible Viking attack on a settlement at Llanbedr-d-ych, Anglesey (Hall 2007:81,118), but aside from this case studies are not often featured. Discussion of fortifications themselves is often limited to a repetition of sites mentioned in the *Anglo-Saxon Chronicle* and some potential sites that have been tentatively identified in more recent years. This is however not a criticism of the authors concerned; the books mentioned above are not specifically written for archaeological scholars and students, but also for historians and those interested in early medieval history. The subject of fortifications can understandably be seen as minor in comparison with other subjects related to the Viking Age – the archaeological evidence of the Vikings mostly focuses on sites such as Coppergate, York and the excavations in Dublin where excavated material has revealed much about daily life in the Viking Age. The archaeological evidence for fortifications is limited, as any evidence that exists is open to interpretation and can often be contested. The *longphort* at Woodstown, Co. Waterford, for example may at first
seem to have had a military function due to the presence of a ‘warrior’ burial and substantial ditch and bank. “The truth, however, may be rather more complex” (Russell et al 2007:31).

Archaeological literature does exist for the few Viking sites that have received attention from archaeologists, the majority of which are in Ireland, where there has been study into the longphort ‘phenomenon’ for some time. Several sites have been identified as Viking fortifications, including Athlunkard near Limerick, Dunrally, Co. Laois and Woodstown near Waterford. All have had papers published on them (Kelly & O’Donovan 1998, Kelly & Maas 1995 & Russell et al 2007 respectively), the former two reports describing the sites and in the case of Athlunkard, the material recovered there. There is also an attempt to put the sites into context with others. The Woodstown report includes details of the excavations that have taken place as well as analysis of material finds and discussion on the notion of the longphort as an academic term. It is important to note that Woodstown is the only site that has been excavated of the three, due to development pressures, but the large amount of material that has been recovered suggests that excavation at other sites may yield information of their own. The study of longphuirt has always run parallel with discussion on the nature of the sites themselves and Gibbons (2004) sums up work that has taken place up until the time of publication. This is complemented by discussion of what exactly a longphort is with regards to terminology and the use of the word in Irish annals.

In the British Isles, the main ‘Viking’ fortification site is at Repton, Derby, where the Anglo-Saxon Chronicle mentions a Danish ‘raiding-army’ wintering in 874 (Swanton 2000:72). Excavations by Biddle and Kjølbye-Biddle in 1974-88 revealed a D-Shaped enclosure similar in plan to the longphort structures in Ireland. Burials
featured Scandinavian grave goods such as Thor’s hammers and battle trauma on some of the skeletons indicates that they took part in conflict of some kind (Biddle & Kjølbye-Biddle 1992:40). Evidence for other Viking fortifications comes from references in the *Anglo-Saxon Chronicle*.

The archaeology of fortified enclosures has been discussed with reference to the Anglo-Saxons on a considerably larger scale. Much of this discussion is directed at the burhs – “Anglo-Saxon fortified settlements, built mostly in the late 9th and early 10th centuries as a response to Viking attacks” (Haywood 2000:38), many of which are known from *The Burghal Hidage*. “Their systematic use as defensive centres began in Wessex under Alfred the Great... [who] established a network of thirty burhs across Wessex” (Haywood 2000:38-39). For some of the larger burhs the modern street plans still roughly reflect those of the Anglo-Saxon towns, and at some locations such as Wallingford, it is possible to trace the burh defences (Haywood 2000:38, Hill & Rumble 1996:220). The burhs have been discussed at great length in publications such as Hill and Rumble (1996) and the *Beyond the Burghal Hidage* project, based at University College London. This project aimed “to provide the first systematic study of Anglo-Saxon military organisation and its landscape context for the period c.850-1066” (UCL 2005), and included a conference to discuss this theme and defensive sites on the continent. There has also been site specific research that has given discussion to fortifications of the period – Beresford (1987) discusses excavations at Goltho, Lincolnshire, where a fortified earthwork enclosure dating from the 9th century was discovered underneath a later castle mound. The site was interpreted as a fortified manor and at present is a unique example of such a structure of this date in England. Loveluck and Atkinson (2007:67) also discuss earthwork enclosures as part of their investigations at Flixborough, but in relation to settlement
divisions and monastic enclosures. The comparatively large amount of research into
Anglo-Saxon sites, a small amount of which is summarised above, could contribute to
Viking fortified sites being understudied as we know so much more about those built
by the Anglo-Saxons. The knowledge that these fortifications were built as a reaction
to Viking incursions, however, could perhaps indicate a Viking presence in the area
around a burh.

This is not to say that there have been no studies into Viking Age archaeology
as there are many publications on this particular subject. The Viking Congress
conferences include papers on various different aspects of Viking archaeology. There
have been large-scale projects such as the excavations at Coppergate, York, which
yielded information about how people lived in Viking Age York, what industry was
taking place and what people were importing and exporting (Kenward & Hall 1995,
Hall 2007:114). The study of Viking warfare, however, is limited. Griffith’s (1995)
The Viking Art of War attempts to study Viking warfare from a modern military
historian’s viewpoint, incorporating a modern style ‘chain of command’ and the
organising of ships into squadrons. This does not sit comfortably with the Viking way
of war, which was probably more akin to that of prehistory – based on raids and
surprise tactics with little cohesion or form of centralised control over troops above
basic battle plan (Raffield 2008:32). Griffith also attempts to discuss fortified sites in
the Viking Age, but does little more than discuss the Trelleborg fortresses and the
Danevirke, as well as making speculations on Viking siegecraft (Griffith 1995:153-
161). Siddorn’s (2005) Viking Weapons and Warfare attempts to recreate battle tactics
based on re-enactment (Raffield 2008:13) and the notion of fortifications is not
addressed. It is important to note that these books are not archaeological and the latter
is not academic (though Siddorn does stress that the book is not designed to be) (Siddorn 2005:7). Viking warfare therefore remains very much a subject that is decided by stereotypes and an acceptance of these. The research of military historians and amateurs could be in danger of creating a false impression of the past.

“The archaeological evidence for [fortification] sites, in both Ireland and Britain, is still thin on the ground” (Gibbons 2004:23), but contemporary annals and accounts, although often overlooked, are a valuable resource. The *Anglo-Saxon Chronicle* details numerous raids and battles as well as the locations of fortifications and settlements. The Irish annals are similarly useful, presenting a year by year account of events taking place in the country. Of surprising use are ‘contemporary’ sagas such as Snorri Sturluson’s *Heimskringla*, written around the end of the first millennium AD. Whilst the events and deeds that take place in these sagas cannot always be considered to be fully accurate, the saga of Harald Hardrada for example accounts for the Battle of Fulford in 1066 and describes the battlefield (Monsen 1932:561). Details from this have been instrumental in Jones’ (2008) locating of the battlefield, which has paved the way for future research to take place on the site. The sagas however, do not often mention the construction of fortifications and we are unsure whether those mentioned, such as the fortress of the semi-legendary Jómsvíkings that was supposedly located on the south shores of the Baltic Sea (Hollander 1955:62), even existed.

Whilst literary sources such as the *Anglo-Saxon Chronicle* could aid archaeologists in locating sites of interest, it must be remembered that translating the chronicles can be difficult. It is possible that place names can be mistranslated, or that whilst a place name matches to a modern counterpart, it may in fact be referring to a
different location, though “the proportion of major names now of uncertain etymology is very small, so good reasons need to be made for doubting them” (Cavill pers comm. 2009). It is important, therefore, that archaeologists do not overlook this in their investigations.

Unfortunately, one has only to review a small portion of the literature available on the Viking Age to see that research into Viking conflict is inadequate. There is a confusing focus on the Vikings as traders, craftsmen and ‘producers’ that somehow runs parallel with their popular portrayal as bloodthirsty, drunken heathens who raided and pillaged with no regard for the Christian religion. This is demonstrated by their targeting of churches and ransoming of religious texts, such as the attack on the Lindisfarne monastery in 793 and the ransoming of the Codex Aureus in 851 (Hall 2007:73). The origin of the Vikings’ image is due to the bias of those recording historical events – the very religious scholars being targeted by the Vikings. Their undefended monastic establishments were not only often located on coastal headlands and islands, but were also used by “secular magnates... as safe deposits for their own personal wealth” (Hall 2007:73) and thus tempting targets. It should also be remembered that whilst the Vikings are accused of atrocities “peculiar and abominable” (Christiansen 2002:180), these were no less horrific than those committed by their Anglo-Saxon counterparts, such as when Ætheldred of Wessex ordered “all of the Danish men who were among the English race to be killed on Brice’s day” (Swanton 2000:135) in 1002.

It is not possible for the images of the civilised trader and producer to continue to run parallel with the destructive barbarian raider without distorting the archaeology
and history of the Viking Age. Fortifications certainly factor into providing some middle ground, as they are representative of the fact that Viking armies were present on British and Irish soil and fighting for both territory and profit. The construction of fortifications shows a sense of planning and sophistication, perhaps indicating that Viking armies were not as headstrong and eager for battle as the contemporary sources will have us believe. It also means that the army would have to have a secure source of provisions, as a static army cannot live off the land in the same way that a mobile one can and has to constantly forage further from the fortification to obtain supplies. These fortifications were probably not designed to be permanent, as Viking armies would often move on after a short period of time – many of the camps mentioned in the *Anglo-Saxon Chronicle* were only established for a year.

Simply by considering fortifications, the image of the Viking has been transformed from an unsophisticated ‘barbarian’ to one of a people who were not only familiar with the art of warfare but must have had the capacity to manage logistical challenges and supply a large force of fighting men, a task that is laborious even in the modern day.
A methodology was constructed to attempt to locate as many Viking fortified sites in the UK as possible. Various methods of achieving this were contemplated, but the approach decided upon was to attempt a one hundred percent survey of the Historic Environment Records (HERs). Due to the relatively small quantity of data that was anticipated to be gained, it was decided that this attempt at total coverage was most effective. The English Heritage Heritage Gateway website shows there to be 82 Historic Environment Records and Urban Archaeological Databases (UADs) in England (English Heritage 2008a). These operate on a city, county or regional level, Wales for example having 4 regional ‘Archaeological Trusts’, each covering a number of counties. Scotland has 16 SMRs requiring consultation. In addition to these local and regional databases, the National Monuments Record (NMR) for England and its equivalents in Scotland and Wales needed to be consulted for any additional information. The Heritage Gateway website is an invaluable tool for searching through the English NMR and it is possible to search some of the HERs online alongside the NMR. The online NMR search was utilised mainly as a tool by which to undertake a large scale search, with individual sites being investigated by use of the HERs.

At the time of the search, the Heritage Gateway website did not utilise the standardised thesaurus of terms that exists in many online archaeological databases. The terms “defence” and “monument (by form)” were used in the search. The former
obviously provided references to theorised defensive sites, whilst the latter related to records ranging from defensive sites to spot finds. It was also possible, however, to search by period (which included ‘Anglo-Saxon’ (410-1066)), allowing the search to be narrowed down somewhat. The search term ‘Anglo-Saxon’, obviously yielded not only Viking or suspected Viking material, but also Anglo-Saxon results that required sorting. With the Viking Age running into the year 1066, early Anglo-Norman sites were often included in search terms, which further cluttered the search results.

Although it was clear even at this early stage that the search was problematic and time consuming, it was decided to continue working in this way, as the benefits of obtaining data on any possible fortification location were held as more important than the slow progress made. Once the online NMR search was completed however, the HER search continued at a much quicker rate. The Heritage Gateway website contains contact information for all of the English HERs as well as any website links to online databases that the HERs own. A standardised email to each individual HER was composed as well as consulting any with an online database to further ensure that data was not missed. The staff at many of the HERs readily provided a huge amount of information via email and post, allowing physical records to be obtained which contained detailed information regarding all of the sites in this study. Many staff members were also willing to share their own opinions and provide further references to contacts and written information.

For Scotland and Wales, the equivalent of the NMRs were searched online as far as possible to obtain information, but neither of these follow a format similar to that of English Heritage. This made searching difficult and all of the available HERs/SMRs were consulted to gather as much information as possible. A search was
also attempted for the Isle of Man, but unfortunately the island has no online database to search and emails asking for assistance went un-answered.

In addition to this the journal *Medieval Archaeology* was investigated for the years 1986-2007. This was so as to see if there were any potential sites mentioned in the compilation of excavation, evaluation and watching brief reports for the previous year. No potential sites were located, with only a few reports mentioning the excavation of defensive ditches at known Anglo-Saxon burhs.

An investigation into Grey literature reports took place on the Archaeological Data Service’s website in early 2009. A search by period (‘Early Medieval’) revealed over 130 sources, although only one of these had any reference to a fortification – a possible Anglo-Saxon fort at Athelney, Somerset (Gaffney & Gater 2003). This site has strong links to Alfred the Great and was surveyed, resulting in the locating of occupation and possible industrial activity within the area of the fort.

The National Mapping Programme (NMP) is an English Heritage initiative to provide “primary information and synthesis for all archaeological sites and landscapes visible on aerial photographs or other airborne remote sensed data” (English Heritage 2010a). This resource was not consulted during the research process due to its still being in an incomplete state. Though the project is instrumental in locating new sites (indeed, fifty percent of those located are thus far unrecorded (English Heritage 2010a)), this means that the nature of many of these sites is unknown. Due to our lack of knowledge on what exactly constitutes a Viking site, making inferences into the nature of these sites based upon this data alone was not deemed useful to the study. The NMP may prove useful in future studies, but in order to fully utilise the data
gained from the programme, a reasonable hypothesis on the form of Viking fortifications must be in place to be tested. Such a hypothesis does not exist at this time.

The results of the NMR and HER search produced some 297 sites ranging from Saxon burhs to theorised battle sites. This list was further investigated and reduced, removing Anglo-Saxon sites, battle sites, spot finds, linear ditches and dykes and sites that date from after 1066 and undated sites that did not seem likely to be potential Viking sites. This left 43 sites that were specifically mentioned as being used by the Danish and Norse Vikings during their invasions of Britain (See Figure 3.1).

Whilst the NMR and HER search proved fruitful, the limitations of the study must be realised. The huge amounts of data gathered meant that physical records for all 297 sites could not be consulted and the NMR was not physically visited, with the data gained from the online search being used to further investigate sites in the various HERs. Ideally, physical records for every site should have been consulted and other monument types (such as linear ditches) should have been given consideration, but the limits of the study meant that this could not take place. Linear boundaries are evident in Viking Age Scandinavia, such as the Götavirke, Gotland, and the Danevirke, Schleswig and as such a study into British linear boundaries in the Viking Age would be beneficial. Investigations into other monument types and indeed the Anglo-Saxon evidence would be advantageous to the study of the period in this context.

The 43 ‘Viking’ sites that were identified, however, were researched in depth and physical records consulted. These included but not were limited to parish surveys,
field visit and excavation reports, aerial and field photographs, newspaper reports, county histories and antiquarian sources. Obviously these sources vary in relevance and quality and some sites were better documented than others. The data available for study is only as good as what is reported to and recorded by the HER, county councils and archaeologists. Willington Docks, Bedfordshire, for example, has received a large amount of attention from both antiquarians and modern archaeologists alike. Thus the HER contains extracts from antiquarian visits, aerial photographs and excavation reports for this site. In contrast the supposed ‘Danish Camp’ at Hertford, Hertfordshire, is mentioned in Clark (1884:121) and has been written off as being the result of antiquarian speculation – a modern source (Williamson 2006) interprets the site as a rabbit warren. It is interesting to note how in this county, the impact of past antiquarian study is negligible in comparison to Bedfordshire. This inevitably has an impact on any research design and the lack of purely archaeological literature regarding some sites means that interpretation has been made difficult in the past. Indeed this is the impetus for the study as the issue needs to be addressed.

Whilst investigating these 43 sites it was noted that 26 seem to have first been interpreted as Viking by various antiquarian sources, which led to questions being raised as to the influence of antiquarian studies on the interpretation of Viking sites. It was decided to investigate this avenue of research.

There are no set dates for what can be defined as antiquarian, as those writing on the cusp of the 20th century can be considered to still be in the same vein as those writing in the 16th or 17th centuries. These scholars were participating in an intellectual enquiry as opposed to a scientific one and the line between antiquarian interest and archaeological investigation is blurred.
A number of sites are summarised and further interpreted in works such as Dyer (1972), although without much in the way of investigation aside from citing the works of previous authors. Dyer (1972) has been subsequently used in turn to assist in the writing of textbooks such as Richards (2004). In order to understand the reasons for the interpretation of sites as Danish, it is necessary to access the original sources from which this information came. As mentioned, the dates for these interpretations range from the 17th to the 20th century.
Figure 3.1: Hypothesised Viking fortification sites in Great Britain obtained from the search of British NMRs and HERs. The sites used as case studies in Bedfordshire and Essex are shown in large scale in figures 5.5 and 5.6.
Antiquarians and the Vikings

Before the advent of archaeology as an academic discipline, antiquarian research produced ideas out of which the basis of modern archaeological thought developed. Though it is impossible here to summarise the entire nature and history of antiquarianism and the subsequent effects on the evolution of archaeology in these few pages, Trigger (1989), Piggott (1989), Chippindale (1983) and Schnapp (1996), among many, explore these themes in detail. It is important to state at the beginning of this chapter that we must remember that the antiquarians were men of their time. These scholars, many of whom were amateurs (indeed there was no such thing as a ‘professional’ archaeologist) were attempting to justify and explain what they saw. By today’s standards their work can be inaccurate, but the context within which they were working must be considered. It was necessary to consult these sources as part of the investigation and they should not be seen as an obstacle which had to be overcome, but rather as an important source of information. Thus this foremost section of the thesis can be considered to be an exercise in the historiography of the Vikings from an archaeological perspective – an exercise that, as of yet, has not been undertaken.

A rise in concern for the material remains of the past in England began in the fifteenth century, later strengthened by Henry VIII’s desecration of the monasteries and the dispersing of their libraries (Trigger 1989:46). The study of material remains began to supplant the written and oral traditions that had thus far been the basis of
history. Antiquarians travelled to monuments, describing them for county histories and topographies, recording the folklore, legends and traditions surrounding them. In the seventeenth century, the work of antiquarians such as Aubrey (1626-1697) focused on the Wiltshire region, recording prehistoric monuments interpreted as druidic temples (Hunter 1975) that thus far had not been considered to be man made – “no clear distinction was [previously] drawn between curiosities that were of natural and those that were of human origin” (Trigger 1989:47). Following the work of these early antiquarians, historians and topographers continued work mostly at county level. There was little deliberate digging, and monuments were explained by associating them with peoples mentioned in historical accounts:

“Prehistoric remains were generally ascribed quite arbitrarily either to the Britons, whom the Romans encountered when they first invaded England, or to the Saxons and Danes, who had invaded Britain after the fall of the Roman Empire” (Trigger 1989:48).

The impact of the Age of Enlightenment on archaeology in the eighteenth century has been debated (see Daniel 1976, Harris 1968), yet it can be considered to have aided renewed interest in the evolutionary views of cultural development (Trigger 1989:59). With the rise of scientific antiquarianism and the publication of work by the Royal Society, accurate descriptions of archaeological finds began to be provided. Antiquarians began to attempt to determine how tools were made and used, as well as how stone monuments had been constructed in ancient times. Antiquarians also began to ‘look up’ from finds and their locations in the ground and developed “an interest in the landscape, and a vision of the earth not just as a potential treasure-chest
but as a repository of interpretable traces” (Schnapp 1996:213). The work of this era is epitomised by that of Stukeley (1687-1765), who aimed to interpret monuments in light of the few historical sources available (Trigger 1989:62). He was one of the first to recognize that there may have been an occupation of Britain before the Roman period and along with other antiquarians, began to take the first steps in ascertaining “relative dates for archaeological finds for which there were no historical records” (Trigger 1989:64). Investigations into the stratigraphy of finds within monuments led to a more disciplined interpretation of the past and the foundations for what would eventually become the discipline of prehistoric archaeology. Stukeley is also renowned for his obsession with druids and attempting to associate all prehistoric monuments in Britain with them as part of his ancient justification for the Church of England. Politics and religion then, as now, permeated much of the work taking place.

The romantic period, although sometimes viewed as a period of intellectual decline in historical and antiquarian studies, did encourage people to participate in large scale studies of burial mounds and barrows. Antiquarians such as Reverend Bryan Faussett (1720-76), Charles Roach Smith (1807-90) and Joseph Mayer (1803-86) recorded the stratigraphy of monuments as well as attempting to make chronological inferences based on the placement and type of objects within them (Trigger 2006: 113). Faussett, Smith and Mayer (1856) for example, record antiquities excavated in Kent. These antiquarians, however, were still unable to ascribe these monuments to the successive inhabitants of Britain.

The place of the Vikings within antiquarian studies is largely un-documented. Antiquarians did take an interest in early medieval history, and the “Danes were very fashionable in antiquarian circles for a time, and were apparently everywhere” (Thompson pers comm. 2009). In searching the HERs it was not uncommon to come
across records relating to a “Danish camp” or “Danish rampart”. More often than not, the historical as opposed to archaeological basis for these records seemed to indicate that the site was designated under antiquarian speculation. The source of the antiquarian ‘interest’ in referring to sites as ‘Danish’ or ‘Viking’ in England may have originated in the 16th century, when “politics and religion inspired an interest in the good old days of an independent Anglo-Saxon state” (Hall 2007:218). The Anglo-Saxon Chronicle provided a guide of times and dates from which coins could be dated, but aside from this “guesswork was the order of the day” (Hall 2007:218).

The Danes were also credited by analogy, with constructing some of the more famous monuments of Britain. The surveys of the antiquarians John Leland and William Camden in the 16th century “found nothing quite like Stonehenge elsewhere in Britain, nor was there anything quite like it in Europe” (Chippindale 1983:61) and antiquarians looked for comparative monuments. Camden is considered by Schnapp (1996:140) to have “emerged as a model” for others to follow and he was also one of the first to emphasize “the Anglo-Saxon nature of the British Isles” (Schnapp 1996:140). Leland and Camden were well aware of the Danes, with both commenting on their presence in England in works such as The Itinerary by Leland (Translated by Hearne (1744:41) and Britannia by Camden (Translated by Sutton 2004: a & b), written in 1607.

The ‘hunnebedden’ of Holland – long tombs with massive capstones, were hypothesized to be Dutch versions of Stonehenge, but the Dutch had never settled in Britain. The Danish version however, known as ‘dysser’, were being studied by the 17th century Danish antiquarian Olaus Worm (1588-1655). After corresponding with Worm, the physician of King Charles II, Dr. Walter Charleton (1619-1707), convinced himself that the ‘dysser’ were the prototypes for Stonehenge and as the
Danes had invaded and settled in Britain during the 9th century, the construction of the monument must have been by them (Chippindale 1983:61). Aubrey was quick to realise, however, that Stonehenge and other stone circles in Wiltshire were similar to the stone circles in North and West Britain, “where Romans, Saxons and Danes had penetrated scarcely or not at all... This distribution showed, entirely by proof of the monuments themselves, that stone circles were... native British” (Chippindale 1983:70). Despite this, antiquarian attribution of sites to the Danes was to continue through the 18th, 19th and early 20th centuries.

A discovery was made whilst undertaking the search of the HERs that epitomises the nature of the study of Viking fortifications in Britain. At Barton Upon Humber, Lincolnshire, a possible Viking defensive site occupies the site of the late 10th century St. Peter’s church. Underneath the church lies a Christian cemetery, under which lies a sub-circular bank and ditch enclosure, possibly dating to the 8th or 9th Centuries (Bryant 1994:73). As no dating evidence was recovered from excavation of the ditch, which had to be dated by stratigraphy, there remain a number of possibilities as to the nature of this site, one of which being that it was a Danish Camp or burh (indeed Reynolds (2003:117) states that “its defensive nature is clear enough”). Bryant states that when Vikings in Britain could not build their fortifications by rivers, they built circular or sub-circular enclosures, similar to the one under St. Peter’s church and cites two examples – Howbury in Bedfordshire (also referred to as Renhold) and Ringmere in Norfolk (Bryant 1994:75). It seems that Bryant may well have obtained these sources from scholars such as Dyer as indeed he mentions both of these sites (Dyer 1972:231, 232). Dyer in turn references and may have used Goddard’s (1904:284) Victoria County History for Bedfordshire, which
addresses the site at Renhold. For this particular site, Goddard seems to have gained information relating to the site from the antiquary John Leland, but he does not reference the source other than to say that Leland described it so. Leland states that a number of skeletons were found between Renhold and Bedford and that they may be of troops who operated out of the ‘Danish outposts’ of Renhold and Willington (Goddard 1904:285). This chain of references perfectly demonstrates how even in the late 20th century, many scholars may be indirectly relying on antiquated interpretations formed over 300 years ago. It is interesting to note that for the site at Ringmere, Dyer (1972:232) states that “excavation has failed to produce dating evidence, which in itself suggests only a brief occupation” by the Danish Vikings. With works such as Dyer (1972) being inevitably used by scholars in the present day, the idea of a lack of evidence being ‘evidence’ for a Viking presence makes the subject worthy of discussion. A total clearance of sites may well have been a Viking practice and thus would be an indicator, albeit a negative one, of their presence. The situation described here was not unique in the search through the HERs.

With this in mind, the counties in Britain containing information of possible Viking sites will be addressed alphabetically. The reason for this is for ease of reference – though there are counties that were more obviously settled by the Danes than others, this study is addressing the fortified sites constructed and as yet there is no specified correlation between fortification construction and settlement. Thus an alphabetical list of the counties will allow this chapter to also act as a gazetteer of sites (Figure 4.1).
<table>
<thead>
<tr>
<th>County</th>
<th>Site Name</th>
<th>Modern Source(s)</th>
<th>Original Source(s)</th>
<th>Supporting Evidence</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clapham</td>
<td>Dyer (1972)</td>
<td>N/A</td>
<td>Goddard (1904)</td>
<td>None – Site is largely destroyed by gravel digging.</td>
</tr>
<tr>
<td>Manor Farm</td>
<td>Dyer (1962)\nDyer (1972)</td>
<td>Goddard (1904)</td>
<td></td>
<td>None</td>
</tr>
<tr>
<td>Etonbury</td>
<td>Dyer (1972)</td>
<td>(Goddard 1904)</td>
<td></td>
<td>None</td>
</tr>
<tr>
<td>Renhold</td>
<td>Dyer (1972)</td>
<td>Prior (1886)\nGoddard (1904)\nWilliams (1912)</td>
<td></td>
<td>None</td>
</tr>
<tr>
<td>Seymour’s Mount</td>
<td>Dyer (1972)</td>
<td>Goddard (1904)</td>
<td></td>
<td>None</td>
</tr>
<tr>
<td>Risinghoe</td>
<td>N/A</td>
<td>Goddard (1904)</td>
<td></td>
<td>None</td>
</tr>
<tr>
<td>Region</td>
<td>Location</td>
<td>Authors</td>
<td>References</td>
<td>Notes</td>
</tr>
<tr>
<td>-----------------</td>
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<td>-------</td>
</tr>
<tr>
<td>Berkshire</td>
<td>Danish ‘camp’ between Rivers Thames and Kennet</td>
<td>N/A</td>
<td><em>The Anglo-Saxon Chronicle</em> (Swanton 2000)</td>
<td>None</td>
</tr>
<tr>
<td>Cambridgeshire</td>
<td>Great Shelford</td>
<td>Hart (1995)</td>
<td>N/A</td>
<td>Possible aceramic period between Roman and Norman period – Viking occupation?</td>
</tr>
<tr>
<td>Gannock’s Castle Beeston Berrys Blunham</td>
<td>Dyer (1972)</td>
<td>Edgeworth (2006, 2008)</td>
<td>Goddard (1903)</td>
<td>Goddard states that a mound covering the entrance in the south east of the enclosure is a typically Danish feature.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>None</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>The site is situated at a confluence of rivers enclosing a length of shoreline. Cropmarks show a D-shaped ditch enclosing the site, which may be situated within a much larger D-shaped enclosure. Camden refers to a fort at ‘Temesford’ in <em>Britannia</em>, although this most probably simply demonstrates a knowledge of the <em>Anglo-Saxon Chronicle</em>.</td>
</tr>
</tbody>
</table>

Camden (1607) (in Sutton 2004a)
<table>
<thead>
<tr>
<th>Location</th>
<th>Site Name</th>
<th>Reference</th>
<th>Evidence/Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cheshire</td>
<td>Burton Point Promontory Fort</td>
<td>Laing (1985)</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Similar sites exist on the Isle of Man, some of which appear to have been constructed or occupied by Vikings.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Burials dating to the 10th and 11th centuries were cut into the ditch fill. Also, the discovery of a large number of skeletons with Viking artefacts (eg. Thor’s Hammers). Some of the skeletons also displayed possible signs of battle trauma.</td>
</tr>
<tr>
<td>Devonshire</td>
<td>Exmouth</td>
<td>N/A</td>
<td>Westcote (1845)</td>
</tr>
<tr>
<td>Co. Durham</td>
<td>‘Danish Camp’ near Sunderland Bridge</td>
<td>N/A</td>
<td>Cade (1785)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>None</td>
</tr>
<tr>
<td>East Riding of Yorkshire</td>
<td>East Riding</td>
<td>N/A</td>
<td>Stovin (1752) in Jackson (1882)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>None</td>
</tr>
<tr>
<td>Essex</td>
<td>Butts Hill, Canewdon, Rochford</td>
<td>N/A</td>
<td>Chalkley Gould (1903)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Chalkley Gould (1903)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Old map evidence shows an oblong enclosure labelled as Canute’s camp.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Morris &amp; Buckley state that perhaps any Viking occupation was aceramic.</td>
</tr>
<tr>
<td>Location</td>
<td>Reference(s)</td>
<td>Notes</td>
<td></td>
</tr>
<tr>
<td>---------------------</td>
<td>--------------</td>
<td>----------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>Pandal Wood</td>
<td>Laver (1930)</td>
<td>A Feet of Fines for 1206-7 mentions ‘Sunecastre’, believed by Laver (1930) to be this site. The <em>Anglo-Saxon Chronicle</em> (Swanton 2000)</td>
<td>Certain features of the site appear to correspond to other theorised Viking sites. The proximity to a possible Roman road may also be considered to be influential.</td>
</tr>
<tr>
<td>Benfleet</td>
<td>N/A</td>
<td>Camden (1607) (in Sutton 2004b) Spurrell (1885) The <em>Anglo-Saxon Chronicle</em> (Swanton 2000)</td>
<td>Proximity of the site to water. A legend dating from c.1850 concerns the discovery of skeletons and burnt ships during railway construction, which are thought to be the remains of men killed when the Anglo-Saxons attacked the camp.</td>
</tr>
<tr>
<td>Shoeburyness</td>
<td>N/A</td>
<td>Camden (1607) (in Sutton 2004b) Spurrell (1890) The <em>Anglo-Saxon Chronicle</em> (Swanton 2000)</td>
<td>The size of the camp may correspond to the two armies that are supposed to have gathered there.</td>
</tr>
<tr>
<td>West Mersea</td>
<td>Stenton (1971)</td>
<td>The <em>Anglo-Saxon Chronicle</em> (Swanton 2000)</td>
<td>None</td>
</tr>
<tr>
<td>Gloucestershire</td>
<td>Offa’s Dyke</td>
<td>Ormerod (1842)</td>
<td>None</td>
</tr>
<tr>
<td>Greater London</td>
<td>Greenwich</td>
<td>Harris (1719) Lysons (1796)</td>
<td>None</td>
</tr>
<tr>
<td>County</td>
<td>Site Name</td>
<td>Date Available</td>
<td>Reference(s)</td>
</tr>
<tr>
<td>----------</td>
<td>----------------------------------</td>
<td>----------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Hertfordshire</td>
<td>‘Danish Camp’, Hertford</td>
<td>N/A</td>
<td>Clark (1884)</td>
</tr>
<tr>
<td></td>
<td>Frogmore Lodge, Aston</td>
<td>N/A</td>
<td>Pollard (1907)</td>
</tr>
<tr>
<td>Kent</td>
<td>Isle of Sheppey</td>
<td>N/A</td>
<td>The <em>Anglo-Saxon Chronicle</em> (Swanton 2000)</td>
</tr>
<tr>
<td></td>
<td>Rochester</td>
<td>N/A</td>
<td>The <em>Anglo-Saxon Chronicle</em> (Swanton 2000)</td>
</tr>
<tr>
<td></td>
<td>Swaines Down</td>
<td>N/A</td>
<td>Hasted (1782)</td>
</tr>
<tr>
<td></td>
<td>Castle Toll, Newenden</td>
<td>Davison (1972)</td>
<td>The <em>Anglo-Saxon Chronicle</em> (Swanton 2000) Kilburn (1659)</td>
</tr>
<tr>
<td>Lincolnshire</td>
<td>Manwar Ings, Swineshead</td>
<td>N/A</td>
<td>Marrat (1816) Kilburn (1659) Thompson (1856)</td>
</tr>
<tr>
<td>Location</td>
<td>Site</td>
<td>Reference(s)</td>
<td>Notes</td>
</tr>
<tr>
<td>------------</td>
<td>---------------</td>
<td>-------------------------------------------</td>
<td>----------------------------------------------------------------------</td>
</tr>
<tr>
<td>Hubbert’s Bridge Gainsborough Barton Upon Humber</td>
<td>N/A Bryant (1994)</td>
<td>N/A Godfrey (1666) in Allen (1834) Stark (1817)</td>
<td>None – This is a local legend. Allen states that in 1815-16, workers uncovered artefacts including a knife, a battle axe “much resembling an Indian tomahawk” (Allen 1834:26) and a horseshoe. The enclosure partially lies underneath a tenth century church and Christian cemetery, indicating a date in the 8th-9th centuries.</td>
</tr>
<tr>
<td>Norfolk</td>
<td>Warham Camp</td>
<td>Gray (1933) Dyer (1972)</td>
<td>A lack of artefactual evidence at the site can be interpreted of being a possible indicator of Viking occupation. The regularity of the site is reminiscent of the Trelleborg fortresses.</td>
</tr>
<tr>
<td>Shropshire</td>
<td>Quatford</td>
<td>N/A</td>
<td>The <em>Anglo-Saxon Chronicle</em> (Swanton 2000) Clark (1884)</td>
</tr>
</tbody>
</table>


<table>
<thead>
<tr>
<th>Country</th>
<th>Location</th>
<th>Author(s)</th>
<th>Published Yr</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suffolk</td>
<td>South Cove (Possibly the site of Frostenden in the Domesday Book).</td>
<td>Brown (unpublished)</td>
<td>N/A</td>
<td>The site has been partially excavated, revealing evidence of a palisade, medieval sherds and burning. This could suggest Viking occupation.</td>
</tr>
<tr>
<td>Wales</td>
<td>Buttington, Powys</td>
<td>Redknap (2000)</td>
<td>Boyd-Dawkins (1873)</td>
<td>Skeletal remains recovered from Buttington churchyard were interpreted as showing battle trauma. Boyd-Dawkins believed that he could trace the earthwork outlines of the camp. Human skeletons found in settlement ditch may have been executed – their hands were tied behind their backs. Quantities of hacksilver, weights and other metal objects reveal that the settlement may have been occupied by Vikings.</td>
</tr>
<tr>
<td>Llanbedrgoch</td>
<td></td>
<td>Redknap (2000)</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Scotland</td>
<td>The Udal, North Uist</td>
<td>Hall (2007)</td>
<td>N/A</td>
<td>Small ‘fort’ (7m across) that seems to have been quickly abandoned and used for domestic purposes.</td>
</tr>
</tbody>
</table>

Figure 4.1: Table of possible Viking fortification sites in the UK.
The antiquarian influence in the interpretation of these sites as Viking can be seen above. Several discussions arise from this, the most important being the reliance of present day scholars on older sources, which in turn rely on antiquarian sources. Whilst it is important to stress that the work of antiquarians is not inferior, it is equally important to recognise that their interpretations need to be thoroughly investigated, especially in light of subsequent work. One should note that the antiquarian interpretations of sites are not an obstacle for archaeologists to overcome, but are simply another resource of information that needs to be taken into account when investigating a site.

Dyer’s (1972) article for example is used by scholars such as Richards (2004) to name sites that were built or occupied by the Danes during their invasion of Britain. Though Dyer does not reference his sources directly, he does supply a bibliography that includes much older works such as Allcroft’s (1908) *Earthwork of England*. For his analysis of Bedfordshire especially, Dyer uses a number of sources including Goddard’s (1904) account in the Victoria History of the county, as well as another work by the same author published in the *Saga-Book of the Viking Club* (1902). Goddard’s conclusions are partly his own (or at least unreferenced) and partly informed by antiquarians such as Leland. The list of sites compiled from the HER search also uses other sources such as Clark (1884), Westcote (1845), Lysons (1796), Jackson (1882) and Kilburn (1659), showing the reliance on scholars who were writing up to 350 years ago.

Should this use of antiquarian sources immediately lead us to the conclusion that Goddard’s, hence Dyer’s and therefore any scholar that uses Dyer as a key source’s work is speculative and most probably wrong? The answer can only be no, as
antiquarians such as Leland were interpreting what they either observed or recorded from inhabitants of the local area. The antiquarians were scholars, producing good work and good quality sources that are still of use to us today. As such there is no need to disregard their work. It is in the cases of the folklore that they recorded that we need to investigate the validity of sources – local ‘sources’ could in fact merely be relaying a folk tale or legend, especially in the absence of physical evidence. Camden, in his work *Britannia* (1607), notes that ‘Battle Hills’, Essex, is believed to be a Danish burial ground due to the red berried Danewort plants which grew there, as the local inhabitants “still call [it] by no other name than Danes-bloud… [due to] the number of Danes that were there slaine, verily beleeving that it blometh from their bloud” (Sutton 2004b). Whether the area is believed to be a battlefield due to the presence of Danewort or because a battle was actually fought there is inevitably entangled in the myth itself and can often mistakenly be taken as ‘fact’.

Many antiquarians had no notion of prehistoric archaeology, assigning Danish dates to sites in an attempt to explain them, with the names of sites “tend[ing] to be of such a rationalising nature” (Collis 1999:131). In their discussion of archaeology and its ties with folklore, Gazin-Schwartz and Holtorf acknowledge that;

> “folklore cannot be accepted on face value as portraying factual truths about the past. But neither can it be rejected as false… Acknowledging the historical dimensions of items of folklore can allow us to develop analytical approaches to their use as historical sources” (Gazin-Schwartz & Holtorf 1997:14).

In the past folklore and ‘archaeology’ were linked and “both archaeologists and folklorists trace the origins of their disciplines to the work of antiquarians in the
sixteenth to nineteenth centuries” (Gazin-Schwartz & Holtorf 1997:6). With the concern that modern day archaeology has for scientific approaches to material culture and accurate dating, it is easy to forget that antiquarians were collectors of both archaeological and anthropological information, which inevitably includes folklore. Whilst Camden’s reference to Danewort growing on the graves of Danes is obviously not true, the folk tale preserves the ‘memory’ of a battle that may have taken place in the vicinity. Therefore, if true, this can be useful to archaeologists when treated with the appropriate amount of caution – “Camden embodied a British archaeology… which knew how to draw on local traditions as well as details of the landscape” (Schnapp 1996:141). At other locations where folk traditions indicate a possible archaeological site, field investigation would be necessary to validate this. The use of folklore, however, as part of a multidisciplinary approach could be a useful contribution to archaeological studies.

It is important to note that in his discussion of Bedfordshire and Essex, however, Camden makes correct references to Viking fortifications at ‘Temesford’, Benfleet and Shoeburyness. This demonstrates his knowledge of the Anglo-Saxon Chronicle and his attempt to contextualise what he saw – “the antiquary was no sorcerer guided only by the force of his imagination: his task was to bring to light objects and monuments… [and] also rules for his interpretation” (Schnapp 1996:195). By combining local knowledge and folklore traditions as well as observations on the ground, antiquarians were not making unreasonable or irrational interpretations – this was accepted as a common way of interpreting archaeology.

Unfortunately, the study of Viking fortified sites is in a form of limbo, relying on old and sometimes unsubstantiated sources as well as the physical evidence of existing sites. We know that many of these sites exist and have been awaiting
investigation for a long while, yet we have not undertaken these investigations to
discover their true nature. Whilst investigative measures such as aerial photography as
part of the National Mapping Programme have taken place, this can only tell us so
much. Field work is essential to properly establish the extent of a site and then, if
possible, further investigations can attempt to gain dateable evidence.

Many supposedly ‘Viking’ sites have been reclassified in more recent years –
Risinghoe, Bedfordshire, which was interpreted by Goddard (1904:296) to be a
Viking burial mound or observation platform, but has since been reclassified as a
medieval motte & bailey (1100-1199) (English Heritage 2007b). There is a lack of
investigation in reclassifying these monuments and although it is possible to make
very reasonable and accurate hypotheses as to the nature of the sites, the need for
further study is still prevalent. The same is true for the monument at Renhold, which
is mentioned by Williams (1912:215) as being an “ancient Danish outpost, in the
entrenchments of which early in the 19th century, many bodies were found near the
surface”, relating to Leland’s claim of skeletons being found in the local area with
Saxon swords and spearheads. The earthwork has since been re-classified as most
likely being a ‘medieval’ ringwork after a number of field visits. None of these
however, included the investigation that the accurate classification of these sites
demands. Though there are many years of experience behind the re-interpretation of
these monuments, so little is known about Viking Age fortifications that excavation or
non-invasive survey is necessary in order to attempt to establish a model of what may
be considered ‘Viking’.

There is always the possibility that the antiquarians and early 20th century
writers correctly identified the sites as Viking. One can only realistically hope to
accurately classify these monuments after individually tailored field investigation. It must be accepted that we may never know who first associated many of these sites with the Vikings. With such a clouded view of the past, we cannot be sure whether local folk traditions, antiquarians or simple speculation are the contributing factor. What is certain is that many of these sites have been believed to be of Viking construction for at least a hundred years.

Regional research frameworks vary in their consideration of the importance of these sites. The frameworks for the two counties that are used as case studies in this work - Bedfordshire and Essex (as part of the Greater Thames Estuary) were analysed. It was noted that for the latter, there is much archaeology remaining from the Anglo-Saxon period, with the Vikings mentioned as providing an impetus for the reoccupation of London (Williams & Brown 1999:17). It is interesting to note however, that when considering “Historic Defences and Other Military Installations”, the regional framework considers Roman defences of towns and Saxon Shore forts and then goes on to consider Norman and Medieval defences (Williams & Brown 1999:19) The Early Medieval period and Viking Age is therefore left untouched, despite the large scale conflict that took place around the Thames Estuary during this period (for example a Viking attack on London in 994 (Swanton 2000:126) and the 1016 Battle of Ashingdon). With regards to the Bedfordshire regional framework, the Vikings are acknowledged as having a great impact on Middle Saxon settlement, the economy and society (Oake 2007:13). The Danes are addressed in the framework by Edgeworth, who acknowledges that their archaeological signature presents a problem and the difficulty encountered in locating their fortifications is highlighted (Edgeworth 2007:96). Though Edgeworth’s interests obviously lie within the study of
the Viking fortifications with regards to Tempsford, he presents a good case for further research. Even though the archaeology is “understated and underplayed” (Edgeworth 2007:108), “the impact of the Danish invasion and settlement… [goes] far beyond county boundaries” (Edgeworth 2007:109). As part of the ‘Research Agenda and Strategy’, Oake (2007:13) states that the impact of the Danes “is an area that requires further research”, showing that in Bedfordshire there is a real concern with attempting to better understand the Viking Age. Researching the Viking Age as part of regional frameworks will certainly allow us to learn more about the period.

This study began as a search for Viking fortified sites across Britain – the HER search ensuring that as many as possible were accounted for. What emerged from this was a very small number of theorised Viking sites, with only one, (Repton) yielding archaeological evidence that it may have been a Viking fortified site. Even this site is doubted by some, as will be discussed later. Antiquarians, however, are not fully responsible for the current state of affairs. Investigations of theorised Viking sites in Ireland have contributed to a material signature of Viking fortified sites which may not even be accurate. Whilst archaeologists in Ireland have fared better in investigating sites (including large scale excavation at Woodstown), even these have produced little in the way of conclusive evidence of a Viking military presence. As a result, this study will now go on to discuss the ‘Viking’ sites located within the HERs using Bedfordshire and Essex as regional studies.
Chapter 5

Case Studies: Bedfordshire and Essex

Bedfordshire features prominently in the Viking Age, located on the border of the Danelaw and the Anglo-Saxon kingdom of Wessex. The county witnessed vicious fighting as the Danes and Anglo-Saxons raided and counter-raided each other, Bedford being a main target of Viking aggression. It is not surprising therefore, that 11 theorised Viking sites exist in the county, with the origins for these claims ranging from those of the antiquarians (inc. Goddard (1904), Prior (1886)) to Edgeworth’s (2006, 2008) recent ‘undiscovered’ site (See Figures 5.1 & 5.4).

In recent years, there seems to have been an unspoken acknowledgement that Viking sites, whether Norse or Danish, share a set of identifying ‘characteristics’ that make a bold statement as to the identity of the builders. Locating the original source of these characteristics is difficult, but Spurrell suggests that there was a set of expected norms – at least in his mind – when examining both Viking and Anglo-Saxon defences. When describing the ‘camp’ at Shoeburyness, Essex, Spurrell (1890:79) states that the earthworks are “in accordance with the general mode of fortification [used] at that time both by Danes and Saxons”. Goddard (1904:280) also highlights cultural indicators of Viking fortifications when describing the sites at Etonbury, stating that “the small mounds at the end of the ramparts are found in works reputedly Danish” and Willington, which has “certain unusual features, which appear to mark it also as Danish” (Goddard 1904:282).
Despite this, especially regarding Spurrell’s remarks, Armitage (1900:260) writes that “I am not aware that any serious attempt has ever yet been made to ascertain what the nature of an Anglo-Saxon fortification was”. This is notable considering that ten years earlier, Spurrell cites some sort of standardised method of recognising Saxon and Danish sites. Armitage goes on to highlight the reliance on old sources and methods, stating that “it seems strange that in the nineteenth century any archaeologist of reputation should still follow the method of the archaeologists of a hundred or two hundred years ago, who first guessed at things, and then said they were so” (Armitage 1900:260). Did, therefore, antiquarian scholars of the past construct a set of identifying factors for recognizing Viking sites? It may certainly seem so, indicating that the issue of ‘recognising’ a Viking site is one that is in serious need of review.
Figure 5.1: Hypothesised Viking sites in Bedfordshire obtained from the search of British HERs.
The Sites

Goddard (1904) pays close attention to the possible Viking sites of Bedfordshire, especially the ‘Danish Docks’, Willington. As the site fronts the River Great Ouse, he believes that it may be where the Danes left their ships before continuing to Bedford on foot (Goddard 1904:284). Goddard describes ‘Danish’ features, taken from Cohen (1965:42) to be the existence of an inner and outer ‘ward’ similar to the Trelleborg fortresses. The site consists of three ‘D-shaped’ enclosures (Dyer 1972) and a rectangular harbour, west of which lie ‘nausts’ to shelter boats (Goddard 1904:282). Dyer (1972:229) draws similarities between the site and the semi-legendary Jomsburg, home of the Jómsvíkings, which had two fortified areas to shelter the garrison and harbour respectively. Goddard (1904:284) states that the “Northmen were accustomed to provide some such shelter for their fleets when campaigning”, with the fortification ditches being connected with the Great Ouse and thus water filled. Excavations at Willington in 1973 revealed remains of a stone-built, early medieval building, post-holes and 12th-13th Century pottery, below which were some timber finds (Hassall 1973). The raised section of the site produced early medieval pottery and the corner of a timber building. Hassall concludes that the site was probably a 12th-14th century manor or farm building (Hassall 1973).

Dyer identifies another ‘harbour’ site, which exists on the south bank of the Ouse at Clapham (Dyer 1972:231), where the river bank is penetrated by inlets which form a harbour. Unfortunately the site has been largely destroyed by gravel digging.
Church Panel, Shillington, is another D-shaped site, with a stream forming the straight line of the ‘D’. Goddard (1904:276) compares the site to refuge sites such as Alfred the Great’s at Athelney. Dyer (1972:226) similarly suggests that the site was a refuge “rather than a base camp” and the stream prior to modern drainage “would have been navigable by boats of shallow draught, thus affording a quick ‘get-away’ leading into the river Ivel”. Clarke (1963) however, states that “this is almost certainly later canalisation and probably replaces an original ditch and inner rampart”. The site is now considered to probably be a Medieval manorial site (English Heritage 2010b).

At Manor Farm, just North of Bolnhurst is a circular Iron Age hillfort, the Northern half of which was adapted for occupation by another, later earthwork (Goddard 1904:275). The limits of this earthwork are not clear and little remains of the bank and ditch. Dyer (1972:226 & 227) states that “this site... is certainly not prehistoric as has been suggested”, but has the same characteristics as the Trelleborg fortresses, although if only half the camp were adapted for later use as is stated above, this would make it a D-shaped enclosure. Occasional finds at the site include Roman pottery and a silver denarius. There also exists “a small rectangular moated outwork [that] can be seen to the north of the main enclosure… thought to form part of the medieval moated complex” (Bedfordshire County Council 1991).

Etonbury in Arlesey is another ‘harbour’ site which “was later used for manorial purposes, particularly on the eastern side” (Dyer 1972:229). The site features possible D-shaped enclosures on the River Hiz to the north of the large ‘harbour’. Unfortunately, railway construction and other works mean that the overall layout of the site is hard to interpret. Goddard (1904:280) states that “the small
mounds at the ends of the ramparts are found in works reputedly Danish and the shallows near the river... may have sheltered their shipping”. This site is conspicuously larger than the other Bedfordshire sites and there are claims that it may be a deserted settlement (English Heritage 2007c).

The earthwork at Renhold is described by Goddard (1904:284-5) as a “curious small circular earthwork... [and] an outpost of the Danes” that guarded the approach along the River Great Ouse along with Willington, little over a mile away. It has previously been interpreted as a Roman amphitheatre and is surrounded by other earthworks that cannot be definitely associated with it (Bedfordshire County Council 2009b). Goddard (1904:285) also mentions Leland’s commentary of skeletons found in the local area. The earthwork has been subject to several observations and commentaries and despite Dyer’s (1972:231) statement that “there is a greater chance of confusing these sites with Norman ring-works, and indeed only excavation is likely to establish their identity with certainty”, the earthwork is now classed as a ring-work by English Heritage.

Seymour’s Mount, Steppingley is a “flat circular area 110 feet [(c.34 metres)] in diameter” (Dyer 1972:233) that has been dug out of a spur of land, with some of the material being used to create a low bank around the rim of the hollow. The earthwork is cut off from the main hill mass to the east by a moat and Dyer (1972:234) interprets the site as an observation point for those wishing to observe the land to the west, whilst notes in the HER suggest that it may have been used as a rabbit warren. The site is classified by English Heritage as an early medieval ring-work.
It is important to include the supposed fortification at Risinghoe, now acknowledged to be a motte & bailey castle with no trace of the bailey remaining. Goddard (1904) states that this monument was a Viking burial mound or observation platform and thus deserves a place among the possible Viking military structures of the county. Measuring only c. 20 metres in diameter, this mound looks similar to a barrow and its history is obscure.

The following three sites are all claimed to be the possible location of the Danish fort at Tempsford, besieged and destroyed in 917 by the Anglo-Saxons (Swanton 2000:102) in retaliation for raids on Bedford. The result was the slaying of the Danish king and several jarls. With such a high-ranking list of casualties, this battle was obviously an important event in the Viking wars. Camden writes that “Temesford, [was] well knowne by reason of the Danes standing campe and the castle there, which they built when they wintering in campe lay sore upon this countrie” (Sutton 2004a). This is not Camden professing to know the location of the fortress, but it does show that he had a good knowledge of the *Anglo-Saxon Chronicle*.

Gannock’s Castle is a rectangular, moated earthwork situated at the village of Tempsford itself, about 400 yards from the east bank of the River Ivel (Dyer 1972:225). Described by Goddard (1904:281) as “an advanced post of the Danes”, the earthwork is small and would not have been able to accommodate a large number of men. Indeed, Wadmore (1920:69) states that “its dimensions are altogether too small to serve the needs of any military expeditionary force of even 1,000 men”. Though Wadmore (1920:65) could not locate any outlying ramparts, he was informed that
they did exist, although their location was not mentioned. The form of the site does not indicate who built it (assuming that it is possible to interpret this in the first place) and Dyer (1972:225) states that “the angular shape of Gannock’s castle is wrong, if Danish constructions in England are to resemble the curved outlines of those in Scandinavia”. English Heritage, however, still classes the site as an ‘early medieval fort’ and it seems that the only way to fully clarify the nature of the site would be to excavate it. Ground Penetrating Radar survey undertaken by the Friends of Gannock’s Castle in 2004 revealed a structure, most probably 11th-12th century, but the monument is heavily protected by legislation (Bedfordshire County Council 2009c). If there are no outlying earthworks that would significantly increase the size of the site, then the probability lies with it being a medieval moated site. This site could be similar to Castle Rough, Sittingbourne – a small, square enclosure with a moat considered by some to be the site of Hasten’s camp of 893. This site is too small to have held an army and was regarded by Spurrell (1885:294) to be a 13th or 14th century fortified manor. Without excavation evidence indicating the date and function of the site however, Gannock’s castle remains a possible location of the Tempsford fortification. This raises the question as to the use of preserving a site without a real idea of its true origin and purpose.

Beeston Berrys, located three miles south of the village at Sandy, has been destroyed by market gardening although there was apparently an irregular, D-shaped enclosure fronting the river Ivel that features on early Ordnance Survey maps (Dyer 1972:225). No D-shaped enclosure, however, can be seen on old maps, such as a 1748 map of the local area (Bedfordshire County Council 2009d). There is little to say
about this site due to its demolished nature, but Edgeworth (2006:9) states that it is too far from Tempsford to be considered as the Danish site.

Edgeworth’s own theorised site lies on the south bank of the River Great Ouse just inside the parish of Blunham. The D-shaped enclosure lies within a possible larger enclosure formed by the boundary of the field lying directly to the south of the site and a former course of the River Ivel, which Edgeworth believes ran further west than its current course (Figures 5.2 & 5.3). Within the inner enclosure is the ‘caftle’ (the name of which comes from a 1719 map) and another, smaller enclosure to the west end, as well as “a series of at least 8 evenly spaced spoke-like linear features” (Edgeworth 2008:11) and an oval, mound like structure.

If Edgeworth’s hypothesis is correct, the site would be far larger than those mentioned thus far (over 800 metres long and 300 metres wide). Whilst this may seem like a huge area, Edgeworth (2006:8) argues that a Viking force of 2-3,000 men with horses and provisions would need such an area for habitation and pasture. This is an interesting consideration, as Gibbons’ (2004:23) discussion of Viking longphort sites leads him to conclude that the fortified longphort at Repton would not have been large enough to house the men and provisions of a Viking ‘great army’ numbering in the thousands. It is also notable that the recently excavated site at Woodstown, Co. Waterford, Ireland, may be 1500 metres in length and extend a kilometre inland, although the site is argued by Maas (2004) to be a town. Edgeworth (2008:10) also identifies bays on both the east and west sides of the ‘caftle’ site although they seem too small to be harbours. Furthermore, Edgeworth considers the area to have been the site of a ford for an ancient road along which cropmarks indicate a possible Romano-British village to the south. This would obviously place the site at a useful point for
transport and trade. The “Castle Ford” was eradicated in the 1630’s when the Great Ouse was being made navigable up to Great Barford, giving “some degree of confirmation that the site of ‘the caftle’ was associated with a ford” (Edgeworth 2006:6). Finally, the ‘caftle’ not only contains a smaller, D-shaped enclosure in the western end of the area but also an oval shaped feature, which Edgeworth (2006:4) believes was an upstanding mound.
Figure 5.2: The Tempsford site shown on a 1945 aerial photograph. Photo courtesy of: The Historic Environment Record for Central Bedfordshire Council.
Boundary of East Meadow, which could be the boundary of an outer fortification. This would effectively seal off the entire area from attack.

Possible former course of the river Ivel.

Modern day course of the river Ivel.

Area referred to as the “caftle” in 1719 map.

Figure 5.3: 1945 aerial photograph of the site with theoretical boundaries applied. Photo adapted from: The Historic Environment Record for Central Bedfordshire Council.
<table>
<thead>
<tr>
<th>Name</th>
<th>Location</th>
<th>Shape</th>
<th>Ditch?</th>
<th>Bank?</th>
<th>Riverine/Coastal?</th>
<th>Extra Features</th>
<th>Size (Length x Width)</th>
</tr>
</thead>
<tbody>
<tr>
<td>The ‘Docks’</td>
<td>Willington</td>
<td>3 x D-Shape Enclosures</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Possible ‘harbour’ and nausts where ships could be docked</td>
<td>160 x 180 metres</td>
</tr>
<tr>
<td>Monument 360585</td>
<td>Clapham</td>
<td>2 x Rectangular(?) inlets</td>
<td>N/A</td>
<td>N/A</td>
<td>Yes</td>
<td></td>
<td>230 x 65 metres?</td>
</tr>
<tr>
<td>Church Panel</td>
<td>Shillington</td>
<td>D-Shaped</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Stream may have replaced an original rampart</td>
<td>100 x 165 metres</td>
</tr>
<tr>
<td>Manor Farm</td>
<td>Bolnhurst</td>
<td>D-Shaped? Circular?</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Rectangular, moated outwork attached to Northern side of the site</td>
<td>195 x 188 metres</td>
</tr>
<tr>
<td>Etonbury</td>
<td>Arlesey</td>
<td>D-Shaped?</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Harbour site</td>
<td>250 x 210 metres</td>
</tr>
<tr>
<td>Monument 362997</td>
<td>Renhold</td>
<td>Circular Mound</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Possible outlying outworks</td>
<td>40 metres in diameter</td>
</tr>
<tr>
<td>Seymour’s Mount</td>
<td>Steppingly</td>
<td>Circular Hollow</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Possible moat blocking access to hill mass from east?</td>
<td>34 metres in diameter</td>
</tr>
<tr>
<td>Monument 360546</td>
<td>Risinghoe</td>
<td>Circular Mound</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Motte with no attached bailey?</td>
<td>20 metres in diameter</td>
</tr>
<tr>
<td>-----------------</td>
<td>-----------</td>
<td>----------------</td>
<td>-----</td>
<td>-----</td>
<td>----</td>
<td>-------------------------------</td>
<td>----------------------</td>
</tr>
<tr>
<td>Gannock’s Castle</td>
<td>Tempsford</td>
<td>Rectangular</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td></td>
<td>66 x 56 metres</td>
</tr>
<tr>
<td>Beeston Berrys</td>
<td>Sandy</td>
<td>Irregular D-Shape</td>
<td>N/a</td>
<td>N/a</td>
<td>Yes</td>
<td>Site has been destroyed</td>
<td>Unknown</td>
</tr>
<tr>
<td>Blunham</td>
<td>Blunham</td>
<td>D-shaped</td>
<td>Yes – Cropmark evidence</td>
<td>No</td>
<td>Yes</td>
<td>Site possibly lies within a larger D-shaped enclosure. The ‘Caftle’ enclosure may contain a possible oval shaped mound. There may be a ford present at the site, lying along an ancient road heading south-east from the site.</td>
<td>Inner enclosure – 75 x 25 metres Outer enclosure – 800 x 300 metres</td>
</tr>
</tbody>
</table>

Figure 5.4: Table of possible Viking fortification sites in Bedfordshire.
A noticeable feature is the number of sites incorporating D-shaped enclosures or “ringworks” (Dyer 1972:234). Dyer also highlights harbour sites as being in a category of their own.

Addressing the characteristic D-shaped enclosures, their association with the Vikings is very vague. The postulated longphort sites in Ireland such as Athlunkard, and Woodstown all incorporate such features, as does the site at Repton, Derby. The reports and articles published on these sites however are relatively recent and although Goddard (1904) writes that the Bedfordshire sites show characteristic ‘Danish’ or ‘Viking’ features, he does not specifically mention D-shaped enclosures. Where, therefore, does the origin of the D-shape association with the Vikings lie?

Spurrell (1890, 1885) writes of two possible Viking sites at Benfleet and Shoeburyness in Essex, yet these are not D-shaped and Spurrell does not note this as strange. Neither Goddard (1904) nor Allcroft (1908) mention D-shaped enclosures, nor do the older writings researched for this study.

It is possible that the association of D-shaped enclosures with the Vikings comes from comparison with Scandinavian earthworks such as Birka or Hedeby. The first references to D-shaped Viking enclosures in Bedfordshire that were identified during this study were Clarke (1963) and Dyer (1962, 1972) in articles in the Bedfordshire Magazine and Dyer’s (1972) article on the earthworks of the Danelaw frontier, where he compares Church Panel with Scandinavian sites (presumably Hedeby). With regards to D-shaped sites in Ireland, the earliest publication regarding the longphuirt was Kelly and Maas’ (1995) article on Dunrally and thus the phrase could not have been imported into the British literature by Dyer. Indeed, Reynolds (2003:117) states that “the earthwork enclosures first considered by James Dyer…share, very broadly, a ‘D’-shaped plan form”, suggesting that Dyer did indeed
coin the term himself. Kelly (2009) also states that he and Maas were aware of Dyer’s work and therefore were influenced by his terminology.

The circular nature of four of the above sites is another binding factor that seems to be acknowledged as “Viking”. They are altogether harder to discuss than the D-shaped enclosures, however, as there are numerous circular monuments around Britain that date from prehistory to the modern period. There are obviously comparisons to be made with the Trelleborg fortresses although these are larger than the relatively small mounds or ringworks that we are dealing with in Bedfordshire. In addition to this, the Trelleborg sites were built at a different date and in a different political and social environment. Indeed, considering the lack of finds and investigation at the Bedfordshire sites there are no grounds upon which to claim that they are Viking. Renhold, for example, is claimed to be Viking by Goddard not due to features of the site itself but due to its location on the Viking route to Bedford as well as Leland’s claims of Anglo-Saxon period skeletons in the vicinity. He also acknowledges that his hypothesis for Risinghoe relies mainly upon place-name evidence. Dyer (1972) does not mention Renhold but discusses Seymour’s Mount, Steppingley, describing it as a Viking Age observation post, from which a small group of men could “look westwards, with a moat… behind them for protection” (Dyer 2972:234).

There is a concern with circular fortifications in Europe, especially in the low countries, where “a series of circular earthworks... which all had a timber faced earth rampart surrounded by a wide ditch, has excited interest” (Hall 2007:76). Comparison of the Bedfordshire sites is dubious, as the latter are raised structures similar to motte & bailey castles (some having being reclassified thus) and they are much too small to
have been used in the way that the circular European fortifications are thought to have been used. A possible Viking site at Camp de Péran, Brittany, for example, measures c.139m in diameter. The only logical association with the Vikings that Goddard could have drawn from the monuments is their position on the River Great Ouse towards Bedford. In regard to Seymour’s Mount, Steppingley, the reason for Dyer’s selecting this monument in particular is not clear, though he compares it to an “almost identical site” called Stuttle’s Bank near to Stratton Audley, Oxfordshire, that “probably looked south-east in the main direction of Saxon advance” (Dyer 1972:234).

As mentioned above, ‘harbours’ seem to be another aspect of some of the Bedfordshire sites, two of the six sites with D-shaped enclosures featuring them. Given the shallow draught of Viking ships, which gave them the opportunity to penetrate far inland along river-ways, it would seem logical that at least some fortifications would feature an area to beach their ships.

The size of the Bedfordshire sites is also notable. Five of the seven sites recorded by Goddard in the *Victoria County Histories* are of relatively similar size, with the two circular sites having only 20 metres difference in diameter. For the three ‘D-shaped enclosure sites, the difference is only 35 metres in length and 88 metres in width, with the only site considerably larger being Etonbury, though the truncated nature of the site makes measuring it difficult. Gannock’s Castle is the only other site that significantly differs in size, measuring nearly 100 metres shorter in length and nearly 50 metres in length than the next smallest site. Does this indicate that there is some form of pre-determined size of fortification that Goddard and others were looking for? Indeed, it is possible to discount Gannock’s Castle as an anomaly, as Goddard (1904:282) provides a clear reason for its small size. He states that the main
Danish camp was at Willington, but after being defeated at Bedford they retreated to their fort at Tempsford where the siege and battle took place. These men would therefore be the whittled down remains of the force encamped at Willington and thus would not construct a large defensive perimeter.

Therefore we have a group of sites within the same locality all sharing a relatively common size. Goddard does not give specific size measurements for his sites (these were gained from HER records and scale drawings), but it may be possible that he was looking for sites of a certain size that would fit into his hypothesis of how large the Danish army operating in Bedfordshire would be. With regards to Willington, Goddard (1904:282) states that the ‘harbour’ there would allow space for “between twenty-five to thirty ships of the Gokstad type, which would allow for a force of about 2,500 men”. It is possible therefore, that Goddard was looking specifically for other sites with the same general dimensions, as it is clear from his writings that he does believe Willington to be the main base of operations for the Danish army.

We return to the question, therefore, of whether the Bedfordshire sites (or at least some of them) were all selected as ‘Viking’ due to shared elements in design that they all possess. Unfortunately, this is hard to tell as Goddard does not specify exactly what constitutes a Viking fortification and does not refer to any earlier source that may give an indication of this. It may be that whilst Goddard was looking for a site of a certain size, it was Dyer who first examined the D-shaped enclosures that are a feature of so many sites.

The next logical step would be to analyse another county which also contains a number of monuments in order to see if they share any similarities that may have
also resulted from the interpretations of a single scholar. The most appropriate county is Essex, with 5 monuments that are suitable for discussion (See Figures 5.5 & 5.6). This county was chosen as a comparison due to its location. It lies on the frontier of the Danelaw in close proximity to Bedfordshire so one could perhaps expect similarities across such a small geographical space. There is of course the possibility that any fortifications were being built by different Viking armies which would potentially account for any differences. Note that a site at West Mersea is not discussed as this is only testified in the *Anglo-Saxon Chronicle* and its location is unknown.
Figure 5.5: The hypothesised Viking sites in Essex obtained from the search of British HERs.
The Sites

The first site is ‘Hasten’s Camp’ Benfleet, mentioned in the Anglo-Saxon Chronicle for 893 (Swanton 2000:86), Camden’s Britannia (Sutton 2004b) and Spurrell (1885). Although Spurrell had “carefully examined the whole countryside; there is no other spot suitable to the need of the Danes or which shows even the semblance of earthworks” (Spurrell 1885:294). Spurrell does not describe the camp, but its location is identified with the Benfleet church yard (Essex County Council 1997:2). Assuming that the present churchyard, bounded to the north and west by a creek, was the location of the camp, then it could have been up to 120 metres in length and 80 in width. The shape of the camp is unknown as Spurrell does not include a description of the earthworks although these must have been present to warrant investigation of the site.

Spurrell writes five years later in 1890 on the suspected Viking fortification at Shoeburyness, where two Danish armies gathered in 894 before heading up the Thames Estuary (Swanton 2000:87). This camp is constructed “in accordance with the general mode of fortification at that time built both by Danes and Saxons” (Spurrell 1890:79), enclosing an area of about one third of a square mile. According to Spurrell’s plan, the enclosure is an irregular square in form and although originally situated inland, erosion by the sea has since truncated the site. It is clear however, that this was a very large earthwork indeed, although perhaps one should expect this if it were to shelter two armies. The ditch of the earthwork measures some 12 metres wide and 3 metres deep, with a bank raised about 4 metres on the inner side of this (Spurrell 1890:79). Despite the recovery of Iron Age pottery and Roman artefacts, the site is still known as the Danish Camp and it may be the case that the enclosure is Iron Age in date, but was reused by the Danes.
Laver, writing in 1930, believed that he had located ‘Sunecastre’ mentioned in a feet of fines in 1206 in Pandal Wood. The earthwork’s banks are c. 9 metres wide and run in fairly straight lines. They are of unequal length, the earthwork’s overall shape being almost pentagonal (Laver 1930:255). The site measures roughly 116 metres in length and 98 metres in width, making it similar in size to the Benfleet fortification. Laver believes that a low bank at the north end of the meadow that the earthwork lies in may be a Roman road, thus situating this monument on what may have been a transport link. There is a small mound in the western part of the enclosure, measuring two and a half metres in height and seven metres in diameter – a feature noted on other theorised Viking sites such as at Blunham, Bedfordshire and Dunrally, Ireland. The only definite opening noticed by Laver was situated in the northeast corner of the enclosure, measuring 12 metres in width. The only other notable feature is a mound in the southern rampart measuring one metre in height above the bank and six metres in diameter (Laver 1930:256). This could possibly be a resemblance of the mounds at the ends of the ramparts that Goddard (1904) noticed at Etonbury.

Danbury Camp, Chelmsford, was theorised by Chalkley Gould (1903) as being occupied if not constructed by the Danes. Danbury is mentioned by Camden, but interestingly he does not mention it as a fortress of the Danes – “Danbury mounted upon a high hill, the habitation for a time of the family of the Darcies, runneth hard by Woodham-walters, the ancient seat of the Lords Fitz-walters, who, being nobly descended, were of a most ancient race” (Sutton 2004b). Though the limits of the earthwork are unclear due to disfigurement by landscape gardening and
residential development, it seems to measure c.140 metres in length and 50 metres in width and may be roughly rectangular in shape. Morris and Buckley (1978) determined that if the camp was occupied during the Viking age, then the occupation was largely aceramic.

Finally, an earthwork at Butts Hill, Canewdon, Rochford was believed to be the location of the camp of Canute. The monument is described by Chalkley Gould (1903:285) as being of “oblong form” and enclosing about 6 acres. He was told by a local resident that “at the beginning of the [19th] century the vallum had been levelled, but the fosse was still visible”. Unfortunately, no traces remain at this site and aerial photographs give no indication of any present features, although the outline of the camp is visible on old maps (Landmark Information Group 2007).

The above sites from Bedfordshire and Essex are reviewed and discussed in the next chapter.
<table>
<thead>
<tr>
<th>Name</th>
<th>Location</th>
<th>Shape</th>
<th>Ditch?</th>
<th>Bank?</th>
<th>Riverine/Coastal?</th>
<th>Extra Features</th>
<th>Size (Length x Width)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hasten’s Camp</td>
<td>Benfleet</td>
<td>Rectilinear?</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Yes</td>
<td>Local legend tells of skeletons and the remains of ships being recovered from the creek next to the site</td>
<td>c. 120 x 80 metres</td>
</tr>
<tr>
<td>Danish Camp</td>
<td>Shoeburyness</td>
<td>Irregular Square?</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Enclosure is now truncated by the sea and would have been considerably larger than at present</td>
<td>c. 450 x 200 metres</td>
</tr>
<tr>
<td>‘Sunecastre’</td>
<td>Pandal Wood</td>
<td>Pentagonal?</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Small mound on western side of the enclosure and another incorporated into southern rampart. Opening in northeast of enclosure some 12 metres wide. A ditch to the north of the enclosure may be the remains of a Roman road.</td>
<td>c. 116 x 98 metres</td>
</tr>
<tr>
<td>Location</td>
<td>City</td>
<td>Shape</td>
<td>Known</td>
<td>Excavated</td>
<td>Traces</td>
<td>Description</td>
<td>Dimensions</td>
</tr>
<tr>
<td>-------------------</td>
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<td>----------</td>
<td>-----------</td>
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<td>-----------------------------------------------------------------------------</td>
<td>----------------</td>
</tr>
<tr>
<td>Danbury</td>
<td>Chelmsford</td>
<td>Rectangular?</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>The enclosure is now truncated by residential development. Any Danish occupation was perhaps aceramic?</td>
<td>c. 140 x 50 metres</td>
</tr>
<tr>
<td>Canute’s Camp</td>
<td>Rochester</td>
<td>Oblong</td>
<td>Unknown</td>
<td>Unknown</td>
<td>No</td>
<td>No traces of this structure remain, though its extent is shown on old OS maps.</td>
<td>Assuming that the oblong feature is 3x2 acres, the earthwork would be c. 191 x 127 metres. This is a hypothesis however, as no plan of the monument is given with measurements.</td>
</tr>
</tbody>
</table>

Figure 5.6: Table of possible Viking fortified sites in Essex.


Chapter 6

Discussion of the Case Studies

Though the similarities in the design of the Essex monuments are not as strong as those in Bedfordshire, it is interesting to note that they exist. The shape of the earthworks seems to be generally rectilinear, contrasting with the more rounded enclosures that we see in Bedfordshire. For the camp at Benfleet we are unfortunately not provided with a plan or description, but despite this, the Royal Commission on Historic Monuments (1923:139) states that the camp was bounded to the north and west by the creek and also occupied what is now the church yard. Assuming that the boundary of the church yard marks that of the camp, we are presented with an irregular but generally rectilinear shaped camp, similar to the pentagonal earthwork at Pandal Wood. The earthwork at Butts Hill is also rectilinear (oblong) in shape (Landmark Information Group 2007). The Shoeburyness earthwork is described as being an irregular square in shape in its original form although only half of this square remains today. Danbury camp may also be of a rectilinear shape, although this is hard to tell due to the truncation of the site.

Square or rectangular sites are not mentioned in Dyer’s (1972:225) assessment of the Danelaw frontier in Bedfordshire aside from at Gannock’s Castle, which he himself states may be a later moated enclosure. Assuming however, that the association of D-shaped enclosures in Bedfordshire with the Vikings is correct, then how does this explain the more angular and square enclosures that we see in Essex? With a lack of Viking Age evidence at any sites, we cannot explain the difference at
this time and this begs the question as to whether either of these forms can be considered to be indicative of Viking construction.

The Essex monuments vary more in size than their Bedford counterparts, the largest difference between the sites being 81 metres in length and 77 in width. This however excludes Shoeburyness, which measures considerably larger than the other sites – c.450 metres in length and 200 in width. It is important to remember that this may have only consisted of part of the original fortification, meaning that the original enclosure would have been very large indeed. Though it is not clear exactly when the sea truncated the fortification, the earthwork at present may have been able to accommodate two Danish armies. The most likely scenario is that if Vikings were present at the site at all, then the original Iron Age enclosure was reused by them, as indeed it was by the Romans – finds at the site testifying to their occupation there.

Whilst some may consider the difference in sizes between the other four enclosures to be small enough to perhaps indicate construction by a single group of people, this interpretation must be made cautiously. To put the difference into perspective – the 81 and 77 metres difference between the sizes of the Essex enclosures is a space the size of the ‘Caftle’ enclosure at Blunham, Bedfordshire. Viking raiding armies would obviously have varying numbers of troops, horses, equipment, ships and goods and this would perhaps account for the difference.

What we are presented with in Essex are a group of sites that similarly to Bedfordshire, do not contain any datable evidence that would support an interpretation of construction or use by Viking armies. Unlike the Bedfordshire sites, the monuments take a generally square or rectilinear shape and have greater variations.
in dimension. Logic may suggest that if these fortifications were actually built by the Danes, then they should show some correlations across county boundaries, due to the counties not only being in close proximity to each other but both being part of the Danelaw frontier. Whilst there is still evidence of fortifications being constructed by waterways (for example Benfleet and Shoeburyness), the fortifications at Pandal Wood, Danbury and Canewdon are constructed inland. Only two of the Bedfordshire sites – Seymour’s Mount and Bolnhurst are located away from water.

This could be representative of possible different methods of waging war that were taking place at different times in the two counties. The ‘camp’ at Canewdon for example, was constructed before the 1016 Battle of Ashingdon as Canute marched his army inland through Essex. This is testified in the *Anglo-Saxon Chronicle* (Swanton 2000:151-152), which states that “when the king learned that the raiding-army was inland, he assembled the entire English nation... and overtook them in Essex at the hill which is called Ashingdon”. The raiding armies operating in Bedfordshire however, most probably came down the River Great Ouse from Huntingdon in order to construct their fortification at Tempsford and raid Bedford. The Danes would need a place to moor their ships and a riverside fortification was therefore necessary.

Both Bedfordshire and Essex exhibit sites which include possible mounds within their enclosures. At the Blunham site in Bedfordshire, Edgeworth (2006:4) believes that an oval feature in the centre of the ‘caftle’ may have been a mound. At Pandal Wood, Laver (1930:257) notes a mound in the western side of the enclosure, as well as one on the southern rampart. These are similar to Dunrally and Athlunkard in Ireland, which both feature oval or circular features within their enclosures. Could these possibly be indicative of some sort of ‘motte’ or defended position? Kelly and
Maas (1995:31) accept that at Dunrally, this may be a native construction, around which the D-shape earthwork was constructed. This could suggest some possible form of shared construction technique between the Norwegian and Danish Vikings if these sites can be proved to be of Viking origin.

Does the consistency in the shape of sites in both counties however, indicate that there is perhaps an underlying set of ‘criteria’ that are being searched for at these sites? Although it is clear that Camden had knowledge of the Viking presence in Bedfordshire, the first person to describe the sites in writing seems to have been Goddard in 1904, although as has been mentioned, he does not place any emphasis on ‘D-shaped’ enclosures but instead looks for other features that mark sites out as ‘Danish’, such as nausts at Willington docks.

Edgeworth’s newly discovered site at Blunham does conform to some of the characteristics previously mentioned most notably concerning the D-shaped enclosure(s) at the site. The sites at Woodstown and Athlunkard also conform to this particular layout and contain evidence that suggests Viking occupation. Thus it would seem that D-shaped earthworks could be (in Ireland at least) a way of identifying sites built by Vikings – in this case by Norwegian Vikings as opposed to the Danish in England. Whilst this begs the question as to whether the two nationalities built fortifications to different layouts – perhaps the Norse utilising D-shaped enclosures and the Danes using circular fortifications like the Trelleborg fortresses – there are two problems with this suggestion. Firstly, there is of course the Danish settlement of Hedeby, which incorporates a D-shaped fortified perimeter. This was however an important trading and administrative centre as opposed to a purely military fortification. Secondly, this raises the question as to who was responsible for the D-
shaped enclosures that seem to be so prevalent in Bedfordshire. Reynolds (2003) believes that D-shaped enclosures were constructed before the arrival of the Vikings in England and that there would be great difficulties in attempting to identify a broad class of Viking military fortification based on this. This again leads back to the question as to why D-shaped enclosures were associated with Vikings in the first place and by whom were these associations made. Though none of the antiquarians such as Goddard mention any form of correlation between the sites and instead describe them individually, the sites do seem to share characteristics. Is it possible therefore that those first attempting to assign these sites as Viking may have been making these assumptions on a subconscious level, taking one single type of site and applying it to others?

The discussion may run full circle, the reason simply being that we do not know exactly what we are looking for when attempting to locate the fortifications built by Viking armies in Britain. Due to our lack of knowledge, when we find a site that does not strictly fit our expectations, it is natural to assign this to the Vikings, just as antiquarians had in the past. These D-shaped enclosures, therefore, are a type of site that has not yet managed to find a place within any specific period archaeologically as whilst there are those who characterise them as Viking military enclosures, excavation within some of these enclosures has revealed evidence that suggests Anglo-Saxon occupation.

Goltho, Lincolnshire is one such site. Having been settled since the Romano-British period, a fortified, ovoid enclosure and manorial complex was built in the mid-9th century (Beresford 1987:29). Though the evidence is open to interpretation, the site does seem most likely to have been of Anglo-Saxon construction as opposed to
Viking as the site shows no signs of having “been ravaged by Viking raiders before the establishment of the manorial complex” (Beresford 1987:30). Furthermore, the irregular shape of the fortified enclosure shows that it was built around the existing buildings at the site (Beresford 1987:31). Other enclosures also exist around the country, such as the 7th-9th century settlement of Abbots Worthy (Hampshire). With so little known about “minor insular fortifications” (Reynolds 2003), it is difficult to sustain a connection to the Vikings, as “D-shaped enclosures are found in pre-Viking contexts in England and in areas without the Danelaw” (Reynolds 2003:119).

Interestingly, when all 43 suspected Viking sites were summarised in tabular form (Figure 6.1) we see that D-shaped enclosures are a minority when compared to circular sites (6 D-shaped to 7 circular) and occur even less frequently than ‘other’ shaped sites (of which there are 15). Therefore a focus on a particular form of site could lead to future potential sites being ignored. The diversity of the suspected sites should encourage us to be more open minded in our approach to sites.

Furthermore, when put in context within all 43 sites, the Bedfordshire sites alone largely feature waterways, with 7 out of 11 sites situated adjacent to them. This is another consideration when attempting to locate Viking sites across the British Isles, as using the evidence from Bedfordshire alone may lead to archaeologists actually failing to accomplish this. It is important to stress that Viking armies would not have necessarily travelled exclusively by sea or land and the most likely scenario is that they used their ships to navigate the major waterways before continuing further inland on foot or horseback. The Vikings are specifically mentioned in the Anglo-Saxon Chronicle (Swanton 2000:101) as moving from Huntingdon to Tempsford. The quickest and most direct route would be down the River Great Ouse in their ships and thus it is probable that they would have utilised a riverside fortification. In contrast,
Canute’s army that is supposed to have camped at Canewdon is specifically mentioned as marching inland. It is interesting to note however that the site of the ‘camp’ is still in relative proximity to water, with the River Crouch being situated a kilometre to the north. The *Anglo-Saxon Chronicle* states that after fleeing King Edmund Ironside’s army to Sheppey in 1016, Canute’s army “turned back up into Essex and travelled into Mercia” (Swanton 2000:151). The chronicle however does not say whether the army travelled to Essex by land or sea. If the army travelled by sea, this then begs the question as to where Canute left his ships when travelling inland. It may be that the camp was located elsewhere in close proximity to water to allow for the mooring of ships.
<table>
<thead>
<tr>
<th>County</th>
<th>D-Shape</th>
<th>Circular</th>
<th>Other</th>
<th>Unknown</th>
<th>Total No. Sites</th>
<th>Uses natural defences ie. Islands/promontories</th>
<th>Riverine</th>
<th>Coastal</th>
<th>Bank</th>
<th>Ditch</th>
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<td>4</td>
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</table>

Figure 6.1: Table summarising the shape and position of the possible fortification sites in Great Britain.
The size of suspected sites is also another factor that deserves discussion. Fox (1923:302) estimates in his calculations of the capacity of Gannock’s Castle that each man would need to be distributed along every two yards (1.84m) of rampart (to allow the relatively free wielding of shields and weapons) and thus the site would only hold 270 men; however the equation between the size of a site and its troop capacity cannot be so simple. The size of the Repton enclosure, for example, which measures c. 115 metres by c. 65 metres, would have been a rather small space within which to attempt to house a ‘Great Army’, which may have consisted of several thousand men. It is highly possible that part of the army would have been billeted in surrounding houses, yet the space enclosed by the earthworks is rather small to have effectively made use of the large number of men that would have been present. There is also the question of livestock, horses and provisions that would have needed to be housed for safe keeping. These would have taken up a large amount of space and it is possible that the fortification would have been more intended to protect them, although they may have also been stored aboard ship. For this reason, the size of Edgeworth’s site at Blunham may not be as unreasonably large as some believe. Indeed there is logic in having an inner earthwork fortification enclosed within a larger one, as it would allow the security of a ‘citadel’ like area, whilst also allowing the protection and accommodation of the much larger part of the army and their provisions.

We cannot, of course, know how many men were in these Viking armies and cannot, therefore, expect a standard size of fortification. The Vikings would not have had ready access to reinforcements and engagements with the Anglo-Saxons would have depleted their forces over time. The Anglo-Saxons and Vikings did not operate to a known, standard military doctrine and unlike their Roman predecessors; we have no records of how they constructed their fortifications to base our recognition of them
upon. Although Roman sites differ in size, they are almost all recognisable by their distinctive, ‘playing card’ rounded corners. It is strange then how there are generally no huge differences in the size of fortifications in Bedfordshire and to a lesser extent, Essex. It could be possible that Goddard, or the antiquarian sources on which he may have relied, were searching for specifically dimensioned sites. Considering that the number of warriors in a Viking army would vary greatly, the difference in the size of sites would reflect the size of the forces occupying them. Whilst the differences in size of the Bedfordshire and Essex non-circular sites may not seem great (with the exceptions of Blunham and Shoeburyness) one must remember that small differences in size could make a large difference to a Viking army. Even the 81x77 metre difference in sizes of the Essex sites equals an area of 6237 square metres, which would substantially add to the potential size of an army.

It may seem, therefore that perhaps we cannot recognise Viking fortifications by specifically focusing on the form and size of sites. There are too many variables that can occur with a Viking force – the number of men, the number of horses, the amount of provisions, whether they still retain their ships or whether they decide to use natural defences such as islands are just a few factors that could drastically affect their defensive sites. It is perfectly reasonable to assume that some defensive sites may have consisted of D-shaped enclosures by rivers (this is the most efficient way of protecting ones ships), but how far can we take this single possibility? We must consider British ‘Viking’ sites in context of sites in other parts of the United Kingdom as well as internationally. It may be that both antiquarian and present day scholars were attempting to identify sites based on their analysis in the context of a single region. This regional based type of study is insufficient for the study of a people
whose influence had spread across Europe and into Asia. It is this very fact that highlights the need for Viking sites in Britain to be studied in an international context as well as in comparison with those at home.
Chapter 7

**International Comparisons**

In the last chapter, factors which have thus far contributed to the recognition of Viking fortified sites were analysed with the conclusion being that, at present, there may not be any accepted method of doing so. This raises the question as to how one should proceed with the study of Viking fortifications in the future. The results of the research process indicate that current methods of recognition may not be secure although they are based upon seemingly reliable information and there is a need to undertake future studies from a new perspective involving a multidisciplinary, international approach to the Vikings in general. The reason for this is the number of different sources from which one can gain valuable information about the Viking Age. As mentioned earlier in this study, information can be gained from analysis of historical and archaeological sources that discuss Viking activities both in Britain and internationally. It is at this international level that we need to focus, as we cannot expect to fully understand the way that Viking armies operated by focusing on the studies that have already occurred in Britain. It would be wise, therefore, to attempt to produce a statement as to how Viking Age fortification sites should be studied in future in light of the international evidence that can be used comparatively with what we have seen in Britain.

The study of Viking fortifications in Ireland has, in its own way, run in a similar vein to that of Britain. Although there is a direct concern with fortified sites, especially in respect to the formation of cities such as Dublin, the articles published
(Kelly & Maas 1995, Kelly & O’Donovan 1998, Gibbons 2004, Russell et al 2007) reveal that suspected fortification sites still require further study – “potential longphort sites have been identified using place-name evidence and/or morphology rather than through excavation” (Russell et al 2007:27). There are several potential sites including Dunrally, Annagassan, Athlunkard, Woodstown and Dublin (See Figure 7.1 & 7.2) and excavation at the latter two have provided interesting insights as to the Viking Age occupation there (Russell et al 2007). The rural context of Woodstown – six kilometres west of Waterford (Russell et al 2007:3) has allowed extensive evaluation excavation to take place and has produced evidence of Viking occupation dating to the 9th-10th centuries.

The location of the Dublin longphort has not been fully confirmed, but the other published sites all seem to conform to the ‘D-shaped’ plan that seems so typically ‘Viking’ to many scholars. Dunrally and Athlunkard have had articles published on them (Kelly & Maas 1995 and Kelly & O’Donovan 1998 respectively), with the riverbank opposite the Athlunkard longphort revealing possible Viking finds obtained during fieldwalking such as silver conical weights. The Woodstown site has also been excavated, producing finds ranging from ship rivets to amber, to weaponry found in a ‘warrior grave’ at the north end of the site.
Figure 7.1: The location of the Irish sites discussed in this study. Image adapted from Google Earth.
Although possible Viking finds have been recovered from the Irish sites, the actual nature of the Woodstown site in particular is subject to debate. Maas (2004:2) proposes that the Woodstown site was only a small part of a much larger Viking ‘settlement’ that would have followed the field boundaries surrounding the site – an area enclosing some 126 hectares. This is much larger than Scandinavia’s largest enclosed settlement – Hedeby in northern Germany, which encloses an area of only 24 hectares and Russell et al (2007:17) state that “there is a clear need for more substantial archaeological evidence” to provide support for this hypothesis.

The idea of the site as a specifically military structure however is one that needs careful consideration. The grave goods recovered from the site reveal that occupants certainly carried arms and the size of the enclosure ditches (an earlier, shallower ditch being backfilled and replaced with a much larger, outer ditch (Russell et al 2007:13)), which also featured palisades, give an indication that the site was defended. It is interesting to note however, that the second ditch was allowed to silt up rapidly and even to have a smithing hearth constructed within it (Russell et al 2007:32). Unfortunately, 19th Century railway construction on the banks of the River Suir has destroyed any riverside defences that would have existed. Furthermore, the entrance ways appear to be quite substantial – at least one appearing to be 7.5 metres wide (Russell et al 2007:32), making it defensively unsound. Although the 1.2m deep and 3-4m wide ditch at Woodstown may have been enough to stop raids, they are much smaller than those at Dunrally and Repton, which measure 5.3m wide and 1.8m deep and 8.5m wide and 4.2m deep respectively. The capability of the Woodstown ditches to resist a concerted military assault therefore remains uncertain and coupled with the huge length of foreshore at the site, the defensive capabilities that the longphort offers are questionable. Further evidence at Woodstown indicates that
several ‘non-military’ activities apart from trade were taking place – woodworking tools and silver casting waste indicate that various crafts were being undertaken and there is also evidence that textile and food production were taking place (Russell et al 35-36).

The activities taking place at Woodstown are comparable with those taking place at Torksey, Lincolnshire, where the Danish ‘Great Army’ overwintered during the year 872-873, before moving on to Repton. Although no earthworks remain and no excavation has taken place at the site, metal-detecting work has uncovered a number of pieces of hack silver, Anglo-Saxon coins and 11 Islamic dirham fragments, which are certainly indicative of trade taking place at the site (Blackburn 2002). Systematic excavation at this site is likely to unearth a much larger quantity of finds and it is interesting that Blackburn considers those uncovered so far to be indicative of trade as opposed to the wealth gained by a raiding army and it could be expected that we would see the same at Woodstown whether or not it was a ‘military’ site. The evidence for the production of goods such as textiles and food suggests that an economy based upon loot and raiding did not exist at Viking Woodstown.

Russell et al (2007:26) points out that the main discussion surrounding the site at Woodstown does not focus on the finds, but rather on the D-shaped plan. The enclosure ditch at the northern end of the site however, seems to curve inwards towards the river bank, possibly isolating a small D-shaped enclosure to the north of a larger, southern D-shaped enclosure. This effectively makes the site a B-shaped double enclosure and one could hypothesize that perhaps the northern enclosure was constructed before the southern enclosure. It is possible that one enclosure could be the military encampment, with the other enclosure being established following initial raids and conflict. It seems that most of the finds associated with ‘domestic’ activities
such as knives and hones were recovered from the northern field of the site, although it is entirely possible that the ‘domestic’ and ‘industrial’ finds may merge across the entire site. Thus far only a small portion of the Woodstown site has been excavated.

What we see at Woodstown therefore, is not a military encampment in the sense that we expect – there seems to be evidence for multiple types of industry and manufacturing, as well as a lack of concern with securely fortifying the site. It is important to note however, that Woodstown may be exceptional not only in the length of occupation but in the nature of the activities taking place. Furthermore, it is the only site in Ireland to have been tested in such a way and has yielded more finds and occupational debris than any of the other suspected Viking sites in Ireland and Britain. As such there is little comparative evidence with which to test these results (Russell et al 2007:46). Nevertheless, Woodstown still provides a useful case study, although locating comparative evidence could be difficult – we could not expect, for example, a site such as Tempsford that was occupied for less than a year to produce the same type of evidence.

Although they remain largely unexcavated, the Irish sites do share some characteristics with the theorised British sites. Both Dunrally and Athlunkard are D-shaped enclosures by riverways, whilst Annagassan seems to have been located at a D-shaped island on the River Glyde, although the associated earthwork was apparently circular. The use of islands as natural fortifications is demonstrated not only in the Anglo-Saxon Chronicle but for the Viking camps on the River Seine, France, in the 840s (Hall 2007:79). Interestingly, Dunrally and Athlunkard seem to contain an oval mound similar to those at Pandal Wood, Essex and Edgeworth’s site at Blunham.
<table>
<thead>
<tr>
<th>Name</th>
<th>Location</th>
<th>Shape</th>
<th>Ditch?</th>
<th>Bank?</th>
<th>Riverine/Coastal?</th>
<th>Extra Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dublin</td>
<td>Dublin</td>
<td>Rectangular?</td>
<td>N/A</td>
<td>N/A</td>
<td>Yes</td>
<td>At location of Dublin castle?</td>
</tr>
<tr>
<td>Longphort</td>
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</tr>
<tr>
<td>Woodstown</td>
<td>Co. Waterford</td>
<td>Double D-shaped?</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Extensive occupational evidence and burial evidence uncovered.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Unconfirmed, though it has been suggested that the site could measure up to</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1500 x 1000 metres (Maas 2004).</td>
</tr>
<tr>
<td>Dunrally</td>
<td>Co. Laois</td>
<td>D-shaped</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Counterscarp bank in places.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Oval earthwork construction inside enclosure.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>c. 200 x 80 metres</td>
</tr>
<tr>
<td>Athlunkard</td>
<td>Co. Clare</td>
<td>D-Shaped</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Oval, flat topped mound inside enclosure.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>75 x 30 metres</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Unknown</td>
</tr>
<tr>
<td>Birka</td>
<td>Lake Mälaren, Sweden</td>
<td>D-shaped</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Outlying, undefended ‘garrison’ area featuring artefacts of a distinctly</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>militarily nature.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>200 x 90 metres</td>
</tr>
<tr>
<td>Location</td>
<td>Region</td>
<td>Shape</td>
<td>Walls</td>
<td>Avenue</td>
<td>Status</td>
<td>Notes</td>
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<td>--------</td>
<td>--------</td>
<td>------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Hedeby</td>
<td>Schleswig-Holstein, Germany</td>
<td>D-shaped</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>A hillfort lies to the north of the settlement.</td>
</tr>
</tbody>
</table>
| Trelleborg          | Skåne County, Zealand, Denmark | Circular   | Yes     | Yes    | Yes    | Fortress is split into four quadrants each containing four houses arranged in a square.  
|                     |                         |             |         |        |        | Outer *vallum* enclosing further houses.                                |          |
|                     |                         |             |         |        |        | Cemetery present.                                                      |          |
|                     |                         |             |         |        |        |                                                                        |          |
| Fyrkat              | Hobro, Jutland, Denmark  | Circular   | Yes     | Yes    | No     | Fortress is split into four quadrants each containing four houses arranged in a square.  
|                     |                         |             |         |        |        | Not constructed in strategic location.                                  | 120 metres |
|                     |                         |             |         |        |        | Outer *vallum*.                                                        |          |
| Aggersborg | Aggersund, Jutland, Denmark | Circular | Yes | Yes | Yes | Cemetery present. | Fortress is split into four quadrants each containing four houses arranged in a square. No outer ward. Possible Sacrificial deposits. | 240 metres in diameter |

Figure 7.2: Table of known Viking fortified sites in Ireland and Scandinavia.
Scandinavia has surprisingly revealed a similarly small number of sites (See Figures 7.2 & 7.3). There are the obvious Trelleborg fortresses in Denmark and Sweden, though these were built relatively late in the Viking Age during the latter half of the 10th century. There are also the settlements at Hedeby, Germany and Birka, Sweden, which alongside the Trelleborg fortresses are the most famous Viking fortified sites in Scandinavia.

Hedenstierna-Jonson et al (2009) discuss a project launched in 1999 named *Strongholds and Fortifications in Central Sweden AD 400-1100*. This attempted to identify “the continuity and discontinuity of fortifications in Eastern Scandinavia in an attempt to understand the paradox of the Viking Age landscape of defence” (Hedenstierna-Jonson et al 2009:1). Surprisingly, the project was not able to identify many Viking Age fortifications or defensive structures and this lack of evidence could “falsely be interpreted as signs of a less violent time” (Hedenstierna-Jonson et al 2009:1). As has been mentioned earlier in this study, we know from literary and archaeological evidence that warfare was taking place in Britain and Ireland, where large numbers of Scandinavians who were proficient in warfare were present and constructing defences. This raises the question, therefore, as to why we cannot see these processes archaeologically in Scandinavia or elsewhere.
Figure 7.3: The locations of Viking fortified sites in Scandinavia. Image adapted from Google Earth.
One site highlighted is the famous hillfort above the fortified town of Birka, Sweden. The fort had massive ramparts and is “one of the few monumental constructions known from the Viking Age in Sweden” (Holmquist Olausson 2002:159) (See Figures 7.4 & 7.5). Situated at a junction of waterways and on the boundaries of different administrative areas, the settlement would have had to incorporate a military presence from its first founding in order to guarantee the safety of the merchants passing through the area and using Birka (Hedenstierna-Jonson et al 2009:7). A settlement in such a lucrative location would no doubt be a tempting target for attack. The hillfort has a dry-stone shell rampart three hundred and fifty metres in length, truncated by a large, natural rock to the south. The “garrison” area, lying between the shore and the fort commands a strategic view over the town and was protected by its own rampart and palisade. The terraces on which the ‘garrison’ was constructed show evidence of wooden buildings and four smithies which appear to have been involved primarily weapon manufacture and repair, as well as the production of Thor’s hammer amulets, padlocks and knives. “The most extensive terrace held the remains of a great building with the character of a hall or assembly building” (Hedenstierna-Jonson et al 2009:9) (See Figures 7.6 & 7.7), which contained a number of padlocks taken to be the remains of storage boxes and spears, shields and lances lined up or hung from the wall. The ‘garrison’ area in general featured numerous weapons including arrowheads, spearheads, axes, swords and shields, as well as chain-mail and plate armour, which remains “otherwise unknown from Viking Age Scandinavia” (Holmquist Olausson 2002:161). Unlike the ‘fort’ located at The Udal, Scotland, the ‘garrison’ area outside of the fort is an area that features a distinctly military character. The proximity of this area to the fort suggests that the presence of soldiers may have been constant to provide a watch over the town.
and to defend the hillfort in the event of attack. The dense scatter of military artefacts over such a small area is in direct contradiction with Woodstown, which has a much more diverse spread of artefacts indicative of at least a partial function as a settlement. Neither Holmquist Olausson (2002) nor Hedenstierna-Jonson et al (2009) mention or place any emphasis on the shape of the town or fortress ramparts, implying that this is indeed a concern that exists only in Britain and Ireland.
Figure 7.4: View from inside the hillfort showing the ramparts and the ‘King’s Gate’ to the left of the picture. Photo courtesy of Henrik & Veronica Ljungqvist
Figure 7.5: The hillfort at Birka. Note the massive ramparts. Photo courtesy of Henrik & Veronica Ljungqvist.
Figure 7.6: Stone lined terraces in the ‘garrison’ area. To the right lie the stakes marking postholes that are believed to represent the ‘hall’ or ‘assembly building. Photo courtesy of Henrik & Veronica Ljungqvist.
Figure 7.7: The ‘garrison’ area at Birka. The wooden stakes set in the ground indicate the position of postholes for the ‘hall’ or ‘assembly building’. Photo Courtesy of Henrik & Veronica Ljungqvist.
The overt expression of military activity at Birka is a direct contrast of what we have observed in Britain and Ireland. At various suspected Viking fortifications in Britain such as Great Shelford, Cambridgeshire, Danbury, Essex, and Warham Camp, Norfolk, no traces of Viking occupation were found, but Dyer (1972:232) however states this as a reason for Viking occupation, as the sites are “in accordance with the general lack of material from British Viking occupation”. It may be that we cannot expect British sites to exhibit the same large number of artefacts found at Birka. With there being a much higher probability of scarce resources, it may have been that the Viking occupants of British sites did strip them of useable materials before moving on. However the author believes that certainly some evidence of occupation would be left behind – burnt hearths from smithing work for example, which would have been essential in keeping an army supplied with weapons. It is also interesting to note that Birka was built with a dry stone shell wall, which was then filled with dirt. The British and Irish sites show no examples of stonework and whilst this could be due to the temporary nature of the camps, one would perhaps expect sites such as Woodstown to have eventually been provided with stone revetted ramparts depending on the length of time that they were in use. It is clear that Birka was constructed with long term defence in mind, with the situation of the hillfort being;

“dictated by contemporary battle-techniques, where naval warfare and archery played a dominant role. Tactics would have concentrated mainly on siege, threat and extortion; and the defensive structures on the island should be considered as part of a defence-in-depth system.” (Hedenstierna-Jonson et al 2009:10)
The vast majority of the British sites, however, are not constructed where archery especially would be utilised to the same extent. The high number of riverside fortifications obviously would cater for the mooring of ships. Investigations into the possible ways of defending fortifications from waterborne attack, for example by pile barricades, would be extremely useful. With the use of archery in Viking warfare remaining a debateable subject, it is worth considering that what we see here is a cultural difference between Swedish, Danish and Norse Vikings. Although there would most probably have been contingents of Swedes as part of both Norse and Danish armies, we cannot be sure as to whether one nation may have favoured the use of archers over the others. Archers are attested in various sagas - in the Saga of Harald Hardrada, King Harald “was wounded in the throat by an arrow” (Monsen 1932:567) and died as a result at the Battle of Stamford Bridge. The History of Olav Trygveson also mentions archers during the Battle of Swold, where “Einar Tambarskelver... was shooting with his bow and shot harder than all others” (Monsen 1932:212). Birka’s fortress and garrison would certainly have possessed a field of fire over any enemy forces attempting to scale the hill from an amphibious landing and the arrowheads found in the ‘garrison’ area certainly testify to the use of archery (Holmquist Olausson 2002:161).

Six ring fortresses (also known as Trelleborg fortresses) have been identified across northern Denmark and southern Sweden, although only the three best preserved at Trelleborg, Zealand, Fyrkat, Jutland and Aggersborg, Limfjord are discussed here. These all date to c. 1000 and are believed to have been constructed by Harald Bluetooth of Denmark who died in 986. These fortresses are “strikingly regular in form” (Cohen 1965:19), being protected by a circular rampart and ditch.
Trelleborg, Zealand, also features outlying buildings that were also protected by an outer bank and ditch, “which is circular for part of its course and then abruptly angular” (Cohen 1965:19). The banks of the fortresses are constructed of mud, clay and timber revetments, with stone being used only to line the gateway and the bottom of the bank, which, at Trelleborg, stands 5 metres high but may have reached up to 7. At the top of the Trelleborg bank lay a palisade, which appears to have been burnt (Cohen 1965:20). The ditch, similarly to Repton, appears to have been V-shaped. The interior of the fortresses contain houses – measuring about one hundred Roman feet (29.6 metres) in length, arranged corner to corner in groups of four to form squares. These groups of houses are situated within four quadrants dividing up the interior of the fortress, and are divided by roads running into the centre of the fortresses from gates positioned on the cardinal points.

The fortress of Fyrkat is a matter of interest as it is not constructed in a strategic position. Though constructed on an elevated strip of land around which were low lying areas, from the nearby hills it is actually possible to look down into the fortress, which is “built on such uneven ground that the whole gives the effect of being a tilted saucer” (Cohen 1965:27). Fyrkat also features an incomplete ditch which encloses only small parts of the bank and again this is V-shaped in profile. Cemeteries at Trelleborg and Fyrkat show that a mixture of pagan and Christian burials were used, as well as possible sacrifices taking place at Fyrkat and Aggersborg. The burials include men, women and children, suggesting that the demography of the fortresses may not have only been soldiers, but possibly included families. Whether women and children would have lived within the fortresses however is unknown. Interestingly, the Trelleborg fortresses are circular despite Aggersborg and Trelleborg being riverine fortifications. The outer bank and ditch at
Trelleborg effectively seals off a headland at a confluence of rivers and it is very possible that this would have been to ensure the safety of the ships.

The Trelleborg fortresses actively demonstrate that the Danes in the late 10th/early 11th centuries were utilising circular defended structures and it should be remembered that this may not have been an innovation – circular fortifications are recorded in Flanders and Zeeland, all of which “had a timber-faced earth rampart surrounded by a wide ditch, [which] has excited interest because of their similarity to the famous, but rather later, series of Danish circular camps” (Hall 2007:78). Finds at Camp de Péran, Brittany, indicate a possible Viking occupation of a site constructed perhaps during earlier Frankish/Breton wars, or as an Anti-Viking defensive site (Hall 2007:81).

Other fortifications in Denmark include the D-shaped settlement at Hedeby and the linear Danevirke fortification. Hedeby had impressive ramparts 10m high strengthened with a ditch and palisade. Excavations revealed evidence for trade, jewellery production and smithing, which shows similarities to Woodstown. One hundred metres north of the ramparts lies an undefended enclosure called ‘Hochburg’ or ‘hillfort’, where a cemetery exists. The burial rites and grave goods indicate the presence of Danes, Saxons, Slavs and Swedes (Hall 2007:62), another factor that indicates a multicultural settlement as opposed to a strictly military, Danish base.

The Danevirke is a linear fortification over thirty five kilometres long, first constructed around 700 and “traverses a natural bottleneck, the Schleswig Isthmus” (Dobat 2008:29). By 737, the Danevirke had “become a linear fortification of previously unknown scale” (Dobat 2008:40), with the ‘semicircular wall’ around Hedeby being established some time in the 10th century. This development suggests
that the function of the Danevirke changed from protecting the Jutish peninsula as a whole to also defending the settlement at Hedeby:

“Besides its defensive purpose, [the] Danevirke from this point onwards is obviously also supposed to actively channel and facilitate ‘control’ of land-based traffic. So, in the course of these developments, the structure was transformed not only functionally; it was also converted into a more or less ‘permanent’ institution” (Dobat 2008:58).

The Danevirke was constructed with a bank up to four metres high and twelve to fourteen metres wide, further fortified from the earliest constructions with a ditch and palisade. The Danevirke has interesting parallels with the Götavirke linear fortification, located on the island of Gotland, Sweden. Both seem to have been constructed to seal off an area of land to control any traffic that wished to cross the boundary that they were creating. Unlike Offa’s Dyke on the Powys/Shropshire border of Britain, which measures some one hundred and twenty miles in length, the Danevirke could have been maintained and patrolled by armed forces, especially if they were mounted. The ‘Kovirke’ – part of a short-lived attempt in the 10th century to enclose the area around Hedeby (See Figure 7.8) – is the only rampart where “archaeologists have recorded an opening and complex gate construction” (Dobat 2008: 42), suggesting that the monitoring of traffic across the boundary was certainly a function of this rampart.

The only other site aside from Birka that Hedenstierna-Jonson et al (2009) highlight is the Götavirke. This site is seen as being associated with the wishes of certain groups to expand territorially during the Viking Age. This 3.5km long linear
barrier on the island of Gotland “was a territorial mark against the outer world and a means to control communication, trade and hostile military movements from the east” (Hedenstierna-Jonson et al 2009:5). Gateways through the fortification that would have allowed this, however, are not mentioned. This is interesting due to the questions that it may raise in relation to the archaeology of the Viking Age in Britain and Ireland. The HER search happened to reveal 13 linear dykes in Britain although these were disregarded due to the search parameters being designed specifically towards fortified enclosures. It would be useful however, if any future investigations at this type of monument revealed evidence of their being constructed or at least being recut, repaired and used during the early medieval period or Viking Age.
Figure 7.8: The Danevirke, Kovirke and Hedeby. Note how the later Kovirke seems to have been an attempt to bring Hedeby inside the fortified area. Image adapted from Google Earth.
Hedenstierna-Jonson *et al* (2009) argue that mental boundaries were replaced in the Viking Age by pile barricades and earthwork ramparts and that the use of mobile forces was crucial for enforcing ownership within a territory, resulting in a smaller number of fortified sites. However, can this theory really apply for Britain? The geography and topography of Britain varies greatly to parts of Scandinavia, where large areas of open country exist that may not have needed garrisoned fortifications. Territorial boundaries could have consisted of physical, topographical or even mental boundaries, which would have been accepted as the limits of various factions’ power. In Britain however, the well established Anglo-Saxon kingdoms were already bounded and these territories were constantly contested – Offa’s Dyke is a clear indication of the wish to establish the boundary between Mercia and Wales (Richards 2004:21). These boundaries would also have been hotly contended between the Saxons and Vikings, thus meaning that fortifications may have played a more important role in the demarcation of territory. It could also be considered that the larger, empty areas of Scandinavian territory would have served as buffer zones, meaning that any incursion could be intercepted before reaching important settlements.

The nature of conflict was also different, with the Viking armies in Britain and Ireland actively aiming for conquest and colonisation (Richards 2004:49, Forte *et al* 2005:68) on a much larger scale than the eastern Scandinavian societies would have been capable of. In England, the more densely grouped territories and population centres would make hostile contact more frequent and with the Anglo-Saxons attempting to hold their territories, fighting may have been much more vicious. Hedenstierna-Jonson *et al* (2009:10) state that in Scandinavia, “periods of increased martial activity were succeeded by periods of relative calm, a fluctuating development
that continued into the Middle Ages”. In Britain and Ireland however, conflict would most probably have been more inclined towards a state of constant readiness for war. Although we know of periods of truce in both Britain and Ireland (Viking forces, for example, who “camped in East Anglia… gave peace for horses” (Christiansen 2002:175) in 866), these periods may have allowed for the further fortification of Viking camps in anticipation of future hostilities. We must also consider, however, that Viking forces may not have required a strong defensive position if they were to remain mobile – the Vikings who gave peace for horses in East Anglia in 866 went on to raid York the year after (Swanton 2000:68)! We can hypothesize that in Ireland, the Woodstown longphort or settlement must also have experienced some form of peace, at least at times, as the production of non-military and trade items would have been much less of a priority if the settlement were engaged in constant warfare. We also know that various groups of Vikings were utilising alliances with the Irish and becoming involved in dynastic warfare (Hall 2007:89), which would have involved fluctuations of truce and conflict, although the added danger of rivalry with other Viking groups may have actually led to an increased likelihood of conflict.

The larger number of fortifications in Denmark when compared to the rest of Scandinavia could be due to the geography and topography being less of a natural defence in itself, meaning that the construction of fortified positions was imperative. It must also be remembered that the Trelleborg fortresses are associated with the reign of Harald Bluetooth or Svein Forkbeard, who commanded the resources to allow their construction (a dual purpose of the fortifications possibly being a symbolic display of power (Forte et al 2005:181)) – something that regional leaders in eastern Scandinavia may not have had the opportunity to utilise.
Hedenstierna-Jonson et al (2009:11-12) also theorise that the military structure of the Viking Age in Eastern Scandinavia was not the castle or fort, but the hall – as seen at Birka. These replaced the hillforts of the Migration Period and not until “sometime well into the Middle Ages [were] the great halls… replaced by citadels and castles combining the representative and symbolic functions of the halls, and hilltop sites before them, with more advanced military capacities.” This could be an interesting parallel with the British and Irish sites, where we see no evidence of castles or keeps at theorised sites, although some do feature an oval ‘mound’ (Edgeworth 2006, 2008), upon which some form of construction may have existed. Most probably, however, the investment of a hall at a fortified site would only occur once the garrison was going to be situated there at least on a semi-permanent basis and perhaps we should not expect to see these in Britain and Ireland.

What we are presented with in Britain and Ireland is a series of paradoxes similar to Scandinavia. We know that Viking forces were present in the British Isles, yet locating where they fortified themselves is problematic. As mentioned above, investigations should take into account the large number of linear boundaries, ditches and banks that exist and may date to the Viking Age. It is entirely possible that Viking camps were unfortified, relying on pickets and sentries to alert the garrison in the event of an attack and that linear boundaries may have been utilised as a demarcation of territory. If Viking forces were mobile and mounted on horses, patrols would have been able to either report enemy sightings back to the encampment, or act as a counter-force to ride out and engage the enemy in the open field. Unlike their predecessors, the Roman legions, who would construct marching camps whilst marching through hostile territory (some survive today and Davies & Jones (2006),
for example, discuss those in Wales and the Marches) Viking armies were most probably not as numerous or equipped in such a standardised way, which would prevent a routine construction of fortifications.

If the Vikings in Britain and Ireland were constructing temporary fortifications, then we cannot be sure as to what form these were taking. Since studies in Britain and Ireland have focused on D-shaped enclosures, this can be understood as a British and Irish concern, as the Scandinavian studies do not focus on this to such an extent (indeed Hedenstierna-Jonson et al (2009) do not mention the phrase ‘D-Shaped’ once in their discussion of the Birka rampart). It may simply be that we cannot expect a uniform fortification design, with sites having to be addressed on an individual basis. To expect uniformity in the plan of fortified enclosures may be unrealistic – Viking forces would have consisted of mixed numbers of infantry, cavalry and ships, meaning that any fortifications would fluctuate in size and form even for a single force, as they were depleted, reinforced, left or returned to their ships.

Evidence from Britain, Ireland and the continent shows that the Vikings were inclined towards utilising natural defences such as rivers and rock outcrops (Biddle & Kjolbye-Biddle (1992), Russell et al (2007), Hedenstierna-Jonson et al (2009)). Examples include the reference in the Anglo-Saxon Chronicle to the Viking camp at Repton or indeed the fortress at Birka. It is also entirely possible that Viking armies utilised fortified sites that were already constructed. We know that Avebury was occupied during the Saxon period although its prehistoric interior ditch and massive exterior bank are not designed for defence. As mentioned previously however, excavations at the Iron Age site of Warham Camp, Norfolk, have not turned up any evidence of Viking occupation (Grey 1933). Similarly at Shoeburyness, Essex, whilst
Iron Age pottery and Roman artefacts have been recovered from the enclosure, no traces of a Viking Age occupation have been found. Whilst a Viking force may well have removed all traces of their occupation that existed on the ground, one would expect at least a few small finds to remain as removing features such as hearths without leaving any traces of burning would present a challenge. If it were to somehow be argued that the Vikings actually removed all of their occupational debris then we would expect this to disturb earlier deposits, which would show up in the archaeological record. However, it must be also acknowledged that the site at Shoeburyness could not be totally investigated due to the building works that have already taken place there and the fact that at some point the enclosure has been truncated by the sea (Spurell 1890). These processes may have destroyed any evidence of burning or smithing if these activities were confined to one part of the site.
This begs the question, therefore, as to what path the study of Viking fortifications in Britain should now take. It would seem that the standards upon which sites have been identified thus far are either wrong or simply spurious. Dyer’s work especially took place within a very narrow framework with very little comparative evidence, by which “earthworks that could not be confidently associated with other periods were tentatively dated to the Viking Age” (Russell et al 2007:28).

Archaeologists must now move forward from this and outline a new set of specifications by which to identify sites. Unlike the previous standards which appear to be very specific, although wrong, any new investigations can only be approached one site at a time.

It would be prudent to always utilise the historical and documentary sources that exist when approaching a suspected site – the *Anglo-Saxon Chronicle* is a useful resource that can provide inferences as to where a Viking site would be situated. Though it will not of course mention every fortified site that the Vikings constructed, it is still a useful aid that provides guidance as to the location of some sites. The works of antiquarians also must not be ignored, as they can still prove to be a useful resource for locating sites – the works of Spurrell and Goddard, for example, demonstrate this. Even if their interpretations are to be dismissed, their works should not be seen as a hindrance to the work of the present day scholar.

The location of fortified sites could vary greatly, with local topography having an effect on each individual site. From Birka we can see that high ground was utilised
in order to provide greater defensive capabilities to the site. Woodstown however, is not situated on high ground, with the concern for shipping evident at the site indicating that a riverside location for the site was favoured over any potential defensive capabilities lost from constructing the longphort on low ground. Riverside fortifications could be hypothesized to form a large portion of Viking fortified sites due to the communications, trade and military advantages that can be gained from such a situation and it must be remembered that water itself can act as a defensive barrier. Not all fortifications will be constructed by rivers however, as we know that Viking armies marched inland from their ships, such as before the Battle of Ashingdon in 1016 (Swanton 2000:151). One must also consider Repton, where the earthwork enclosure utilises the church, possibly as a fortified gatehouse (Biddle & Kjølbye-Biddle 1992:40).

Sites may take many shapes and forms – a D-shaped enclosure does not automatically constitute a site as being Viking and Reynolds (2003) discusses pre-Viking Age D-shaped enclosures. Riverine fortifications will most likely take this type of form so as to enclose an area of shore upon which to moor ships – finds of ship rivets at Woodstown testifying to this (Russell et al 2007:15). However, an army operating without the use of ships may still wish to enclose a length of shore within a fortification to allow the watering of horses for example. The diversity of the suspected sites shows that many different types of site have at different times been considered to be Viking. There is no reason that Viking ‘armies’ should have consistently built similarly shaped fortifications and it is for this reason that the Vikings are “as elusive to us today as they were to their contemporaries” (Clarke 1999:36). Thus an open minded approach is needed if archaeologists are to avoid inadvertently ignoring potential sites.
Fortified sites may utilise a natural barrier such as a river cliff or rock outcrops so as to improve the defensive capabilities of the site as well as ensuring that less ‘digging in’ had to take place. Sites could be located within older earthworks or fortifications for the same reason, which would mean that the occupying force would have to only repair any useable defences. It is also highly possible that the Viking force would not enclose their camp with any defensive earthworks at all and an archaeological site featuring a Viking Age artefact scatter encountered within a seemingly undefended area would perhaps be more representative of what to expect than an area enclosed by large, defensive earthworks.

Any fortifications would most probably be constructed of earthwork ditches and banks due to their temporary nature. Though Birka features a dry stone shell wall that was filled with earth, this should be expected to be a feature of a more permanently occupied fortification, as this prevents the earth banks from slumping. One should expect a palisade at the top of an enclosure ditch, to allow the defenders of the fortification to fight from behind some sort of shelter, whilst providing one more obstacle for the attackers to overcome. These ditches would surely be substantial, although those at Woodstown may only measure 3-4 metres wide and 1.25 metres deep, which brings its militaristic nature into question (Russell et al 2007:32). With regards to the shape of the defensive ditches, Repton seems to feature a V-shaped ditch (Biddle & Kjølbye-Biddle 1992:40), whilst at the Birka hillfort they are not mentioned to feature at all, possibly due to the fact that the ramparts are constructed on a slope. One would perhaps expect to see V-shaped ditches at defensive sites due to the difficulty that they present the attacker, especially if confronted with a steep bank constructed to rise further above the ditch. The insertion of ankle-breakers would also add to the hazards faced by anyone attacking a
fortification, though no evidence of these has been found at any sites. However, once again we cannot assume that Viking armies operated to a standard doctrine and thus may have constructed ditches of many different shapes and depths, depending on whether they felt that they were located in hostile territory, the depth of the water table or whether they simply believed that they could repel an attack without the aid of large defences. The above depends on of course, whether the Viking army wished to enclose themselves within a defended area at all. It is equally possible that a Viking ‘camp’ was literally that – a group of shelters surrounded by sentries and pickets who would warn of an approaching enemy. It is also possible that any enclosure ditches constructed by the Vikings at a site may no longer survive at ground level and require archaeological investigation in order to locate them. Indeed at Blunham the enclosure ditches are barely visible on the ground due to ploughing that has taken place at the site (See Figure 8.1).
Figure 8.1: Photo taken at the Blunham site, revealing the possible ditch in the middle distance. Photograph by the author.
One would expect to find some form of occupational debris at a camp or fortification due to the high levels of maintenance required to keep any army operational in the field, even in times of truce or peace. As the evidence from Woodstown and Birka suggests, smithing would be a primary activity, as all forms of weapons and armour would need repairing due to the rigours of daily use. Weapons would also need sharpening and armour would need repairing, thus we could expect to find whetstones, grindstones and broken or discarded tools. We could also expect ‘domestic’ waste such as middens and possibly cesspits. Whilst riverside encampments may simply have used the river in place of latrines, armies camped inland may have utilised them. We unfortunately however have very little knowledge of how Viking Age armies operated in the field and as such any evidence recovered would provide a unique insight to daily life.

An interesting question is raised from the finds of non-military artefacts at some sites. Blackburn (2002) describes at Torksey, Lincolnshire, possible evidence of the distribution of precious metal, yet describes this site as a ‘productive’ site as opposed to a military one. Russell et al (2007) describes evidence uncovered at Woodstown for the production of textiles and foodstuffs, suggesting that the occupation there was not strictly military. Even the ‘garrison’ area at Birka is described by Hedenstierna-Jonson et al (2009:9) as revealing evidence of the production of non-military items such as Thor’s hammers, knives and padlocks, although one could reasonably see a reason for the production of such items and the uses that they would have on a military site – the Thor’s hammers especially providing information on the religious beliefs at the site. Should, however, this view of ‘domestic’ activities be allowed to cloud our view of possible military sites? Just because the site at Woodstown shows evidence for the production of ‘domestic’
materials, there is no reason to suggest that the site was a *longphort*, which then became a larger settlement in times of peace, or that there were members of the occupying forces who were capable of producing textiles and processing food. We should not assume that Viking armies would not have had the same camp followers that followed in the wake of armies throughout history who would be capable of producing such goods. It is also important to remember that soldiers must be capable of at least repairing their own clothing and there is no reason that Viking ‘soldiers’, who “were fighters by vocation rather than profession” (Clarke 1999:37), would not have possessed the skills to produce clothing and food – skills that would be very important to people who were largely farmers and seasonal warriors. It would be an androcentric and unrealistic approach to not consider this possibility. The unexpected ‘B-shape’ of the enclosure at Woodstown may also indicate some form of division between a strictly military enclosure and one that was more like a settlement, as Viking ‘armies’ may have been more akin to mobile settlements and the various occupational debris produced would be visible at fortification sites.

Sites can exhibit signs of burning and destruction and following analysis, archaeologists may be able to attribute this to attack, although such a hypothesis can be debateable. Excavations at Birka revealed that an earlier rampart “was burned down at the beginning of the ninth century” (Holmquist Olausson 2002:161) and a similar phenomenon is recorded by Brown (Unpublished) as occurring at South Cove, Suffolk. The fortress at Trelleborg also seems to have been subjected to burning at some point (Cohen 1965:20). At certain sites such as Tempsford, we could perhaps expect to see burning and destruction across the site due to its being destroyed by the Anglo-Saxons in 917.
It is reasonable to expect burials at fortified sites, as people could have died from conflict and any number of diseases. Repton, Birka and Woodstown all contain burials, with Repton’s mass grave famously containing skeletons which appear to have sustained fatal battle wounds (Biddle & Kjølbye-Biddle 1992:40). Woodstown features the ‘warrior grave’ excavated outside of the enclosure ditches which was furnished with weaponry, and Birka featured some 1100 graves (Holmquist Olausson 2002). Whilst some graves at Birka contained weaponry, this cannot be taken as a solid indication of ‘warriors’, but does conform to the partly militaristic nature of the town.

As can be seen, a ‘key’ to locating Viking fortified sites in Britain may not exist. Every possible factor that could contribute to one’s interpretation of a site as ‘Viking’ must be thoroughly analysed in context. A D-shaped earthwork bank and ditch next to a river can be constructed by anyone who wished to situate their enclosure close to water, irrespective of their culture, thus meaning that the interior of the site needs to be investigated to reveal any possible occupation debris or burials. It is time to move away from the approach taken thus far, where sites that are not considered to be Roman, Anglo-Saxon or medieval are to be interpreted as Viking (as Hart (1995) interprets the Aldewerke at Shelford). We need to be more pro-active in our investigations so as to construct a more informed and complete interpretation of how the Vikings operated in their fortifications and camps. From this much more can be understood about them in daily life in cities such as Jorvik and Dublin. Woodstown has already influenced much discussion with the broad range of activities that are believed to have taken place there. If some form of military component to the site can
be positively identified, then this site may reveal an utterly different picture of the
activities that we once would have associated with the Vikings.

The Blunham site is one that requires systematic investigation in order to
determine if it was the Tempsford base of 917. We know from the *Anglo-Saxon
Chronicle* (Swanton 2000:102) that a Viking fortification was located in the vicinity
and it would not be unreasonable to assume that the Viking army who are recorded as
coming down from Huntington may have travelled by ship, as the river would have
been navigable to ships with shallow draughts at the time (Edgeworth 2008:8). Therefore the situation of the site on the banks of the River Great Ouse is not
unreasonable. The site is D-shaped and whilst this cannot be directly associated with
Viking construction, it does show that whoever built the enclosure wished to
incorporate a length of shoreline into it. The cropmarks show that there was possibly a
large ditch (Edgeworth 2008:2) – certainly an indication of fortification – the
excavation of which may provide important clues as to the nature of the site. The oval
feature within the enclosure may be representative of a mound once being constructed
there – a feature that may also exist at the suspected *longphuirt* at Dunrally and
Athlunkard in Ireland. The smaller, D-shaped enclosure at the Blunham site may have
been further enclosed in a much larger fortified area which now forms the boundary
of East Meadow to the south of the site (Edgeworth 2008:5). This would provide a
large area to house an army with their equipment, supplies and any horses. We know
that there is a burial mound to the south of the site and whilst this is most likely to be
prehistoric, it most definitely deserves investigation so as to prove that it is not linked
to the site. Furthermore, an Anglo-Saxon spearhead recovered near to the site at HER
grid reference TL151 525 (Edgeworth pers comm. 2007), may be an indication of the
conflict that the *Anglo-Saxon Chronicle* states took place before the fortress was
destroyed. Thus whilst there is obviously much work to do at this site, a Viking attribution to the ‘Tempsford’ site is possible. It is within striking distance of Bedford, a target of Viking aggression in the years up to 917 and the size of it is more than sufficient to house a large force. Even if excavation failed to discover any traces of a Viking occupation and eventually disproved Edgeworth’s hypotheses, investigations at the site would still be useful in that they would show that D-shaped enclosures do not automatically constitute a Viking presence.

It would seem, therefore, that the direction that the study of fortifications must take is to dismiss previous theories in order to find out what evidence we are left with. This study has attempted to break down the current way of thinking about Viking fortified sites, but as Goddard (1904:308) states, “the spade is… the agent most in request to let in fresh light on the subject”. This need for excavation has not changed in the one hundred and six years since Goddard wrote his summary of the earthworks of Bedfordshire. By means of what we actually do find at potential Viking sites we can begin to see what (if any) of our theories up until now can be fully substantiated.

Any scholars wishing to study Viking fortified sites must also remember in future studies to ‘look up’ from sites and attempt to study them within their wider landscape. When studying Edgeworth’s site at Blunham, for example, it would be useful to look at the possible ancient trackway running south-west/north-east across towards what is believed to be a ford at the site (Edgeworth 2006:5). If this trackway can be identified as being used during the Viking Age, the direction that this trackway was running would influence what kind of traffic would be passing through the locality of the site, which could in turn influence what goods and money would arrive there. Landscape archaeology and the analysis that is involved in the process of investigating past landscapes is becoming ever more important in the study of the
past, as archaeologists begin to try and understand the landscapes within which conflict takes place (Carman & Carman 2006:1). In this particular case, a phenomenological viewpoint could be useful when used as part of the multidisciplinary approach that is needed.

It is no longer acceptable to rely on comparative evidence which cannot actually tell us anything about a site, as to leave these sites un-investigated has the potential to skew our view of history. We know that the Vikings were present in Britain and we know that they were constructing fortifications to protect themselves. Archaeologically, however, it seems at present that the Vikings were defenceless, as we know of only one possible location where they may have camped with any certainty – Repton. By being able to place the Vikings in space as well as time we can more fully understand the changes and events that were occurring during the Viking Age. This will improve our understanding of how people were fighting and dying on a daily basis and further our knowledge of the actions that took place as the Vikings fought for control of the British Isles.

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