CHAPTER 2

Hunter-gatherers and first farmers:

The Mesolithic wildwood to the end of the monumental landscape of the Neolithic (10,000 BC-1700 BC)

hy John Lewis and Fraser Brown

CD-Rom queries
Neolithic landscape
Mesolithic landscape
Burnt flint from cursus and Mesolithic pits
Neolithic Pre-C1 Stanwell Cursus postholes and pits
Postholes and pits
C1 Stanwell Cursus
C2 Cursus
C2 Cursus
C2 Cursus
C2 Cursus
C2 Cursus
C2 Cursus
C3 Stanwell enclosure
C4 Stanwell enclosure
C5 Cursus
C6 Cursus
C6 Cursus
C6 Cursus
C7 Cursus
C8 Cursus
C9 Cursus</l

Introduction

This chapter deals with the hunter-gatherer landscapes prior to c 4000 BC (the Palaeolithic and Mesolithic), and the appearance of the landagriculturists and transformation of the landscape through the construction of ceremonial monuments between 4000 and 1700 BC (the first lays out the framework of material evidence and assumptions regarding dating that will guide our analysis, relative to the trasearch approach established in Chapter 1. This is then followed by a chronological marrative.

Summary of the evidence (Fig. 2.1)

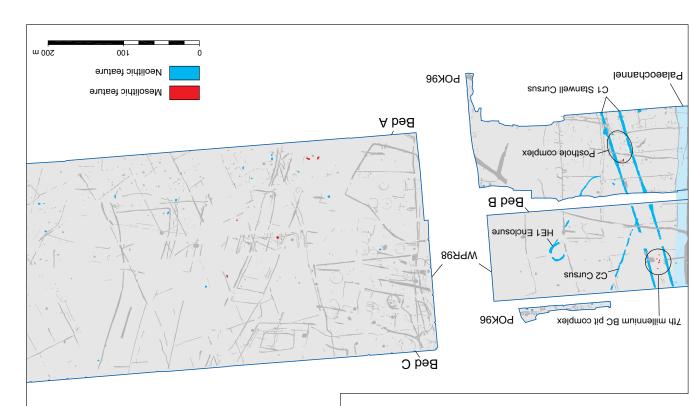
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Five heavily rolled flint artefacts (including a small handaxe), none of which was in situ, are our only testimony to the Palaeolithic at Perry Oaks, whilst the Mesolithic is represented by c 80 flint artefacts, including 10 diagnostic types, mostly residing in features of much later date. Most notable were a cluster of pits excavated in the northern part of Bed B (WPR98; see Fig. 2.1) which contained burnt flint. This material provided thermoluminesence dates suggesting activity in the middle of the 7th millennium BC.

Figure 2.1: The Mesolithic and Neolithic dataset: excavated features

Neolithic

The Neolithic evidence from Perry Oaks consisted of three earthen monuments and one posthole complex, together with scatters of pits, tree-throws and occasional postholes. Neolithic flint artefacts and pottery fragments were also found residing in later features, as well as in the Neolithic features themselves.



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landscape, but it was not fully analysed due to poor preservation of pollen grains.

Early Bronze Age

Direct evidence of activity in the early Bronze Age is limited to a few diagnostic flint artefacts and pottery. A single sherd of Beaker pottery dating from some time between 2400 and 1700 BC was recovered, together with a few more sherds of less diagnostic pottery, which could either be Beaker or Collared Urn, and thus date from 2000 to 1500 BC. However, all these sherds appear to reside in features dated to later periods.

outline of the narrative

Next we will outline the evidence for constructing a chronological framework for human activity during the huge time-span under consideration. The nature of the evidence for Palaeolithic and Mesolithic occupation is assessed, before turning to look at the Mesolithic in more detail. Several sones of Mesolithic activity are postulated, both from lithic material residing in later features and from the cluster of mid 7th-millennium pits. These locations are interpreted as meeting places for kin-groups, with the pit complex being for kin-groups, with the pit complex being especially important.

Moving forward to the Neolithic, the sequence of monument construction is explored. The construction of the C1 Stanwell Cursus is seen as revolutionary, both in terms of an architectural

> located within the C2 Cursus. It is unclear whether this enclosure pre- or post-dated the C2 Cursus. No ceramic dating evidence was netrieved from the enclosure and the lithic material is inconclusive, but suggestive of a period of use in the 3rd millennium BC. The enclosure was c 17 m in diameter and probably consisted of ditches with internal banks. It was orientated on the mid winter sunset and the mid summer summer sunset and the mid summer summer sunset and the mid summer summer sumset and the mid summer summer sumset and the mid summer summer sumset and the mid summer summer.

Ground water had completely leached out the collagen from all the skeletal material associated with these Neolithic features, making radiocarbon determinations impossible. Furthermore, material conflicted with the stratigraphy and/or artefacts contained with the stratigraphy and/or on a relative chronology of the Neolithic landscape relies are present across much of southern Britain. In this respect, no Peterborough Ware pottery (3400 to 2500 BC) was recorded on site, although a small quantity of Grooved Ware pottery (3000 pits scattered across the area from a handful of pits scattered across the area.

Environmental evidence for the entire Neolithic period was very limited, with just a single pollen diagram presenting the results from a pit cutting one of the ditches of the CI Stanwell Cursus. The pollen evidence suggests the location was either in a glade or on the woodland edge. The radiocarbon date for this feature is however contradictory. Another sample from a pit in Bed C was assessed and suggested a more open C was assessed and suggested a more open

> The specific Neolithic monuments excavated were as follows:

- A posthole complex within POK96. This was undated but was stratigraphically earlier than the construction of the C1 Stanwell Cursus.
- The C1 Stanwell Cursus. This monument
 consisted of two parallel ditches c 20 m apart, consisted of two parallel ditches c 20 m apart, orientated NUW-SSE. It ran for at least 4 km and POK96. The cursus ran through the 7th millennium pit complex and earlier posthole complex and earlier posthole complex when the cursus area of the posthole complex when the cursus area of this location. Roughly contemporary with this event, a second cursus (the C2 with C2 with this event, a second cursus (the C2 with C2 with this event, a second cursus (the C2 with C2 with this event, a second cursus (the C2 with C2 with this event, a second cursus (the C2 with this event).
- The C2 Cursus consisted of two parallel ditches, c 60 m apart and orientated NNE-SSW. This monument probably had the more usual arrangement of an internal bank adjacent to each of the two ditches. The C1 Stanwell Cursus served as the southern terminal of the C2 Cursus and the Terminal 5 excavations suggest this monument ran for at least 480 m.
- On the basis of pottery, stratigraphy and analogy with other monuments of this type, both the C1 and C2 Cursus were probably constructed sometime between 3600 and 3300 BC.
- The HE1 'horseshoe' shaped enclosure was

modification to the landscape, but also in being a physical manifestation of kin-groups coming together to form a community. This was achieved by communal effort to build a monument whose (such as the Mesolithic pit complex and the fouch as the Mesolithic pit complex and the mation occurred in a landscape which was becoming increasingly cleared following the 'elm decline', and may have occurred in response 'elm decline', and may have occurred in response 'elm decline', and may have occurred in response may have required architectural settings for coreaning increasingly cleared following the 'elm decline', and may have occurred in response 'elm decline', and may have be occurred in response 'elm decline', and may have be occurred in response 'elm decline', and may have be occurred in response 'elm decline', and may have be occurred in response 'elm decline', and may have be occurred in response 'elm decline', and may have be occurred in response 'elm decline', and may have be occurred in response 'elm decline', and may have be occurred in response 'elm decline', and may have be occurred in response 'elm decline', and may have be occurred in response 'elm decline', and may have be occurred in response 'elm decline', and 'elm decline', and 'elm

This transformation set in motion the construction of the C2 Cursus and probably the HEI enclosure, as ceremony associated with access to land and resources rapidly became established as the way in which the community developed. Tree-throws and the occasional pit show that occupation was spreading across the landscape at this time, probably in the many woodland clearings that were being exploited for transient arable and pastoral agriculture.

This pattern of ceremony associated with monuments seems to have lasted through the currency of Peterborough Ware pottery, until perhaps the middle of the 3rd millennium BC. At this time, evidence from other West London sites suggests changes in the landscape, with a marked increase in the deposition of artefacts in isolated pits, starting with Peterborough Ware and continuing with Grooved Ware. These pit deposits can be

interpreted as marking the end of a sequence of ceremonies, which started at the now ancient earthwork monuments. The pit deposits were the final act, which sealed the agreement over which parcel of land. This represents the first physical act of marking a kin-group's rights over a piece of land, however small or however transient it may have been.

Other evidence from West London and the Terminal 5 excavations suggests that new small circular monuments were constructed in association with the use of Grooved Ware pottery from the latter half of the 3rd millennium BC onwards (see Vol. 2). There was thus a renewed requirement for architectural settings in which representatives of the kin-groups would meet and maintain the cohesion of the community.

was by now an increasingly open landscape. negotiate access to land and resources in what ceremonies and discrete artefact deposits to this marked the 'last gasp' use of monuments, of the dead in making claim to land. In many ways that now it sometimes incorporated the remains to the Grooved Ware of earlier centuries, except Urn appears to have been utilised in similar ways ignored in the Heathrow area. Instead, Collared and the associated burial rights seem to have been millennium BC. During this period, Beaker pottery that we see changes at the turn of the 3rd and 2nd years before, and so it is perhaps not surprising construction of the cursus monuments, up to 1500 operated conesively had been changing since the The mechanisms by which the community had

In Chapter 3 we will show how, around 1700 BC, the whole process was replaced by the physical division of the land by boundary ditches, banks and hedgerows, a process as revolutionary in terms of the community and inhabitation of the landscape as the construction of the cursus monuments had been almost 2000 years earlier.

Chronological framework

In order to describe the human inhabitation of the Mesolithic, Neolithic and early Bronze Age landscapes, and to understand the transformation of one to the other, it is necessary to define the tools available to build a chronological framework for these periods. This framework is largely defined by ceramic and lithic artefacts, which can be dated with varying chronological precision.

The chronological framework adopted in this chapter is one that is generally accepted for southern Britain. Details are presented below.

The paucity of Mesolithic evidence, and in particular radiometric dates, from Perry Oaks frames our debate in terms of the early / late Mesolithic. With regard to the Neolithic, there persists in the literature a confusion of terms dividing the period. Two schemes have generally meddle and late. This duality has arisen largely meddle and late. This duality has arisen largely because researchers in different parts of the country have different components of the Meolithic 'package' in a variable mix and with varying and imprecise absolute chronologies. varying and imprecise absolute chronologies.

However, recent developments in the dating of particular Neolithic ceramic traditions have allowed some refinement of chronology of the Neolithic monumental landscape at Perry Oaks.

Set Absolute dates

Absolute dates from the Mesolithic to early Bronze Age at Perry Oaks are extremely sparse. This is largely due to the poor state of preservation of many of the deposits. Most features lay above the permanent water table in conditions not conducive to organic preservation. The charcoal recovered was generally heavily comminuted, and bone collagen was depleted.

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Four thermoluminescence (TL) dates were obtained from burnt flint recovered from a series of pits sealed below the Stanwell Cursus (Table 2.1). The dates extended across the 7th millennium BC but it is probable, given the nature and spatial distribution of the pits, that they represent either contemporary activity or phases of activity either contemporary activity or phases of activity confined to a few generations.

A radiocarbon date of 6240-5990 (cal BC 2 sigma) from the 2003 evaluations at Bedfont Court on the Colne floodplain attests to activity in this area at broadly the same time as the burnt flint pits of the terrace were filled (Framework Archaeology 2003).

veolithic dates

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The earliest Neolithic radiocarbon date came from sediment in a pit (150011) that cut the Stanwell Cursus ditch fills, although the date (4349-4047; NZA14902 cal BC 2 sigma) was very was residual. A radiocarbon date of 3030-2870 BC (WK11473 cal BC 2 sigma) was obtained from a small bowl-shaped pit (137027) containing cremated human bone. In all pits of this type where ceramics were also present, the pottery was ceramics were also present, the pottery was coved Ware, confirming the Neolithic date.

The more recent excavations associated with the construction of Terminal 5 (T5) have yielded more radiocarbon and Optically Stimulated Luminescence (OSL) dates (see Vol. 2). An OSL sequence was obtained from deposits in both ditches of the Stanwell Cursus, with the dates indicating that the monument's ditches were silting during the early Neolithic. Analyses of the T5 data is ongoing and the results are not included in this volume.

In view of the paucity of absolute dates, we will consider the relative dating of stratigraphy and the ceramic sequence.

a.a mant en journe ou	relying on lithic eviden		the ceramic sequence.
ətsb nsəM	Upper date-range	Lower date-range	Pit context number
6210 BC	2280 BC	6840 BC	165005
9750 BC	0170 BC	1330 BC	165005
6460 BC	2160 BC	7160 BC	165007

Table 2.1: Thermoluminescence dates for Mesolithic pits in area of the Stanwell C1 Cursus at Perry Oaks WPR98

6550 BC

7180 BC

ceramic evidence and so the chronological resolution of the historical narrative is coarser when

nature of lithic waste and debitage. These terms cover much broader periods of time than the

Earlier and later Neolithic.

Mesolithic or Neolithic,

Early and late Mesolithic

in terms of the following:

This is partly due to the relatively undiagnostic

cal terms, it is generally only possible to speak

important part to play in defining a relative

Lithic artefacts and assemblages have an

geography of the period 9000 to 3000 BC.

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Relative chronology

scape, and try to construct a non-monumental

within the Perry Oaks and wider Heathrow land-

We will now look at the context and distribution of the Mesolithic and earlier Neolithic flint work

chronological sequence. However, in chronologi-

7810 BC

Calibrated BC	Lithic Period Division
10,300-8800	Late Glacial
0007-0088	Early Mesolithic
7000-4000	Late Mesolithic
4000-3200	Earlier Neolithic
3200-2400	Later Neolithic
5400-1200	Early Bronze Age

Table 2.2: Chronological divisions of lithic artefacts

indicates. Cramp, who analysed the lithic assemblage from Perry Oaks, makes the following observations on the chronologically diagnostic Mesolithic and Neolithic flint assemblages (full lithics report can be found on accompanying CD, Section 3).

While diagnostic tool types, such as microburins and microliths, provide a more reliable and quantifiable resource, it is possible that a significant quantity of undiagnostic Mesolithic flintwork is present but has been subsumed by the early Neolithic assemblage with which it shares many technological characteristics. This invisible element may, not entirely but to some extent, account for the apparent under-representation of the earlier period in terms of flintwork from the site. Examples include some of the blades, bladelets and rejuvenation flakes, along with the two blade cores from WPR98. These pieces were isolated the presence of platform edge abrasion and evidence the presence of platform edge abrasion and evidence for the use of soft-hammer percussion.

These potentially Mesolithic artefacts are quantified by feature and phase in Table 2.3, which provides an indication of the low numbers of flints involved.

(Cramp, CD Section 3)

During analysis, a reassessment of the flinttempered pottery fabrics and their associations

the ceramics, that the ditches of Stanwell Cursus

fo sized off no ,bomuzza assumed, on the basis of

Therefore, during excavations at Perry Oaks in

to date features containing undiagnostic flint-

deposits. As a result, at Perry Oaks and other

West London sites, it has been common practice

does not provide a precise chronology for these

the basis of otherwise undiagnostic body sherds

used intermittently throughout the Neolithic and

particular, a range of flint-tempered fabrics was

In the middle and lower reaches of the Thames in

ically precise indicators of ceramic development.

from Perry Oaks a fabric type series was estab-

Firstly, we will examine the Neolithic ceramics

to in this section reflect the main period of use

It is important to stress that the dates referred

sequence established using absolute methods.

absolute dating, but they can support the general

The ceramics cannot be used to achieve accurate

Problems with ceramic fabrics

and assess their relative position in the

chronology of the period.

of the ceramics concerned.

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During initial analysis of the ceramics recovered

lished. These fabrics, however, are not chronolog-

Bronze Ages. It follows that dating deposits on

tempered fabrics to the late Bronze Age.

were open into the late Bronze Age.

The associations between diagnostic lithic artestratigraphic relationships. although this is at variance with the observed been entirely re-excavated in the late Bronze Age, Alternately, it could suggest that the ditches had fill processes in other features in the vicinity. open for many hundreds of years, contrary to the lated in these ditches although they had been This would imply that no sediment had accumufabric type FL1, assigned to the late Bronze Age. cursus was originally identified as flint-tempered ple, all of the pottery from the primary fills of the accords with an early Neolithic date. For examthe horseshoe monuments and tree-throws) better from the cursus and many other features (notably stratigraphic analysis, has shown that the pottery with lithic artefacts, combined with detailed

The associations between diagnostic lithic artefacts and pottery fabrics also played an important part in the reassessment of the dating of these fabrics. Tree-throws containing Neolithic flints and pottery fabric FL1 were classified as late Bronze Age, it being assumed that the flintwork was residual. However, we know that the landscape from the middle Bronze Age onwards was largely clear of trees, and therefore the lithic material could provide a more accurate date for the tree-throws. The pottery could then be earlier the tree-throws. The pottery could then be earlier Weolithic rather than late Bronze Age in date.

This reassessment resulted in a reclassification of the pottery as early Neolithic fabric FL4, suggesting that the early Neolithic inhabitation of the Heathrow landscape was much more widespread and populous than was previously believed. Having discussed the problems of ceramic dating,

08			lstoT				continued on right
L	Appendie Bronze Age	Ditch	401075	ŀ	Bronze Age	Posthole	132190
			00AAÐ	5	Neolithic	Ъiq	129109
l	Appendie Bronze Age	Ditch	218038	ŀ	Neolithic	Posthole	129013
			66IAÐ		cursus ditch)		
١	Early Iron Age	lləW	180080	<u>S</u>	Neolithic (western	Ditch	128028
l	Desolithic	Tree-throw	172081	ŀ	Late Neolithic	Pit	127022
l	Appendie Iron Age	Ring ditch	760731	ŀ	Mesolithic	Ъiq	122084
l	Romano-British	Ditch	961991	ŀ	Late Bronze Age	Ditch	122036
l	Mesolithic	Tree-throw	163135	ŀ	Neolithic	Ditch	121173
5	Late Bronze Age	Ditch	160104	ŀ	Mesolithic	Tree-throw	120072
L	Appendie Bronze Age	Ditch	910091	ŀ	9pA nonl stal/slbbiM	Ditch	116256
L	Appendie Iron Age	Ring gully	128143	ŀ	90A nonl stal/slbbiM	Ditch	119240
11	Early Neolithic	Tree-throw	161951	ŀ	Romano-British	Ditch	13131
l	bəseddnU	jiЯ	121031	ŀ	Appendie Iron Age	Ditch	108022
l	Late Bronze Age	Posthole	146206	ŀ	Romano-British	Ditch	107084
l	Appendie Iron Age	jiq	148303	5	Early Neolithic	Ditch	107042
L	Romano-British	Ditch	148093	ŀ	Late Bronze Age	Cremation	106013
L	Early Iron Age	Ditch	148026				869AW
l	90A 9znora 9lbbiM	Ditch	901741	14	bəssdnU	benitebnU	bənifəbnU
l	Neolithic	jiЯ	141228	ŀ	Bronze Age	Ditch	863218
l	Appendie Iron Age	jiq	137114	ŀ	bəssdnU	Tree-throw	663163
L	Neolithic	jiq	136177	ŀ	Bronze Age	Ditch	662363
l	Late Bronze Age	jiq	132022	ŀ	Mesolithic	Natural feature	01240
5	Early Neolithic	Ditch	134026	L	Late Bronze Age	Ditch	809196
L	Romano-British	Waterhole	133198	5	Neolithic	Ditch	109196
L	bəseddnU	bənifəbnU	132199	ŀ	Early Neolithic	Gully	210196
			WRP98 continued				POK96
Number of Mesolithic flints	Feature cut date	Interpretation	Feature	Number of Mesolithic flints	Feature cut date	Interpretation	Feature

Table 2.3: Distribution of possible Mesolithic flints, by feature

3	5609	۶8۹		Totals
2.3	97	32	เหง	Early Bronze Age
3	184	29	СК2	Late Neolithic
3	5320	787	Subtotal EN	
	611	۲۲	0N13	
	51	ŀ	FL8	
	2216	692	FL4	Early Neolithic
(g) WSA	(g) tdgisW	No. sherds	Еаргіс Туре	Date

Table 2.4: Quantification of Neolithic and early Bronze Age pottery from Perry Oaks

the majority were carinated in some way, but were not all of the Classic Carinated Bowl form, which should focus our attention and interest particularly on the minority which were not carinated at all

(C]ea] 2004)

The evidence for this tradition at Perry Oaks is elusive, but could be represented by a single, possibly carinated, sherd from tree-throw 156191, although the remaining pottery from this feature appears to be later (see below).

Undecorated Bowls and Decorated Vessels

The bulk of the earliest ceramics from Perry Oaks probably dates to later within the early Neolithic sequence. This part of the assemblage consists of undecorated Plain Bowl Ware types, with a small proportion of decorated vessels. These types are thought to have emerged sometime before c 3600 BC, continuing in use to c 3300 BC (Gibson 2002, 70).

A large proportion (61.4 %; 541 sherds) of the Neolithic and early Bronze Age pottery assemblage derived from a single context, tree-throw 156191, with a smaller residual group of 80 In general, the condition of this material is poor but the fabrics, particularly the flint-tempered wares, tend to be extremely friable and a high degree of fragmentation does not necessarily reflect a commensurate level of post-depositional movement. The main group, from tree-throw event, whilst the group from ditch 961508, while event, whilst the group from ditch 961508, while

within the early Neolithic than those at Staines

decoration within the Perry Oaks and Cippenham

more recently (eg Cleal 1992). The relative lack of

of such stylistic classification has been questioned

decorated style zone (1977), but the legitimacy

2003b; Lovell and Mepham 2003). This may seem anomalous in an area that falls within Whitle's

Runnymede Bridge (Robertson-Mackay 1987; Kinnes et al. 1991). However, the lack of decoration within the Perry Oaks assemblage is in distinct contrast to these groups. In this respect

the assemblage is closer to those from three sites in east Berkshire: Cippenham, Slough; Manor Farm, Horton and Charvil (Raymond 2003a;

Early Neolithic pottery is scarce within the West London area, and parallels for the fabrics and forms found within the Perry Oaks assemblage are more common from a wider area of the Thames Valley, including Staines and

suggesting that these assemblages fall earlier

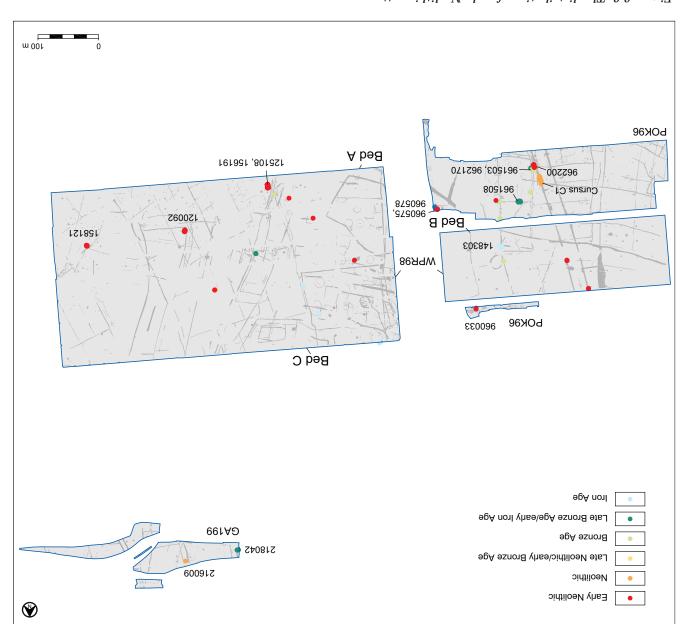
assemblages may be a chronological factor,

or Runnymede.

for the ceramic assemblage can be proposed. the basis of the existing evidence a chronology diagnostic material is relatively scarce, but on of the sherds from Perry Oaks is poor and currency of Peterborough Ware. The condition this period, or indeed subsequently, during the that fabrics did not change significantly within from across the region and beyond indicates a relatively restricted time span, but evidence ity might suggest that the assemblage covers fabrics (see Table 2.4). This apparent homogenetype, FL4, with only a handful of sherds in other The majority of the pottery was of a single fabric more precisely within the early Neolithic period. and place this element of the pottery assemblage we can return to the evidence from Perry Oaks

Carinated Bowls

The earliest ceramic form identified in Britain is the Carinated Bowl, generally dated to c 4000-3600 BC (Herne 1988; Gibson 2002, 70). However, Cleal has recently re-appraised the type, and concluded,



The distribution of early Neolithic pottery (Fig. 2.2) extends across most of the site. However, the complete absence of sherds to the west of the CI Stanwell Cursus is notable. In fact, with the exception of two sherds from the western ditch,

by a wide chronological gap, but the homogeneity

tion of the two groups could have been separated

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3400-2500 3000-2000 BC

by feature type

Neolithic Pottery

obviously residual, is likely to have derived from a disturbed deposit nearby. The original deposi-

of the fabrics across the groups and the stylistic similarity of the rims suggests otherwise.

Ditches (C1 Cursus)
 Tree-throws/natural features

3000-2000 BC Clooved Ware 3400-2500 BC Peterborough Ware

Neolithic Pottery Types

4100-3650 BC Carinated & other forms

3600-3300

Dates

Feature Types

4100-3650

0

Number of features

14

91

Figure 2.2: The distribution of early Neolithic pottery

Ware were found in association with the Grooved Ware, but at Perry Oaks Peterborough Ware is notable by its absence (see above).

Веакег

The chronology of Beaker ceramics has been discussed in detail elsewhere (eg Kinnes et al. 1991; Case 1993), and here our main concern is the relationship between Grooved Ware and Beaker ceramics. A recent review by Garwood (1999) has concluded that there is little overlap between the two and argues that Beaker funerary deposits in southern Britain belong to the period after c 2500/2400 BC and persist until 1700 BC (also Needham 1996, 124).

Only one diagnostic sherd of Beaker pottery has been identified at Perry Oaks, although a small group of other undiagnostic grog-tempered or to the Collared Urn tradition. It is notable that lithic types contemporary with Beakers (such as barbed and tanged arrowheads and thumbnail fied finds. It seems therefore that the Beaker fied finds. It seems therefore that the Beaker scrapers) are present, the former only as unstratified finds. It seems therefore that the Beaker as was the case with Henge monuments and single burials, which also appear to be absent.

The absence of the Beaker complex seems, on current evidence, to be a genuine and widespread characteristic of the middle Thames gravel terrace. It is one of the factors that distinguishes this landscape from surrounding areas (eg Surrey, London and the Upper Thames Valley).

эле рәлоолу

The ceramic sequence at Perry Oaks continues with the use of Grooved Ware. The overall currency of this ceramic tradition in southern Britain, based on radiocarbon dating, falls c 3000–2000 BC (Garwood 1999, 152). Some 62 sherds from Perry Oaks have been identified as therds from Perry Oaks have been identified as tion and fabric. The fabric is a homogeneous grog-tempered type, classified as GR2.

Forty-one sherds of Grooved Ware, the majority of the total, came from a single feature excavated at the Northern Taxiway (GA199), pit 216009/ 216118 (respective secondary fills 216011 and 216120). A radiocarbon sample from pit 216009 produced a completely anomalous medieval date (sample WK9377). Additional small quantities of Grooved Ware came from six stratified contexts at the main central drying bed area (WPR98), one from Grass Area 21 (GAA00), and two from the from Grass Area 21 (GAA00), and two from the MoLAS excavations (POK96).

This small group is significant, although a substantial assemblage of more than 500 sherds, representing approximately 12 vessels in Durrington Walls sub-style, had previously been recovered in Harmondsworth (Field and Cotton 1987). More recent fieldwork in Harmondsworth fas added to this, with a further four vessels in the same sub-style from Prospect Park (Laidlaw and Mepham 1996) and a substantial assemblage of c 9.5 kg from Holloway Lane (unpublished data, MoLAS site code HL80; cf. Merriman 1990, 24–5). MoLAS site code HL80; cf. Merriman 1990, 24–5).

> none were identified beyond the eastern cursus ditch. A rough clustering of findspots was apparent in part of the MoLAS excavations (POK96), where pottery was found in the fills of the eastern cursus ditch (most of the 31 sherds from the cursus were concentrated in this area) and within the fills of the Bronze Age field 961508. The identification of early Neolithic pottery within the cursus ditches has considerable implications for their dating. Most of the sherds came from secondary fills, but two were sherds came from secondary fill within ditch 961501.

Other sherds came from a scatter of tree-throws, including the largest group from 156191 on the southern edge of Bed A, and from pits and other features. Tree throw 156191 was the only feature with a possible *in situ* deposit, perhaps the result of deliberate middening. Other occurrences were sporadic and more likely to be residual.

Peterborough Ware

A recent programme of radiocarbon dating has established a currency for Peterborough Ware ceramics c 3400–2500 BC (Gibson and Kinnes from the Petry Oaks excavations but it is known elsewhere at Heathrow (Grimes 1961), including the recent T5 excavations (see Vol. 2). It has also been found at a number of other excavated sites in the West London area.

Collared Urn

Gibson 2002, 96). Fengate Ware (Gibson and Kinnes 1997; to demonstrate continuous development from Urns are rare and there is insufficient evidence fig. 2). Reliable radiocarbon dates for Collared BC and lasted until c 1500 cal BC (Needham 1996, tion. Collared Urns emerged at around 2050 cal sherds in fabric GR1 could belong to this tradinoted above, undiagnostic grog-tempered body have been identified at Perry Oaks although, as and generally in the West London area. None Collared Urns are also scarce, both on this site

Conclusion of ceramic technology

following time periods: allows us to discuss historical change within the The relative ceramic chronology at Perry Oaks

Ceramic type	Calibrated BC
Larinated bowl	009 €−000 ₽
Undecorated Plain Bowl	
& decorated vessels	3600-3300
Peterborough Ware	3400-2500
Grooved Ware	3000-2000
Beaker	2400-1700
Collared Urn	2000-1500

ping—they are not chronologically mutually of different ceramic types is apparently overlapthis relative chronology. Firstly, the currency A number of caveats must be applied in using

could show significant variations. regional and even local ceramic sequence on national reviews of the ceramics and the and late'. Thirdly, the chronology is based Neolithic, 'earlier and later' or 'early, middle traditional chronological subdivisions of the (particularly Peterborough Ware) cut across and Kinnes 1997). Secondly, the ceramic types by several authors (eg Garwood 1999; Gibson the vagaries of radiocarbon dating, as discussed exclusive. This overlap may be a product of

the Neolithic landscape at Penry Oaks Top variations of a relative chronology for

history in the 4th and 3rd millennia BC. evidence might mean in terms of landscape from Perry Oaks, we now turn to what that Having reviewed the chronological evidence

sions of the early Neolithic and ceramics thus: the current practice applied to chronological divi-Cleal, in a recent paper, has described succinctly

variously, anything from c 3600-c 3300 BC), use a tripartite division into early (c 4000 BC to, the division occurring at around 3000 BC; others bipartite division into 'earlier' and 'later' Neolithic, are applied to the ceramics: some writers prefer a a whole. There are two common usages, both of which the terminology for describing the Neolithic period as Neolithic. At present there is not even a consensus on ent to the second of the development of the development of the tion of how pottery, if it could be better dated, would -soup lenone general values a more general ques-

(C]ea] 2004)

іл тһе south-west. yet no convincingly early mounds quite this early here, although the dating is uncertain, and there are

period. Some of the earliest long mounds may belong

could be termed the earliest phase of the Neolithic to

exotic axes and flint axes were all current, in what

ment, exploitation of the Levels, ceramics, polished

were the carinated forms exclusively the Classic you 'siwod liems bue squb bue smol bowls, inter-

the Sweet Track, an early stage of woodland manage-

Carinated Bowl. By 3800 cal BC, as demonstrated by

but..., other forms were used alongside these, princi-

Early or Developing Neolithic (say c 3850–3650 cal

mainly by interventions in the environment which are

by the state of the second sec

Earliest or Contact Neolithic (c ?4100-3850 BC).

this scheme is worth summarising as it does

from the Heathrow area of the Thames Valley,

for the period. Whilst geographically removed

Cleal proposed a four part regional chronology

After reviewing the ceramics in Wessex and the

south-west of England for the 4th millennium BC,

middle (variously с 3600-3300 to 3000, or 2900/2800

BC). Ceramics of this phase are largely carinated,

often difficult to distinguish as Neolithic.

offer certain parallels.

(C]69] 2004)

BC) and late.

have most of the features we recognise as typical of the

As we have shown, the lithic and ceramic evidence for these early phases of the Neolithic at Perry Oaks is scarce. To all intents and purposes, the lithics are virtually indistinguishable from the latest Mesolithic and suggest a relative continuum in human inhabitation of the landscape in the late 5th and early 4th millennia BC.

^{High'} or Developed Neolithic (c 3650–3350 BC). This is the phase with features of the 'classic' earlier part of the Neolithic most fully developed: causewayed and 'tor' enclosures (and cursus) emerge here, joining long barrows, and ceramics; it also includes the origins of Peterborough Ware as part of a widespread developing pattern of impressed wares.

(Cleal 2004)

In the Heathrow area, this is the period which sees the main phase of construction of large communal monuments, such as causewayed enclosures at Yeoveny Lodge, Staines (Robertson-Mckay, 1987), Eton Wick (Ford 1986) and Runnymede (Needham and Trott 1987, 482 and fig. 2). At Perry Oaks, major elements of the CI Stanwell Cursus and possibly the C2 Cursus Were constructed.

Middle Neolithic (3350–3000/2950 cal BC). In ceramic terms this is the period in which the Peterborough tradition is fully developed and in which the bowl styles of the mid-late 4th millennium BC go out of use.

(Cleal 2004)

No Peterborough Ware was recovered during the Perry Oaks excavations although a small amount was found during recent Framework Archaeology excavations at Terminal 5 (see Vol. 2).

Although across southern Britain as a whole there appears to be some chronological overlap between Peterborough Ware and late Neolithic Grooved Ware, in West London the two are never found in the same contexts. In this region Grooved Ware is most frequently found deposited with lithics and often with charred plant remains such as hazelnuts and crabapple pips. This may be a continuation of the ritual autumnal deposition initiated during the Peterborough Mare phase. In addition, small circular or hengiform monuments were constructed during this period, but not large henge monuments. At Petry Oaks, Grooved Ware was recovered only from a small number of pits but was not

Using the ceramic chronology described by Cleal and others—and noting the distribution of Neolithic ceramics by feature type at Perry Oaks—the chart in Figure 2.2 provides an indication of the modification of the landscape by people during the 5th and 4th millennia BC. Prior to 3600 BC there appears to have been little numan activity in terms of monument construction. The decline through disease of the elm population in Greater London (the 'elm decline') has recently been dated to 3750 BC (Rackham and Sidell 2000, 22). The effects of the elm decline on human behaviour are outside the scope of this

present in the HE1 horseshoe enclosure.

course over at least 3.6 km. which deviates only slightly from a straight This is particularly true of the Stanwell Cursus, local clearance of the forest along their course. and the C2 Cursus would have required at least linear monuments such as the Stanwell Cursus However, it is clear that the construction of major excavated for domestic refuse and ritual deposits. which left their mark in the form of pits as foci for shifting settlement and agriculture, uncertain. These local clearances may have acted produce glades and clearances in the forest is of dead trees (perhaps groups of dead elms) to Whether this was deliberate felling or removal also the level of tree clearance at this time. reflects the impact of the Stanwell Cursus, but enclosures and cursus monuments. The chart the form of large causewayed and small circular dinary flowering of monument construction in Bowl Ware pottery, we see a sudden and extraorfollowing this event, during the currency of Plain volume, but it is surely no coincidence that

The chart in Figure 2.2 indicates that people made little physical impact on the landscape at Perry Oaks during the succeeding period from 3400 to 2500 BC. It is only in the late Neolithic that the adoption of Grooved Ware coincided with renewed deposition of material in pits, and the construction of new, small circular enclosures in the landscape.

Geographies of the Palaeolithic

The artefacts listed in Table 2.5 are our only evidence for the inhabitation of Perry Oaks prior to the last glaciation. This is not an impressive corpus and the artefacts do not conform to any specific technological type. Indeed some question must remain as to whether they do actually represent a Palaeolithic assemblage at all. We and a crested core recovered from the Cargo forep.), dating to 28,000–24,000 BP. These suggest low intensity inhabitation of a periglacial steppe low intensity inhabitation of a periglacial steppe landscape, just prior to the onset of another epoch of glaciation proper.

We pick up the Heathrow narrative circa 10,000 BC, when steppe tundra conditions once more prevailed. No evidence was recovered from the Colne Valley system, notably Church Lammas (Jones 1995) and Three Ways Wharf, Uxbridge (Lewis 1991; Lewis et al. 1992; Lewis in prep.),

c 12mm, forming small notch, for hafting? Condition (rolled, iron-stained) suggests Palaeolithic.					
scraper retouch to one end, c 30mm. Further small area of retouch to one of the longer edges,					
Scraper made on a non-flake blank. Irregular, elongated thermal fragment with some abrupt	Other scraper	4019	214006	ЯI	66IAÐ
Small handaxe, bifacially worked. Very rolled and corticated. Found in a land drain.	9zbs\9xA	3231	100000		86A9W
Possibly an axe-trimming flake?					
Secondary flake in very poor condition. With heavy cortication and deep surface iron-staining.	Secondary flake 1-74%	444	100000		86A9W
and damaged. May be Palaeolithic.					
Large, broad secondary flake in extremely poor condition. Very heavily rolled, iron-stained	Tertiary flake 0%	4020	216040	A٢	66IAÐ
Thermal fragment with possible retouch creating spur. Poor condition.	IwA		100000		86A9W
Object description	toəjdO	.on təəjdO	.on txstno O	bəa	sboo sit

Wordface 2.5: Palaeolithic finds from Heathrow

furnish us with analogues for the kind of inhabitation we might expect in the immediate area. These sites were characterised by distinctive late Upper-Palaeolithic long-blade lithic technology used by the first reindeer hunters to re-colonise major river courses from a North Sea Basin that was dry and habitable at that time. It is perhaps blades from Heathrow, as these hunting bands were probably merely passing through the area, following the migrating herds that were most populous in the valley networks. As such, these people would have had little material need to people would have had little material need to

The second phase of the site at Three Ways Wharf is set against a very different material backdrop to the first. This is evident from the pollen data (Lewis et al. 1992), which places the site in a Holocene/Boreal environment: a sedge/reed swamp populated by pine, oak, hazel, birch and elm. The faunal remains recovered from this site elm. The faunal remains recovered from this site

venture up on to the terrace.

to such an ecology, as well as swan. The people

included red and roe deer—sylvan species suited

Table 2.6 shows features dated to the Mesolithic period, between 8500 and 4000 BC. The majority

as a residual component within later deposits

lithic scatters that occurred across a wide area

a small number of cut features and a number of

terised by geological and topographical features,

Mesolithic / earlier Neolithic geographies

they carved out a world in wood, hide and horn.

talk about the Mesolithic, a period archaeologists

Heathrow landscape. It is now that we can start to

were, as such, the first post-glacial residents of the

than their reindeer-hunting predecessors and

needs and to the local ecology. They probably

restricted their movements to smaller territories

nologies and inhabitation strategies to suit their

who hunted these animals had adapted their tech-

fashioned into the composite tools with which

identify from the microlithic toolkits people

The Mesolithic period at Perry Oaks is charac-

(wolad bna 4-6.2 sgift aas).

Feature	Feature interpretation			
0 8 1540	Natural feature			
120028	Pit			
122084	Pit			
137021	jiq			
160021	ля			
162010	ля			
165005	Pit			
165005	Pit			
192002	Pit			
192006	Pit			
178054	ля			
120072	Tree-throw			
122086	Tree-throw			
163135	Tree-throw			
172081	Tree-throw			

Table 2.6: Mesolithic Features from Perry Oaks



867 sgA sznora

۲

Unphased 1509
 Mesolithic 4
 Mesolithic 80
 Mesolithic 485

%89

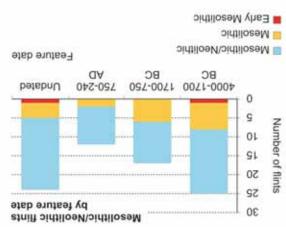
3% 0%

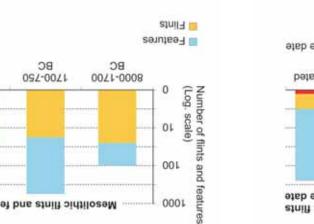
Total flint assemblage by date

%11

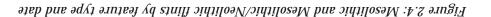
51%

Figure 2.3: Quantity and distribution of Mesolithic and Mesolithic /earlier Neolithic flint

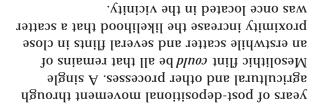




0001



soil would have been subjected to a further 3500 features. In contrast, a Neolithic scatter in ploughlocked those artefacts into the 2nd millennium the activity which left the lithic material, and those ditches took place perhaps 1500 years after BC ditches of the field system. The excavation of flintwork residing in the middle 2nd millennium by fieldwalking (see Fig. 2.4). Consider Neolithic locations as material collected from the ploughsoil texts can provide as precise a guide to activity ways, lithic material which resides in later conmaterial. We would also contend that in some most important factors when considering lithic and scale of analysis of the landscape that are the We would contend that it is the sort of questions the Mesolithic] are of limited value' (2004, 84). scape studies in the Neolithic [and presumably -bnsl', liozdguolq and mori lairatem zidi vecover this or strategies (eg test-pitting or field walking) to



Neolithic feature

В

Μεsolithic activity fo noituditizib bne vgolonovil)

trilî sirtiloseM Mesolithic flint

trift DidtiloseM Viasa 🚺

tnilî oldîlozeM

Period

QΑ

150-240

Mesolithic flints and features by date

encompassing only single episodes of inhabita-(eg 100 sq m) and have little time depth, often Ways Wharf, are often restricted to small areas of the River Colne. These sites, such as Three findspots largely preserved below the alluvium 2000, map 2) display a series of Mesolithic Heathrow area (eg Lewis et al. 1992, 236; MoLAS Distribution maps of the Colne Valley and

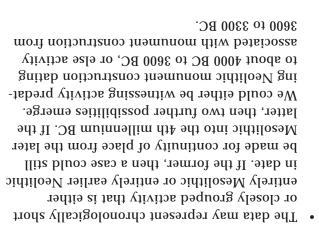
The sludge works had removed all traces of we will deal with next. within later features, and it is those that remainder were recovered from deposits or absolute dating. The vast majority of the the Mesolithic on the basis of stratigraphy flints were recovered from deposits dated to Mesolithic flints. Only six diagnostic Mesolithic deposits contained only typologically dated relationships with Neolithic features, while some a Mesolithic date on the basis of stratigraphic ence. Some tree-throws have been assigned Stanwell Cursus and dated by thermolumines-IO off nitiw first for the CI are pite of the content of the content

have stated that without adequate preservation derived from prehistoric flint scatters. Allen et al. could be expected to contain lithic material the original ploughsoil, which in rural locations

valley, has an extremely sparse record of Mesolithic activity. But this does not mean that we cannot write the Mesolithic into a history of the landscape as a whole. The Mesolithic landscape as it has been defined at Heathrow (see above), consists of scatters of predominantly lithic material distributed over an extensive treats such material either at the scale of activity cluster or at the regional level (ie analysis of cluster or at the distribution map). The analysis of in this volume will be at the local level of the Perry Oaks site and surrounding topography.

The problems of lithic chronology (the small number of datable lithics and the residual context of the majority in later features) have been discussed above. What can we say of this data material attests to a human presence on the 3000 BC. The assemblage is too small to allow perticular activities to be defined and the blurred chronology leaves us with several different interpretations of the data. These may be summarised as follows:

The lithic data may indicate repeated activity
 at (and therefore the continued importance of) certain locations in the landscape from the late Mesolithic through to the earlier Neolithic.
 We may be witnessing how the meanings and uses of these locations changed and were embellished architecturally from c 6500 BC to c 3300 BC.



In actuality, the lithic data could have been generated by a combination of all these scenarios. The chronological problems of this data can be shown by looking at certain concentrations of flintwork in the landscape, as illustrated by the plan in Figure 2.4.

Two other concentrations of Mesolithic and/or Mesolithic/Neolithic flintwork were recovered adjacent to and within the CI Stanwell Cursus and the small 'horseshoe'enclosure (HEI). The locations suggest most clearly the enduring importance of place from the middle of the 7th millennium BC to the construction of the Stanwell Cursus in the middle of the 4th millennium BC. This is discussed in more detail below.

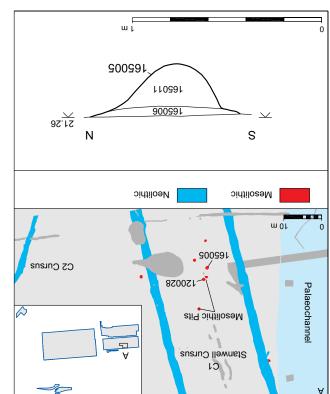


Figure 2.5: Mesolithic pits under the CI Stanwell Cursus

tion. They provide us with a detailed record of short-lived inhabitation episodes and allow us to describe and distinguish types of activity in ecological and economic terms. However, they rarely afford us a history, in the sense that they do not provide us with the means to link these discrete places and temporalities into coherent narrative sequences.

In contrast, the Heathrow terrace, and indeed anywhere in Greater London outside the main

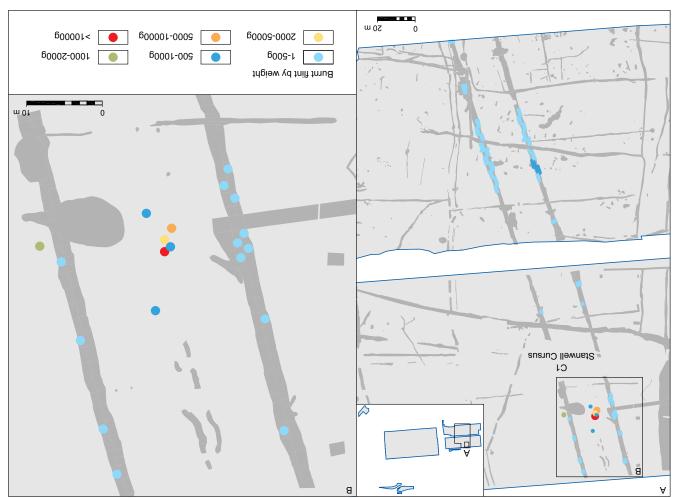


Figure 2.6: Burnt flint distribution and density in Mesolithic pits and C1 Stanwell Cursus ditches

be heavily rolled and glossed, often exhibiting a considerable degree of post-depositional edgedamage. Given the condition of the material and they represent residual material incorporated into the fill of later features.

that this had silted up by the middle of the 7th millennium BC.

The small assemblages of flint from the pits were undiagnostic and in an extremely poor condition. Almost without exception, the flakes appeared to

Continuity of place: From late Mesolithic pits to the Stanwell Cursus

having cut alluvial deposits of the Colne. west of the C1 Cursus, the stream is well defined, established its general SW-NE trajectory. To the influenced the alignment of the C2 Cursus and westwards into the floodplain. This may have watercourse changed, following the topography structed. At one point the alignment of the which the Stanwell Cursus would later be conflowed on the edge of the Colne floodplain, along radiocarbon dating was present. The watercourse palaeochannel, and no material suitable for ever, no finds were recovered from the fills of the been detected in this part of the landscape, howthe only obvious source of surface water to have through the cursus ditch fill sequence. This is from pit 150011 that had been dug mid-way Sphagnum moss were detected in a core sample been wet in the later Neolithic, as spores of (see Figs 2.1 and 2.5). This area is known to have now marked by the remains of a palaeochannel the western part of the Perry Oaks excavations, Cursus, a small stream flowed north-south across Prior to the construction of the C1 Stanwell

Adjacent to the stream, in the area that would later be sealed under the Stanwell Cursus bank, eight small pits were dug (Fig. 2.5; Plates 2.1–2). These were filled with burnt flint and stone and a few pieces of worked flint (Fig. 2.6), with extremely comminuted and mineralised charcoal. The pits were dated by thermoluminesence to the mid 7th millennium BC. The absence of burnt flint from the adjacent stream channel suggests

A small cluster of Mesolithic/earlier Neolithic flint work occurred in the ditches of the Stanwell Cursus in the area adjacent to the Mesolithic pits. However, it was impossible to distinguish if the majority of this material was contemporary with the 7th millennium pits or with the construction and use of the C1 Cursus in the 4th millennium BC. Only a burin from the western cursus ditch was typically Mesolithic.

It is impossible to establish whether the pit digging was a single event of the Mesolithic or whether it took place episodically, but the consistency in form of the pits suggests the former. The location was probably somehow marked, whether by distinctive vegetation in the form of a clearing, topographically by their proximity to the stream channel or by a manmade feature such as a midden. The distribution



Plate 2.1: View from C1 Cursus ditch looking towards the Mesolithic pits

of burnt flint in the Stanwell Cursus ditches adjacent to the pits (Fig. 2.6) suggests that whatever activity was undertaken here, the residues were originally more widespread, perhaps covering an flint in the cursus ditches to the north and south of this location demonstrates that this activity was very localised. No comparable features have been detected anywhere else at Perry Oaks, and perhaps the break in slope between the Colne floodplain and the Taplow terrace formed a traditional routeway through the landscape, presenting a cleared or convenient route traditional routeway through the landscape, traditional routeway through the landscape, presenting a cleared or convenient route

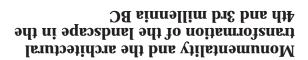
Both the specific distribution of the pits and the close focus on one place in the landscape, implies that a certain awareness had dictated some highly structured activity. Slight though fact that in the 7th millennium BC, a community by digging into the surface of the earth, piling up the residue and filling the void with culturally derived material. These activities had now become incorporated in the permanence of the place.

The practice of breaking the ground and processing the earth in a way that explicitly realised human intent, operating within a structure defined by the natural topography and a geography of cleared pathways and places, was to give rise to the inscription of a monumental landscape that pre-figures the Neolithic.



Plate 2.2: Mesolithic pits 120028, 160021 and possible Mesolithic pit 159025

We have seen how, during the 7th millennium BC, one location was marked by a distinctive pattern of activities. We have previously seen that other parts of the landscape contained lithic residues that also indicate activity sites during the Mesolithic/earlier Neolithic. When we consider the construction of the CI Stanwell Cursus in the 4th millennium BC, we will show how it came to incorporate the location of the Mesolithic burnt flints, and how the residual meaning attached to that location was transformed into something new.



and/ or Mesolithic / Neolithic flintwork. landscape which saw the deposition of Mesolithic also occurred at certain other locations in the if not longer. We have also suggested that this importance which may have lasted for centuries undertaken at this point, the location gained an We have argued that as a result of the activities um BC with a series of pits containing burnt flint. scape occurred in the middle of the 7th millenni--bnsl sht ni noitsol sifissqs s to noitssifibom demonstrate that the first visible architectural and times. However, we have been able to resolution of human activity at particular places exceptions, our crude datasets do not allow a fine of historical change is limited. With one or two lithic assemblages means that our understanding nium BC. We have shown that the dating of the Holocene to the early centuries of the 4th millenaround the Heathrow landscape from the early human activity took place at various locations In previous sections we have described how

period which we understand as the Neolithic. of domesticated animal and plant species, of a ceramic and novel lithic technologies and the use of the key elements along with the adoption of mation, which we know as monumentality, is one standing-post structures. This architectural transforarchitecture in the form of ditches, banks and in the 4th and 3rd millennia BC, through the use of were marked, embellished and finally transformed In this section, we will look at how these places



Figure 2.7: All pits and postholes around the C1 Stanwell Cursus

and show how this served to demarcate locations sub-circular monument, the horseshoe enclosure, llsms and to avom nadt lliw aW .asu aldizzog compare their construction, development, and cursus monuments excavated at Perry Oaks, and

physical means. Secondly, we will study the two importance became marked by architectural and and show how particular locations of social and pits which predate the C1 Stanwell Cursus Firstly, we will examine a series of postholes

which were used at particular times of the year for ceremonies, and how the cursus monuments served to link these locations together.

Activity predating the CI Stanwell Cursus

We have already discussed the 7th millennium BC pit complex and shown how this location became overwritten by the C1 Stanwell Cursus 3000 years later. Figure 2.7 shows that the majority undated and some post-dating the middle of the 2nd millennium BC. A few features, however, contained burnt or struck flint, impossible to say whether any of these features were associated with late Mesolithic or Neolithic pre-cursus activity. One exception is a handful of postholes which were stratigraphically related to the C1 Cursus ditches (Fig. 2.8).

A pit (178054) and five postholes (962132 962063, 962054, 962067 and 962081) can with some confidence be shown to predate the cursus, although none had any dating (Fig. 2.8). Pit may be associated with the adjacent mid 7th millennium BC burnt flint pit complex. The of the junction of the features were clustered south of the junction of the C1 and C2 Cursus, and only one (962132) was located in the eastern C1 ditch. Only two of the section drawings demonstrate the stratigraphic relationship with the cursus (Fig. 2.8). These features very in size, and some

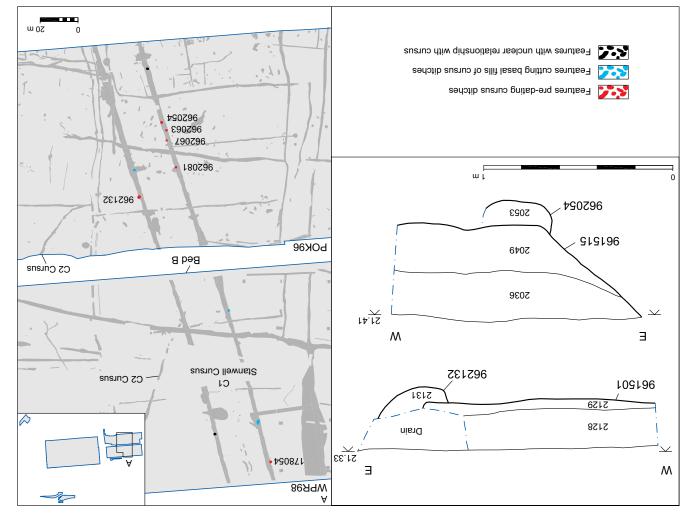


Figure 2.8: Postholes and pits with stratigraphic associations with the C1 Stanwell Cursus

The function and date of these postholes is unknown. They may date to the later Mesolithic and be associated with the burnt flint pit complex to the north. They may thus have been similar to

ered. Posthole 962054, for example, was 0.5 m

the effects of ground level truncation are consid-

could have supported substantial timbers when

in diameter.



Plate 2.3: Excavation of the C1 Stanwell Cursus looking north

Location and orientation

The location and orientation have been discussed in some detail elsewhere (O'Connell 1990) and will only be summarised here.

Cropmarks indicate that the monument ran for at least 3.6 km from the Colne Valley in the northwest to Stanwell in the south-east. The northern terminal was apparently rounded in plan before destruction through gravel extraction and lay

> it into a monumental pathway. with the construction of the C1 Cursus, turning compelled to physically link those sites together axial border and how subsequently people felt these sites formed a string of locations along this with the burnt flint complex, it demonstrates how floodplain and the Heathrow Terrace. Together a location along the interface between the Colne sent the construction of some sort of structure at Cursus. The important point is that they repre-ID and for the construction of the CI 'screen' or façade. They may even have been Neolithic timber monument, possibly a post they may have formed part of a pre-cursus at Stonehenge (Allen 1995, 471). Alternatively, the early Mesolithic "totem pole" like structures

SUSTUD [[9MIBJ CUISUS

The history of investigation

The Stanwell Cursus was first recognised from cropmarks on aerial photographs (see Chapter 1, Fig. 1.1). Excavation of a length of the cursus to the south of Perry Oaks conclusively proved that the twin parallel ditches were stratigraphically earlier than a Bronze Age field system, and that to the Yeolithic (O'Connell 1990). Although the few finds contained within their fills dated the few finds contained within their fills dated a Neolithic Cursus, its exact architectural form was unclear. O'Connell (ibid., 33) favoured a than the more common twin banks adjacent than the ditches (Plate 2.3).

close to the Bigley Ditch, an arm of the Colne Valley which originally formed part of the Middlesex county boundary. The southern terminal was destroyed beneath the housing of Stanwell, but it is likely that it lay close to the marked topographic break in slope caused by the boundary of the Taplow and Kempton Park almost defines the 22 m contour that separates the Colne Valley floodplain from the Heathrow Terrace.

ULIO_H

Excavations at Perry Oaks in 1996 (POK96) and 1999 (WPR98) confirmed that the Stanwell Cursus consisted of two parallel ditches between 20.5 and 22 m apart, the spoil from which was used to construct a single central bank. The width and depth of the ditches will be explored in more detail below, but they averaged c 2.6 m wide and between 0.20 m and 0.5 m deep. The evidence for a central bank takes two forms.

wide and at least c 0.23 m high. m $\mathfrak{S1}$ a saw kind aurus bank was $\mathfrak{c13}$ m ditches suggest that by the middle of the 2nd central bank. The sections excavated across these 2.9), as they were dug across an already decayed shallower between the two cursus ditches (Fig. ditches confirmed that they became much Sections across these 2nd millennium BC hourglass plan as it crosses the central cursus Bronze Age ditch 962363, which has a distinctive ditches. Perhaps the best example is middle places they actually stop just inside the cursus cross the central part of the monument. In some cursus become shallower and narrower as they Bronze Age field system ditches which cross the Firstly, it is clear from Figure 2.9 that the middle

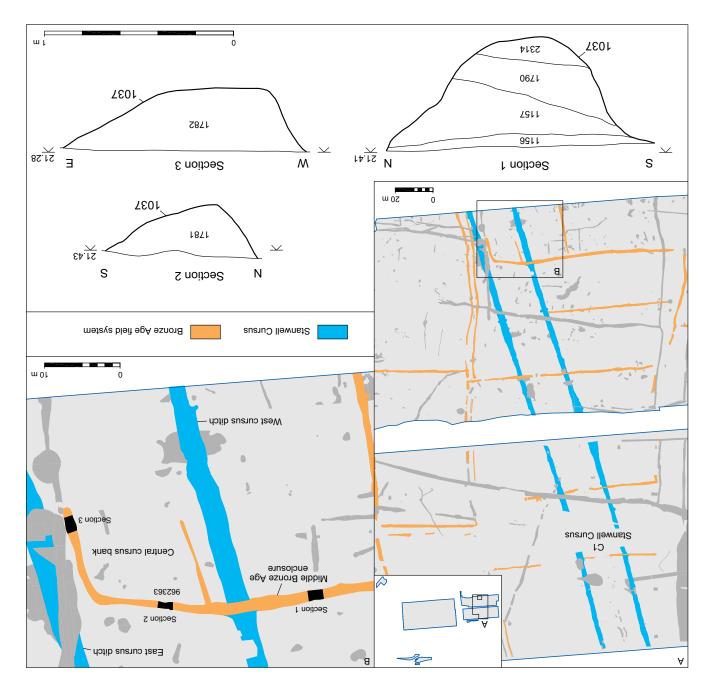


Figure 2.9: The Stanwell CI Cursus in relation to the Bronze Age field system

The second piece of evidence for a central cursus bank comes from the Air Ministry survey of Heathrow undertaken in 1943. Whilst the survey data ors did not notice a remnant bank at the time, for this project revealed the presence of just such a feature coincident with the cursus cropmarks, the south of Burrows Hill, immediately south of Perry Oaks. At the time of the 1943 survey, the broad remnant bank was c 0.20 m high and c 30 m wide, and it was this that led originally to

the identification of the cursus as a Roman road.

Classification

(Barclay and Maxwell 1998). (Harding 1999) and Cleaven Dyke in Perthshire being found as far apart as Scorton in Yorkshire cursus is widely distributed, with other examples banks and external ditches. The central-bank cursus monuments, which generally have two bank is clearly architecturally different from most the Stanwell-type cursus with its long central Stanwell Cursus have yet suggested. However, notations which none of the excavations of the central bank. The term 'barrow' has funerary confrom the class of bank barrows are cursus that have a tion of bank-barrows states, 'Specifically excluded Programme monument class description defini-English Heritage Monument Protection a cursus for two main reasons. Firstly, the bank-barrow. We continue to refer to it as whilst others have started to refer to it as a refer to the Stanwell monument as a cursus, Throughout this report, we have continued to

The exact terminology and classification of these monuments is outside our scope, and to us, it does not matter. This is our second reason for continuing to call it a cursus: we are clear that the architecture of the C1 Stanwell and C2 Cursus at Perry Oaks was radically different. We are also clear that this difference reflected the variable responses to the structural principles that existed at different times in the late 4th millennium BC. Thus to us, whether these monuments are called cursus, bank-barrows or long mounds is irrelevant; they are simply labels.

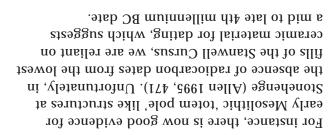
When was the C1 Stanwell Cursus built?

Cursus monuments have traditionally proved very difficult to date accurately, due to the general paucity of artefactual material in their ditches. Recent work on dating cursus monuments has concluded that they were built between 3640-3380 cal BC and 3260-2920 cal BC

L	
	(see above) may also be of this date or earlier.
	postholes which predate the cursus ditches
	in the 5th millennium BC, and the timber
	Stanwell monument could have been constructed
	an alternative hypothesis. That is, that the
	implications of this material, it is worth exploring
	3300 BC. However, before examining in detail the
	Cursus was built sometime between 3600 and
	other sites, it would appear that the Stanwell
	on radiocarbon dates on comparable pottery from
	pottery and flintwork from the ditch fills. Based
	reliant on the relative chronology provided by
	produced a result (see above), and thus we are
	Cursus submitted for radiocarbon determination
	Ilewners 1D ent mort larternal construction the C1 Stanwell
	uments must be viewed with caution. None of the
	therefore chronological parallels with these mon-
	different architecture to traditional cursus, and
	belongs to a class of monuments with radically
	already made the point that the Stanwell Cursus
	(Barclay and Bayliss 1999, 24). However, we have

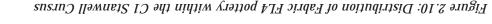
63	53						slstoT
52	2	Plain Bowl Ware	FL4	Μ	lesea	128029	881731
4	2	Plain Bowl Ware	FL4	П	lesea	230334	529242
L	2	Plain Bowl Ware	FL4	н	lesea	230334	230333
G	ŀ	Plain Bowl Ware	FL4	Е	albbiM	134035	133016
8	4	Plain Bowl Ware	FL4	Е	albbiM	230332	530329
5	4	Plain Bowl Ware	FL4	П	albbiM	230332	730327
5	ŀ	Plain Bowl Ware	FL4	н	qoT	134033	133016
5	5	early Bronze Age Grog tempered	вв1	Е	qoT	134033	133016
2	2	Plain Bowl Ware	FL4	П	doT	230336	230328
G	2	Plain Bowl Ware	FL4	П	doT	230336	530329
L	ŀ	Plain Bowl Ware	FL4	Е	doT	230336	530326
Meight (g)	No. of stosjects	Ceramic tradition	fype fype	East or west ditch	Stratigraphic order	unmber SG	Intervention

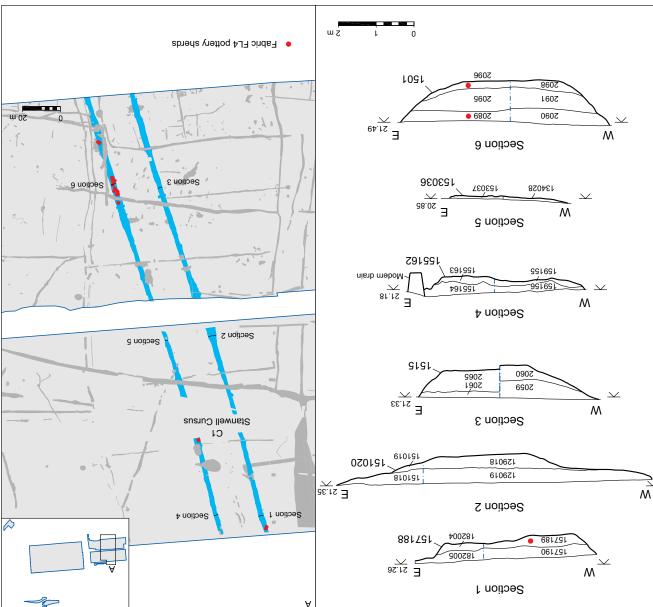
Table 2.7: Neolithic Ceramic assemblage from the C1 Stanwell Cursus



Before turning to ceramics and relative chronology, it is worth remembering that the wide berm (ledge/path) prevented any bank material entering the ditches, the fill sequence of which auggests a natural process of silting with no deliberate back filling, at least within the segment excavated in WPR98 (the T5 segments to the acuth were somewhat different; see Vol. 2). The peen contrasted with the deliberate backfilling of many other contemporary monuments (Harding many other contemporary monuments (Harding vide a reliable stratigraphic succession against vide a reliable stratigraphic succession against which the ceramic assemblage can be viewed.

It is worth acknowledging, however, that the cursus ditches contain intrusive pottery from later periods (see above). Most of this later pottery was recovered from locations adjacent to features cut the cursus and so intrusion can be grog tempered early Bronze Age pottery were grog tempered early Bronze Age pottery were anall gully and could therefore be intrusive. The Meolithic ceramic assemblage, discounting these later contaminants and arranged by west or east ditch and stratigraphic order, is presented in ditch and stratigraphic order, is presented in





Total		L	38	22	72	55	22	33	98	ŀ	128
	Backed knife		L		L						L
Anife	Notched piece	L		L	2			L	L		3
	Denticulate			ŀ	L						L
Serrated/denticulate	Serrated piece		L		L						L
	Unclassifiable scraper			ŀ	L						L
	Thumbnail scraper							L	L		L
Scraper	Eud scraper			L	L						L
	Retouched blade(let)						L	ŀ	5		2
Retouched flake/blade	Retouched flake		2	L	3	2	5	L	S	L L	6
əluboN	Partially worked nodule	ŀ			L	ŀ			L		2
	Core on a flake					ŀ			L		L
	Single platform blade core					L			L		L
	Multi-platform flake core		L	L	2	2	L	L	7		9
Core/core fragment	Single platform flake core						L		L		L
lløgS	llsq2	5	9	ŀ	6	9		6	91		54
Thinning/sharpening flake	Axe/adze thinning flake		L		L						L
Blade/broken blade	Blade						5		5		2
	Flake from a polished implement					ŀ			L		L
	Unclassifiable waste			2	2		5		5		4
	Bladelike flake		2	L	4	L			L		S
	Tertiary flake	L	S۱	9	52	4	3	4	11		33
	Secondary flake	F	9	01	2٤	2	LL	13	56		43
Flake/broken flake	Primary flake		3	L	4	4	4	5	01		14
Category	Sub-category	lesea	elbbiM	doT	letot	lesea	elbbiM	doT	lstot	Other	Total
1			East ditch		East ditch		West ditch		West ditch	I	

Table 2.8: C1 Stanwell Cursus lithic assemblage

Table 2.7. It shows that the Plain Bowl Ware fabric FL4 occurs throughout the fills, with a slight concentration in one area of the eastern ditch (Fig. 2.10).

The later excavations at Heathrow Terminal 5 (T5) have produced larger sherds of plain undecorated Neolithic pottery of this date from the cursus, 874 m to the north of Perry Oaks. Conversely, the T5 excavations also produced Peterborough Ware pottery from the higher fills of the C1 Cursus, 860 m further south along the

course of the monument. Peterborough Ware sherds were also retrieved from the upper fills of the cursus during excavations by O'Connell immediately to the south of the T5 site (Cotton 1990, 28–9).

As outlined earlier, if we rely on ceramics to provide a relative chronology, this would mean that the cursus was constructed sometime between 3650 and 3350 BC. The presence of abraded Peterborough Ware in the upper fills would suggest that these were accumulating, or

sometime between 3400 and 2500 BC. The lithic evidence broadly agrees with this, but is less precise than the ceramic evidence. Analysis of the flint from the C1 Cursus is summarised in Table 2.8 and as follows:

perhaps parts of the cursus were re-worked,

A total of 158 struck flints and 883 pieces (4352 g) of burnt unworked flint were recovered from various interventions along the length of the two ditches that compose the C1 Stanwell Cursus. The material is in fresh condition and is mostly uncorticated. The

The function of the C1 Stanwell Cursus

In the recent publication arising from a session of The Neolithic Studies Group that specifically set out to explore the cursus phenomenon (Barclay and Harding 1999), a number of interpretations concerning cursus monuments were offered. Negotiating a line between the various theoretical positions, outlined in the introductory chapter of this volume, the position taken here concerning the cursus monuments at Heathrow can be summed up as follows:

- They were arenas for the production of explicit knowledge.
- They were constructed in the early Neolithic but their existence was acknowledged into the later Neolithic and their use in some form continued.
- They reinterpreted a Mesolithic geography, thereby reinterpreting subtleties of the local topography and hydrology.
- They represented an axial and connective focus within the wider monumental landscape.
- They had long histories of development.
- The construction of the monuments was probably at least as important as their continued use.
- They were associated with the rivers and may have metaphorically embodied or acknowledged them.

up-profile (Bates, Figures 4 and 6). Infilling of the central section of the eastern ditch (155165) suggests differing patterns of infilling dominated here.

The peaks of values for both magnetic susceptibility and organic content within the eastern ditch (Bates Figures 7 and 8) suggest variation in the nature of patterns of sedimentation and the possibility that a phase of stability exists within the middle part of the profile (thus implying a period of ditch fill stability and cessation of infilling – this may be reflected in the age distribution of finds from the uppermost fills being considerably later than the assumed age for the early fills).

The construction of the C1 Cursus between 3600 and 3300 BC took place at the same time as the construction of other ceremonial monuments in West London area the C1 (and, as we will suggest, the C2) Cursus was contemporary with the Thameside causewayed enclosure complexes such as Yeoveney Lodge, Staines (Robertson-Mckay 1987), Eton Wick (Ford 1986) and Dorney (Needham and Trott 1987).

What drove people to build these monuments at this time? If we accept that the architecture of the cursus monument reflects its various uses, then a detailed study of its original form, how it was built and how many people might have built it may allow us to partially understand some of the historical processes that led to the monumentalisation of the landscape.

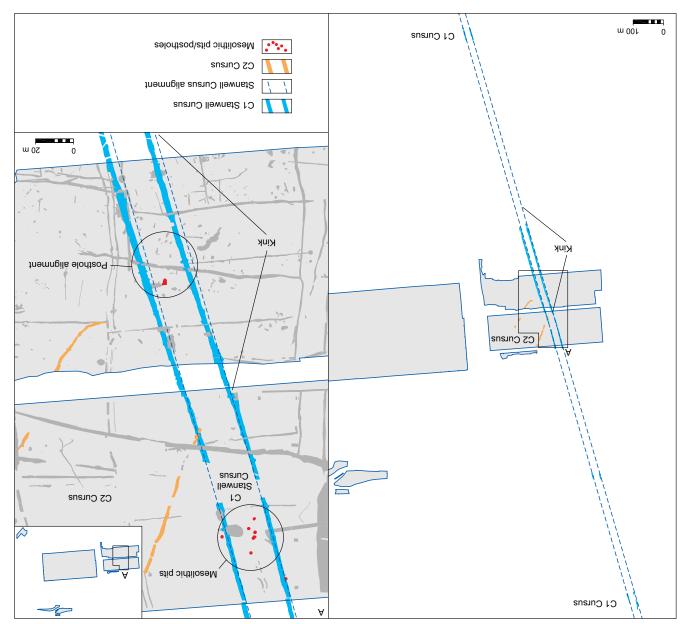
> flintwork probably dates mainly to the later Weolithic or Bronze Age, although a small residual component was also isolated. This element probably dates to the Mesolithic or early Weolithic period, and includes a burin, an axe-thinning flake and a number of blades/bladelike flakes.

In terms of their vertical distribution, the majority of struck flints occurred in the upper ditch deposits. The basal fills contained just over 20% of the material, compared to 42% and 38% in the middle and upper fills respectively. The distribution is consistent with the assertion that the uppermost fills of the ditch were laid down in the later Weolithic and early Bronze Age. An analysis of the condition of the flintwork, however, showed no distributional patterning. Pieces in poor condition were scattered throughout the deposits and, as such, do not contribute to the discussion of the chronological development of the discussion of the chronological development of the discussion of the

(Cramp, CD Section 3)

With regards the sedimentary processes that led to the filling of the CI Stanwell Cursus ditches, Bates (CD Section 14) makes the following observations:

- The magnetic susceptibility determinations from the western ditch fills..... perhaps indicates gradual, slow and continual accumulation of sediment.
- Infilling of the eastern ditch suggests that progressive infilling of the feature resulted from a winnowing out of the finer elements of the bedrock, and their subsequent deposition as ditch fills, and a decrease in gravel content



 In conjunction with the other monuments of the terrace, they may have been used as foci of mediation with the ancestors and a parallel metaphysical world.

- They may have embodied a cultural core that expressed group identity but was not overtly concerned with demarcating territory.
- They united communities, landscapes and histories.
- They were socially and politically significant locations, serving as arenas of social contestation within which social equilibrium could be negotiated and groups or individuals could acquire increased power and status.
- They were not obviously exclusive in the same sense as the monuments of Wessex. They had an open form, accessible as theatres for the performances of the living or conduits of the dead.

The linking of locations by the CI Stanwell Cursus

In plan the Stanwell Cursus is remarkably straight, although some minor deviation has been noticed (O'Connell 1990, 9). We propose that the cursus was constructed along a preexisting pathway of great antiquity to physically link and tie together numerous important places along the route such as the timber post alignment and the remnants of the 7th millennium midden and the remnants of the 7th millennium midden and pits (see above). The Dorset Cursus

Figure 2.11: The C1 Stanwell Cursus linking earlier locations of importance

decades at most. The T5 excavations have revealed a complex history of back- filling and re-cutting over parts of the cursus, and these re-workings may have spanned centuries (see Vol. 2). However, they are re-workings within the template of the original layout, not extensions or additions.

look like? What did the C1 Stanwell Cursus originally

By the time the Stanwell Cursus was excavated at Perry Oaks in 1999, nothing survived of the remnant central bank. In order to understand the constructional history of the cursus and its architectural development, we must therefore rely on the stratigraphic sequences contained in the western and eastern flanking ditches to reconstruct the central bank.

The depth of the ditches was not consistent, but varied by 0.25–0.30 m. The western ditch, furthermore, tended to be deeper than the eastern ditch amounts of spoil generated from ditches of fairly uniform width but differing depth would have led to corresponding variations in the width and or height of the central bank. The long section in Fig. 2.12 shows longitudinal sections through both cursus ditches, from north to south. The vertical scale thas been exaggerated by a factor of 10 to make the differences in depth of the ditches clearer.

Between 0.40 m and 0.66 m has been lost between the 1943 ground surface and the uppermost fills of the cursus ditches as excavated. So at any given length along the cursus, the ditches were

> different teams, but within an overall rigid plan. was excavated in relatively short lengths by team. We suggest, therefore, that the C1 Cursus ed separately, perhaps by a different construction gesting that this section may have been constructshallower than those to the north and south, sugkinked section, c 150 m long, are also slightly the terminus of the C2 Cursus. The ditches in the was subsequently further enhanced by becoming area between these two places. This location but almost as importantly, to accommodate the Fig 2.11) to accommodate these two locations, almost imperceptible deviation (the 'kink' in excavations, the Stanwell Cursus makes an (Barrett et al. 1991, 58). Within the Perry Oaks the separate long barrows along its course performed a similar function by linking together

> remained an active project, would have spanned whole length of the cursus was set out and construction period, the length of time that the of such uniformity would suggest that the initial accommodated almost imperceptibly. Achievement deviations, such as the kink described above, were 47). With the Stanwell Cursus, even necessary porarily disappeared from view (Barrett et al. 1991, tion team was aiming at (eg a long barrow) temmain course once the sighting point the construccontained clear examples of deviation from the construction teams to follow. The Dorset Cursus marked on the ground with string or rope for the even have been that the course of each ditch was aligned to incorporate special locations. It may was at least locally cleared, and was very carefully suggests that it was laid out in a landscape that The uniformity of the cursus over at least 3.6 km

The regularity in spacing of the Stanwell Cursus ditches and the straightness of their alignment over 3.6 km has been remarked upon many times. The ability to produce such a chart relating to

ditch for any given depth from the 1943 ground

chart could be plotted and an equation calculated

generally very uniform, so uniform in fact that a

to produce the cross sectional area of a cursus

apparent that the profiles of the ditches were

out their cross-sectional area. It soon became

O'Connell 1990, figs 7, 16 & 17), and working

both from the WPR98 and O'Connell excavations

comparing cross sections along the monument,

of the ditches was calculated. This was done by

of spoil excavated from various lengths of each

the cursus as originally constructed, the volume

m deep from the 1980s ground surface, which

08.1 s of qu as additional the cursus ditches as up to c 1.80

Further south, O'Connell (1990) recorded several

south of the Perry Oaks excavations (see Vol. 2).

cursus ditches become deeper to the north and

this range than the eastern ditch. Excavations at

m deep, but was more variable in depth within

the length varying between 0.70 m and 0.82 m.

between 0.65 m and 0.95 m, with the majority of

ground surface, the eastern ditch varied in depth

1999. When the depth is measured from the 1943

on average 0.40 m to 0.00 m deeper when dug in the transfer in BC than when excavated in

The western ditch varied between 1.3 m and 0.62

Terminal 5 have subsequently shown that the

had not changed greatly since 1943.

In order to attempt to recreate the architecture of

surface (Fig. 2.12).

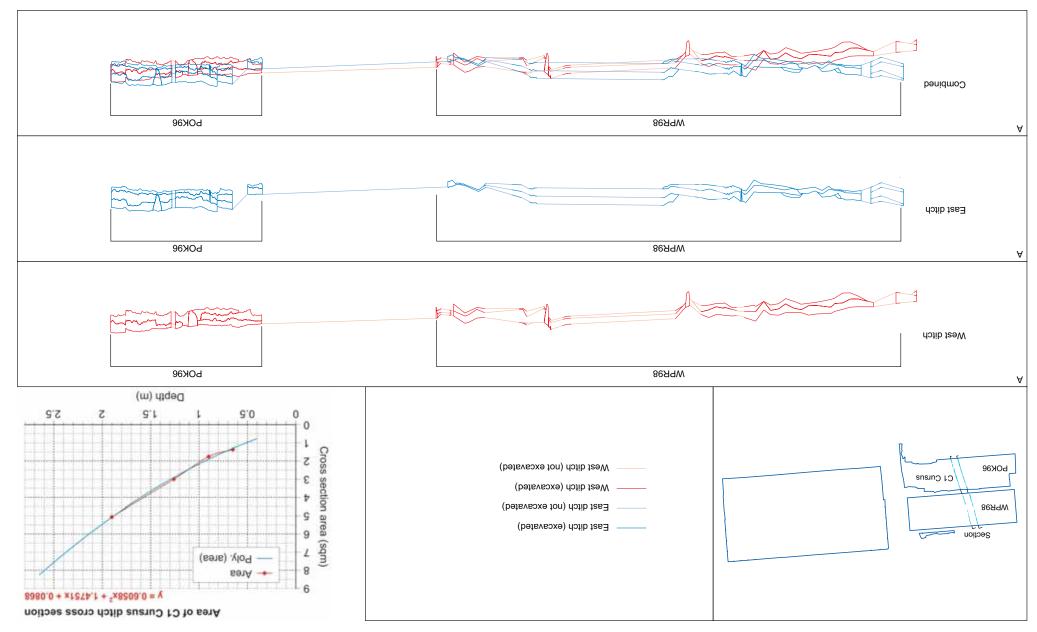


Figure 2.12: Longitudinal sections through both cursus ditches, from north to south, and area of C1 Stanwell Cursus ditch cross section

Anad fo tigieH sdtbiw suoirsv to			əmuloV (m ɔiduɔ)			Average morî surfac		
אפסווֹלאוֹכ possibly ק m	hiddle Bronze Age 13 m	Total volume after expansion f.f 1.1	tss∃ dotich	tesW dotib	tss∃ dotich	tesW dotib	Sections of cursus from N-S (m)	
٦.23	0.23	503.59	69 [.] 92	108.39	97.0	ŀ	90	North
75.1	0.28	84.88	80.7£	43.35	88.0	ŀ	50	
L	0.14	07.40	76.44	14.14	8.0	9Z.0	22	ЯniХ
71.1	0.20	126.63	81.88	76.20	8.0	6.0	40	
90.1	91.0	131.16	25.22	64.02	97.0	6.85	36	
11.1	81.0	17.571	11.97	08.18	8.0	6.85	46	
۶.۲	0.29	107.52	46.72	52.02	6.0	ŀ	54	ytuos
011		00 230	20 000	07 237	FO 0	10.0	CVC	sletol
61.I	r2.0	06.630	10.004	07 [.] 794	r8.0	۶0.0	543	or average depth of itch/height of bank)

Table 2.9: Volume of spoil excavated from Stanwell Cursus at Perry Oaks (WPR98)

- Without turf or any other revetment the angle of the slope of the bank would have been unlikely to exceed c 40 degrees.
- If our assumption that that one of the functions of the bank was to provide an elevated ceremonial processional route, then we can assume that the top of the bank was flattened, and for ease of use would have been up to 2 m wide.
- The base of the bank would have been comparatively narrow, leaving a large berm (ledge/path) between bank and ditch. This is clear from the distinct lack of evidence from the CI Cursus ditch sections for an adjacent bank.

depth and cross-sectional area suggests that the ditches were also dug to a well defined template.

Table 2.9 shows the volume of spoil excavated from various lengths of the Stanwell Cursus ditches at WPR98, arranged from north to south. The geology at Perry Oaks is fine grained 'brickearth' and gravel, and the expansion factor for spoil volume would therefore be similar to that dimensions or shape of the cross section of the bank when it was constructed. A turf revetment, for example, could have radically altered the stappe and height of the bank. However, in this attempt to reconstruct the central bank, we have attempt to reconstruct the central bank, we have adopted the following assumptions:



in vertical height would stand out.

If we apply these assumptions to the first 50 m length of the cursus, they produce a bank 5 m wide at the base, c 1.2 m high and 2 m wide at the top. Table 2.9 shows that these dimensions, particularly height, would have varied along the length of the cursus depending on the depth of the flanking ditches. For instance, the bank along the 'kink' section of the cursus could have been adjacent to the north and south. This may seem, and indeed may have been insignificant, but in a relatively flat landscape, small variations a relatively flat landscape, small variations

Plate 2.4: Reconstructed cursus looking south

At the end of the Perry Oaks excavations, a short length of the CI Cursus was reconstructed using a mechanical excavator (Plates 2.4–6). The resultant bank was not quite as wide at the base and top as our calculations, but it does give some indication of the original form of the monument at this location.

Plate 2.6: Standing on reconstructed cursus bank looking east

The major landscape impact up to this point would have been forest clearance, but its extent and the involvement of human agency are still unclear. The CI Cursus was therefore without precedent, and it reflects the desires and motivation of the people who built it.

In order to explore those motivations further, we will consider firstly the way the cursus was used and experienced by people who would have processed along its course, and secondly how the cursus affected people outside the monument, both in terms of what they could see of ceremonies and the general impact of the monument on the landscape.

It is impossible, due to profound changes to the landscape, to attempt to construct the sort of perceptual narrative for the Stanwell Cursus that Tilley (1994, 173–200) produced for the Dorset

> one digger with antler picks and one shoveller using scapulae and baskets, who would also carry the spoil to the central bank. If all the trees and vegetation were cleared from the course of the cursus and the course had already been set out, then two teams of two people working 10 hour days, six days a week, could complete the four days, six days a week, could complete the to 18 weeks.

> that it would have taken a few years at most. the regularity of the scheme would suggest domestic activities, but as we have suggested, more than one year to accommodate other It is probable that the labour was spread over few people, within a relatively short time scale. cursus could have been constructed by relatively idea of the effort required. It is apparent that the have been higher, but this calculation gives some some sections of the cursus and the bank would already noted how the ditches were deeper in hours) in 16-18 weeks. Of course, we have ditch (a total workforce of 96 using c 97,000 man km could be built by 24 teams of two people per 3.6 alonw and nadi estimates and model and a segments. If we suppose that the C1 Cursus was built in

What was the architectural impact of the C1 Stanwell Cursus?

The resulting monument would have been a long, low mound or 'causeway', bisecting and radically altering the landscape. Its impact cannot be understated. Until this moment, the only human architectural modifications or construction within the landscape consisted of pits and postholes.

Uow much effort was required to build the C1 Stanwell Cursus?

We have made a case above for the cursus to have been constructed as relatively short, connected lengths, possibly each having been excavated by a different team. If we take the length of the cursus we have described as the 'kink', then we can estimate how this was constructed and by how many people and how long it took.

The method used by Startin (1982; 1998) for the Abingdon causewayed enclosure and Cleaven Dyke cursus has been followed. Startin assumed a rate of excavation of 0.35 cubic m per person per hour. From personal experience of excavating the compacted gravel and brickearth deposits of the Perry Oaks area, a more likely rate would be c 0.25 cubic m per person per hour. We can assume that for each ditch, the team consisted of



looking east Plate 2.5: Reconstructed cursus central bank

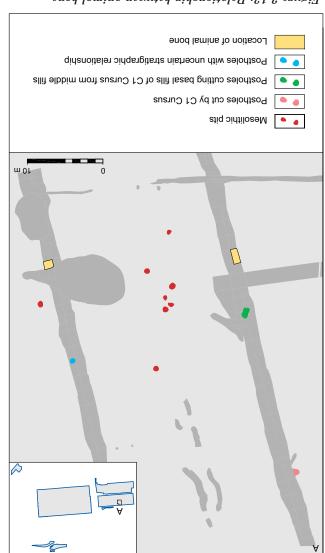


Figure 2.13: Relationship between animal bone, Mesolithic pits and postholes in C1 Stanwell Cursus

Mesolithic subsistence economy. As we have ty did not at first cause a radical shift in the late and domestic animals from 4000 BC in this coungenerally agreed that the adoption of agriculture concerns in the 7th millennium BC. It is now as a meeting place and context for settling these betze aven yem evode bedrzeb nebbim eldizzog it is possible that the burnt flint pit cluster and as they moved through the landscape. Indeed account mobile and seasonal resources of animals in many different ways, and had to take into Mesolithic this concern may have been settled the resources of the landscape. Throughout the processions was the concern with access to important subtexts of the ceremonies and answer this, but it is our view that one of the why were they revisited? We of course cannot What was the importance of these locations and the participants and onlookers. display and the words exchanged between of the ceremony would have been the ritual, the deposition of artefacts, but the important element ceremony that may or may not have included the

visited may have been consecrated with a

by human memory and agreement. Each place

place along the floodplain margins did so along a path that was only formalised and maintained

of the C1 Cursus, people moving from place to

Cursus. Nonetheless, prior to the construction

together by ceremonial processions. the places and ceremonies began to be linked the west. It is perhaps not surprising then that the floodplain and the dryer, higher terrace to the boundary between the water resources of zone was of crucial importance, since it marked Heathrow Terrace to the east show that this the boundary of the Colne floodplain and the the string of locations which grew up along example, the timber post alignment. If so, then others were embellished architecturally, for increased in importance, new ones emerged and developed. Some locations were forgotten, others generations passed, the ceremonies changed and of importance to separate kin-groups. As the tate these decisions. Perhaps each location was certain locations in the landscape helped to facili-We suggest that the ceremonies undertaken at or burnt some fallen trees to create a new field? year's settlement in the old woodland clearing, certain stretch of the floodplain? Who placed this this year's crops? Who grazed their animals on a How was it decided where a group would plant conflicts regarding access to land and resources. kin-groups now had to resolve questions and world was being transformed. Individual in the form of the first monuments, meant the technologies and new expressions of old practices agriculture and pastoralism, coupled with new Neolithic unfolded, the cumulative impact of However, as the first 500 years or so of the

tion, the processions and ceremonies could have

were arranged or led. Without formal demarca-

these processions and ceremonies or how they

We do not know how many people took part in

arrowheads, it is hard to distinguish chronologi-

shown previously, with the exception of 'type

the subsistence economy.

cally the lithic assemblage for this period, and this must reflect a minor change in

begails' such as microliths and leaf-shaped

been viewed by all. The important point is that the kin-groups or communities associated with individual locations were now linked together by processional pathway and ceremony. Through into a larger, more cohesive community. Whereas before disputes and negotiations over land and necources occurred between separate kin-groups and were resolved through ceremony at distinct locations, now negotiations were contained within a wider community, whose important ceremonies and locations were linked by procession.

individual groups as invested in special locations. ment, which bound together the histories of the a common enterprise to build a communal monutogether all the groups through shared labour in The result was a monument that physically tied associated with their own ceremonial location. each group probably built a length of cursus team drawn from the individual kin-groups, and and we can see how each section was built by a built in sections, each by a small team of people, community. We have shown how the cursus was tion and celebration of the emergence of a particular as a physical manifestation, formalisa-We view the construction of the C1 Cursus in enclosures and cursus could not have been built. could not have been exploited, and causewayed tural expansion represented by the 'elm decline' the opportunities for forest clearance and agriculotal. It could be said that, without a community, The creation of a *community* at this time is piv-

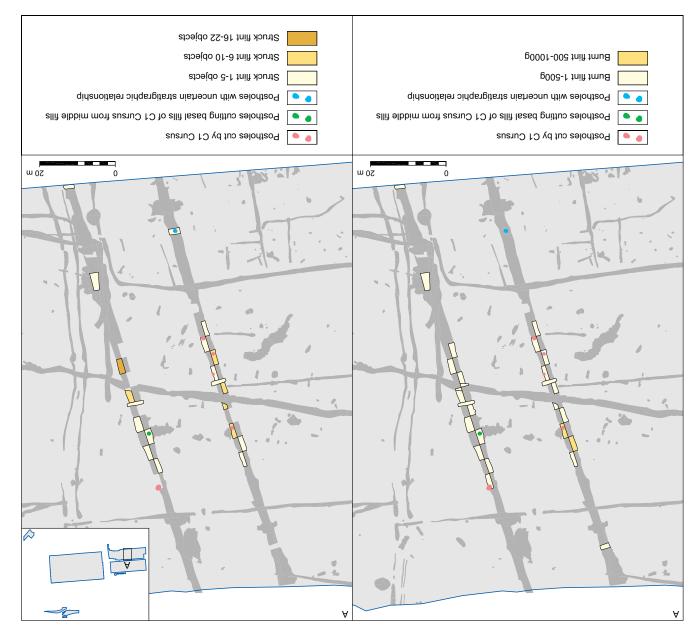
Although the architecture of the mound served to restrict the numbers of people who could process

obeu community. was the product and celebration of an essentially ditches such as the Dorset Cursus. The C1 Cursus those outside, unlike those with a pair of flanking activities that went on inside to the exclusion of architecture of the C1 Cursus did not mask the see (see Plate 2.6 and Fig. 2.25 below). Thus the display against the horizon and visible for all to The participants were now on very obvious the community remained an essentially open one. differentiated from the rest of the community, the leaders of the processions might have been an informal pathway at ground level. Although top of the bank in a way that was impossible with emphasise the processional ceremonies along the ture of the Stanwell Cursus now served to the ceremonies than in taking part. The architecprobably have been engaged more in observing along its length, most of the community would

the construction of the cursus. In the absence of of ceremonies enacted at the location following conceivable that they represent the residues be true of the skull fragments. However it is flint to be of Mesolithic date, and this may also also occur in these locations. We consider the flint pit complex (Fig. 2.13). Burnt flint clusters cursus ditches adjacent to the Mesolithic burnt fragments of cow skull in the middle fills of both demonstrate this. The first is the occurrence of with the processions. Two examples serve to have been involved in the ceremonies associated ment retained their importance, and may even special places now cut or buried by the monucommunity, and there is some evidence that the The cursus acted as a unifying device for the

radiocarbon dates this is impossible to determine. If the animal bone is contemporary with the middle fills of the cursus, then this would explain of the western ditch from this level, and another posthole in the eastern ditch, which had unclear atratigraphic relationships. Put simply, the posts ditch to serve as markers signifying the location of the pit complex and midden once the cursus of the pit complex and midden once the cursus animal bone may then be seen as the remnants of ceremonies undertaken once the procession of ceremonies undertaken once the procession

throughout the remaining depositional sequence. the C1 Cursus remained a focus of activity through the fills of the cursus, and shows that vertical distribution of these artefact types location. The graph in Figure 2.14 shows the sional group halted at the now ancient ancestral residues of ceremonies carried out as the procesa similar association. This material may be the fabric pottery sherds in the C1 Cursus shows at Figure 2.10 shows that the distribution of FL4 large amounts of struck and burnt flint. A glance middle fills. These fills also contained relatively through the basal fills of the cursus from the one or possibly more postholes were driven earlier timber post alignment (Fig. 2.14). Again, repeated further south at the location of the sealed by the middle fills of the cursus is This association of burnt flint and postholes



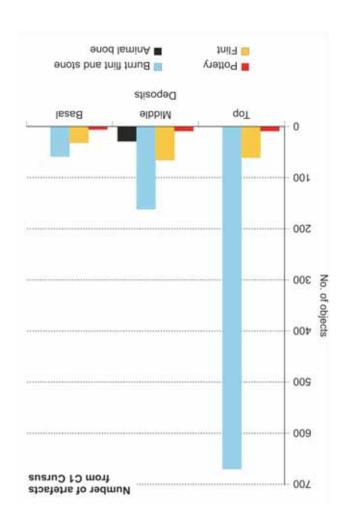


Figure 2.14: Relationship of postholes, burnt/struck flint and other artefacts with the C1 Stanwell Cursus

Yhat did the landscape look like at this time?

CD-Rom (Section 11). report can be found on the accompanying analysis of the pollen sequences and the full The following is derived from Pat Wiltshire's

and blurred. people on the local landscape is fragmentary Thus, our conception of the impact of these yielding well-resolved environmental evidence. there is a dearth of suitable waterlogged deposits means that, for the period prior to about 1600 BC, waterholes across the Heathrow Terrace. This Age, Neolithic people did not dig deep pits and Unlike their descendents in the middle Bronze

dominated the riverine environment. (wolliw) xileS bns (19bls) sunlA slinw bnslboow BC), dry ground supported mixed, deciduous 5860 uncal BP (approximately 6800 to 4800 cal Green 2004, 12) suggest that between 8000 and Meadlake Place, Egham, Surrey (Branch and from other sites in the region. Data from we need to rely again upon information gleaned from Perry Oaks during this period means that The lack of convincing environmental evidence

and meadows interrupted by tributary rivers temporarily cultivated land, grazing land, changing mosaic of closed and open woodland, Southwark is seen as consisting of, 'an ever (2004). The Lower Thames Valley around has recently been reviewed by Branch and Green seape in Surrey and the middle/lower Thames The nature of the early to middle Neolithic land-

Heathrow Terrace in a similar way. imagine the Lower Colne Valley and the and Green 2004, 13). It might be reasonable to and streams, small ponds, and lakes' (Branch

landscape picture presented by Scaife (2000, partially cleared of woodland. Certainly, the have required a terrain that had been at least Stanwell C1 Cursus and the C2 Cursus, would monuments of the early Neolithic, such as the is pertinent in this context since the major decline has been discussed previously, but it link between monument construction and the elm ed during the currency of this pottery type. The monuments of the Heathrow area were constructceramic, and demonstrate that the major we will discuss further the chronology of this Neolithic pottery. In later sections of this volume, with the period of use of Plain Bowl Ware early uncal BP (3700 cal BC). The elm decline coincides Green (2004) who date the horizon to about 5000 London area, and for Surrey by Branch and outlined by Sidell and Rackham (2000) for the 2000). However, evidence for this event has been produced no evidence for the elm decline (Scaife Unlike in Southwark, the sequence at Runnymede

Branch and Green (2004). to have been similar to that described by 184-5) for the Neolithic at Runnymede appears

Considering the nature of the palynological occasional cereal-type pollen grains were found. relatively high throughout the zone. Furthermore, of the site since microscopic charcoal levels were it. People were certainly active in the environs an aquatic and emergent community in or around but there is no evidence of the feature having had Cyperaceae (sedges) and some Sphagnum moss were wet enough to support occasional 5000 years ago. The soils around the waterhole some time after the elm decline of approximately Zone 150011/1: The deposits represent a period longer (Rackham 1986).

trees (pollarded and coppiced) can live even

Many forest trees are potentially long-lived;

might represent a single generation of trees.

It must be stressed, however, that pits can

at least 600 years (Mitchell 1974), and managed

a healthy specimen of Quercus (oak) can live for

become infilled very quickly and the sediments

happening in the landscape around the feature.

and indicate that only moderate changes were

nated 150011/1-3 respectively. Changes in the

Section 11). The three pollen zones were desig-

Figure 2.15 (full report by Wiltshire on CD-Rom

The results of the pollen analysis are shown in

residual organic matter redeposited in the pit.

the upper silts of this feature appears to be far

mort tnamibas mort (singlis 2 D8 lso 20041AZN)

too early, and was probably obtained from

BC, but a radiocarbon date of 4349-4047 BC Was cut some time after the elm decline of 3700

pollen spectra in this sequence are rather subtle

assemblage, these grains are unlikely to be those

glade (Fig. 2.15). The pollen suggests that the pit

either at the edge of woodland or in a woodland

the basal fills of the cursus adjacent to the burnt

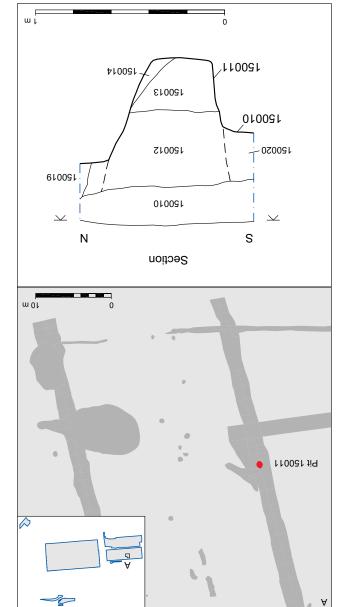
The pollen evidence from pit 150011, which cuts

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flint pits, suggests that the cursus was located

of *Glyceria* species. These aquatic grasses produce pollen grains within the size range of some cereals and their presence at riverine sites can type grains recorded here are of cereals. There is little doubt that there were many trees near the waterhole when these deposits were accumuof total land pollen and spores (TLPS) throughout the zone. This area appears to be more heavily wooded than at Runnymede. Whether this is due to natural spatial heterogeneity in tree distribution or whether it actually reflects the density of the woodland canopy is difficult to assess.

But Hedera (ivy) was abundant, especially towards the end of the zone where total arboreal pollen falls and that of Poaceae (grasses) actually rises. This suggests that the canopy was becoming open enough to support flowering ivy and, indeed, the high tree/shrub pollen values might be the result of some degree of tree clearance creating the edge effect outlined above. *Polypodium* (polypody fern), monolete *Pteropsida* (possible *Dryopteris* spp. - buckler ferns, and *Pteridium* (bracken) but all these respond *Pteridium* (bracken) but all these respond *Pteridium* (bracken) but all these respond



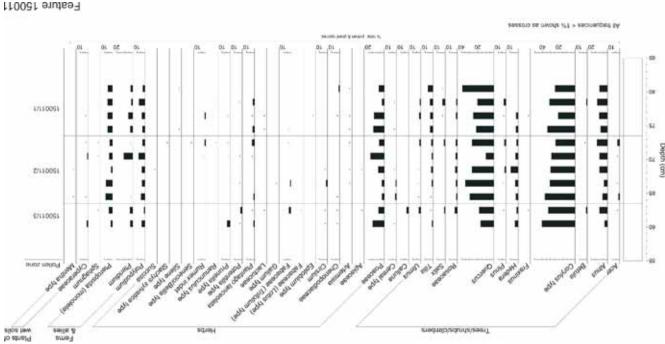


Figure 2.15: Pollen monolith sample from pit 150011

The suggestion that the feature was close to a woodland edge or in a glade is supported by the presence of Poaceae (grasses), Rosaceae (hawthorn, bramble, rose), Salix (willow) and a range of weeds and ruderals such as Artemisia (mugwort), Chenopodiaceae (goosefoot), Rumex (docks), Lactuceae (dandelion-like plants), and plantago lanceolata (ribwort plantain). There were also herbs such as Lotus type (bird's foot trefoil), *Plantago lanceolata* (ribwort plantain). There were also herbs such as Lotus type (bird's foot trefoil), *Plantago lanceolata* (ribwin type (eg greater *Prunella* type (eg self heal), *Silene* type (eg red *vullowherb*). All these could have been growing in grassy areas and places where the soil in grassy areas and places where the soil was disturbed.

Oak and hazel dominated the local woodland although Alnus (alder) was well represented and probably growing on the wetter soils near the river. Betula (birch), Pinus (pine), and Fraxinus (ash) were growing in the catchment area but were either some distance away or present in manil numbers. Tilia (lime) and Ulmus (elm) were both growing in the vicinity but their relatively low abundance suggests that they might have been already been subjected to management. Both plants produce highly nutritious foliage and they could have been exploited for cattle fodder. Lime is also the source of many other useful commodities (Bates and Wiltshire 2000) and commodities (Bates and Wiltshire 2000) and mas probably targeted by early settlers.

Zone 150011/2: This zone is characterised by small but discernible changes in the local vegetation. The relatively high levels of microscopic charcoal attest to a continued human presence. Both Tilia and Alnus declined slightly and there

This may have been the result of pollarding trees This may have been the result of pollarding trees close to the feature. The fall in Quercus was reciprocated by a rise in Poaceae and ferns, and Acer (maple) was recorded. Rosaceae were also consistently represented at fairly high level and *Hedera* increased at the end of the zone. There was very little change in the herbaceous plants other than the rise in grasses as described above. It would seem that the local oaks were being exploited and that the local oaks were being was found which shows continued (though was found which shows continued (though very small-scale) arable activity nearby.

open enough to allow Calluna (heather) to seems to have increased, and the canopy was of flowering heads. Certainly, arable agriculture drop in Poaceae might be a function of grazing some role in these changes at the site and the tempting to suggest that animal grazing played herbs were able to flower more profusely. It is available to the area so that marginal shrubs and increased. This suggests that there was more light prolifically than before, and ferns certainly Some light-demanding herbs flowered more Hedera and Rosaceae) were all well represented. the more light-demanding shrubs (Salix, Acer, also declined towards the top of the zone but while Alnus and Tilia both declined. Quercus to be a dominant member of the woodland, moved away slightly. Corylus (hazel) continued in this zone and the centre of activity might have charcoal accumulating into the feature declined Zone 150011/3: The amount of microscopic

peneath the parent trees where they are more are growing densely, but it does reach the ground to fall through to the woodland floor when trees woodlands, the canopy component does not seem (see Tauber 1965). Certainly in some mixed the woodland edge, than in the dense interior for pollen in open-canopied woodland, or at conditions. There can be higher tree/shrub values values need not reflect very densely wooded woodlands is highly complex, and high arboreal The taphonomy associated with pollen fallout in a more open landscape on the terrace. environment (perhaps on the floodplain) to at the edge of the transition from a wooded Cursus were located within a local clearing, or Whether pit 150011 and therefore the C1 Stanwell Edwards 1993). Unfortunately, we cannot be sure 'iorest farming' (Coles 1976; Göransson 1986; the woodland glades, the so-called practice of it is possible that cereals were being grown in arable agriculture being carried out locally and had moist soils. There seems to have been some

grasses and herbs, and the environs of the pit

appear to have been relatively small areas of

generation of oak, lime, and alder trees. There

wildwood. Because of the relatively short life

However, some impact was being made on the

ed by oak and hazel in the vicinity of the site.

Pit 150011 shows that the Neolithic landscape

Armany

supported mixed, deciduous woodland, dominat-

of the feature, the picture presented here may represent a brief period, certainly within a single

sonal observation). Modern pollen studies have

spaced, or the branching is relatively open (per-

63

grow in the area.

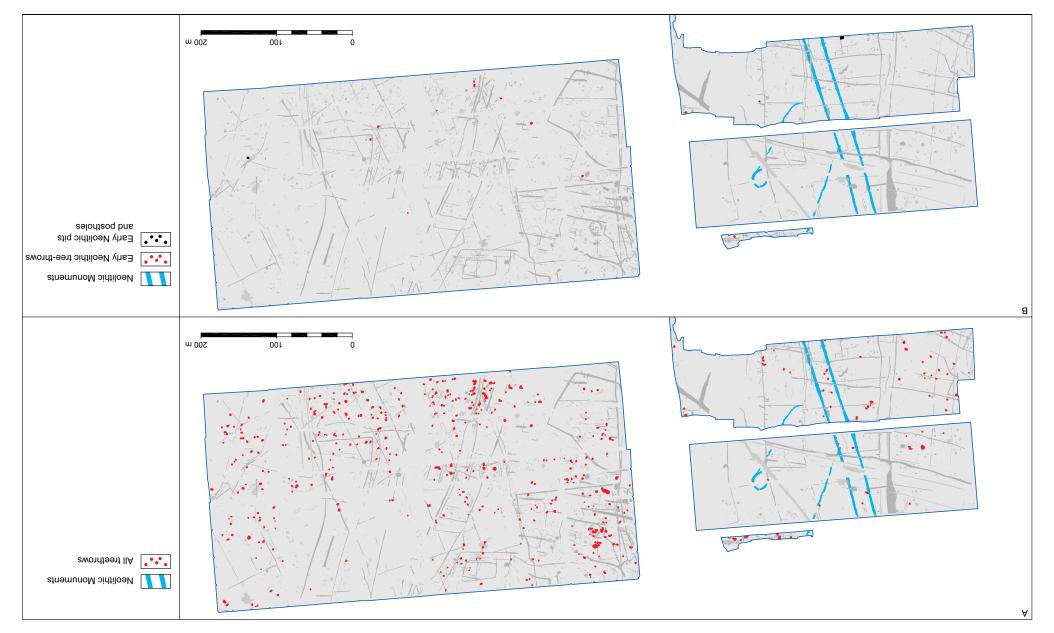


Figure 2.16: All dated early Neolithic tree-throws at Perry Oaks

landscape around pit 150011 might have been more open than the pollen diagram might suggest.

The problems associated with identifying the extent of woodland clearance from palynological data alone ensure that the local environment at Perry Oaks during construction and the life of the cursus remains unclear. The monument itself is testimony to the creation of open ground, and yet pit 150011, which cut the cursus ditch, seems to indicate densely wooded conditions. However, as outlined above, this may be because higher pollen levels are often associated with freer dispersal facilitated by an open canopy.

Settlements and clearance?

.Da muinnallim dif add gurinb humanly or naturally induced) was occurring sample is that they show that clearance (either perhaps all that can be made of such a small distributed through the centre of the site and dated tree-throws in Figure 2.16 seem to be and far from clear. What is clear is that the 11 of the lithic and ceramic material is contradictory aatable broadly to the 4th millennium BC. Some Plain Bowl Ware pottery and \ or lithic material features consists mostly of small fragments of period. The dating evidence from all these postholes are also tentatively ascribed to this torn out of the ground. A handful of pits and the bowls left by falling trees as their roots are 4th millennium BC, in the form of tree-throws, ance and activity on the Heathrow Terrace in the We have one other strand of evidence for clear-

if there is adjacent open ground (Wiltshire 2003). into deposits well within the heart of woodland amounts of herbaceous pollen can find their way Furthermore, it must be noted that considerable stock animals) could create the same effect. browsing and grazing animals (including context). In ancient woodland, dung from dung of grazing animals (horses in the modern instance the pollen has been derived from the from cereals and hay meadow. Invariably in this these can even include significant levels of pollen is often recorded in some closed woodlands, and the canopy is relatively open. Herbaceous pollen over 80% can be obtained from woodlands where sites (such as the middle of a golf courses) while arboreal pollen can be recorded on very open types and, indeed, open ground. As much as 50% profiles obtained from a variety of woodland revealed many inconsistencies in palynological

the high arboreal pollen values, the Neolithic so that flowering was suppressed. In spite of have had to have been very heavily exploited away from a feature, or the local trees would have had to have been some (unknown) distance arboreal pollen values, the woodland edge would the middle Bronze Age landscape). To get low be very open (see Chapter 3 for discussion on levels are very low indeed, the catchment must difficulties listed here, wherever arboreal pollen cannot be easily resolved. But, in spite of the frequency mean that complexities of taphonomy of the landscape and the essentially low sampling period is fraught with difficulty. The patchiness data relating to woodland cover in the Neolithic There is little doubt then, that interpretation of

Tree-throw 156191 produced the largest pottery and lithic assemblages, and Figure 2.17 shows that it lay in an area with a relatively large number of other Mesolithic and early Neolithic residual finds. The assemblages from this feature are revealing and will be discussed more fully:

Tree throw 156191 produced 541 sherds of Plain Bowl Ware fabric of total weight 1444g. In general the condition of this material is poor; sherds are small and moderately to heavily abraded. However the fabrics (in particularly the flint-tempered fabrics) tend to be extremely friable, and a high degree of fragmentation does not necessarily reflect a commensurate level of post-deposition movement. Tree-throw 156191 seems to have been deposited as a single event. 156191 is the only tree-throw, pit or other feature where an in situ deposit can be postulated, perhaps resulting from deliberate middening. Other sherd occurrences are sporadic and are more likely to be residual.

(Every and Mepham, CD Section 1)

The lithic assemblage from tree-throw 156191 consisted of 230 flints (Table 2.10), all recovered from the upper fill, sub-group 223003. Within this, the flint was recovered almost exclusively from context 148109, although one piece, a broken tertiary flake, was retrieved from context flint were also recovered from the tree-throw, weighing a total of 514g. Again, the majority of the burnt flint derived solely from context as derived from the sconest, (in CD-Rom Section 3), are as follows: (in CD-Rom Section 3), are as follows:

The assemblage is dominated by flakes (101 pieces) and chips (86 pieces), which together provide around 80% of the struck assemblage. One of the flakes has been struck from a polished implement, probably an axe, and can be dated to the Neolithic period. Blades, bladelets and bladelike flakes are represented by a combined total of 25 pieces that provide around 20% of the debitage component. While less common than flakes, blades are nonetheless sufficiently numerous to suggest a date in the earlier Neolithic (e.g. Ford 1987). The majority of flakes have been struck using a soft percussor, such as an antler hanmer, and many display abraded platform edges and dorsal blade scars.

A total of 86 chips were recovered from the deposit, almost certainly reflecting in situ knapping activity. Along with several of the flakes, these chips seem to be the product of a single core and probably result from a discrete knapping event. Only one core (42 g), manufactured on a flake, was recovered from the feature; this suggests that the larger elements of knapping waste were removed and deposited elsewhere. Some of the flake material may refit, although brief attempts were unsuccessful.

The assemblage contains twelve retouched tools (8.3%, excluding chips), ranging from retouched flakes and scrapers to piercing tools and serrated utilised edges. These retouched and utilised pieces are combined with the knapping waste described above, suggesting that the assemblage results from a series of activities performed on several occasions.

(Cramp, CD Section 3)

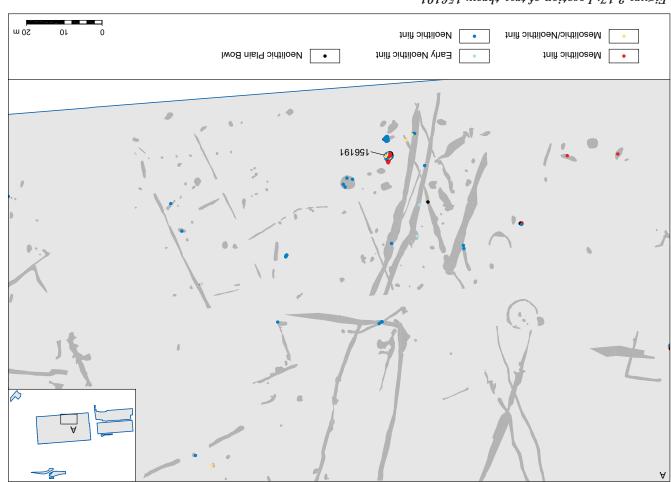


Figure 2.17: Location of tree-throw 156191

in small quantities. One of the serrated flakes, for example, has been manufactured on a bladelike blank of bullhead flint. Local nodules, on the other hand, seem to have been preferred for burning. The flintwork is in fresh, uncorticated condition and can be dated to the early Weolithic on technological and typological grounds. While the majority of the struck flints represent the use of locally available river gravel, builhead flint and chalk flint are also present

could have been extensive. clearing and settlement is unknown, but both and C2 Cursus monuments. The size of both contemporary with the construction of the C1 The settlement would therefore be roughly 3600 and 3300 BC and located within a clearing. domestic settlement dating sometime between At this location at least, we can picture a

Summery of C1 Stanwell Cursus

to lead to the construction of the C1 Cursus. With this, the community was born, and it was locations and histories by ceremonial procession. and this led to the linking of their important groups had to become more closely associated the early 4th millennium BC, these individual increasing importance of agriculture throughout suggested that with the introduction and tion of access to landscape resources. We have births, passage, marriages, funerals and negotiaother groups for the necessary social interactions: locations the individual groups would have met stretched back several millennia. At these of the Colne floodplain, which in some cases associations with places dotted along the edge kin-groups. These groups had histories and tially open community composed of individual manifesting the emergence of a cohesive, essen-3300 BC, was an act of celebration by physically C1 Stanwell Cursus, sometime between 3600 and We have suggested how the construction of the

for ceremonies as groups processed on top of important locations remained significant foci We have also shown that the previously

have called C2. The C2 differed in architectural the construction of a second cursus, which we monument, and the community now turned to been transformed by the construction of this and social trajectory of the community had the Stanwell Cursus bank. The landscape

Table 2.10: Lithic assemblage from tree-throw 156191

us of the evolution of the community that built it. Ilat the more than the second se In the next section we will explore the form and closely resembled traditional cursus monuments. form to the Stanwell monument, and more

S14 (g) burnt unworked flints	514 514
No. of burnt unworked flints 137	132
No. of broken struck flints 64	79
No. of burnt struck flints 14	14
Total 230	530
Spurred piece	١
Piercer Awl/piercer 1	L
Serrated/denticulate Serrated piece 2	5
Unclassified scraper 1	١
Side scraper	L
Scraper End scraper 2	5
Retouched blade(let)	١
Retouched blade/flake Retouched flake 3	3
Core/core fragment Core on a flake 1	
Chip/sieved chip 86	98
Axe/adze sharpening flake Axe/adze thinning flake 1	١
Rejuvenation flake tablet	١
Core preparation flake Core face/edge rejuvenation flake 1	L
Bladelike flake 8	8
Bladelet	9
Blade/broken blade Blade	LL
Unclassified 1	-
Flake from a polished implement	L
Tertiary flake	28
Zecouqsıy flake	
Flake/broken flake 70 Primary flake 70	
Category Sub-category Total	Total

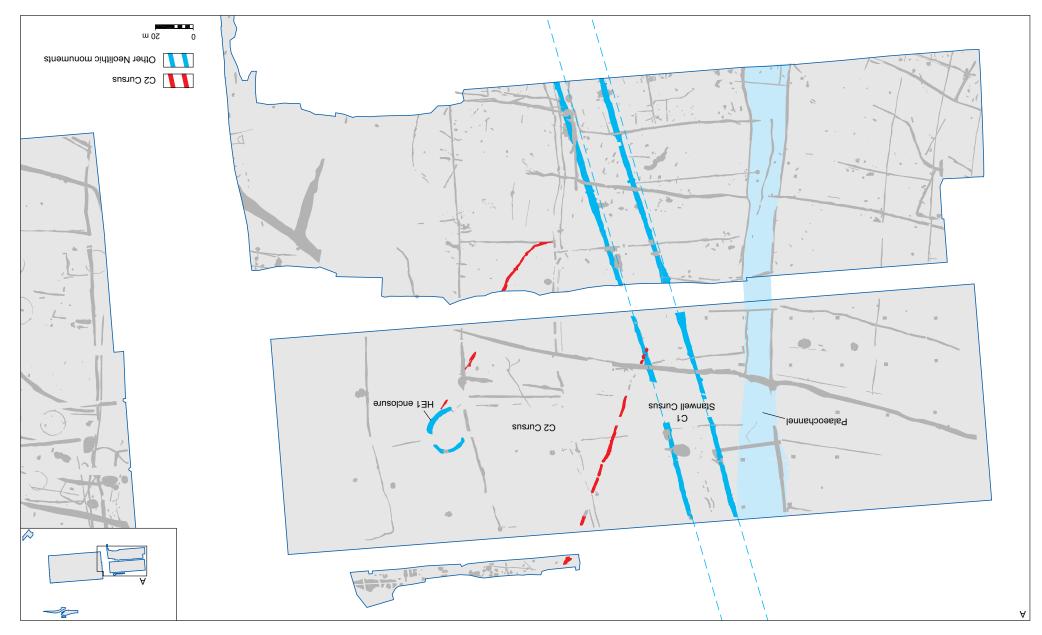


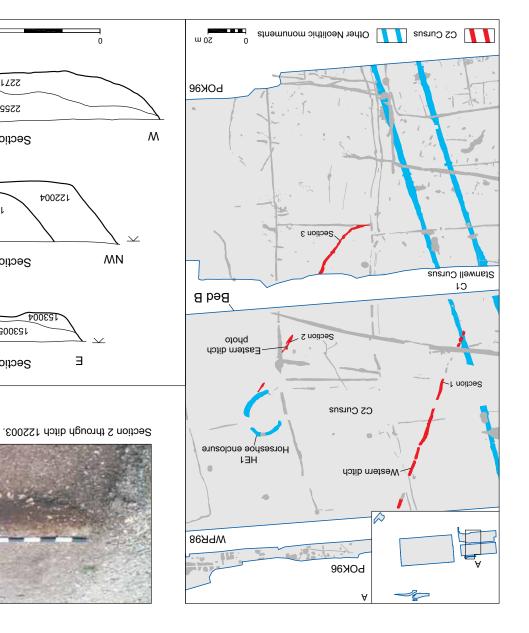
Figure 2.18: The extent of the C2 Stanwell Cursus and its relationship with other Neolithic monuments

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monuments is shown in Figure 2.18. C2 Cursus and its relationship with other Neolithic sification as a cursus monument. The extent of the analysis of the C2 Entity itself, has led to its reclassystem of the 2nd millennium BC, together with at land enclosure. Subsequent analysis of the field Age, possibly representing the earliest attempts ered during excavation to date to the early Bronze ditches that represent the C2 Cursus were consid-The two parallel, widely spaced discontinuous

Original architecture of the C2 Cursus

.dgid m 0.1 ot m č7.0 z bna sbiw m č bna m d.2 z the flanking banks could have been between as we used for the C1 monument (see above), the same sort of calculations to the C2 Cursus were relatively wide, stable and low. If we apply into the ditches suggests that the associated banks asymmetric silting or sudden collapse of material nal ground surface. The lack of clear evidence for rigiro ant morì m 8.0 bas m 4.0 naewted bevomer 0.15–0.30 m deep. Truncation since 1943 has typically 1.4 m wide and relatively shallow at of the flanking ditches. The parallel ditches are and probably had a bank running parallel to each available it is unlikely to have had a central bank the above ground architecture of the C2 Cursus is et al. 1991). Although no conclusive evidence for Dorset Cursus ditches being c 90 m apart (Barrett than the C1 monument, with for example the other more traditional cursus monuments rather is 80 m to c 90 m. These dimensions are similar to The distance between the ditches of the C2 Cursus



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152008

123003

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Section 3

Section 2

123002

5ection 1

123004

122005

Figure 2.19: The C2 Stanwell Cursus

The southern terminal of the C2 Cursus is formed by the Stanwell C1 Cursus bank and ditches. The northernmost C2 ditch cuts the eastern Stanwell Cursus ditch and probably terminated just short of the C1 central bank. (see Fig. 2.19). The southern C2 ditch makes a distinct curve and terminates some 26 m from the eastern C1 Cursus ditch, and this gap would have formed a wide entrance into the C1 Cursus from the south-east, between the C1 and C2 Cursus ditches.

From this southern terminus, the C2 monument had been traced as cropmarks and was revealed during the Terminal 5 (T5) excavations running at least 430 m further north-east, before a lagoon works completely destroyed the land surface. The C2 Cursus was not identified in excavations north of the lagoon, and it is possible that a during the T5 excavations in Area 61 (N-S central Perry Oaks Road) formed the northern terminus. This enclosure will be mentioned later, but its analysis and full consideration will appear in Volume 2 of this series.

For the purposes of this volume, the southern part of the C2 Cursus will be considered, in particular its relationship with the Stanwell C1 Cursus and the small 'horseshoe' enclosure, HE1.

In absolute chronological terms, the C2 Cursus remains undated. The only finds recovered were a handful of undiagnostic flint flakes and a small core fragment, together with c 60g of burnt flint. No material suitable for radiocarbon dating

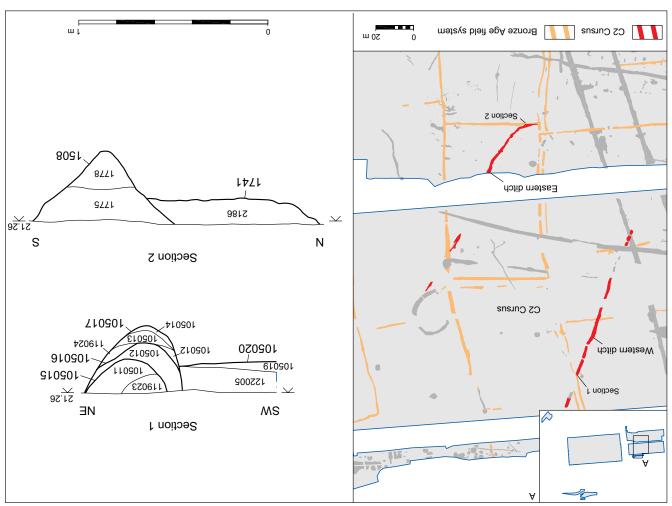


Figure 2.20: Stratigraphic relationship of the C2 Stanwell Cursus and Bronze Age field system

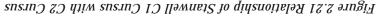
if internal banks were also absent at these points. The C2 Cursus does not follow the same rigid template as the C1 Stanwell Cursus, and appears more 'informal' in its layout. The ditches were constructed as a series of intercutting, elongated discontinuous segments, leaving several causeways. These causeways would have afforded access/egress to the monument and potentially clear lines of sight

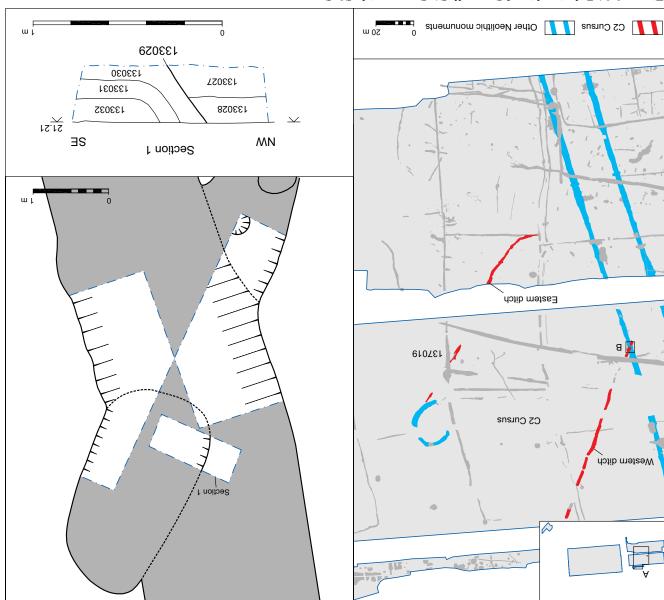
survived and no ceramic material of any description was recovered from the numerous interventions excavated through this entity. However, during the later T5 excavations, eight sherds (12g) of early Neolithic Plain Bowl Ware were recovered from the basal and middle fills of the southern C2 cursus ditch in a narrow previously unexcavated arrip between POK96 and WPR98. These sherds arre not presented in the dataset distributed with this volume, but will appear in more detail in Volume 2 following further analysis. Nonetheless, although the few small sherds were abraded and may be residual, they do at least suggest that the silting of the C2 and C1 Cursus ditches were broadly contemporary events.

Stratigraphic relationships of the C2 Cursus

In several places, the C2 Cursus was cut by the ditches of the early-middle 2nd millennium BC field system, convincingly demonstrating that the monument predated this period (Fig. 2.20).

The stratigraphic relationship between the CI and C2 Cursus monuments is ambiguous, but there is some limited evidence to further refine of the intersection of the eastern C1 and northern C2 ditches was cleaned and examined repeatedly in order to determine a stratigraphic relationship. That relationship is, nonetheless, far from certain. The conclusion of the excavator was that the C2 ditch cut the fills of the C1 Cursus and the section drawing (Fig. 2.21) does indicates the lower fills of the C1 ditch were cut, but uncertainty tion drawing (Fig. 2.21) does indicates the lower tion sime conclusion of the excavator was that the C2 ditch cut the fills of the C1 Cursus and the section drawing (Fig. 2.21) does indicates the lower tion sime cut but uncertainty tion sime conclusion were cut, but uncertainty tion sime since the illustrated C2 cut was projected remains since the illustrated C2 cut was projected





both ditches continued to silt-up simultaneously. lower fills of the C1 Cursus, after which time the C2 Cursus ditch was excavated through the Bronze Age. If so, then it is more likely that ditches were completely silted by the early argued elsewhere, it is likely that the CI Cursus by a dotted line into the upper fills. As has been

transformation of the landscape (see Chapter 3). vated during the 2nd millennium agricultural modification of the monument, or if it was excawhether this was a roughly contemporary no dating evidence from the recut, so it is unclear re-cut as feature 137019 (Fig. 2.21). There was enclosure the southern C2 ditch, 11001, had been with the C2 Cursus. In one area south of the enclosure had no direct stratigraphic relationship in any significant quantity. The HEI horseshoe be distinguished, but neither fill produced finds brown. In places an upper and lower fill could to those of the C1-predominantly dark greyish The ditch silts of the C2 Cursus were very similar

in Area 61 of the T5 excavations (see Vol. 2). location of the rectangular enclosure excavated enclosure and probably terminated at the to include the location of the HE1 horseshoe Cursus ditch. The C2 monument then extended just north of the postholes cut by the western C1 C1 Cursus south of the Mesolithic pit cluster and the importance of-the section of the Stanwell of the C2 Cursus coincided with-and reaffirmed landscape. For instance, the southern terminus significant pathways through the monumental between the C1 and C2 Cursus, both defined Despite the radical architectural difference

particular, the HE1 horseshoe enclosure. and monuments that it incorporated, and in community, then we must look at the locations the part the C2 Cursus played in the lives of the emerged community, but if we are to understand Viwan and for noise station of the newly We have described how the C1 Stanwell Cursus

ing on one's perspective, linked places to it. with its immediate landscape setting, or dependand demonstrate how they integrated the cursus ments on the terrace, examine their development We will now explore in detail the other monu-

I orisoloni finclosure I

significantly, two similar cropmarks lie adjacent was initially recognised as a cropmark, and weight to this assertion (Fig. 2.22). This enclosure of the HE1 horseshoe enclosure lends further by the presence of the Mesolithic pits. The siting its long and acknowledged history demonstrated nature of this location—the local topography and knowledge. We have discussed above the focal and concentrating people, information and then this area was an interchange, controlling mal and traditional paths through the landscape, cursus monuments are accepted as denoting forby the construction of postholes and pits. If the ed in an area that had been repeatedly modified how the C1 and C2 Cursus monuments intersectin the monumental scheme at large. We have seen to have been a place of strategic importance with-The western area of the Perry Oaks site appears

17 m and the monumental ditches enclosed an this sub-circular monument was approximately

south-west (Fig. 2.22). The internal diameter of

causeways between them to the north-east and

arranged as opposing horns, with unexcavated

comprised two continuous but segmental ditches

HEI was just in excess of 20 m in diameter and Form and architecture of the HEI enclosure segregation from the world of the everyday. circumscription of the area it enclosed and It was, therefore, primarily concerned with the and only fully revealed through close encounter. rather it would have been inferred from afar intended to make an impressive visual statement, Тһе НЕ 1 епсіозиге тау печег ћаче been comparable monuments of Wessex, for example. visually impressive in the same way as the the monuments, they would not have been unless wooden structures were used to augment through scrub or woodland. Generally however, the eye were drawn to them by cleared 'rides' been visible at quite a distance, especially if upstanding architectural features would have construction. In such a flat landscape any must have led to this choice of location for its ic elevation together with cultural determinations under 0.5 m higher than it. This slight topographup-slope from the Stanwell Cursus and just the HEI was located on a slight gravel ridge, Cursus. The 1943 contour survey indicated that The HE1 enclosure was located within the C2

north-west of Perry Oaks. the opposite side of the watercourse, just to the to the C1 Cursus, upon a promontory of land on

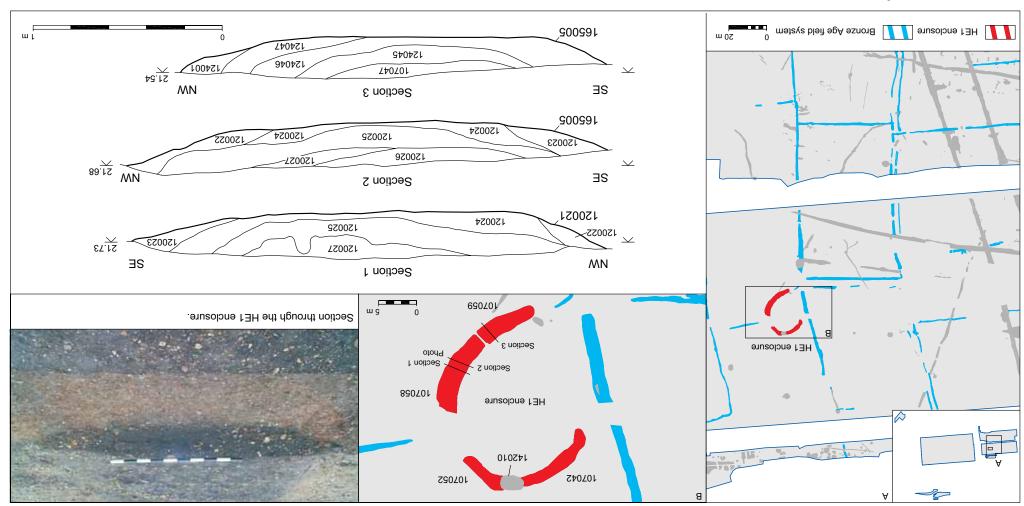


Figure 2.22: HEI Enclosure

wide. The north-east causeway was directed towards the segmented ring ditch (Site A) excavated in 1969 (Canham 1978, 6) that is possibly of a similar date.

to the northern ditch. Both ditches had a shallow 'U' profile. The south-west causeway or entrance faced the C1 Cursus and was 16 m wide; the north-east causeway was much narrower at 6 m area of 225 m². The northern ditch (107042 and 107052) was on average 1.3 m wide and 0.2 to 0.3 m deep. The southern ditch (107058 and 107059) was wider at 2.3 to 2.4 m but of a similar depth

interpretation of its construction (see Chapter 3).
a means of channel movement supports this
as mətaya bləif əgA əznord ətt otni tnəmunom
an internal mound. The incorporation of this
mental ditches suggest internal banks rather than
the splayed and open arrangement of the monu-
or mound of some type existed (see Fig. 2.23), and
southern ditches suggests that an internal bank
The evidence of asymmetric silting of the
may have enhanced upstanding earthen features.
footprint survives and superstructures in wood
cannot be confidently reconstructed, as only the
The exact architecture of the HE1 monument

pre-monumental ground surface, and if this is likely that c 0.8 m has been lost from the original local ground surface artificially higher. It is more remnant bank material would have made the This may, however, be an overestimate, since the construction of the sludge works in the 1930s. of deposits and topsoil have been lost since the m I viatant approximately 1 m monument. However, the Truncation Model appear to have been a particularly imposing During excavation the HE1 enclosure did not

	0:00	7:00
imated original volume after expansion factor 1.1 (cu m)	38.5	55.2
imated original cross-sectional area (sq m)	8.f	5.6
2 (m) dtbiw Isnigino batemi	5.2	3.2
t (m) noitsvazation (m)	1.4	2.4
t (m) dtgab lanigina batami	l.1	۱.۱
0 (m) noitsvazion (m)	0.3	0.3
t (m) tot ditch	£.91	61
	SG 107042 & 107052 Northern ditch	Southern ditch Southern ditch

lines out of the monument.

Table 2.11: Estimated original dimensions and volumes of HEI ditches

some estimates for the dimensions of the ditches slight natural rise. Tables 2.11 and 2.12 provide Volume (cu m) considering the monument was located on a (m) theight would have been significant structures, especially (m) esed te dtbiW More importantly, the resulting internal banks (ɯ) կֈɓuəŋ have been much deeper and slightly wider. accepted, then the ditches would originally

38.9

9.f

3.2

2.21

Northern bank

Betemite

6.68

۲.9

5.5

7.71

Southern bank

betemite3

Table 2.12: Estimated dimensions and volume of

SANG THH

Chronology of the HEI enclosure

this interpretation. evidence from the section drawings, confirms pottery in this intervention, together with some but the dense concentration of late Bronze Age 2.22). This was not recognised during excavation, of the northern circuit of the enclosure ditch (Fig. shallow pit, 142010, was excavated into the fills contamination by later features. For instance, a associated pottery were found to be the result of from the monument. The small fragments of cominnuted fragments of charcoal recovered was made to obtain radiocarbon dates from the of the sludge works has ensured that no attempt The extensive contamination from the activities construction of the HE1 enclosure is difficult. features in the Perry Oaks landscape, dating the muinnellim dif bas bit soft to ynsm diw sA

and still have left clear the central space and sight

could have stood within the embanked enclosure

These suggest that approximately a dozen people

outstretched arm (Fairweather and Sliwa 1970, 44).

the area occupied by a standing adult with an

landscape. In Figure 2.23, the circles represent

substantial feature in the relatively flat Heathrow clear that the HE1 monument would have been a

terpart. Whatever the original architecture, it is

was substantial. The southern bank is slightly non-existent, whilst the south-western entrance The north-eastern entrance is very narrow or even banks, based on the simulated data in the tables. Figure 2.23 shows a possible layout of the internal

and banks as originally constructed.

longer, wider and higher than its northern coun-

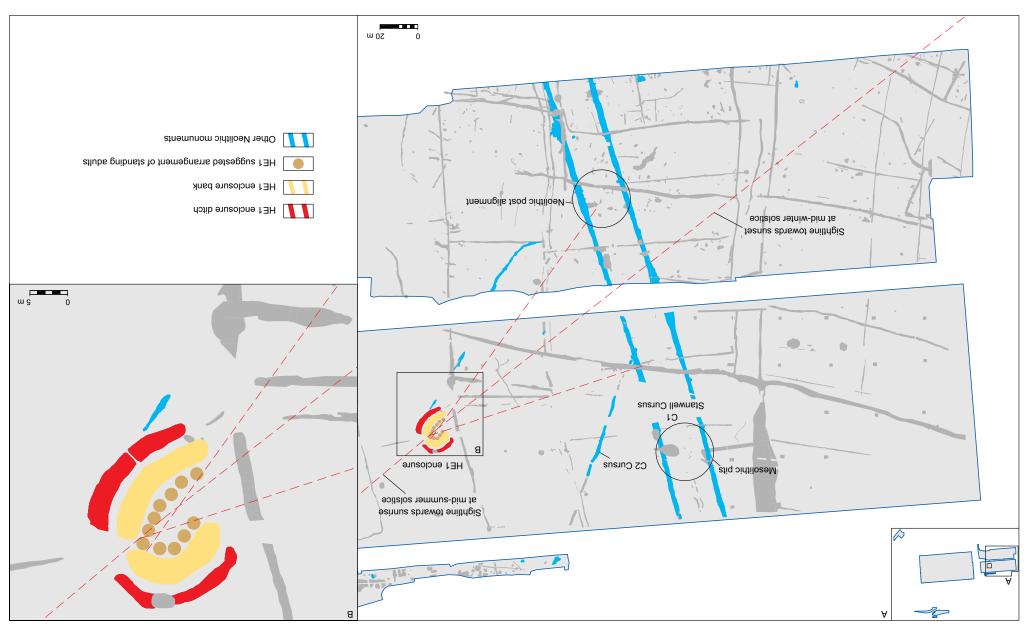


Figure 2.23: Plan of the estimated dimensions of the internal banks of HEI enclosure and suggested arrangement of the solution with site site lines

Cramp has described: (Table 2.13) is relatively undiagnostic, as The lithic assemblage from the enclosure

nuch of the material is chronologically undiagnostic. majority (Pitts and Jacobi 1979; Ford 1987), although a date in the later Neolithic or Bronze Age for the flake-based character of the assemblage might indicate are conspicuously absent from the collection. The bladelet and one bladelike flake were recovered, blades sional use of platform edge abrasion. Although one -езго эні рив эротлэттей рэхіт в рэчіочні узэгегіг tend to be small and squat in shape. The reduction flakes are the most common removal type. These pieces nretouched debitage. Excluding spalls (51 pieces), Io Viniam stsiznos egaldmesza edi, quorg a zA

eral millennia, that was incorporated unintentionally ing scatter of lithic material, perhaps formed over sev--isix9-97q a mori sevive derives from a pre-existassemblage. It seems likely that the material contained condition and forms a more technologically coherent material from the upper deposits is in much fresher composed mainly of residual material. By contrast, the si əgeldməsse əht taht gnitzəgguz , gnillor bne əgemeb lenoitisodab-teoq mort ylavienation barattus fills (SG 107051, 107053, 107064 and 107065) have [Table 2.14]. The flints recovered from the primary observed on the flints from the lower and upper fills semeb shi to virus severity of the damage variable condition, but some significant differences The flintwork from the ditch deposits is in very

(Cramp, CD Section 3)

1605

9

G

74

загілер пі эзпэрідпоз дэнт мошь зоп. soop sodyt ovitonisib yllepigolonovat to ytipued Neolithic or Bronze Age industry, although the technologically, is most consistent with a later рив упелівоюндуют, тогрыбовісану апа time...and...probably relates to the use of the до роіләд ләлоця улпи в ләло рәлізодәр иәәд әлеч Yem bne insmunom shi to seu shi hiw bsisiose Vldedory si sllit r9qqu 9ht mort Arowtailt 9hT

from the late Bronze Age intrusive context 107037.

into the later ditch cut. A microburin was recovered

1254

23

10

2

2023	29	26	92	386	1819		14	43	9	66 L			No. of burnt unworked flints
211	61	3	ŀ	3	91	2	10	15	56	81	L		Total
۲	L											Serrated piece	Serrated/denticulate
L								L				Miscellaneous retouch	
5								L			L	Retouched flake	Retouched blade/flake
3					L		2					Partially worked nodule	əluboN
L	L											Unclassifiable/fragmentary core	
L L		L										Core on a flake	Core/core fragment
19	L			7	9	7	L	4	14	9	3	lleqS	ged lleqs\lleqS
5								L			L	Bladelet	Blade/broken blade
S					3					2		Unclassified debitage	
L L	L L											Bladelike flake	
11	5	L			L			L	3	L	2	Tertiary flake 0%	
58	9	L		L	5		L	4	9	L		Secondary flake 1-74%	
10	L		L		3				3	2		Primary flake >75%	Flake/broken flake
IstoT	£90201	190201	107057	990701	107043	107042	107041	9070f	107064	102023	910701	Sub-category	Category
	Upper	Lower	Lower	Lower	Lower								

Table 2.13: Lithic assemblage from the HEI enclosure

Weight (g) burnt unworked flints

9

23

to the excavation of this monument.
to 1 m depth of deposits had been removed prior
are strictly relative when bearing in mind that up
remembering that the terms upper and lower fills
considering the lithic material, it is worth
the construction of the HE1 monument. When
Unfortunately, the lithics do not closely date
place which was already of some importance.
therefore served to architecturally enhance a
within a small forest clearing. The HE1 enclosure
in the late Mesolithic or earlier Neolithic, perhaps
in this area was produced as a result of activity
that the residual lithic material in later features
of human activity. We have suggested previously
HE1 enclosure had already had a long history
This confirms our view that the location of the

In summary, the lithic material suggests that the monument was constructed at a location which had a history of activity dating to the late of HE1 probably post-dated that activity. The lithics from the upper fills of the monument ditches suggest that it was in use anywhere north-south field boundary, 138018, and much of the rest of the 2000 BC. In addition, the major north-south field boundary, 138018, and much to the rest of the 200 millennium field system of the rest of the 200 millennium field system to the HE1 enclosure.

Turning to the relationship with the C2 Cursus, the lack of a direct stratigraphic relationship between the two monuments means that it is impossible to be sure if the cursus was built to incorporate the existing enclosure, or whether the enclosure was built within the extant cursus.

%00l **7**4 lstoT %00l 63 14.81% %89.65 52 Heavy post-depositional edge damage 8 32°16% 6١ 34.92% 22 Moderate post-depositional edge damage %87.72 6 Slight post-depositional edge damage S١ 14.29% L 22.22% 15 %11.11 Fresh Condition category letot to % vo. of flints letot to % stnilt to .oN Upper fill Lower fill

Table 2.14: Comparison of flint condition from the upper and lower fills of the ring ditch (HE1)

north-eastern entrance would have been very narrow; the south-western entrance would have allowed open views towards the Stanwell CI Cursus, but only that section where the CI and C2 Cursus meet. It is also notable that the area of post alignments in the western and eastern CI Cursus ditches would not be visible from inside the HEI monument and neither would the location of the late Mesolithic pits to the north. The focus was emphatically on the junction of the two cursus monuments.

Figure 2.23 shows that sunset at the mid winter solstice fell centrally to the field of vision from the HE1 monument. At sunset on the shortest day of the year, a group of people inside the HE1 monument would have observed the sun disappear behind the mound of the Stanwell Cursus (see Fig. 2.25 below). Conversely, the narrow north-eastern entrance would allow the observation of sunrise at the mid summer solstice. This would have been aided by the large gap in the southern bank and ditch of the C2 Cursus, these sight lines do not take into account topograthese sight lines do not take into account topograthese sight lines do not take into account topograapart from through the two entrances. The

prevented views into and out of the monument

would have been substantial and would have

a central space. We have shown that the banks

of people could undertake ceremonies around

4th millennium BC, and the finds assemblage

relationship with the existing monuments of the

does it and other similar enclosures tell us about

purpose did the HEI monument serve, and what

We will now turn to our final question: what

rectangular enclosure excavated in T5) worked

came first. The important point is that the C2 Cursus and the HE1 enclosure (and probably the

In some respects, it makes little difference which

architecture of the monument, its location and

In order to answer this, we must look at the

fuman inhabitation and social change?

Function of the HE1 enclosure

together as a ceremonial complex.

from the ditches.

We have already shown that the architecture of the monument would suggest that a small group

likely to have disappeared at mid winter behind the higher ground now occupied by Windsor Great Park than the Stanwell Cursus mound. Nevertheless, we feel the coincidence is strong enough to associate the HEI monument and monumental association with astronomical events (eg Parker Pearson 1993, 62–65).

We have already mentioned the small rectangular enclosure, which possibly formed the northeastern terminus of the C2 Cursus, and which was excavated in T5. More detailed analysis of this enclosure will be presented in Volume 2, but before discussing how these enclosures and observations were tied together by the C2 Cursus, we will consider what people may have done at the HE1 enclosure.

Use of the HEI enclosure

The finds assemblage from the HE1 enclosure was relatively large in comparison to others thus far explored at Heathrow (eg Canham 1978), which might suggest more intensive use and the relative strategic importance of this area in general (Fig. 2.24). The finds included worked flint, burnt flint and animal bone (a rare find from deposits at Heathrow from this period). The upper fills were charcoal rich and contained high frequencies of burnt flint, all of which appear to have tipped in from the centre of the monument. The upper fills also contained 'fint nodules and cores.

Cramp compares the lithics from the lower fills with the upper fills (Table 2.13) and makes this point:

In terms of function, this later assemblage [from the upper fill] is hard to characterise. The presence of small quantities of knapping waste in combination with burnt, broken, retouched and utilised pieces implies a range of tasks. Given the presence of animal bone, it is possible that some of the flintwork results from feasting activity.

(Cramp, CD Section 3)

The animal bone was poorly preserved and very fragmentary (apart from a cow maxilla from basal deposit 107063), and consisted of cattle and sheep/goat as well as indeterminate fragments of large mammal. These remains were present throughout the sequence, as was burnt flint. This latter material was significantly more frequent in the upper than the basal fills.

Although fragmentary, the finds signature slaughter and / or consumption of animals. facilitated through rituals which involved births and rites of passage and may have been place via ceremonial occasions such as marriages, resources. These negotiations may have taken various media, access to land, water and other of the year. These people negotiated, through suggests c 12 individuals) at particular times the meetings of groups of people (Figure 2.23 primary use of the monument was to facilitate the monument is unclear. We believe that the the enclosure or in the immediate vicinity of these deposits were produced by activity inside in the southern ditch (see Fig. 2.24). Whether largely coincident, with a particular concentration Spatially, the animal bone and other finds are

from the remnants of the ditches could be interpreted in this way.

If the HE1 enclosure was built for a small group of people to meet, perform ceremonies and observe solar events in relative seclusion, then the architecture of the C2 Cursus would seem to cater for a large group of people, especially when gpsced ditches and banks would allow a relatively large gathering of people, perhaps most of the community, to congregate inside the C2 Cursus, with perhaps only selected individuals or leaders entering the HE1 enclosure to take part in the entering the HE1 enclosure to take part in the most sacred rituals.

We may thus picture the events that may have taken place in this landscape.

ensured that they were involved in these as well ceremonies, but the rest of the community would now lead and take part in the most sacred kin-groups. It would be this smaller group that ceremonies as representatives of the constituent more clearly differentiate the leaders of those ly formalise these locations, which would also the community may have needed to architecturalconcerns over land and agricultural resources, used for solar observations. Due to increasing and the T5 enclosure were already important and probable, that the location of the HE1 enclosure of the community observed. It is possible, even people along the top of the bank, while the rest in ceremonial processions by a small number of Stanwell Cursus may have used the monument The community that built and used the C1

Figure 2.24: Finds distribution within the HEI Enclosure

	fint	Stone	Finds by material type	tsog/qəəf2 • Ismmem Ilsm2 •	dzi7 ● Ismmsm muib9M ●	Animal bone by type • Cow • Large mammal
υ <u>9</u>		te de la constante				

this solstice ceremony. Figure 2.25 shows an artist's reconstruction of would be reversed at the mid summer solstice. greeted with further ceremony. This sequence and the sunrise in the south-east would be enclosure whilst the community waited outside, nus. Here, the leaders would enter the small the rectangular enclosure at its northern termiwhen they all processed along the C2 Cursus to and feasting through the night until before dawn, their leaders may have continued ceremonies setting in the south-west. The community and enclosure which included observing the sun would take part in ceremonies inside the along the C1 Cursus to this point. The leaders previously observed their leaders processing outside the HE1 enclosure, possibly having winter solstice, the community would gather locations. For instance, at sunset at the mid to take part in the processions between these small enclosures, and allowed the community together the C1 Stanwell Cursus and the two in the construction of the C2 Cursus. This linked

Architecture, monuments and society: Architecture, monuments and society:

Through the preceding pages we have demonstrated and suggested how the architecture of the C1 and C2 Cursus and HE1 enclosure reflected the major changes which came about in the latter half of the 4th millennium BC. We have suggested how a loose association of small kin-groups chose to become a cohesive community in response to growing concerns of community in response to growing concerns of

Very soon the community encompassed other landscape locations with banks and ditches forming small enclosures, which reflected the increasing importance and detachment of the leaders and negotiators. However even now the process, through the construction of the C2 Cursus. The architecture of this monument was radically different from that of the Stanwell monument, for it served a different purpose. The C2 Cursus tied together important locations, but it allowed the community to take part in the procession between these locations, even if they

of the landscape in the 3rd millennium BC. with some general observations on inhabitation our purposes here, we will conclude our chapter and will be presented in Volume 2. However, for um BC was recorded during the T5 excavations evidence for human activity in the 3rd millenni-3000 to 2000 BC were excavated. More substantial four pits containing Grooved Ware dating from from 3400 to 2500 BC, was encountered, and only millennium BC. No Peterborough Ware, current monuments or artefacts from the succeeding 3rd excavations revealed relatively little in the way of pottery between 3600 and 3300 BC. The WPR98 the currency of Plain Bowl Ware Neolithic allowed us to place these observations within Our ceramic-based relative chronology has

.DB ainnellim back band 3rd millennia BC.

of the select group that occupied those spaces

defined and possibly more exclusive in terms

'explicit order' were becoming more closely

as the HE1 example illustrate that spaces of

of the wider community in observation and

reached an equilibrium through the inclusion

revolutionary and transformational in that a

latter half of the 4th millennium BC as being

We can view the monumental complex of the

The tensions between community and leadership

was the emergence of a small leadership group.

community was born and within that community

behalt at crucial times of the year. Nonetheless, the construction of small circular enclosures such

participation in ceremonies conducted on their

all to see the ceremonies and processions. Cursus facilitated their involvement and allowed the wider community was not isolated: the C1 ed by that smaller leadership group. Nonetheless, with land and resources, would be led and mediat-Ceremonies, the sub-texts of which were concerned part in the processions along the top of the bank. smaller group of people would now actively take transformation in society and the landscape. A However the C1 Cursus also reflected the disparate histories of the constituent kin-groups. product of the community and tied together the monies at these locations. Its construction was a earlier locations, and the continuation of ceretemplate also allowed for the incorporation of precision in layout and adherence to a specific the C1 Stanwell Cursus. This monument's but soon formalised this process by constructing procession between ancient ancestral locations, canopy. They did this at first by ceremony and tion of agriculture and the opening of the forest access to land and resources following the adop-

were physically excluded from the ceremonies that took place within the small enclosures.



Figure 2.25: Artist's reconstruction of the monumon shi to noitoursteed of the end of the 3rd millening BC

Grooved Ware 3300 to 2000 BC: Peterborough and

in West London and nationally. We will do this by analogy with the material in the community of the 3rd millennium BC. some of the trends that may have taken place WPR98 at the outset, before moving on to outline detail. It is worth discussing the meagre data from ni boirse those artefacts to examine this period in chronology is not sufficiently refined to allow of pits. In addition, as we have seen, our lithic Grooved Ware was only recovered from a handful was recovered during the WPR98 excavations and at Perry Oaks. For instance, no Peterborough Ware BC is not well represented in the WPR98 dataset first field boundaries between 2000 BC and 1700 monuments from 3300 BC to the emergence of the The period following the construction of the major

гле стія топ эли ставичи ставич

We have already described the HEI horseshoe enclosure, which on the basis of the meagre lithic assemblage from the ditch fills, could date to the 3rd millennium BC. However, our evidence for the 3rd millennium BC at Perry Oaks in general consists largely of Grooved Ware and lithics ing Grooved Ware could confidently be dated to this period (216121 and 127022; Figure 2.26), and even these were far from normal Grooved Ware pits. Pit 127022 for instance was contaminated by safed deposits from the construction of the sludge works, and contained only 5 g of Grooved Ware works, and contained only 5 g of Grooved Ware

GR2 fabric. It also contained 22 g of an indeterminate grog-tempered fabric, GR1, which could date to the early Bronze Age.

On the basis of technology, the lithic assemblage from pit 127022 appears to date to the late Neolithic or early Bronze Age and contains evidence of both knapping and tool use (Table 2.15).

Pit 127022 contained a total of 52 struck flints and 289 pieces (1203 g) of burnt unworked flint within 5G deposit 127017. Technologically, the assemblage is in fresh condition and probably dates to the late Neolithic or early Bronze Age, although several residual pieces are present, including one microburin and one, probably later Neolithic, Levallois core. Retouched tools include five retouched flakes and two piercers.

(Cramp, CD Section 3)

1203		Weight (g) burnt unworked flints
589		No. of burnt unworked flints
81		No. of broken struck flints
ŀ		No. of burnt struck flints
25		Total
5	Awl/piercer	Piercer
S	Retouched flake	Retouched blade/flake
L	Levallois/other discoidal flake core	
L	Multi-platform flake core	Core/core fragment
13	Ghip	qidə bəvəiz\qid
L	Microburin	Microburin
L	Bladelike flake	Blade/broken blade
11	Tertiary flake	
13	Secondary flake	
4	Primary flake	Flake/broken flake
Total	Sub-category	Category

Table 2.15: Late Neolithic/early Bronze Age lithic assemblage from pit 127022

a medieval date of AD 1180 to 1400 (WK9377

from context 216011 of this feature produced

Pit 216121 contained 132 g of Grooved Ware

(Fig. 2.26). However, a radiocarbon date on seeds

and 12 flint flakes of broadly late Neolithic date

of some sort of specialised domestic (?) activity.

Nonetheless, the lithics do represent the traces

Beaker and Grooved Ware pottery appears to have been in use (but see Garwood 1999, 161).

to the period between 2400 and 2000 when both

(127022) could date to anytime between 3000 and 1700 BC. It is even conceivable that the pit dates

2400 and 1700 BC, we must conclude that this pit

certainty changes in lithic technology between

Given the problems of distinguishing with

.(amgis 2 dA las).

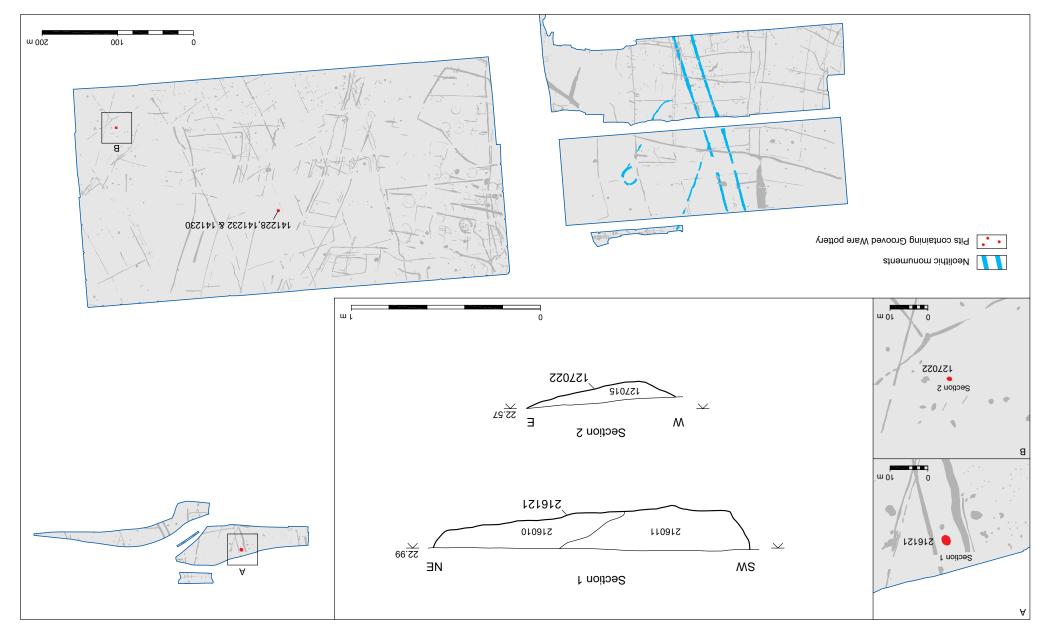


Figure 2.26: Pits containing Grooved Ware

.Da muinnallim unlikely for the beginning of the 3rd indicative of the Bronze Age, and certainly (onion couch) tubers with cremations is more alloy and the association of Arrhenatherum elatius alloy and animal bone. The presence of copper presence of pyre goods in the shape of copper In addition, the human bone report noted the by the construction of a nearby concrete wall. Unfortunately, the pit was again contaminated Ware and the emergence of Grooved Ware. cremation during the use of Peterborough this pit, but the radiocarbon date places the No Grooved Ware pottery was recovered from which also contained cremated human bone. elatius (onion couch) tubers from pit 137027, murahtenahruh no baniato sew (amgie 2 DB las A radiocarbon date of 3030-2870 BC (WK11473

Iron Age fabrics. of early Bronze Age, early Iron Age and late (Fig. 2.26), but they also contained various sherds 141230) contained fragments of Grooved Ware Three intercutting features (141228, 141232 and

landscape. OB muinnellim bre end to noitetidenni mort example of the sort of features which resulted assemblage from pit 129109 provides a good well be contemporary with pit 129109. The lithic Although undated, these further features could containing one struck flint and some burnt flint. contained no finds, and a tree-throw (148326) were two further pits (148324, 148328), which broadly dated to the 3rd millennium BC. Nearby (Fig. 2.27), contained a sizeable lithic assemblage (Fig. 2.27), Pit 129109 in the north-eastern part of WPR98

						001061 <i>fia abaj</i> 0	eldmesse sidti I .76 C erubid
]	29	23	4		Total
				11		Polished axe fragment	Axe/core tool
				11		Notched piece	Serrated/denticulate
				11		Retouched blade(let)	Retouched blade/flake
				11		Core on a flake	
				11		Single platform flake core	Core/core fragment
				11		Chip	Chip/sieved chip
				52		Axe/adze thinning flake	Axe/adze sharpening flake
				L	L	Rejuvenation flake tablet	Core preparation flake
148354	148356			22		Bladelike flake	
100011				L L		Bladelet	
				11		Blade	Blade/broken blade
				33		Flake from a polished implement	
			52	52	ω	Tertiary flake	
			15	12		Secondary flake	
			l	L		Primary flake	Flake/broken flake
	A		IstoT	SG deposit 129111	SG deposit 129110	Sub-category	Category

Pigure 2.27: Lithic assemblage from pit 129109

in the later half of the period. appearance of the flintwork might support a date three polished implements; the general technological mori seafelt served and the stream of the server flakes from quadrants. The flintwork can be dated to the Neolithic ni bətevesys sew hoinw, e01021 iiq ni stisoqob A total of 57 struck flints were recovered from two

solution is the present of the prese a distinctive derived flint are also present. Local flakes of bullhead flint along with several pieces of condition. While most is local gravel flint, a few The majority of flints are in a fresh, uncorticated

came from the pit, again mainly from the upper fill A further 710 pieces (\$130 g) of burnt unworked flint fill; only four pieces were recovered from the lower fill. Nost of the material (53 pieces) came from the upper

120100

. 148328

шġ

 \Diamond

(707 pieces, 4113 g). There was little horizontal variation in the distribution of either struck flint or burnt unworked flint.

The assemblage is mostly composed of flakes (38 pieces). Blades, bladelets and bladelike pieces are less numerous (seven pieces), suggesting a flake-based broad and thin with fine dorsal flake scars. Many have been carefully struck from an abraded platform edge using a soft-hammer percussor. The presence of a platform rejuvenation tablet reflects attempts to maintain the flaking angle during knapping. Two possible axe-thinning flakes were also recovered.

(Robertson-Mackay 1987, 104 and 107). causewayed enclosure at Staines, Surrey sidifical are known from the nearby Neolithic 'soros' htod fo solumexo; examples of both' cores' oven insert only elements of a polisitod insert of a polision of the polision lost to truncation, although it is not uncommon to that other pieces that might have refitted have been flake from the southeastern quadrant. It is possible the northeastern quadrant and the indirectly refitting mori inamgeri axe bahziloq ahi zi noiiqaxa insinoqmi aloes not result directly from knapping activity. An of flint, which again suggests that the assemblage squorg befate the presence of several related groups blage contains little knapping waste. No refits were -masse and tent straggers sand cores and seven ald The paucity of preparatory flakes, pieces of unclassifi-

Two additional polished flakes, originating from two different axes, were recovered from the northwestern and northeastern quadrants. As seen at Ascott-under-Wychwood in Oxfordshire (Cramp forthcoming), it is

not unusual for several axes to be represented by single flakes. It seems that, once knapped, the flakes from polished implements had a fairly wide and perhaps prolonged circulation, with the effect that material from the same implement was only rarely - and from the same implement was only rarely on perhaps unintentionally - recombined for deposition.

Beyond the group of polished flakes, there were very few formal tools in the pit. A retouched bladelet was recovered from context 129104 (IVW quadrant) and a notched flake was recovered from context 129095 (SW quadrant). Numerous unretouched edges show evidence of use.

(Cramp, CD Section 3)

Redlands Farm in Northamptonshire (Wiltshire, For instance, an example from a long barrow at site may yield evidence of wooded conditions. a cleared landscape, although other areas of the This Neolithic pit might, indeed, be reflecting excavated anytime between 3000 and 2000 BC. lithic assemblage, and could thus have been Furthermore, the pit can only be dated on the palynomorphs makes interpretation tenuous. open Neolithic landscape, but the paucity of tree and shrub pollen might reflect a genuinely from such impoverished data. The absence of and it is difficult to characterise the landscape amounts but palynomorph preservation was poor Microscopic charcoal was present in moderate but some reworking of sediments is a possibility. supports the possibility of nearby cultivation, found. The occasional cereal-type pollen grain only Poaceae (grasses) and ruderal weeds were bns nəlloq laərota on bəbləiy (č211 bns 4211) Environmental samples taken from pit 129109

This could prove problematical for landscape be reflecting one set of environmental conditions. within that period and the features might just and abandonment at the site several times may span 800 years. There might be clearance regarded as being late Neolithic, but this period holes separated by a short distance might both be be temporally separated. For example, two waterto ascribe 'periods' to features that may, in fact, Another factor of importance is the tendency similar to Perry Oaks. of newly created and neglected clearings, consisted of woodland with a mixed mosaic pollen, and the wider landscape may have the local pollen record and filter out regional that trees fringing a river bank would dominate

ment throughout the period. It is not surprising

contemporaneous palaeochannel sediments of the nearby River Nene (Brown and Keough 1992),

which indicated an extensively wooded catch-

landscape was extensively open in the early Neolithic but this failed to be recorded in

only a short distance. Analysis of the ditch deposits in this feature showed that the local

lating data obtained from features separated by

forthcoming) illustrates the difficulty in extrapo-

Data relating to the 3rd millennium BC have been recovered in greater quantity and with more reliable provenance during the T5 excavations, and these will be discussed in Volume 2. In the meantime, we will briefly turn to some of the broader trends of the 3rd millennium BC within the wider West London landscape.

interpretation for the late Neolithic.

We have already discussed the lithic and ceramic assemblage from tree-throw 159191 and suggested that it represented just such a midden deposit from a settlement of the 4th millennium BC, probably dating to between 3600 and 3300 BC.

Allen et al. (2004) have contrasted this pattern with that of pits dated by radiocarbon to the period 3350-2900 BC containing Peterborough Ware. They have suggested that these pits saw the deliberate deposition of selected pottery and deposits of the early Neolithic, which were at Petry Oaks both contained lithic assemblages which show some specialisation and selection of pieces for deposition, and of course the former also contained Ware.

This pattern is repeated across the West London area, where excavations by the Museum of London and others, for example at Imperial College Sports Ground (Crockett 2001), in the latter quarter of the 20th century recorded isolated or small clusters of pits containing Peterborough Ware, often with lithic material and charcoal.

If we are to try to understand this trend beyond ascribing it to ritual practices, we should consider how people moved around a landscape divided where people would live, graze animals, gain access to water and plant crops. By whatever process, these issues had to be resolved and settled, perhaps every year or season. We have already suggested that the cursus and small

> millennium were content to live their lives within the physical and social framework they provided. Hence new monuments were not constructed, but old ones were modified or re-used.

If we can detect a subtle change in this period, then it is in the practice of pit digging and the assemblages they contain when compared to the earlier 4th millennium BC.

If the overtly ritual aspects of life as expressed through monuments showed continuity or gradual evolution, then how people behaved in the wider landscape showed a more pronounced change during the period 3400 to 2500 BC, and one which would accelerate during the currency of Grooved Ware pottery. This change concerned in tree-throws and pits to almost exclusive pit deposition.

Evans et al. (1999) have drawn attention to the patterns of artefact deposition in tree-throws across southern Britain in the 4th millennium BC, and suggested that many were the deliberate receptacles for midden material. Allen et al. (2004) have drawn similar conclusions from their miles (13 km) away from Terminal 5. They support the findings of Evans et al. that middening occurred after the trees had fallen, and possibly after significant clearance in the early Neolithic (Allen et al. 2004, 91). Furthermore, they go on to suggest that the deposition of early Neolithic in atter significant clearance in the early Neolithic (Allen et al. 2004, 91). Furthermore, they go on the suggest that the deposition of early Neolithic in atter significant clearance in the early Neolithic (Allen et al. 2004, 91). Furthermore, they go on the suggest that the deposition of early Neolithic to suggest that the deposition of early Neolithic inaterial within tree-throws can be seen as a material within tree-throws can be seen as a

Evidence for the wider landscape in the 3rd millennium BC

In the West London area, Peterborough Ware was deposited in three main contexts. Firstly, isolated or small clusters of pits, often with lithic material and charcoal. Secondly, from the upper fills of causewayed enclosures (eg Yeoveny Lodge Staines) and the Stanwell Cursus (O'Connell 1990). Thirdly, Peterborough Ware is often associated with the modification of earlier Meolithic small circular monuments. Examples include Manor Farm Horton (Preston 2003) and Staines Road, Shepperton (Bird et al. 1990).

Taken together, the three main contextual occurrences of Peterborough Ware give the impression of a time when people inhabited a landscape defined by ancient places and relatively new monuments and practices. However, major architectural constructions undertaken in the period 3600 to 3300 BC. Rather, existing large monuments continued in use in some way, even if they were in advanced decay, whilst small monuments were modified and \checkmark or enlarged. Groups of pits, possibly to accept the ceramic, lithic and ecofactual residues of autumnal rituals, were dug in woodland clearings that had been or were to be used for cultivation or pasture.

We have termed the Peterborough Ware Phase of the Neolithic the 'Period of Contentment' in West London, as it appears to have been a time when the community that built the major monuments of the latter part of the 4th

groups of people to undertake ceremonies. monumentalising of meeting places for small Grooved Ware, there was a re-emphasis on the time being, we can say that with the adoption of be discussed in more detail in Volume 2. For the Area 77 (Pond 17) of the T5 excavations, and will ni belaver was revealed in enclosures of the 4th millennium BC. One such in plan and dimension to the small circular enclosures, but are essentially very similar 'mrofignen' llsms to mrof eth ekstern' ed and were associated with Grooved Ware. millennium BC, new monuments were constructthe fundamentals of ordering life. In the 3rd disposal of the dead, but the subtext remained cloaked by rituals involving worship and even of negotiation. These meetings may have become and 3300 BC played a vital role in this process circular monuments constructed between 3600

contention. This may have ended with a ceremoundertaken at the part of the landscape under of the monuments, a small ritual may have been under the guise of a ceremony undertaken at one a particular resource or part of the landscape once agreement had been reached over access to be an outcome of that process. In other words, part of the process of negotiation itself, or it may and the deposition of pottery and flint may be strength or combat. The deliberate digging of pits feasting or negotiation by force through trials of context of peaceful discussions with ritual possibilities. It may have taken place in the negotiation is taken to cover a wide range of rituals and ceremonies, and in this context We cannot know the details of these negotiations,

ceremonies undertaken at the monuments. link in a chain of events which commenced with acts of affirmation. These deposits were the final part of the ceremonies, and were deposited in wild, non-domesticated landscape also formed suggest that representatives of the produce of the such as sloes, crab apple and hazelnuts. These London area also contained wild autumnal fruits pits containing Grooved Ware in the West debris. It is not surprising, therefore, that some selected, not merely a sample of occupation deposited in Grooved Ware pits was carefully Allen et al. (2004, 92) have noted that the material respective settlements of the people involved. used in the ceremony, or derived from the burying some of the ceramic and lithic material ny laying claim to the land at issue, involving

As we will see in our final section of this chapter, these practices were to change during the period 2000–1700 BC, as people, kin-groups and the community came to terms with new conditions in society, and adapted the mechanisms of the 3rd millennium BC to a point where the manner in which land was apportioned was completely transformed.

The social origins of the landscape transformation of the 2nd millennium BC

The period between the late Neolithic (c 2000 BC) and middle Bronze Age (c 1600 BC) saw a major transformation of the Heathrow landscape that was so conspicuous that it clearly represented a correspondingly significant transformation of

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to ns today. c 1700-750 BC, which would be more familiar c 2000 BC to the rural agricultural landscape of tion, from an ancient, monumental landscape at 2.28 clearly demonstrates this radical transformaand Bronze Age landscapes as shown in Figure c 2000 BC. A comparison between the Neolithic pottery appears to have been transformed from coming together of peoples using Grooved Ware activity. The society that was marked by the of land that preserve more subtle traces of human visible major monuments set within open tracts Veolithic landscape, which was defined by highly This was a marked shift from the character of the developed along the lines of the boundaries. settlements accessed by trackways that gradually areas lay fields, waterholes and permanent ditches, banks and hedges. Within the enclosed production enclosed by boundaries marked by was principally concerned with agricultural human engagement with the landscape. This

the landscape they inhabited.

reference to a consciousness and memory of

and cumulative process, reflecting emerging

ideological terms. In addition, the pattern of

ties, although this may not have been either sudden or dramatic, either in landscape or in

and settlements implies an ethos of claiming

ownership of land by individuals or communi-

The change to a pattern of enclosed field systems

communities and settlements, negotiated with

and shifting relationships between individuals,

have been either a relatively swift or a gradual

cally consistent across the Heathrow area. It may

enclosure was not chronologically or morphologi-

of the 2nd millennium BC (see Table 2.16). Our first concern in trying to understand this

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a large part in understanding the chronology Therefore, ceramic evidence continues to play but we have nothing from the early Bronze Age. 900 cal. BC from a range of waterlogged contexts, over a dozen radiocarbon dates from 1600 BC to chronology. The excavations at WPR98 produced revolution in landscape use is to consider

Thames it is more common. Furthermore, if at Heathrow generally, although south of the there is very little in the way of Beaker pottery smaller quantities of Beaker pottery, and in fact tion. The Perry Oaks excavations produced even discussed the pattern of Grooved Ware deposigrog-tempered fabrics, and we have already BC. Both Grooved Ware and Beaker utilised spans the late 3rd and early 2nd millennium 3rd millennium BC and Beaker pottery which overlap between Grooved Ware pottery of the Firstly, we must consider the chronological

Table 2.16: Ceramics of the 2nd millennium BC

Date range BC	Pottery type
3000-2000	Grooved Ware
5400-1700	Beaker
2000-1500	Collared Urn
0911-0021	Deverel Rimbury
092-0911	Post-Deverel Rimbury



Figure 2.28: Transformation from monumental to enclosed landscape

better sorted and finer temper. and smaller globular urns—generally containing bucket and barrel shaped urns in coarse fabrics tive repertoire of forms-essentially thick-walled ceramic tradition embraced a relatively conservaas middle/late Bronze Age. The Deverel Rimbury body sherds can sometimes be only broadly dated an almost universal flint-tempered tradition, and ot nute into the late Bronze Age there was a return to date. Subsequently, during the middle Bronze Age common, are a clear element of activity of this tation of Collared Urns, which, although still not In ceramic terms Heathrow has a greater represenin the use of Grooved Ware and Beaker pottery. have been relatively little chronological overlap Garwood (1999, 161) is correct, then there may

Lithic material can be broadly dated to the late Neolithic/early Bronze Age, a somewhat crude chronological range, apart from individual of the 2nd millennium BC become increasingly crude and flake-based, and so serve as only broad chronological indicators.

There is no direct evidence from the site for environmental conditions or prevalent vegetation cover prior to 1600 BC.

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We have argued in the previous section that by the end of the 3rd millennium BC small groups of people negotiated, through ceremonies at monuments, access to and use of areas of landscape

for settlement and agriculture. Tenure of land, probably on a seasonal basis, was then confirmed by the enactment of ceremonies, which included the deposition of Grooved Ware ceramics and associated lithics. Wild fruits and nuts also accompanied the process of deposition, suggesting that the ceremony occurred in autumn. We and absence of large henge monuments architecture that society remained organised around smaller groups, possibly at the kin or clan level.

Our next firm chronological horizon is defined by a raft of radiocarbon dates associated with Deverel Rimbury pottery. The dates span the period 1600 to 1100 cal. BC and were obtained on material derived from pits and waterholes associated with fields and settlements contemporary with the full floruit of the middle Bronze Age 'complex' (see Chapter 3).

The period of transformation thus coincides with the early Bronze Age and corresponds, in terms of Needham's chronology (1996), with his Periods 3 (2050–1700 BC) and 4 (1700–1500 BC). These periods in West London, however, are better defined by the rarity or absence of diagnostic nows or large henge monuments rather than their presence. There are no individual burials, barassociated with Beaker pottery. Collared Urns, by comparison, are more abundant but still nationally there is a large degree of overlap in the chronology of late Beaker and the early and the chronology of late Beaker and the early and middle Bronze Age Collared Urns (Burgess 1986).

For West London and the Middle Thames in general, we are therefore unable to resolve the relationship between Collared Urns and Beaker pottery, in contrast to Burgess' treatment of the link between Collared Urns and food vessels in northern Britain (ibid., 348–9).

Early Bronze Age metalwork occurred as isolated finds across the site, but was very uncommon. The chronology of the early Bronze by barbed-and-tanged arrowheads, is, as already mentioned, insufficiently precise to allow us to understand changes within the period 2000 association of the lithics generally with Beaker association of the lithics generally with Beaker and Collared Urn ceramics.

could belong either to Beakers or Collared Urns. The remainder are all plain body sherds, and body sherd, probably from a Beaker vessel. fied amongst this group—a comb-impressed ceramics. Only one diagnostic sherd was identia trait more characteristic of early Bronze Age GR1 are invariably oxidised, at least externally, similar to Grooved Ware fabric GR2, sherds in (GR1). While the fabric itself is visually very all have been assigned to a single fabric type All late Neolithic sherds are grog-tempered and almost every case on the grounds of fabric alone. have been tentatively assigned to this period, in uncommon at Perry Oaks—only 32 sherds (75 g) certainty. Early Bronze Age pottery is relatively Neolithic or early Bronze Age with any degree of of pottery and lithics that can be dated to the late The plan in Figure 2.29 shows the distribution

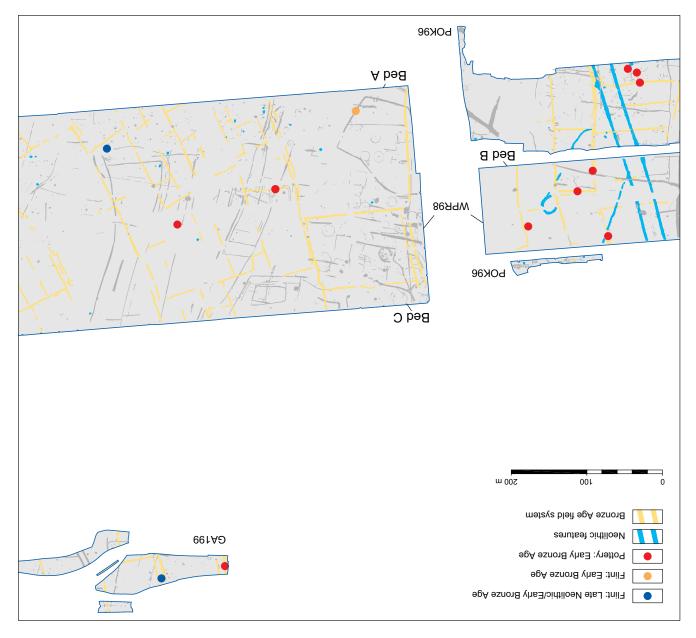


Figure 2.29: Distribution of pottery and lithics dated to the late Neolithic or early Bronze Age

Sherds were recovered from 15 contexts. Condition overall was poor, sherds are very small and abraded (mean sherd weight 2.3 g) and no context produced more than 22 g of pottery. The diagnostic Beaker sherd came from a primary ditch fill (ditch recut 105009). The overall distribution is quite dispersed across the excavated can be observed on the southern edge of POK96 (ditches 961009 and 962366; pit 961024), and to the north in WPR98 Bed B (secondary fill of the eastern cursus ditch; ditch recut 105009; ditch for north in WPR98 Bed B (secondary fill of the the north in WPR98 Bed B (secondary fill of the for north in the secondary fill of the secondary fill of the for north in the secondary fill of the secon

Lithic material is similarly sparse. Small assemblage size, residuality and chronologically imprecise technological evolution all combine to restrict the range and usefulness of lithics of definite early Bronze Age date.

The distribution pattern of artefacts residing in later features is generally similar to patterns from the 4th and 3rd millennia BC, and from this we may infer that settlement and activity patterns in the early Bronze Age landscape were broadly similar to the latter part of the 3rd millennium BC. In contrast, ceremonial monuments unequivocally dated to the early Bronze Age are rare. In West London as a whole, many small circular cropmarks attributed to the early Bronze Age, nave, on excavation, proved either undatable (eg thath and 3rd millennia BC (eg the Perry Oaks HEI 4th and 3rd millennia BC (eg the Perry Oaks HEI enclosure). Excavations by Wessex Archaeology enclosure). Excavations by Wessex Archaeology at Imperial College Sports Ground, however,

recorded a round barrow that had been inserted into an existing small Neolithic circular enclosure, although unfortunately the associated primary cremation was undated (Crockett 2001). However, a barrow with a Collared Urn cremation was excavated adjacent to the Thames on the Surrey bank at Hurst Park (Andrews 1996).

Early Bronze Age round barrows are usually associated with individualised burial rites and personalised artefacts, despite the occurrence of successions of later inserted burials. Barrows and Beakers tend to denote individuality and high status. The paucity of evidence of this type from across the large area excavated at T5 suggests fnat this tradition was virtually absent in the vicinity of Heathrow.

London was not geared towards the sort of previously that late Neolithic society in West did not find a hold in society. We have argued adopted only in part, for example lithics, and and Collared Urns. The Beaker 'package' was Grooved Ware (or even late Peterborough Ware) chronological relationship between Neolithic Middle Thames at least, there was a closer 85). It is also possible that in this part of the distributional patterns (Brown and Cotton 2000, Thames and its tributaries, as suggested by wider re-located to a focus on the floodplains of the that Beaker ritual and funerary activity were monuments are unclear, although it is possible scarcity of Beaker ceramics, burial traditions and 3rd millennium BC. The reasons for the extreme and living in a broadly similar fashion to the late Clearly people were still present in the landscape,

deposition of material in pits. with old traditions of ceremonies resulting in modate new monumental and burial traditions contexts of Collared Urns an attempt to accom-Nonetheless, we can see from the depositional of other interrelated or unrelated factors. been due to population growth or any number why this occurred we do not know. It could have problems of land access and tenure, although Society sought new ways of dealing with the mechanism was breaking down or transforming. between 2000 and 1600 BC that centuries-old previously described. However it is clear that nechanism of land access and usage we have tred on small kin or extended kin-groups, whose monuments of the day. Instead society was cenfrom the ceremonies associated with the large powerful individuals and leaders who emerged

then it also heralds changes. The aurochs was a sition' tradition, although if it is the culmination, the culmination of the Neolithic 'structured depo-(Lewis 2000, 74) that the aurochs burial may be Ware pits were close by. Cotton has speculated (Brown and Cotton 2000, 86) and other Grooved through a small pit containing Grooved Ware the pit containing the aurochs was excavated Ware pits of the late 3rd millennium BC. In fact, of deposition clearly has echoes of the Grooved ceramics were recovered from this pit, but the act vessels and Collared Urns (Green 1980 130). No Cotton 2000), are nationally associated with food at Holloway Lane to the north of T5 (Brown and which was butchered and buried in a large pit and-tanged arrowheads used to kill an aurochs, For example, the six Conygar Hill type barbed-

wild animal of some rarity by the early 2nd millennium BC, and its deposition is in contrast to the wild fruits and nuts predominantly associated with Grooved Ware depositional practices.

Excavations in Area 91 of T5 revealed a pit containing Grooved Ware, which was cut by another pit containing relatively large quantities of Collared Urn (see Vol. 2). There were no traces attempt to continue the tradition of ceremonies culminating in the deposition of material that these attempts at continuing the tradition of negotiated land access eventually proved insufficient and that social agreements following formal agreements manifested in more formal agreements manifested in more formal agreements manifested in more that antly physical demonstrations of formal agreements manifested in more formal agreements manifested in more the negotiation process.

We have already mentioned the first occurrence of barrows and cremation burials, perhaps the first indication of a concern with treating certain individuals differently and erecting monuments around them. It would be logical to suggest that this provided the more formal mechanism for the early 2nd millennium BC. However, even in these cases there is a clear link with the past. For example, the Imperial College barrow was constructed within an existing small Neolithic enclosure, and although undated, it must be presumed to date to the early Bronze Age. Collared Urns were associated with cremated

remains buried in a pit, located close to a deep shaft or well containing Peterborough Ware. At Hurst Park, the barrow enclosing a Collared Urn cremation burial enclosed a shallow oval 'scoop' or tree-throw containing Grooved Ware. 'scoop' or tree-throw containing Grooved Ware. Insrge rectangular feature containing six sherds of Peterborough Ware.

In all of these cases we see a clear link with the practices of the 3rd millennium BC, which we have argued were concerned with ceremonies relating to affirmation of land access and resources. The practice of cremation and the construction of barrows at these locations could represent a change in the methods of laying claim of ceramics, lithics and wild produce following with Collared Urns and the places marked with monuments. The monuments were clear physical individuals of defined ancestries with that land.

Once again we have no refined chronological outline for this process, and do not know how long these practices continued. Put crudely however, the Imperial College and Hurst Park Collared Urns fit in the Late Series of Burgess' classification, which in turn accords with Needham's Period 4, 1700–1500 BC (Needham Needham's Period 4, 1700–1500 BC (Needham

centuries, since evidence from Perry Oaks indicates that the first division of the landscape by formal field boundaries took place during Meedham (1996, 132) has suggested that Deverel Rimbury pottery probably originated in his of land division and the first proper settlements (see Chapter 3).

If we accept that the adoption of cremation burial, sometimes accompanied by barrows and Collared Urns, was an attempt at formalising appear that after an unknown period even this approach was not sufficient to achieve a long lasting agreement over access to resources. The strategy of excavating a series of banked and ditched boundaries across the landscape was thus a logical progression in a series of progressively more overt attempts at claiming land tenure.

It would thus appear that the unified community which built the Neolithic monumental landscape of 3600 to 3300 BC had itself undergone transformation during the 3rd millennium BC. After many years of the community living contentedly within the monumental and social architecture they had constructed in the latter half of the 4th millennium BC, we have suggested the second millennium BC, we have suggested the second half of the 3rd and early 2nd millennia BC saw

an increasing trend towards more overt

the product of the overarching community. locked together to form a field system which was reflected the individual kin-groups, and how these We will show how the individual landholdings through the latter half of the 2nd millennium BC. the landscape was divided and how it developed In the following chapter we will examine how of land from a previously communal landscape. personalised activity of splitting off plots egalitarian backdrop to the apparently Heathrow area there may have been a more and other forms of ceramics. However, in the burials, rich grave goods, metalwork, Beaker worne and artefacts such as barrow country was expressed by the adoption of high group, an imperative which elsewhere in the importance of the individual and the small division was itself an expression of the It could be argued that the act of landscape

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appear that the community of kin-groups

progression of this process, then it would

by the first field boundaries as being a logical

accept the physical division of the landscape

retain community cohesiveness. Indeed, if we

an increasingly desperate attempt to maintain

and these mechanisms may have developed as

the unity of the community was breaking down,

to land and resources. It would thus appear that

ceremonial and physical affirmation of claims

orderly access to resources, and therefore to