The Beginnings of Agriculture in Great Britain: a Critical Assessment

Volume II
(figures and appendices)

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Sources of information used for the maps

The colour maps were produced using the Autodesk Autocad program.

3.3 - Late Mesolithic dates: appendix II
3.4 - Early Neolithic dates: appendix II
4.1 - Paleoenvironmental dates: appendix III
5.1b - Annable 1987, Spratt 1982, Spratt and Simmons 1976
5.2a - Keighley 1981, Manby 1963, Williams 1985
5.3a - Clarke 1960, Jacobi 1980, 1984, May 1976, Tilley 1979
5.4a - Case 1986, Gardiner 1984, Holgate 1988, Saville 1984
5.5a - Grinsell 1970, Jacobi 1979
5.5b - Grinsell 1970, Mecber 1986
5.6a - Jacobi 1980, Stanford 1980
5.6b - Savory 1980, Stanford 1980
5.7 - Hunt 1987, Lacaille 1954
5.8 - Scottish National Monuments Register [NMR]
5.9 - Hunt 1987
5.10 - Hunt 1987, NMR
5.11 - Hunt 1987, NMR
5.12 - Hamilton 1983, NMR
5.13 - see 5.1-5.6a
5.14 - see 5.1-5.6b
6.1 - OS Physical map of Great Britain, sheet 1
6.2 - OS Landranger maps, sheets 38,37,44,43
6.3 - OS Landranger maps, sheets 38,37,44,43
6.4 - Macaulay Institute 1:250,000 soil survey for Eastern Scotland, 1:63,360 soil maps, sheets 66, 67 and 77
6.5 - Macaulay Institute 1:250,000 land capability map for Eastern Scotland, 1:50,000 land capability maps, sheet numbers 37 and 45
6.6-6.8 - appendix IV
6.9-6.18 - 1:25,000 OS maps, and personal survey work
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Sorted by dating laboratory.
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Sorted by dating material
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Figure 3.6a

Archaeological dates from area A
Calibrated dates from area A

Figure 3.6b
Archaeological dates from area B

Figure 3.7a
Figure 3.7b
Calibrated dates from area B

Site code
Mesolithic
Neolithic
Other

Date Cal BC (2SD)
Figure 3.8a
Archaeological dates from area C
Calibrated dates from area C

Figure 3.8b
Figure 3.9a
Archaeological dates from area D
Williamsons Moss Pennine sites
Figure 3.10a
Archaeological dates from area E
Figure 3.10b Calibrated dates from area E

- Neolithic
- Mesolithic
- Other
Archaeological dates from area F

Figure 3.1.1a
Calibrated dates from area F

Figure 3.11b
Archaeological dates from area G

Figure 3.12a
Calibrated dates from area G

Figure 3.12b

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Date Cal BC (2SD)
Archaeological dates from area H

Figure 3.13a
Calibrated dates from area H

Figure 3.13b
Figure 3.14
Calibrated dates from the Sweet Track.
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Figure 4.3b: Regional distribution of calibrates elm decline dates.
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Site code

SOUTH NORRH

0001

0050

0100

0150

0200

0250

0300

0350

0400

0450

0500

0550

0600

0650

0700

0750

0800

0850

0900

0950

1000

Date loc (W)
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Contours at 240m and 60m
Small finds
Monuments
contours at 240m and 60m

Figure 5.2b: Map showing distribution of early Neolithic finds in the Pennines and Midlands.
Figure 5.3a: Map showing the distribution of late Mesolithic finds in Eastern England.
Figure 5.3b: Map showing the distribution of early Neolithic finds in Eastern England.
Figure 5.4a: Map showing the distribution of late Mesolithic finds in Southern England.

The map displays contours at 240m and 60m, indicating areas covered in the study and areas not covered.
Figure 5.4b: Map showing the distribution of early Neolithic finds in Southern England.

Contours at 2.4km and 6km

Monuments

Small finds
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Scale 1:1250000

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Aberdeen Peat Soils on alluvial and fluvo-glacial deposits Lowland soils formed on drift Upland soils on alluvial and fluvo-glacial deposits

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Key:
- Undiagnostic or uninspected flint scatters
- Flint scatters with blade cores
- Flint scatters with microliths or microburins
- Flint scatters with bifacially retouched pieces
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Key:
- Leaf-shaped arrowhead
- Polished stone axe
- Other sites which are suggested by typology or finds to be early Neolithic

10km
Figure 6.7b: Map showing early Neolithic finds in the Dee Valley with their site codes which refer to Appendix IV.

Key:
- Other sites which are suggested by typology or finds to be early Neolithic
- Polished stone axe
- Leaf-shaped arrowhead

10 km
Figure 6.7c: Map showing the distribution of early Neolithic finds at the eastern end of Dee Valley. See 6.7b for the site codes.

Key

- Polished stone axe
- Leaded arrowhead
- Other sites which are suggested by typology of finds to be early Neolithic
- Loaf-shaped arrowhead

Contour interval equal to 50m
Figure 6.8: fields walked at Mains of Kinmundy

Figure 6.9: fields walked at Borrowstone

Figure 6.10: fields walked at West Hatton
Figure 6.11: Braeroddach Loch
Figure 6.12 Flint scatters near Banchory

Figure 6.13: Fields walked near Wester Durris
Figure 6.14 Fields walked near Kincardine O'Neil

Figure 6.15 Field walked at Invergelder, Balmoral Estate
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- Etterick Cralt
- Upper Ruthven/Fernery Howe
- Braeroddach
- Westmill Breae
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Figure 6.23a
L:B ratios of flakes from Grieve A

Figure 6.23b
Length:breadth ratios from Grieve B

Figure 6.23c
Length:breadth ratios from Grieve H
Figure 6.23d
L:B ratios from Grieve C

Figure 6.23e
L:B ratios from Banchory

Figure 6.23f
Length:breadth ratios from Grieve J
Figure 6.24a
Platform width of flakes

Figure 6.24b
Platform width of flakes
Figure 6.25b

Generalised core types

- Blade cores
- Stemmed cores
- Hole cores

in brackets

% of cores inspected
Figure 6.26
[Nos. in brackets are the number of inspected cores minus burnt cores]
Figure 6.28a
Colours of non-retouched pieces

Figure 6.28b
Colours of non-retouched pieces

84
Figure 6.29

Colour of retouched pieces

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[No. in brackets is number of retouched pieces, including miscellaneous pieces but not post-Mesolithic pieces]

Grieve A [74]
Grieve B [6]
Grieve C [166]
Banchory [27]
Figure 6.30

Tool types

K
Banchory

Grieve A

Grieve B

Grieve C

Grieve D

miscellaneous
Figure 6.31: Post-Mesolithic artifacts

- Barb and Tang Fabricator Leaf-shaped 
  - Polished Knife

Legend:
- Banchory
- Grieve A
- Grieve C
- Borrowstone
- Ferney Howe
- Boundary
Figure 6.33a: Scraper types

Absolute numbers

Site

Banchory

Ettrick

Croft

Grieve

A

I

Grieve

B

r/r

Grieve

C

Site

Banchory

Ettrick

Croft

Grieve

A

I

Grieve

B

r/r

Grieve

C

S3

Type 1

m

Type 2

j

Type 3

Type 4

Type 5

£72

Type 6

No. of scrapers
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Figure 6.33b: Scraper types percentages
Note 3.1: Isotopic fractionation

While the different isotopes of carbon have the same chemical properties their atomic weights vary, and this causes differential uptake in certain reactions. During photosynthesis there is a slight preference for the lighter isotopes, i.e. $^{14}$C is under represented in terrestrial plant tissue compared to the atmosphere. In plants growing in temperate regions this depletion amounts to 3-4%o. Bone also suffers from isotopic fractionation but in this case $^{14}$C is favoured, and collagen is enriched in $^{14}$C by about 1%o [Evin 1983]. Marine bicarbonates are also enriched in $^{14}$C, which would make marine shells appear younger than contemporary terrestrial organisms if it was not cancelled out by the marine reservoir effect [Olsson 1983].

Fortunately any fractionation occurring for $^{14}$C is twice that for $^{13}$C, and as this latter isotope is more common it is more easily measured than $^{14}$C. The ratio of $^{13}$C to $^{12}$C is apparently stable through time, unlike that of $^{14}$C, so any alteration in this ratio must be due to fractionation either in nature or during the preparation of the sample for dating. It is now standard for the $^{13}$C:$^{12}$C ratio to be measured using mass spectrometry, and quoted as a delta $^{13}$C value in relation to an international standard. This is used to correct the $^{14}$C measurement, allowing the comparison of materials with varying degrees of fractionation. As most samples are on terrestrial plant materials, and these generally have a delta $^{13}$C value of about -25%o, this is taken as the reference against which others are corrected [Mook and Streurman 1983].

Marine shells contain about 25%o more $^{14}$C than terrestrial materials, and so would appear to be about 400 years too young. However, as the ocean reservoir effect causes marine carbon to appear 400 years too old and these roughly cancel each other out, at least around the British coast, some laboratories do not apply either correction [Harkness 1983]. It is more correct to apply both corrections; the failure to do so routinely can cause a laboratory confusion if required to date shells from areas, such as Greenland, where the marine reservoir effect is significantly greater [Harkness pers. com.].
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The table is a summary of vegetational changes and other events at the elm decline as recorded at various sites from all over Britain. It can, therefore, only give a rough indication of the geographical trends. The grid square of the occurrence is used to give an indication of any geographical trend.

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Note: Y = event occurs; n = event occurred but not occurring.
**Details of fieldwalking undertaken for this thesis**

<table>
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<th>Field No.</th>
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<th>Finds</th>
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**Note:** Details of fieldwalking undertaken for this thesis.
<table>
<thead>
<tr>
<th>Site</th>
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<td>4</td>
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Finds:
- Invergelder: 14 flints
- Lavender: 3 flints
- Banchory: 1 flint
- Mains: 1 flint
- Kinmundy: 3 flints
- Potarch: 1 flint
- Sawmill: 3 flints
- Upper: 5 flints
- Ruthven: 1 flint
- Warren: 3 flints
- Crathes: 3 flints
- Castle: 1 flint
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Note 6.2: Flake Platform Types
After Tixier et al. [1980 p.105]

- 1: cortical
- 2: flat
- 3: dihedral
- 4: faceted
- 5: complex facet
- 6: bird's wing
- 7: ram's horn
- 8: linear
- 9: punctiform

Note 6.3: Flint Colour Classes

Brown/honey flint

Brown

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Note 6.4: Microlith classification
After Clark [1933 p56-58]

Truncated piece: blunted obliquely down part of one edge. The majority of these are not true microliths as the butt is retained [Clark's A1].
Rods: blunted straight down one or both edges [Clark's B1, B2].
Base blunted: blunted down one edge and across the base [Clark's C].
Isosceles triangle: Clark's D1a.
Scalene triangle: Clark's D1b.
Crescent: Clark's D2.
Sub-triangular: Clark's D5
Trapezoids: Clark's D6:

Note 6.5: Scraper classification

1: End scraper. scraper edge on one of the shortest sides of the blank.
2: Side scraper. scraper edge on one of the longest sides of the blank.
3: Side/end scraper. scraper edge on adjacent long and short sides of the blank.
4: Double end scraper. scraper edge on both short sides of the blank.
5: "Thumb-nail" scraper. scraper edge round all the blank, except the butt.
6: All round scraper. scraper edge round the whole of the blank.
7: Others. including possible scrapers; those that do not fit the above classifications, e.g. concave scrapers, and scraper fragments.

Note 6.6: Core Types
After Ford [1987b]

1: Prismatic blade core. numerous flake scars of L:B ratio > 5:2.
2: Core with > 3 scars L:B > 5:2.
3: Core with < 3 scars L:B > 5:2, among other scars.
4: Core with > 3 scars L:B 5:2. 2:1, among other scars.
5: Core with < 3 scars L:B 5:2. 2:1, among other scars.
6: Any other broad flake core with > 3 scars.
7: Bashed lumps, irregular pieces with few or very haphazard scars.
Note 6.7: Core Platform Types

I: 1 platform
   a: flakes removed all round
   b: flakes removed part way round.

II: 2 platforms
   a: parallel platforms
   b: platforms at oblique angles
   c: platforms at right angles

III: 3 or more platforms

IV: Others: keeled cores, splintered pieces etc.
APPENDIX II

CATALOGUE OF ARCHAEOLOGICAL DATES FROM GREAT BRITAIN AND IRELAND

Abbreviations
CBA C14 Index Council for British Archaeology Radiocarbon Index
GU lab Glasgow University Radiocarbon Laboratory
Kinnes Unpublished list of Neolithic radiocarbon dates compiled by Dr I Kinnes, British Museum
SURRC Scottish Universities Research and Reactor Centre

Certainty and Closeness

Each sample is scored for the closeness of its relationship to the archaeological event it is intended to date. This scheme is taken from Waterbolk [1971a].

Certainty of association of dated sample with archaeological event
A - Full certainty: archaeological object dated directly
B - High probability: direct functional relationship between the dated sample and diagnostic archaeological finds, e.g. hearth, grain in pit.
C - Probability: no demonstrable functional relationship, but size or quantity of sample material suggests a relationship, e.g. substantial charcoal deposit in pit or in occupation layer.
D - Reasonable possibility: as C, but fragments of dated material are small and scattered, e.g. charcoal scatters in occupation layers or graves.

Closeness of age of the sample material to the archaeological event.
A - Difference in date between death of sample material and incorporation into archaeological deposit is so small as to be negligible, i.e. less than 20 years, e.g. twigs, grain, bone.
B - Difference in date of several decades, i.e. 20-100 years, e.g. charcoal from short lived trees.
C - Difference in date of several centuries, e.g. charcoal from long lived trees.
D - Nature of dated organic material cannot be precisely known, e.g. peat.
Catalogue of archaeological dates from Great Britain

Mesolithic dates

**NM 1 Carding Mill Bay**
Location: Oban  County/Region: Strathclyde  NGR: NM 8474 2935  
Nature of site: shell midden  Site class: midden

Accepted dates

Lab.No.: GU-2797  4980±50 BP (3030 bc), 3950(3781)3690 cal.BC [2SD]  
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date on bulk charcoal sample from context XV, associated with typical Obanian assemblage.

Lab.No.: GU-2796  5060±50 BP (3110 bc), 3990(3938,3867,3818)3709 cal.BC [2SD]  
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date on bulk charcoal sample from context XIV, associated with typical Obanian assemblage.

**NM 2 Ulva Cave**
Location: Ulva, Mull  County/Region: Strathclyde  NGR: NM 431 384
Nature of site: shell midden  Site class: midden

Accepted date

Lab.No.: GU-2602  5690±60 BP (3740 bc), 4720(4527)4368 cal.BC [2SD]  
Material dated: shell [Patella sp.]  Certainty: C  Closeness: B
Location and Comment: Raw date = 6090±50 BP. Date on inner fraction of combined sample of shells from top 10cm of midden. Very similar to outer fraction GU-2603, suggesting contamination is minimal.
Bibliography: Bonsall et al 1992

Rejected date

Lab.No.: GU-2603  
Material dated: shell [Patella sp.]  Certainty: C  Closeness: B
Location and Comment: Date on outer fraction of same sample as GU-2602. Raw date = 5930±50 BP.
Bibliography: Bonsall et al 1992
**NR 1 Caisteal nan Gillean I**

Location: Oronsay  
County/Region: Strathclyde  
NGR: NR 359 879  
Nature of site: shell midden  
Site class: midden

Accepted dates

Lab.No.: O-3011  5450±50 BP (3500 bc), 4451(4340)4164 cal.BC [2SD]  
Material dated: charcoal  
Certainty: C  
Closeness: C  
Location and Comment: Date from L3, trench C  
Bibliography: Switsur and Mellars 1987

Lab.No.: O-3010  5485±50 BP (3535 bc), 4459(4349)4240 cal.BC [2SD]  
Material dated: charcoal  
Certainty: C  
Closeness: C  
Location and Comment: Date from L3, trench C  
Bibliography: Switsur and Mellars 1987

Accepted single date

Lab.No.: SRR-1458b  5485±81 BP (3535 bc), 4500(4349)4155 cal.BC [2SD]  
Material dated: shell [Patella sp.]  
Certainty: C  
Closeness: B  
Location and Comment: Raw date = 5890±70 BP. Date on inner fraction of shell, from redeposited midden material in test trench. This date has no stratigraphic relationship with O-3011 and O-3010, so it must be considered as a single date.  
Bibliography: Switsur and Mellars 1987

Rejected date

Lab.No.: Q-3009  6035±70 BP (4085 bc)  
Material dated: charcoal  
Certainty: C  
Closeness: C  
Location and Comment: Date from L4, trench C.  
Bibliography: Switsur and Mellars 1987

**NR 2 Caisteal nan Gillean II**

Location: Oronsay  
County/Region: Strathclyde  
NGR: NR 359 879  
Nature of site: shell midden  
Site class: midden

Accepted dates

Lab.No.: Birm-348b/c  5240±107 BP (3290 bc), 4340(4037,4014,4008)3789 cal.BC [2SD]  
Material dated: shell [Patella sp.]  
Certainty: C  
Closeness: B  
Location and Comment: Raw date = 5645±99 BP. Combined date from outer and middle fraction of shells from basal midden. Fairly close dates, therefore probably quite reliable.  
Bibliography: Switsur and Mellars 1987, CBA 14C Index

Lab.No.: Birm-347  5450±140 BP (3500 bc), 4658(4340)3990 cal.BC [2SD]  
Material dated: charcoal  
Certainty: C  
Closeness: C  
Location and Comment: Date from L4 From basal midden.  
Bibliography: Switsur and Mellars 1987, CBA 14C Index
Rejected dates

Lab.No.: Birm-346  5150±380 BP (3200 bc)
Material dated: charcoal  Certainty: C Closeness: C
Location and Comment: Date from L3, upper midden. Error exceeds ±160.
Bibliography: Switsur and Mellars 1987, CBA 14C Index

Lab.No.: Birm-348c  5165±146 BP (3215 bc)
Material dated: shell [Patella sp.]  Certainty: C Closeness: B
Location and Comment: Date from L4, basal midden, on outer fraction of shell. Raw date
 = 5570±140 BP. Combined date used in preference.
Bibliography: Switsur and Mellars 1987, CBA 14C Index

Lab.No.: Birm-348b  5315±146 BP (3365 bc)
Material dated: shell [Patella sp.]  Certainty: C Closeness: B
Location and Comment: Date from L4, basal midden, on middle fraction of shell. Raw date
 = 5720±140 BP. Combined date used in preference.
Bibliography: Switsur and Mellars 1987, CBA 14C Index

Lab.No.: Birm-348  5445±313 BP (3495 bc)
Material dated: shell [Patella sp.]  Certainty: C Closeness: B
Location and Comment: Date from L4, basal midden, on inner fraction of shell. Raw date
 = 5850±310 BP. Error exceeds ±160.
Bibliography: Switsur and Mellars 1987, CBA 14C Index

NR 3 Caoc Coig
Location: Oronsay  County/Region: Strathclyde  NGR: NR 361 885
Nature of site: shell midden  Site class: midden

Accepted dates

Lab.No.: Q-1352  5430±130 BP (3480 bc), 4530(4335)3990 cal.BC [2SD]
Material dated: charcoal  Certainty: C Closeness: C
Location and Comment: Date from upper midden. Trench E, unit 2.
Bibliography: Switsur and Mellars 1987

Lab.No.: Q-1351  5495±75 BP (3445 bc), 4490(4351)4164 cal.BC [2SD]
Material dated: charcoal  Certainty: C Closeness: C
Location and Comment: Date from upper midden. Trench A, unit 3.
Bibliography: Switsur and Mellars 1987

Lab.No.: Q-1354  5535±140 BP (3585 bc), 4720(4361)4040 cal.BC [2SD]
Material dated: charcoal  Certainty: C Closeness: C
Location and Comment: Date from lower midden. Trench E, unit 8.
Bibliography: Switsur and Mellars 1987
Lab.No.: Q-1353  5645±80 BP (3795 be), 4720(4492)4350 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from lower midden. Trench E, unit 6.
Bibliography: Switsur and Mellars 1987

Lab.No.: Q-3005  5650±60 BP (3700 be), 4680(4496)4360 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from pre-midden deposit, square N4.
Bibliography: Switsur and Mellars 1987

Lab.No.: Q-3006  5675±60 BP (3725 be), 4720(4515)4360 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from pre-midden deposit, square O4.
Bibliography: Switsur and Mellars 1987

NR 4 Cnoc Sligeach
Location: Oronsay  County/Region: Strathclyde  NGR: NR 373 889
Nature of site: shell midden  Site class: midden

Accepted dates
Lab.No.: BM-670  5426±159 BP (3476 be), 4663(4393)3827 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from upper midden, associated with "Obanian-type Mesolithic settlement."

Lab.No.: Birm-465a/b  5550±113 BP (3600 be), 4680(4365)4156 cal.BC [2SD]
Material dated: shell [Pecten sp.]  Certainty: C  Closeness: B
Location and Comment: Raw date = 5955±106 BP. Combined date for inner and middle fractions of shells from the occupation layer. Dates are close, therefore probably reliable.

Rejected dates
Lab.No.: GX-1903  5015±210 BP (3065 be)
Material dated: shell [Ostrea sp.]  Certainty: D  Closeness: B
Location and Comment: No precise stratigraphy is given for the dated sample. Error exceeds ±160.
Bibliography: Bishop 1914, Mellars and Payne 1971, Mackie 1972

Lab.No.: Birm-462a  5445±146 BP (3495 be)
Material dated: shell [Patella sp.]  Certainty: C  Closeness: B
Location and Comment: Date from storm beach, on inner fraction of shell. Raw date = 5850±140 BP. Considerable difference between fractions, suggests the dates are unreliable.

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Lab. No.: Birm-465b 5495±155 BP (3545 bc)
Material dated: shell [Pecten sp.] Certainty: C Closeness: B
Location and Comment: Date from occupation layer, on middle fraction of shell. Raw date = 5900±150 BP. Combined date used in preference.

Lab. No.: Birm-465a 5605±155 BP (3655 bc)
Material dated: shell [Pecten sp.] Certainty: C Closeness: B
Location and Comment: Date from occupation layer, on inner fraction of shell. Raw date = 6010±150 BP. Combined date used in preference.

Lab. No.: GX-1904 5755±180 BP (3805 bc)
Material dated: bone Certainty: D Closeness: A
Location and Comment: Date on bulk sample, no precise stratigraphy.
Bibliography: Bishop 1914, Mellars and Payne 1971, Mackie 1972

Lab. No.: Birm-462b 5985±165 BP (4035 bc)
Material dated: shell [Patella sp.] Certainty: C Closeness: B
Location and Comment: Date on middle fraction of shell, from storm beach. Raw date = 6390±160 BP. Considerable difference between fractions suggests the dates are unreliable.

NR 5 Glenbatrick Waterhole
Location: Jura
County/Region: Strathclyde
NGR: NR 518 798
Nature of site: occupation
Site class: occupation

Accepted single date

Lab. No.: GX-2563 4225±230 BP (2275 bc), 3500(2887,2792,2788)2148 cal.BC [2SD]
Material dated: charcoal [Quercus] Certainty: C Closeness: C
Location and Comment: Date from possible cooking pit. Error exceeds ±160. Considerable movement of artefacts in soil, so charcoal could be later contamination. Associated with Mesolithic narrow blade technology.
Bibliography: Mercer 1974a, 1974b, Morrison and Bonsall 1989

Lab. No.: GX-2564 5045±215 BP (3095 bc), 4350(3931,3876,3815)3370 cal.BC [2SD]
Material dated: charcoal Certainty: C Closeness: C
Location and Comment: Date from trough. Error exceeds ±160. No artefacts in the area of this feature.
Bibliography: Mercer 1974a, 1974b, Morrison and Bonsall 1985
NR 6 Lussa River
Location: Jura
Nature of site: occupation
County/Region: Strathclyde
Site class: occupation
NGR: NR 645 873

Accepted dates

Lab.No.: BM-555 4200±100 BP (2250 bc), 3040(2880,2798,2782)2498 cal.BC [2SD]
Material dated: charcoal  Certainty: C Closeness: C
Location and Comment: The date fits in the sequence of other dates. The relationship between the dated charcoal and the Mesolithic assemblage not very secure.
Bibliography: Mercer 1974a, Searight 1984, Barker et al 1971 p175

Lab.No.: BM-556 4620±140 BP (2670 bc), 3700(3368)2920 cal.BC [2SD]
Material dated: charcoal  Certainty: C Closeness: C
Location and Comment: The date fits in the sequence of other dates. The relationship between the dated charcoal and the Mesolithic assemblage not very secure.
Bibliography: Mercer 1974a, Searight 1984, Barker et al 1971 p175

NR 7 Priory midden
Location: Oronsay
Nature of site: shell midden
County/Region: Strathclyde
Site class: midden
NGR: NR 347 889

Accepted dates

Lab.No.: Q-3004 5470±50 BP (3520 bc), 4456(4345)4240 cal.BC [2SD]
Material dated: charcoal  Certainty: C Closeness: C
Location and Comment: Date from L7 shell layer. Fits very well with the stratigraphy.
Bibliography: Mellars 1987

Lab.No.: Q-3003 5510±50 BP (3560 bc), 4460(4355)4247 cal.BC [2SD]
Material dated: charcoal  Certainty: C Closeness: C
Location and Comment: Date from L9+10 occupation layer. Fits very well with the stratigraphy.
Bibliography: Mellars 1987

Lab.No.: Q-3002 5717±50 BP (3767 bc), 4720(4652,4649,4580)4460 cal.BC [2SD]
Material dated: charcoal  Certainty: C Closeness: C
Location and Comment: Date from L18 occupation layer. Fits very well with the stratigraphy.
Bibliography: Mellars 1987

Lab.No.: Q-3000 5825±50 BP (3875 bc), 4838(4724)4579 cal.BC [2SD]
Material dated: charcoal  Certainty: C Closeness: C
Location and Comment: Date from L19 charcoal lens. Fits very well with the stratigraphy.
Bibliography: Mellars 1987

Lab.No.: Q-3001 5870±50 BP (3920 bc), 4899(4779)4614 cal.BC [2SD]
Material dated: charcoal  Certainty: C Closeness: C
Location and Comment: Date from L19 charcoal lens. Fits very well with the stratigraphy.
Bibliography: Mellars 1987
NS 1. Meiklewood
Location: Carse of Stirling  County/Region: Central  NGR: NS 7260 9560
Nature of site: surface find  Site class: occupation

Accepted single date
Lab.No.: OxA-1159  5920±80 BP (3970 be), 5042(4833,4825,4795)4607 cal.BC [2SD]
Material dated: antler mattock  Certainty: A  Closeness: A
Location and Comment: Date on antler mattock.
Bibliography: Bonsall and Smith 1989, Hedges et al 1988a p159

NS 2. Shewanlon
Location: near Irvine  County/Region: Strathclyde  NGR: NS 3254 3720
Nature of site: surface find  Site class: occupation

Accepted single date
Lab.No.: OxA-1947  5840±80 BP (3890 be), 4934(4772,4759,4728)4510 cal.BC [2SD]
Material dated: antler point  Certainty: A  Closeness: A
Location and Comment: Dated point from the River Irvine.

NX 1. Barsalloch
Location: Barsalloch  County/Region: Dumfries and Galloway  NGR: NX 343 421
Nature of site: occupation site  Site class: occupation

Accepted single date
Lab.No.: GaK-1601  6000±110 BP (4050 be), 5230(4933,4925,4903)4680 cal.BC [2SD]
Material dated: charcoal  Certainty: B  Closeness: C
Location and Comment: Date from hearth below stone setting. No occupation above or
below Mesolithic settlement deposits reduces the chance of admixture.
Bibliography: Morrison 1982, Cormack 1970, CBA 14C Index

NX 2. Smittons
Location: Stewarty district  County/Region: Dumfries and Galloway  NGR: NX 635 918
Nature of site: inland site  Site class: occupation

Accepted single date
Lab.No.: OxA-1594  5470±80 BP (3520 be), 4470(4345,4049)4049 cal.BC [2SD]
Material dated: hazelnut shell  Certainty: C  Closeness: A
Location and Comment: Date from south end of "apparent occupation site." Very different
from OxA-1595, the other date from this site, but these dates came from different
trenches.
Bibliography: Hedges et al 1989 p217

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Rejected date

Lab.No.: OxA-1595  6260±80 BP (4310 bc), 5370(5234)4949 cal.BC [2SD]
Material dated: hazelnut shell  Certainty: C  Closeness: A
Location and Comment: Date from south end of "apparent occupation site."
Bibliography: Hedges et al 1989 p217

SD 1 Soyland Moor
Location: Littleborough  County/Region: West Yorkshire  NGR: SD 975 186
Nature of site: occupation  Site class: occupation

Accepted single date

Lab.No.: Q-2394  5820±95 BP (3870 bc), 4936(4722)4470 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date associated with Mesolithic occupation.
Bibliography: Williams 1985

SD 2 Williamson's Moss
Location: Newbiggin  County/Region: Cumbria  NGR: SD 08 93
Nature of site: settlement  Site class: occupation

Accepted dates

Lab.No.: GU-1664  5500±70 BP (3550 bc), 4490(4353)4169 cal.BC [2SD]
Location and Comment: Date from the old land surface.
Bibliography: Bonsall et al 1989

Lab.No.: UB-2712  5520±85 BP (3570 bc), 4530(4358)4166 cal.BC [2SD]
Location and Comment: Date from the old land surface.
Bibliography: Bonsall et al 1989

Lab.No.: UB-2545  5555±40 BP (3605 bc), 4491(4451,4438,4366)4344 cal.BC [2SD]
Location and Comment: Date from structure 1
Bibliography: Bonsall et al 1989

Lab.No.: UB-2546  5650±50 BP (3700 bc), 4667(4496)4360 cal.BC [2SD]
Location and Comment: Date from structure 1
Bibliography: Bonsall et al 1989

Lab.No.: UB-2544  6015±75 BP (4065 bc), 5205(4936,4919,4906)4780 cal.BC [2SD]
Material dated: charcoal [Quercus]  Certainty: B  Closeness: C
Location and Comment: Date from structure 1
Bibliography: Bonsall et al 1989

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Accepted single date

Lab.No.: UB-2713 5480±90 BP (3530 bc), 4510(4348)4047 cal.BC [2SD]  
Location and Comment: Date from structure 2.  
Bibliography: Bonsall et al 1989

SE 1 Dan Clough  
Location: March Hill, Marsden  
County/Region: West Yorkshire  
NGR: SE  
Nature of site: occupation  
Site class: occupation

Accepted single date

Lab.No.: GrN-12278 5750±70 BP (3800 bc), 4790(4664,4638,4601)4460 cal.BC [2SD]  
Material dated: charcoal [Quercus] Certainty: B Closeness: C  
Location and Comment: Date on charcoal from a stone-built hearth.  
Bibliography: Jacobi 1987 and pers. comm.

SE 2 Dunford Bridge B  
Location: Dunford Bridge  
County/Region: South Yorkshire  
NGR: SE 137 010  
Nature of site: occupation  
Site class: occupation

Accepted single date

Lab.No.: Q-799 5380±80 BP (3430 bc), 4360(4241)4002 cal.BC [2SD]  
Material dated: charcoal Certainty: B Closeness: C  
Location and Comment: Date from hearth associated with flint scatter including rod-like microliths. Pollen evidence suggests clearance activity at this level.  
Bibliography: Radley et al 1974, Switsur and Jacobi 1975, Switsur and West 1975a p45

SE 3 Lominot IV  
Location: Marsden  
County/Region: South Yorkshire  
NGR: SE 05 05  
Nature of site: occupation  
Site class: occupation

Accepted single date

Lab.No.: Q-1189 5610±120 BP (3660 bc), 4770(4463)4240 cal.BC [2SD]  
Material dated: charcoal Certainty: C Closeness: C  
Location and Comment: Dated material received thorough pre-treatment, and relates well to other sites in the area.  
Bibliography: Switsur and Jacobi 1975
**SE 4 March Hill**
Location: Marsden  
County/Region: West Yorkshire  
NGR: SE 008 128
Nature of site: occupation  
Site class: occupation

Accepted date
Lab.No.: Q-788  5850±80 BP (3900 bc),  4936(4774)4520 cal.BC [2SD]  
Material dated: charcoal  
Certainty: C  
Closeness: C
Location and Comment: Date from a layer of charcoal in a pit, associated with a narrow blade industry. Closely related stratigraphically to Q-1188.  
Bibliography: Switsur and Jacobi 1975, Radley 1974, Switsur and West 1975 p44

Rejected date
Lab.No.: Q-1188  6020±220 BP (4070 bc),  
Material dated: charcoal  
Certainty: C  
Closeness: C
Location and Comment: Date from a layer of charcoal in a pit, associated with narrow blade industry. Closely related stratigraphically to Q-788. Error exceeds ±160.  
Bibliography: Switsur and Jacobi 1975, Radley 1974, Switsur and West 1975 p44

**SE 5 Rocher Moss II**
Location: Marsden  
County/Region: West Yorkshire  
NGR: SE 03 09
Nature of site: occupation  
Site class: occupation

Accepted single date
Lab.No.: Q-1190  5830±100 BP (3880 bc),  4940(4725)4470 cal.BC [2SD]  
Material dated: charcoal  
Certainty: B  
Closeness: C
Location and Comment: Date from hearth, associated with rod-like microliths.  
Bibliography: Switsur and Jacobi 1975, CBA dates list

**SK 1 Thorpe Common III**
Location: Thorpe Salvin  
County/Region: South Yorkshire  
NGR: SK 529 794
Nature of site: rock shelter  
Site class: occupation

Accepted single date
Lab.No.: Q-1118  5680±150 BP (3730 bc),  4900(4519)4240 cal.BC [2SD]  
Material dated: bone  
Certainty: C  
Closeness: A
Location and Comment: Date from immediately under part of structure/wall, latest occupation on site. Associated with geometric microliths and several hearths.  
Bibliography: Moorhouse 1973 p201, Switsur and West 1975 p45

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SP 1 Stratford's Yard
Location: Chesham
County/Region: Buckinghamshire
NGR: SP 960 015
Nature of site: occupation
Site class: occupation

Accepted single date
Lab.No.: BM-2404  5890±100 BP (3940 bc), 5050(4784)4520 cal.BC [2SD]
Material dated: bone  Certainty: C Closeness: A
Location and Comment: Dated material associated with late Mesolithic flints.
Bibliography: Ambers et al 1987 p184

SR 1 Freshwater West
Location: Freshwater West
County/Region: Dyfed
NGR: SR 882 997
Nature of site: occupation
Site class: occupation

Accepted single date
Lab.No.: O-530  5960±120 BP (4010 bc), 5220(4895,4879,4849)4579 cal.BC [2SD]
Material dated: wood peat  Certainty: D Closeness: D
Location and Comment: Dated material associated with Mesolithic flint industry, does not conflict with the pollen evidence.
Bibliography: Wainwright 1963, Godwin and Willis 1964 p127

SS 1 Lydstep
Location: Lydstep
County/Region: Dyfed
NGR: SS 094 985
Nature of site: occupation
Site class: occupation

Accepted single date
Lab.No.: OxA-1412  5300±100 BP (3350 bc), 4350(4220,4200, 4147, 4110, 4088,
4060,4048)3825 cal.BC [2SD]
Material dated: bone [Sus]  Certainty: C Closeness: A
Location and Comment: Date on pig bones. 2 microliths were found in the peat directly above the neck vertebrae of the dated pig remains. The microliths were possibly embedded in the pig's neck when it died.

SU 1 Longmoor site I
Location: County/Region: Hampshire
NGR: SU 787 298
Nature of site: occupation
Site class: occupation

Accepted single date
Lab.No.: HAR-4475  6040±110 BP (4090 bc), 5230(4941)4720 cal.BC [2SD]
Material dated: charcoal [Quercus and Betula]  Certainty: C Closeness: C
Location and Comment: Date from lower part of gleyed podzol horizon associated with Mesolithic flints. Poor association with the artefacts.
Bibliography: Walker et al 1991
SU 2 Wakeford’s Copse
Location: Havant County/Region: Hampshire NGR: SU 7278 0914
Nature of site: occupation Site class: occupation

Accepted single date
Lab.No.: HAR-233 5680±120 BP (3730 bc), 4834(4519)4340 cal.BC [2SD]
Material dated: charcoal Certainty: C Closeness: C
Location and Comment: Date from hearth in basal fill of Mesolithic pit; a possible winter shelter. Associated with flints of late Mesolithic date.
Bibliography: Otlet 1977 p401

SU 3 Wawcott Farm I
Location: Newbury County/Region: Berkshire NGR: SU 389 676
Nature of site: occupation Site class: occupation

Accepted single date
Lab.No.: BM-449 5260±130 BP (3310 bc), 4360(4210)3780 cal.BC [2SD]
Material dated: decayed wood Certainty: C Closeness: C
Location and Comment: Date from "undisturbed pit dwelling", with Mesolithic flint artefacts.

SU 4 Wawcott Farm III
Location: Newbury County/Region: Berkshire NGR: SU 389 676
Nature of site: occupation Site class: occupation

Accepted single date
Lab.No.: BM-767 6120±134 BP (4170 bc), 5330(5193,5185,5062)4770 cal.BC [2SD]
Material dated: charcoal Certainty: C Closeness: C
Location and Comment: Date from middle deposit of pit with distinctive Mesolithic artefacts.

SU 5 Wawcott Farm XXIII
Location: Newbury County/Region: Berkshire NGR: SU 389 676
Nature of site: occupation Site class: occupation

Accepted single date
Lab.No.: BM-826 6079±113 BP (4129 bc), 5291(5036,5026,5000, 4953,4950)4770 cal.BC [2SD]
Material dated: charcoal Certainty: C Closeness: C
Location and Comment: Date from hearth associated with Mesolithic flint industry

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**SW 1 Windmill Farm**

Location: Lizard Peninsular  
County/Region: Cornwall  
NGR: SW 70 12

Nature of site: occupation  
Site class: occupation

Accepted single date

Lab.No.: HAR-5668  
5470±130 BP (3520 bc), 4658(4345)4000 cal.BC [2SD]

Material dated: charcoal [Quercus]  
Certainty: C  
Closeness: C

Location and Comment: Date from the fill of a Mesolithic feature.  
Bibliography: Walker *et al* 1988 p302

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**SY 1 Blashenwell**

Location: Corfe  
County/Region: Dorset  
NGR: SY 952 805

Nature of site: kitchen midden  
Site class: midden

Accepted dates

Lab.No.: BM-1258  
5425±150 BP (3475 bc), 4656(4334)3970 cal.BC [2SD]

Material dated: bone  
Certainty: D  
Closeness: A

Location and Comment: Date very poorly related to specific archaeological activity, not located by layer. Most artefacts in the midden are Mesolithic.  

Lab.No.: BM-1257  
5750±140 BP (3800 bc), 4940(4664,4638,4601)4340 cal.BC [2SD]

Material dated: bone  
Certainty: D  
Closeness: A

Location and Comment: Date very poorly related to specific archaeological activity, not located by layer. Most artefacts in the midden are Mesolithic.  

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**TO 1 Charlwood site I**

Location: Charlwood  
County/Region: Surrey  
NGR: TQ 24 41

Nature of site: pit  
Site class: occupation

Accepted dates

Lab.No.: HAR-4532  
5270±90 BP (3320 bc), 4340(4213,4207,4134,4125,4043)3823 cal.BC [2SD]

Material dated: charcoal  
Certainty: C  
Closeness: C

Location and Comment: Date from lower levels [35-40cm] of a pit containing Mesolithic flint and burnt bone. Dates correlate to their relative depth, but depth of the flints is not specified.  
Bibliography: Walker *et al* 1991 p89

Lab.No.: HAR-4533  
5640±90 BP (3690 bc), 4720(4470)4340 cal.BC [2SD]

Material dated: charcoal  
Certainty: C  
Closeness: C

Location and Comment: Date from lower levels [40-45cm] of a pit containing Mesolithic flint and burnt bone. Dates correlate to their relative depth but depth of the flints is not specified.  
Bibliography: Walker *et al* 1991 p89

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Rejected date

Lab.No.: HAR-4531  4340±100 BP (2390 bc),
Material dated: charcoal  Certainty: C Closeness: C
Location and Comment: Date from lower levels [30-35cm] of a pit containing Mesolithic flint and burnt bone. Dates correlate to their relative depth but depth of the flints is not specified.
Bibliography: Walker et al 1991 p89
Neolithic dates

**ND 1 Tulloch of Assery B**
Location: near Thurso, Caithness  
County/Region: Highland  
NGR: ND 067

| Nature of site: Cromarty chamber | Site class: funerary |

Accepted single date
Lab.No.: GU-1332  4965±60 BP (3015 bc), 3950(3779,3735,3719)3640 cal.BC [2SD]
Material dated: bone  
Certainty: C  
Closeness: A

Location and Comment: Date from the chamber.
Bibliography: Corcoran 1964-66, Kinnes

**NH 1 Raigmore**
Location: Inverness  
County/Region: Grampian  
NGR: NH 690 460

| Nature of site: Clava cairn? | Site class: funerary? |

Accepted single date
Lab.No.: SRR-188  4983±130 BP (3033 bc), 4038(3782)3388 cal.BC [2SD]
Material dated: carbonised wood  
Certainty: C  
Closeness: C
Location and Comment: Date from pit 14 outside kerb, so possibly earlier than the cairn. 
Associated with pottery and bone.
Bibliography: Harkness and Wilson 1974 p250

Lab.No.: SRR-424  5000±100 BP (3050 bc), 4031(3785)3542 cal.BC [2SD]
Material dated: charcoal  
Certainty: C  
Closeness: C
Location and Comment: Date from pit 151.
Bibliography: SURRC

Rejected date
Lab.No.: SRR-421  5270±650 BP (3320 bc),  
Material dated: charcoal  
Certainty: C  
Closeness: C
Location and Comment: Date from pit 136. Error exceeds ±160.
Bibliography: SURRC

**NJ 1 Boghead**
Location: Speymouth Forest  
County/Region: Grampian  
NGR: NJ 359 592

| Nature of site: pre-barrow occupation | Site class: occupation |

Accepted dates
Lab.No.: SRR-684  4823±60 BP (2873 bc), 3777(3637)3383 cal.BC [2SD]
Material dated: charcoal [Quercus]  
Certainty: C  
Closeness: C
Location and Comment: Date on large pieces of wood from black layer XIII, associated with Neolithic pottery and charred grain.
Bibliography: Burl 1984, CBA 14C Index
Lab.No.: SRR-686 4900±60 BP (2950 bc), 3901(3697)3532 cal.BC [2SD]
Material dated: charcoal  Certainty: C Closeness: C
Location and Comment: Date from layer XIII, associated with Neolithic pottery.
Bibliography: Burl 1984, CBA 14C Index

Lab.No.: SRR-683 4945±175 BP (2995 bc), 4220(3776,3747,3707)3360 cal.BC [2SD]
Material dated: charcoal [Quercus]  Certainty: C Closeness: C
Location and Comment: Date from central pit under layer XIII, associated with Neolithic pottery.
Bibliography: Burl 1984, CBA 14C Index

Lab.No.: SRR-689 4960±110 BP (3010 bc), 3990(3778,3738,3712)3517 cal.BC [2SD]
Material dated: charcoal  Certainty: C Closeness: C
Location and Comment: Date from layer XIII, associated with Neolithic pottery.
Bibliography: Burl 1984, CBA 14C Index

Rejected dates

Lab.No.: SRR-688 4124±200 BP (2174 bc),
Material dated: charcoal  Certainty: C Closeness: C
Location and Comment: Date from under XIII, seems anomalously late compared to the other dates.
Bibliography: Burl 1984, CBA 14C Index

Lab.No.: SRR-699 6006±60 BP (4050 bc),
Material dated: charcoal  Certainty: C Closeness: C
Location and Comment: Date from charcoal from old land surface under west cairn. The dated charcoal was associate with pottery, but was probably residual.
Bibliography: Burl 1984, CBA 14C Index

NJ 2 Midtown of Pitglassie
Location: Turriff  County/Region: Grampian
Nature of site: round barrow  Site class: funerary
NGR: NJ 702 435

Accepted single date

Lab.No.: GU-2014 4935±105 BP (2985 bc), 3980(3774,3754,3705)3388 cal.BC [2SD]
Material dated: charcoal  Certainty: B Closeness: C
Location and Comment: Date from cremation pit 1, a small pit below the ring cairn containing cremation material. Single date on short-lived tree species.
Bibliography: GU lab
NN 1 Pitnacree
Location: Aberfeldy
County/Region: Tayside
NGR: NN 928 533
Nature of site: pre-barrow activity
Site class: occupation

Accepted single date
Lab.No.: GaK-601 4810±90 BP (2860 bc), 3780(3633,3552,3549)3370 cal.BC [2SD]
Material dated: charcoal  Certainty: D Closeness: C
Location and Comment: Dates possible clearing of woodland by fire. 2 large post-holes pre-date the charcoal spread, associated with pottery and evidence of cultivation.
Bibliography: Coles and Simpson 1965

NO 1 Balbridie
Location: Crathes
County/Region: Grampian
NGR: NO 733 959
Nature of site: long house
Site class: occupation

Accepted dates
Lab.No.: GU-1035 4840±165 BP (2890 bc), 3990(3642)3137 cal.BC [2SD]
Material dated: charcoal  Certainty: C Closeness: C
Location and Comment: Date from post-hole

Lab.No.: GU-1037 4930±80 BP (2980 bc), 3950(3773,3758,3704)3528 cal.BC [2SD]
Material dated: charcoal  Certainty: C Closeness: C
Location and Comment: Date from post-hole

Lab.No.: OxA-1768 4940±70 BP (2990 bc), 3950(3775,3751,3706)3541 cal.BC [2SD]
Material dated: flax seeds  Certainty: C Closeness: A
Location and Comment: Date from feature related to house.

Lab.No.: GU-1832 4970±60 BP (3020 bc), 3960(3780,3731,3727)3640 cal.BC [2SD]
Material dated: charcoal  Certainty: C Closeness: C
Location and Comment: Date from feature 101, related to house.

Lab.No.: GU-1830 4970±75 BP (3020 bc), 3970(3780,3731,3727)3630 cal.BC [2SD]
Material dated: charcoal  Certainty: C Closeness: C
Location and Comment: Date from feature 5G, related to house.

Lab.No.: OxA-1769 5010±90 BP (3060 bc), 4000(3786)3640 cal.BC [2SD]
Material dated: crab apple pip  Certainty: C Closeness: A
Location and Comment: Date from feature related to house.

Lab.No.: GU-1831 5015±125 BP (3065 bc), 4212(3891,3890,3787)3528 cal.BC [2SD]
Material dated: charcoal  Certainty: C Closeness: C
Location and Comment: Date from feature 250, related to house. Between levels 3 and 4.
Lab. No.: GU-1038ii 5020±90 BP (3070 bc), 4031(3895,3887, 3810,3788)3640 cal.BC [2SD]
Material dated: charcoal  Certainty: C Closeness: C
Location and Comment: Date from post-hole

Lab. No.: GU-1828 5030±60 BP (3080 bc), 3990(3902,3883, 3812, 3792,3790)3700 cal.BC [2SD]
Material dated: charcoal  Certainty: C Closeness: C
Location and Comment: Date from feature 78, related to house. Between levels 1 and 2.

Lab. No.: GU-1038i 5160±100 BP (3210 bc), 4240(3988)3710 cal.BC [2SD]
Material dated: charcoal  Certainty: C Closeness: C
Location and Comment: Date from post-hole

Rejected dates

Lab. No.: GU-1036 4740±135 BP (2790 bc)
Material dated: charcoal  Certainty: C Closeness: C
Location and Comment: Date on feature related to the house.

Lab. No.: GU-1421 4745±160 BP (2795 bc)
Material dated: cereal grains  Certainty: A Closeness: A
Location and Comment: Date on feature related to house.

Lab. No.: GU-1829 4785±150 BP (2835 bc)
Material dated: charcoal  Certainty: C Closeness: C
Location and Comment: Date on feature related to the house.

Lab. No.: OxA-1767 4820±80 BP (2870 bc)
Material dated: cereal grains [Avena sp.]  Certainty: A Closeness: A
Location and Comment: Date on feature related to house.

NO 2. Inchtuthil
Location: near Perth  County/Region: Tayside  NGR: NO 125 395
Nature of site: long mortuary enclosure  Site class: funerary

Accepted dates

Lab. No.: GU-2761 5070±50 BP (3120 bc), 3990(3942,3850,3820)3719 cal.BC [2SD]
Material dated: charcoal [Quercus]  Certainty: B Closeness: C
Location and Comment: Date from burnt fence round rectangular enclosure, which possibly had a mortuary function.
Bibliography: Barclay and Maxwell 1989
Lab.No.: GU-2760  5160±70 BP (3210 bc), 4221(3988)3790 cal.BC [2SD]
Material dated: charcoal [Quercus]  Certainty: B  Closeness: C
Location and Comment: Date from burnt fence round rectangular enclosure, which possibly had a mortuary function.
Bibliography: Barclay and Maxwell 1989

**NR 1. Glenvoidean**
Location: Isle of Bute  County/Region: Strathclyde  NGR: NR 997 705
Nature of site: Clyde cairn  Site class: funerary

Accepted single date

Lab.No.: I-5974  4860±115 BP (2910 bc), 3950(3676,3663,3648)3370 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from under the west slab of main axial chamber. Associated with pottery usually dated c.2300bc.

**NR 2. Newton**
Location: Islay  County/Region: Strathclyde  NGR: NR 36 27
Nature of site: pits  Site class: occupation

Accepted dates

Lab.No.: GU-1952  4965±60 BP (3015 bc), 3950(3779,3735,3719)3640 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from fill of pit F3, containing Neolithic pottery. F3 and F4 were stratigraphically related by the latest fence groove, F3 was cut by the groove and F4 cut it.
Bibliography: McCullagh 1991

Rejected date

Lab.No.: GU-1951  4880±60 BP (2930 bc), 3790(3693)3523 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from fill of possible post-hole F4.
Bibliography: McCullagh 1991
NR 3 Port Charlotte
Location: Islay  County/Region: Strathclyde  NGR: NR 247 575
Nature of site: pre-cairn activity  Site class: occupation

Accepted date

Lab.No.: HAR-3487  5020±90 BP (3070 bc),  4031(3895,3887, 3810,3788)3640 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from the old land surface, dates occupation surface under the cairn
Bibliography: Harrington and Pierpoint 1980

Lab.No.: HAR-3486  4940±70 BP (2990 bc),  3950(3775,3751,3706)3541 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from the old land surface, dates occupation surface under the cairn
Bibliography: Harrington and Pierpoint 1980

Rejected date

Lab.No.: HAR-2836  4660±90 BP (2710 bc)
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from the old land surface, dates occupation surface under the cairn. Much later than the other 2 dates.
Bibliography: Harrington and Pierpoint 1980

NR 4 Temple Wood NE
Location: Kilmartin  County/Region: Strathclyde  NGR: NR 826 978
Nature of site: henge  Site class: other

Accepted single date

Lab.No.: GU-1296  5025±190 BP (3075 bc),  4328(3898,3885, 3811, 3801,3789)3370 cal.BC [2SD]
Material dated: charcoal [Quercus]  Certainty: C  Closeness: C
Location and Comment: Date from towards the bottom of the fill of socket No.8. Uncertain whether the charcoal came from a previous post in the socket, or from the activity of raising the stone. The latter seems most likely.
Bibliography: Scott 1991
**NS 1 Monamore**

Location: Arran  
County/Region: Strathclyde  
NGR: NS 0172 2887

Nature of site: Clyde cairn  
Site class: funerary

Accepted single date

Lab.No.: Q-675  5110±110 BP (3160 bc), 4228(3963,3834,3828)3690 cal.BC [2SD]
Material dated: charcoal  
Certainty: B  
Closeness: C
Location and Comment: Date from hearth in forecourt. Construction earlier than this date. Only 2 widely separated dates from this site.


Rejected date

Lab.No.: Q-676  4190±110 BP (2240 bc)
Material dated: charcoal  
Certainty: B  
Closeness: C
Location and Comment: Date from hearth in forecourt just under the blocking. End of period of use.


**NT 1 Biggar Common**

Location: Biggar  
County/Region: Borders  
NGR: NT 005 385

Nature of site: pre-barrow activity  
Site class: occupation

Accepted dates

Lab.No.: GU-2986  5150±70 BP (3200 bc), 4219(3983)3790 cal.BC [2SD]
Material dated: charcoal  
Certainty: C  
Closeness: C
Location and Comment: Date from the extensive burnt deposit, composing phase 3, lying directly under a long barrow. Grimston-type pottery was found within the burnt deposit.

Bibliography: Johnston in prep.

Lab.No.: GU-2985  5250±50 BP (3300 bc), 4234(4039,4010)3980 cal.BC [2SD]
Material dated: charcoal  
Certainty: C  
Closeness: C
Location and Comment: Date from the extensive burnt deposit, composing phase 3, lying directly under a long barrow. Grimston-type pottery was found within the burnt deposit.

Bibliography: Johnston in prep.

Rejected dates

Lab.No.: GU-2988  6080±60 BP (4130 bc), 5220(5037,5025, 5000, 4951,4950)4847 cal.BC [2SD]
Material dated: charcoal  
Certainty: B  
Closeness: C
Location and Comment: Date from a burnt stake forming part of the phase 1 structure. Not associated with artefacts.

Bibliography: Johnston in prep.
Lab.No.: GU-2987  6300±130 BP (4350 bc), 5490(5240)4908 cal.BC [2SD]
Material dated: charcoal  Certainty: B  Closeness: C
Location and Comment: Date from a burnt stake forming part of the phase 1 structure. Not associated with artefacts.
Bibliography: Johnston in prep.

Lab.No.: ***-***  6119±54 BP (4169 bc), 5230(5192,5186,5062)4903 cal.BC [2SD]
Location and Comment: Weighted average of GU-2987 and 2988
Bibliography: Johnston in prep.

NT 2. Thirlings
Location: Woofer  County/Region: Northumberland  NGR: NT 956 322
Nature of site: settlement  Site class: occupation

Accepted single date

Lab.No.: HAR-877  5230±150 BP (3280 bc), 4360(4035,4018,4005)3703 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from post pit F366, associated with Grimston/Lyles Hill ware.
Bibliography: Miket 1976, CBA 14C Index

NT 3. Yeavering
Location: Yeavering  County/Region: Northumberland  NGR: NT 928 304
Nature of site: henge  Site class: other

Accepted single date

Lab.No.: HAR-3063  4890±90 BP (2940 bc), 3944(3695)3385 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from central pit.
Bibliography: Hope-Taylor 1977, Kinnes

NX 1. Lochhill
Location: New Abbey  County/Region: Dumfries and Galloway  NGR: NX 968
Nature of site: long barrow  Site class: funerary

Accepted single date

Lab.No.: I-6409  5070±105 BP (3120 bc), 4216(3942,3850,3820)3648 cal.BC [2SD]
Material dated: charcoal  Certainty: B  Closeness: C
Location and Comment: Date on planks from floor of the mortuary structure.
Bibliography: Masters 1973, CBA 14C Index
NY 1 Plasketlands

Location: Mawbray  County/Region: Cumbria  NGR: NY 08 46
Nature of site: enclosure  Site class: enclosure

Accepted dates

Lab.No.: GU-2571  4810±60 BP (2860 bc), 3775(3633,3552,3549)3381 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from post pit, external to the enclosure, presumably from the post itself.
Bibliography: Bewley pers. com., GU lab

Lab.No.: GU-2573  4940±90 BP (2990 bc), 3970(3775,3751,3706)3525 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from same context as GU-2571.
Bibliography: Bewley pers. com., GU lab

Lab.No.: GU-2572  5090±60 BP (3140 bc), 4032(3951,3842,3824)3720 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from well sealed layer in fill of a post pit, one of several external to the ditched enclosure.
Bibliography: Bewley pers. com., GU lab

NZ 1 Street House

Location: Saltburn  County/Region: Cleveland  NGR: NZ 7365 1962
Nature of site: long barrow  Site class: funerary

Accepted dates

Lab.No.: BM-2013R  4840±130 BP (2890 bc), 3960(3642)3350 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from the facade.

Lab.No.: BM-1969N  4940±60 BP (2990 bc), 3941(3775,3751,3706)3630 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from the chamber.

Lab.No.: BM-1966R  4940±110 BP (2990 bc), 3990(3775,3751,3706)3387 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from the chamber.

Lab.No.: BM-1967R  4940±110 BP (2990 bc), 3990(3775,3751,3706)3387 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from the chamber.

Lab.No.: BM-2011R  4960±120 BP (3010 bc), 4031(3778,3738,3712)3387 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from the old land surface.
Lab.No.: BM-2012R 4960±120 BP (3010 BC), 4031(3778,3738,3712)3387 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from the old land surface.

Lab.No.: BM-1968R 4970±110 BP (3020 BC), 4000(3780,3731,3727)3521 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from the chamber.

Lab.No.: BM-2014R 4970±120 BP (3020 BC), 4032(3780,3731,3727)3389 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from the facade.

Lab.No.: BM-2061N 5080±60 BP (3130 BC), 4031(3946,3846,3822)3709 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from the facade. Very closely dated group.

SD 1 Williamson's Moss
Location: Newbiggin  County/Region: Cumbria  NGR: SD 08 93
Nature of site: settlement  Site class: occupation

Accepted single date

Lab.No.: UB-2711 4925±165 BP (2975 BC), 4040(3772,3761,3703)3360 cal.BC [2SD]
Material dated: charcoal  Certainty: B  Closeness: C
Location and Comment: Date from hearth.
Bibliography: Bonsall et al 1989

SE 1 Callis Wold
Location: Bishop's Wilton  County/Region: Humberside  NGR: SE 832 559
Nature of site: long barrow  Site class: funerary

Accepted single date

Lab.No.: BM-1170 4933±64 BP (2983 BC), 3941(3774,3756,3704)3543 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from facade trench. "Dates compare favourably" to other similar structures. Associated with Trowthorpe ware.
Bibliography: Coombs 1976, Burleigh and Matthews 1982 p152
SE 2 East Heslerton
Location: Malton  County/Region: North Yorkshire  NGR: SE 938 753
Nature of site: long barrow  Site class: funerary

Accepted dates
Lab.No.: HAR-7029  4920±90 BP (2970 bc), 3960(3771, 3764, 3702)3516 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from post in the facade trench.
Bibliography: Walker et al 1990 p180-1

Lab.No.: HAR-7030  5020±70 BP (3070 bc), 4038(3895, 3887, 3788)3543 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from post in the facade trench.
Bibliography: Walker et al 1990 p180-1

Lab.No.: HAR-7031  5020±110 BP (3070 bc), 4038(3895, 3887, 3788)3543 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from post in the facade trench.
Bibliography: Walker et al 1990 p180-1

Rejected date
Lab.No.: HAR-7032  4640±70 BP (2690 bc)
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from same context as HAR-7029,30,31 but seems rather late compared to these.
Bibliography: Walker et al 1990 p180-1

SE 3 Garton Slack 37
Location: Great Driffield  County/Region: Humberside  NGR: SE 957 597
Nature of site: long barrow  Site class: funerary

Accepted dates
Lab.No.: NPL-194  5045±150 BP (3095 bc), 4232(3931, 3876, 3815)3520 cal.BC [2SD]
Material dated: charcoal [Quercus]  Certainty: B  Closeness: C
Location and Comment: Date from cremation furnace. Consistent with stratigraphy.
Bibliography: Brewster 1976, CBA 14C Index

Lab.No.: NPL-195  5060±150 BP (3110 bc), 4240(3938, 3867, 3818)3526 cal.BC [2SD]
Material dated: charcoal [Quercus]  Certainty: B  Closeness: C
Location and Comment: Date associated with cremation burial. Consistent with stratigraphy.
Bibliography: Brewster 1976, CBA 14C Index
SE 4 Raisthorpe Manor
Location: Thixendale  County/Region: North Yorkshire  NGR: SE 852 624
Nature of site: long barrow  Site class: funerary

Accepted date
Lab.No.: HAR-8783  5070±60 BP (3120 bc), 4000(3942,3850,3820)3707 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from upper level of facade bedding. The other date from this site [NPL-140] appears to be anomalous.
Bibliography: Walker et al 1991 p107

Rejected date
Lab.No.: NPL-140  5505±145 BP (3555 bc)
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from the facade. Seems anomalous compared to HAR-8783 and other dates for long barrows.
Bibliography: Kinnes

SE 5 Whitegrounds
Location: Norton  County/Region: North Yorkshire  NGR: SE 782 682
Nature of site: mound  Site class: funerary

Accepted single date
Lab.No.: HAR-5580  4950±90 BP (3000 bc), 3980(3776,3744,3708)3529 cal.BC [2SD]
Material dated: human bone  Certainty: A  Closeness: A
Location and Comment: Date on primary burial.
Bibliography: Kinnes

SH 1 Bedd Branwen
Location: Llanbabo, Anglesey  County/Region: Gwynedd  NGR: SH 3615 8498
Nature of site: pre-barrow occupation  Site class: occupation

Accepted single date
Lab.No.: BM-452  4923±75 BP (2973 bc), 3946(3772,3762,3702)3530 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from shallow pit under the barrow, pre-dates clearance activity associated with the barrow. No associated finds.
SH 2 Llandegai
Location: Bangor County/Region: Gwynedd NGR: SH 594 712
Nature of site: pre-henge occupation Site class: occupation
Accepted single date
Lab.No.: NPL-223 5240±150 BP (3290 bc), 4360(4037,4014,4008)3705 cal.BC [2SD]
Material dated: charcoal Certainty: C Closeness: C
Location and Comment: Date from post-hole in association with plain bowls. Possibly contemporary with henge A, henge B is dated later.
Bibliography: Houlder 1968, Jacobi 1980

SH 3 Trefignath
Location: Holyhead, Anglesey County/Region: Gwynedd NGR: SH 259 805
Nature of site: pre-tomb activity Site class: occupation
Accepted single date
Lab.No.: HAR-3932 5050±70 BP (3100 bc), 4000(3933,3874,3816)3700 cal.BC [2SD]
Material dated: charcoal Certainty: C Closeness: C
Location and Comment: Date associated with 4 features and pottery and worked flint directly under the second phase of the cairn. This activity may be contemporary with the first cairn phase.
Bibliography: Smith and Lynch 1987

SJ 1 Beeston Castle
Location: Bunbury County/Region: Cheshire NGR: SJ 538 593
Nature of site: enclosure Site class: enclosure
Accepted single date
Lab.No.: HAR-6462 5140±90 BP (3190 bc), 4226(3979)3710 cal.BC [2SD]
Material dated: charcoal [Quercus] Certainty: C Closeness: C
Location and Comment: Date from lowest fill of earliest cut of N prehistoric ditch, sealed in part by colluvial sands." Stratigraphically earlier than other dated samples.
Bibliography: Walker and Otlet 1988 p305

SJ 2 Moel-y-Gaer
Location: Rhosesmor County/Region: Clwyd NGR: SJ 211 691
Nature of site: pre-fort occupation Site class: occupation
Accepted single date
Lab.No.: SRR-497 4940±40 BP (2990 bc), 3903(3775,3751,3706)3645 cal.BC [2SD]
Material dated: charcoal Certainty: C Closeness: C
Location and Comment: Date from gully forming the boundary of a small knapping floor. Burnt stones in the gully.
Bibliography: SURRC
SK 1 Hognaston
Location: Hognaston
County/Region: Derbyshire
NGR: SK 245 517
Nature of site: pre-barrow activity
Site class: occupation

Accepted single date

Lab.No.: BM-2421 4930±60 BP (2980 bc), 3937(3773,3758,3704)3545 cal.BC [2SD]
Material dated: charcoal [various] Certainty: C Closeness: B
Location and Comment: Date from a pit sealed beneath barrow. In association with
Neolithic vessel. Sample is a mixture of Tilia, grass and moss.
Bibliography: Ambers et al 1989 p16

SK 2 Liffs Low
Location: Hartington Nether Quarter
County/Region: Derbyshire
NGR: SK 1514 5764
Nature of site: pre-barrow occupation
Site class: occupation

Accepted date

Lab.No.: OxA-2290 5000±80 BP (3050 bc), 3990(3785)3640 cal.BC [2SD]
Material dated: charcoal Certainty: C Closeness: C
Location and Comment: Date from pit below the barrow, associated with other pits and
stake-holes. Other charcoal from the mound, and presumably from the pre-barrow
activity, produced very similar dates.
Bibliography: Hedges et al 1991a p127

Rejected dates

Lab.No.: OxA-2291 4850±80 BP (2900 bc)
Material dated: charcoal Certainty: C Closeness: C
Location and Comment: Date from barrow that contained a late Neolithic burial. Probably
residual from pre-barrow activity.
Bibliography: Hedges et al 1991a p127

Lab.No.: OxA-2354 4960±70 BP (3010 bc)
Material dated: charcoal Certainty: C Closeness: C
Location and Comment: Date from barrow that contained a late Neolithic burial. Probably
residual from pre-barrow activity.
Bibliography: Hedges et al 1991a p127

Lab.No.: OxA-2355 5270±70 BP (3320 bc)
Material dated: charcoal Certainty: C Closeness: C
Location and Comment: Date from barrow that contained a late Neolithic burial. Probably
residual from pre-barrow activity.
Bibliography: Hedges et al 1991a p127

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SK 3 Lismorc Fields
Location: Buxton
County/Region: Derbyshire
Nature of site: house
Site class: occupation
NGR: SK 050 731

Accepted dates

Lab.No.: OxA-2437 4840±70 BP (2890 bc), 3780(3642)3383 cal BC [2SD]
Material dated: charcoal [hazel]  Certainty: C Closeness: B
Location and Comment: Date from post-hole of Building I.
Bibliography: Hedges et al 1991b p287-8

Lab.No.: OxA-2438 4920±80 BP (2970 bc), 3950(3771,3764,3702)3524 cal BC [2SD]
Material dated: cereal grains + charcoal  Certainty: C Closeness: B
Location and Comment: Date from post-hole of Building I.
Bibliography: Hedges et al 1991b p287-8

Lab.No.: *** 4923±35 BP (2973 bc), 3786(3772,3762,3702)3642 cal BC [2SD]
Location and Comment: Weighted mean of dates from Building I.
Bibliography: Hedges et al 1991b p287-8

Lab.No.: OxA-2434 4930±70 BP (2980 bc), 3945(3773,3758,3704)3537 cal BC [2SD]
Material dated: cereal grains [Triticum sp.]  Certainty: A Closeness: A
Location and Comment: Date from post-hole of Building I.
Bibliography: Hedges et al 1991b p287-8

Lab.No.: OxA-2436 4970±70 BP (3020 bc), 3970(3780,3731,3727)3640 cal BC [2SD]
Material dated: seeds [Linus sp.]  Certainty: C Closeness: A
Location and Comment: Date from post-hole of Building I.
Bibliography: Hedges et al 1991b p287-8

Accepted single date

Lab.No.: OxA-2433 5270±100 BP (3320 bc), 4350(4213,4207,4134,4125,4043)3819 cal BC [2SD]
Material dated: mixed charcoal  Certainty: C Closeness: C
Location and Comment: Date from post-hole; associated with a ring slot. "surprisingly early" date. Similar slots have associated post-holes with mean of 4774±43 BP.
Bibliography: Hedges et al 1991b p287-8

SN 1 Covgan Camp
Location: Laugharne
County/Region: Dyfed
Nature of site: occupation
Site class: occupation
NGR: SN 284 092

Accepted single date

Lab.No.: NPL-132 5000±95 BP (3050 bc), 4000(3785)3547 cal BC [2SD]
Material dated: hazelnut shells  Certainty: C Closeness: A
Location and Comment: Date from well sealed pit, associated with plain bowl sherds. Single date.
Bibliography: Wainwright 1967, Calow and Hassall 1968 p117
SO 1 Gwernvale
Location: Crickhowell County/Region: Powys NGR: SO 211 192
Nature of site: pre-cairn activity Site class: occupation

Accepted single date
Lab.No.: CAR-113 5050±80 BP (3100 bc), 4032(3933,3874,3816)3690 cal.BC [2SD]
Material dated: charcoal Certainty: C Closeness: C
Location and Comment: Date from pit F68 from beneath the cairn, associated with early Neolithic pottery. Single date.

SO 2 Pen-y-Wyrllod
Location: Brecknock County/Region: Powys NGR: SO 151 316
Nature of site: Severn-Cotswold tomb Site class: funerary

Accepted single date
Lab.No.: HAR-674 4970±80 BP (3020 bc), 3980(3780,3731,3727)3546 cal.BC [2SD]
Material dated: human bone Certainty: A Closeness: A
Location and Comment: Date from charnel deposit in chamber NEII, bulk sample so could be from different periods of use. Single date.

SP 1 Ascott-under-Wychwood
Location: Ascott-under-Wychwood County/Region: Oxfordshire NGR: SP 299 176
Nature of site: pre-barrow occupation Site class: occupation

Accepted dates
Lab.No.: BM-491b 4893±70 BP (2943 bc), 3910(3696)3521 cal.BC [2SD]
Material dated: charcoal Certainty: C Closeness: C
Location and Comment: Date from first phase of pre-barrow Neolithic occupation. Sample from pit 7.

Lab.No.: BM-1976R 4930±100 BP (2980 bc), 3980(3773,3758,3704)3389 cal.BC [2SD]
Material dated: human bone Certainty: A Closeness: A
Location and Comment: Date on burial in barrow, dates the use of the barrow.

Lab.No.: BM-832 4942±74 BP (2992 bc), 3950(3775,3749,3706)3539 cal.BC [2SD]
Material dated: charcoal Certainty: C Closeness: C
Location and Comment: Date from burnt structure in barrow. Possibly residual charcoal.
Bibliography: Benson 1971, Burleigh et al 1976 p19

Lab.No.: BM-833 5020±92 BP (3070 bc), 4031(3895,3887,3810,3788)3640 cal.BC [2SD]
Material dated: charcoal Certainty: C Closeness: C
Location and Comment: Date from burnt structure in barrow. Possibly residual charcoal.
Bibliography: Benson 1971, Burleigh et al 1976 p19
Rejected dates

Lab.No.: BM-492  4735±70 BP (2785 bc)
Material dated: charcoal  Certainty: C Closeness: C
Location and Comment: Date from phase 2 of pre-barrow occupation. From charcoal in turf line.
Bibliography: Benson 1971, Holgate 1988

Lab.No.: BM-835  5198±224 BP (3248 bc)
Material dated: charcoal  Certainty: C Closeness: C
Location and Comment: Date from primary fill of ditch. Excessive error.
Bibliography: Benson 1971, Burleigh et al 1976 p19

SP 2 Grendon
Location: Northampton  County/Region: Northamptonshire  NGR: SP 873
617
Nature of site: post circle?  Site class: other

Accepted single date

Lab.No.: HAR-1498  4950±80 BP (3000 bc), 3970(3776,3744,3708)3537 cal.BC [2SD]
Material dated: charcoal [Quercus]  Certainty: C Closeness: C
Location and Comment: Date from feature 63. From post-hole, part of possible post circle which may have been constructed before the square enclosure.
Bibliography: Gibson and McCormick 1985

Rejected date

Lab.No.: HAR-1497  4700±130 BP (2750 bc),
Material dated: charcoal [Quercus]  Certainty: C Closeness: C
Location and Comment: Date from feature 35. From ditch of square enclosure.
Bibliography: Gibson and McCormick 1985

SP 3 Hazleton North
Location: Hazleton  County/Region: Gloucestershire  NGR: SP 073 189
Nature of site: long cairn  Site class: funerary

Accepted dates

Lab.No.: HAR-8349  4830±60 BP (2880 bc), 3978(3639)3384 cal.BC [2SD]
Material dated: antler  Certainty: C Closeness: A
Location and Comment: Date from context 463, base of cairn infill.
Bibliography: Walker et al 1990 p194

Lab.No.: OxA-906  4880±70 BP (2930 bc), 3900(3693)3516 cal.BC [2SD]
Material dated: human bone  Certainty: A Closeness: A
Location and Comment: Date on burial in south entrance. Earliest dates from a closely dated group.

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Lab.No.: HAR-8350  4950±60 BP (3000 bc), 3945(3776,3774,3708)3640 cal.BC [2SD]
Location and Comment: Date from context 85, primary fill of north quarry. Fragment of antler tool probably used to dig the quarry.
Bibliography: Walker et al 1990 p194

Lab.No.: OxA-905  4950±70 BP (3000 bc), 3950(3776,3744,3708)3546 cal.BC [2SD]
Material dated: human bone  Certainty: A  Closeness: A
Location and Comment: Date on burial in north chamber. Earliest dates from a closely dated group.

Lab.No.: OxA-913  4960±70 BP (3010 bc), 3960(3778,3738,3712)3630 cal.BC [2SD]
Material dated: bone  Certainty: C  Closeness: A
Location and Comment: Date from the forecourt. Earliest dates from a closely dated group.

Lab.No.: OxA-914  4970±60 BP (3020 bc), 3970(3780,3731,3727)3640 cal.BC [2SD]
Material dated: bone  Certainty: C  Closeness: A
Location and Comment: Date from the forecourt. Earliest dates from a closely dated group.

Lab.No.: OxA-910  5000±70 BP (3050 bc), 3980(3785)3650 cal.BC [2SD]
Material dated: human bone  Certainty: A  Closeness: A
Location and Comment: Date on burial in south passage. Earliest dates from a closely dated group.

Lab.No.: OxA-646  4880±80 BP (2930 bc), 3932(3693)3387 cal.BC [2SD]
Material dated: bone  Certainty: C  Closeness: A
Location and Comment: Date from pre-barrow activity. Earliest dates from a closely dated group.

Lab.No.: OxA-739  4915±80 BP (2965 bc), 3950(3771,3768,3700)3522 cal.BC [2SD]
Material dated: bone  Certainty: C  Closeness: A
Location and Comment: Date from pre-barrow activity. Earliest dates from a closely dated group.
Lab.No.: OxA-738 4970±80 BP (3020 bc), 3980(3780,3731,3727)3546 cal.BC [2SD]
Material dated: bone  Certainty: C  Closeness: A
Location and Comment: Date from pre-barrow activity. Earliest dates from a closely dated group.

Rejected date

Lab.No.: OxA-912 5220±150 BP (3270 bc)
Material dated: human bone  Certainty: A  Closeness: A
Location and Comment: Date on burial in south chamber. Rather early for context.

ST 1 Hambledon Hill
Location: Blandford  County/Region: Dorset  NGR: ST 847 121
Nature of site: causewayed enclosure  Site class: enclosure

Accepted date

Lab.No.: HAR-2370 5220±110 BP (3270 bc), 4340(4033,4022,4003)3780 cal.BC [2SD]
Material dated: charcoal [Quercus]  Certainty: C  Closeness: C
Location and Comment: Dated charcoal found lying directly on solid floor of the ditch.

Rejected date

Lab.No.: HAR-1886 4840±150 BP (2890 bc)
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from ditch. Other dates are later, this one seems to be anomalous.
Bibliography: Mercer 1975, 1980

ST 2 Hambury
Location: Honiton  County/Region: Devon  NGR: ST 112 030
Nature of site: causewayed enclosure  Site class: enclosure

Accepted single dates

Lab.No.: BM-130 5100±150 BP (3150 bc), 4321(3957,3838,3826)3543 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from primary ditch fill. Compares well with the Windmill Hill dates. Single date.
Bibliography: Fox 1963, Barker and Mackey 1963 p106
Lab.No.: BM-136 5190±150 BP (3240 bc), 4350(3996)3690 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from a "burn Neolithic layer" containing hearths and other occupation evidence. Single date.
Bibliography: Fox 1963, Barker and Mackey 10 1968 p2

Rejected date
Lab.No.: BM-138 5280±150 BP (3330 bc)
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from ditch fill, stratigraphically later than BM-130 therefore it seems too old, possible old wood effect.
Bibliography: Fox 1963, Barker and Mackey 10 1968 p2

ST 3 Post Track
Location: Shapwick Heath  County/Region: Somerset  NGR: ST 423 404
Nature of site: working platform  Site class: track

Accepted dates

Dendrochronological date: 3838 ABC
Material dated: wood  Certainty: A  Closeness: A
Location and Comment: Date of death of a timber using dendrochronology. Working platform for construction of the Sweet Track.
Bibliography: Hillam et al 1990

ST 4 Shapwick Heath
Location: Shapwick Heath  County/Region: Somerset  NGR: ST 423 404
Nature of site: axe site  Site class: occupation

Accepted single date
Lab.No.: Q-423 5510±120 BP (3560 bc), 4665(4355)4042 cal.BC [2SD]
Material dated: peat  Certainty: D  Closeness: D
Location and Comment: Date on peat associated with the axe site at the clay/peat boundary 287cm below the surface.
Bibliography: Orme 1982, Godwin and Willis 1961 p60

ST 5 Sweet Track
Location: Shapwick Heath  County/Region: Somerset  NGR: ST 422 403
Nature of site: trackway  Site class: track

Accepted dates

Dendrochronological date: 3800 ABC
Material dated: wood  Certainty: A  Closeness: A
Location and Comment: Date of death of a track timber using dendrochronology.
Bibliography: Hillam et al 1990
Dendrochronological date: 3804 ABC
Material dated: wood  Certainty: A  Closeness: A
Location and Comment: Date of death of a track timber using dendrochronology.
Bibliography: Hillam et al 1990

Dendrochronological date: 3806 ABC
Material dated: wood  Certainty: A  Closeness: A
Location and Comment: Date of death of the majority of track timbers using dendrochronology.
Bibliography: Hillam et al 1990

Lab.No.: HAR-1475 5020±100 BP (3070 bc), 3939(3895,3887, 3810,3788)3781 cal.BC [2SD]
Material dated: wood  Certainty: A  Closeness: C
Location and Comment: Date on wood from track.
Bibliography: Coles and Jones 1975, Otlet and Walker 1979 p363-4

Lab.No.: HAR-1384 5030±90 BP (3080 bc), 4032(3902,3883, 3812, 3792,3790)3640 cal.BC [2SD]
Material dated: wood  Certainty: A  Closeness: C
Location and Comment: Date on wood from track.
Bibliography: Coles and Jones 1975, Otlet and Walker 1979 p363-4

Lab.No.: HAR-1472 5070±80 BP (3120 bc), 4036(3942,3850,3820)3700 cal.BC [2SD]
Material dated: wood  Certainty: A  Closeness: C
Location and Comment: Date on wood from track. Rootlet infestation.
Bibliography: Coles and Jones 1975, Otlet and Walker 1979 p363-4

Lab.No.: Q-1103 5103±100 BP (3153 bc), 4222(3958,3837,3827)3700 cal.BC [2SD]
Material dated: peat  Certainty: D  Closeness: D
Location and Comment: Date on peat between rails and planks of the track.
Bibliography: Coles 1973, Switsur and West 1975 p43

Lab.No.: HAR-1469 5110±90 BP (3160 bc), 4219(3963,3834,3828)3703 cal.BC [2SD]
Material dated: wood  Certainty: A  Closeness: C
Location and Comment: Date on wood from track.
Bibliography: Coles and Jones 1975, Otlet and Walker 1979 p363-4

Lab.No.: HAR-1476 5110±90 BP (3160 bc), 4219(3963,3834,3828)3703 cal.BC [2SD]
Material dated: wood  Certainty: A  Closeness: C
Location and Comment: Date on wood from track. Rootlet infestation.
Bibliography: Coles and Jones 1975, Otlet and Walker 1979 p363-4

Lab.No.: Q-1102 5140±100 BP (3190 bc), 4231(3979)3705 cal.BC [2SD]
Material dated: peat  Certainty: D  Closeness: D
Location and Comment: Date on peat under the track
Bibliography: Coles 1973, Switsur and West 1975 p43

Lab.No.: Q-967 5108±65 BP (3158 bc), 4038(3962,3834,3828)3780 cal.BC [2SD]
Material dated: peat  Certainty: D  Closeness: D
Location and Comment: Date on peat over upper timbers
Bibliography: Coles 1973, Switsur and West 1973 p543


Rejected dates

Lab.No.: SRR-881 4405±45 BP (2455 bc) Material dated: peat Certainty: D Closeness: D Location and Comment: Date on peat from monolith taken for pollen analysis. Sample from below the track. Too late in comparison with other dates. Bibliography: Orme 1982


ST 6 Thickthorn Down
Location: Gussage St. Michael  County/Region: Dorset  NGR: ST 971 123
Nature of site: long barrow  Site class: funerary

Accepted single date

Lab.No.: BM-2355  5160±45 BP (3210 bc), 4040(3988)3819 cal.BC [2SD]
Material dated: antler  Certainty: C  Closeness: A
Location and Comment: Date from surface of buried soil. Single date with some possible
of contamination. May have come from pre-barrow activity
p180

SU 1 Abingdon
Location: Abingdon  County/Region: Oxfordshire  NGR: SU 511 983
Nature of site: causewayed camp  Site class: enclosure

Accepted date

Lab.No.: BM-350  4910±110 BP (2960 bc), 3980(3699)3382 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from layer 18 From primary fill of inner ditch recut. Fits
well in stratigraphical sequence. Possible rubbish from first settlement.

Rejected dates

Lab.No.: BM-354  4450±145 BP (2500 bc)
Material dated: bone  Certainty: C  Closeness: A
Location and Comment: Date from layer 4, fill of recut.

Lab.No.: BM-355  4460±140 BP (2510 bc)
Location and Comment: Date from layer 3, fill of recut.

Lab.No.: BM-352  4710±135 BP (2760 bc)
Material dated: bone [possible artefact]  Certainty: A  Closeness: A
Location and Comment: Date on possible artefact from layer 13, fill of recut of inner ditch.

Lab.No.: BM-348  4730±135 BP (2780 bc)
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from layer 17, primary fill of inner ditch recut.

Lab.No.: BM-353  4970±130 BP (3020 bc)
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from layer 5 From fill of recut. Too old in relation to the
stratigraphy.

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Lab.No.: BM-351  5060±130 BP (3110 bc)
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from layer 13. From inner ditch recut. Too old in relation to stratigraphy.

Lab.No.: BM-349  6020±110 BP (4070 bc)
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from layer 16. From inner ditch. Too early "must relate to intrusive older material".

SU 2 Barrow Hills
Location: Radley  County/Region: Oxfordshire  NGR: SU 5135 9815
Nature of site: pit, possibly ritual?  Site class: occupation?
Accepted single date

Lab.No.: OxA-1881  5140±100 BP (3190 bc), 4231(3979)3705 cal.BC [2SD]
Material dated: antler  Certainty: C  Closeness: A
Location and Comment: Date from primary fill of large pit located outside linear barrow cemetery. Single date.
Bibliography: Bradley and Holgate 1984, Hedges et al 1990b p218-9

SU 3 Cannon Hill
Location: Bray  County/Region: Berkshire  NGR: SU 8964 7926
Nature of site: shaft/well  Site class: other
Accepted single date

Lab.No.: HAR-1198  5270±110 BP (3320 bc), 4350(4213,4207, 4134, 4125,4043)3815 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date on thin charcoal layer in upper fill of shaft, associated with Grimston ware and both Neolithic and Mesolithic flints. Possible residual charcoal or old wood effect. Single date.
Bibliography: Bradley et al 1975/6, Otlet and Walker 1979 p372

SU 4 Coneybury
Location: Coneybury Hill  County/Region: Wiltshire  NGR: SU 1342 4160
Nature of site: pre-henge pit  Site class: occupation
Accepted single date

Lab.No.: OxA-1402  5050±100 BP (3100 bc), 4040(3933,3874,3816)3640 cal.BC [2SD]
Material dated: bone  Certainty: C  Closeness: A
Location and Comment: Date from primary deposit of large, early Neolithic pit. Butchery marks on bone, associated with pottery and flint.
SU 5 Corhampton
Location: Corhampton  County/Region: Hampshire  NGR: SU 609 202
Nature of site: occupation  Site class: occupation

Accepted single date

Lab.No.: BM-1889R  4910±120 BP (2960 be), 3990(3699)3430 cal.BC [2SD]
Material dated: bone  Certainty: C  Closeness: A
Location and Comment: Date on cranial bone of *Bos prim*, found in association with Windmill Hill style pottery during digging of a drainage ditch.
Bibliography: Burleigh *et al* 1983 p40

SU 6 Court Hill
Location: Singleton  County/Region: West Sussex  NGR: SU 898 138
Nature of site: enclosure  Site class: enclosure

Accepted single date

Lab.No.: I-12893  5420±180 BP (3470 be), 4711(4333,4273,4259)3818 cal.BC [2SD]
Material dated: bone [domestic sp.]  Certainty: A  Closeness: A
Location and Comment: Date from floor of ditch. Small sample size resulted in large error. Single date.
Bibliography: Bedwin 1984, Kinnes

SU 7 Dorchester
Location: Dorchester  County/Region: Oxfordshire  NGR: SU 57 94
Nature of site: cursus?  Site class: other

Accepted single date

Lab.No.: OxA-119  4800±130 BP (2850 be), 3647(3629,3560,3544)3521 cal.BC [2SD]
Material dated: human skull  Certainty: C  Closeness: A
Location and Comment: Date on skull fragment from pit close to east end of Dorchester cursus. Pit possibly near entrance to early D-shaped enclosure on to which cursus was added.
Bibliography: Bradley 1986, Gillespie *et al* 1984 p17

SU 8 Drayton cursus
Location: Abingdon  County/Region: Oxfordshire  NGR: SU 491 943
Nature of site: cursus  Site class: other

Accepted date

Lab.No.: HAR-6477/8  4885±70 BP (2935 be), 3904(3694)3518 cal.BC [2SD]
Material dated: bone  Certainty: C  Closeness: A
Location and Comment: Mean date from the combination of HAR 6477 + 6478 which are both from the primary ditch fill.
Bibliography: Bradley 1986
Rejected dates

Lab.No.: HAR-6478 4780±100 BP (2830 bc)
Material dated: bone  Certainty: C  Closeness: A
Location and Comment: Date from primary ditch fill.

Lab.No.: HAR-6477 4990±100 BP (3040 bc)
Material dated: bone  Certainty: C  Closeness: A
Location and Comment: Date from primary ditch fill. Mean date used in preference because of considerable difference between the two dates from this context.

Lab.No.: OxA-2075 4940±80 BP (2990 bc), 3960(3775,3751,3706)3533 cal.BC [2SD]
Material dated: charcoal [Quercus]  Certainty: C  Closeness: C
Location and Comment: Date from tree-throw hole. Possibly associated with clearance episode prior to cursus construction. Mean dates for cursus c.4730 BP so possible old wood effect. Anthropogenic cause of the charcoal cannot be demonstrated, could have been a tree destroyed by a lightning strike.
Bibliography: Hedges et al 1990b p221

SU 9 Fuscell's Lodge
Location: near Salisbury
Nature of site: long barrow
County/Region: Wiltshire
Site class: funerary
NGR: SU 192 324

Accepted single date

Lab.No.: BM-134 5180±150 BP (3230 bc), 4350(3994)3690 cal.BC [2SD]
Material dated: charcoal [Quercus]  Certainty: B  Closeness: B
Location and Comment: Dated sample from a branch c.5cm diameter. Charcoal covering the primary burials, probably from the mortuary house. Associated with Mildenhall pottery.
Bibliography: Ashbee 1964, 1966, Barker and Mackey 1968 p2

SU 10 Horslip
Location: Avebury
Nature of site: long barrow
County/Region: Wiltshire
Site class: funerary
NGR: SU 087 714

Accepted single date

Lab.No.: BM-180 5190±105 BP (3240 bc), 4322(3996)3780 cal.BC [2SD]
Material dated: antler  Certainty: C  Closeness: A
Location and Comment: Date from primary fill of ditch.

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SU 11 Lambourn
Location: Lambourn  County/Region: Berkshire  NGR: SU 323 824
Nature of site: long barrow  Site class: funerary

Accepted single date

Lab.No.: GX-1178  5365±180 BP (3415 bc), 4655(4237)3790 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from lower ditch fill. Either counting error or old wood effect seem likely. Single date.
Bibliography: Wymer 1970, 1965-6, CBA 14C Index

SU 12 Long Down
Location: Eartham  County/Region: West Sussex  NGR: SU 9313 0924
Nature of site: flint mine  Site class: mine

Accepted dates

Lab.No.: OxA-1151  4900±100 BP (2950 bc), 3960(3697)3383 cal.BC [2SD]
Material dated: antler pick  Certainty: A  Closeness: A
Location and Comment: Date from spoil heap. The location of the pick was stratigraphically secure, and associated with in situ knapping debris and pottery.

Lab.No.: OxA-1152  5050±100 BP (3100 bc), 4040(3933,3874,3816)3640 cal.BC [2SD]
Material dated: bone  Certainty: C  Closeness: A
Location and Comment: Date from spoil heap. The location of the pick was stratigraphically secure, and associated with in situ knapping debris and pottery.

SU 13 Mount Farm
Location: High Wycombe  County/Region: Buckinghamshire  NGR: SU 853 968
Nature of site: occupation  Site class: occupation

Accepted dates

Lab.No.: HAR-4821  5030±90 BP (3080 bc), 4032(3902,3883,3812,3792,3790)3640 cal.BC [2SD]
Material dated: antler  Certainty: C  Closeness: A
Location and Comment: Date from pit associated with Peterborough ware which is usually dated c.2700bc and later.
Bibliography: Kinnes

Lab.No.: HAR-4819  5120±110 BP (3170 bc), 4231(3969)3700 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from pit associated with Peterborough ware which is usually dated c.2700bc and later.
Bibliography: Kinnes
SU 14 Trundle
Location: Chichester  County/Region: West Sussex  NGR: SU 877 111
Nature of site: causewayed enclosure  Site class: enclosure

Accepted dates
Lab.No.: I-11612  4860±100 BP (2910 be), 3940(3676,3663,3648)3380 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from L3 of ditch fill.
Bibliography: Curwen 1929, Drewett and Bedwin 1981

Lab.No.: I-11615  5240±140 BP (3290 be), 4360(4037,4014,4008)3710 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from L4 of ditch fill.
Bibliography: Curwen 1929, Drewett and Bedwin 1981

SU 15 Windmill Hill
Location: Avebury  County/Region: Wiltshire  NGR: SU 087 714
Nature of site: pre-enclosure occupation  Site class: occupation

Accepted single date
Lab.No.: BM-73  4910±150 BP (2960 be), 4032(3699)3360 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from occupation surface under the outer bank of the enclosure. Single date.
Bibliography: Smith 1959, Barker and Mackey 1961 p42

SW 1 Carn Brea
Location: Redruth  County/Region: Cornwall  NGR: SW 684 407
Nature of site: enclosure  Site class: enclosure

Accepted date
Lab.No.: BM-825  4999±64 BP (3049 be), 3980(3785)3650 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from post-hole in Neolithic structural complex. Fits with other dates.

SW 2 Poldowrian
Location: Lizard Peninsular  County/Region: Cornwall  NGR: SW 748 169
Nature of site: occupation  Site class: occupation

Accepted single dates
Lab.No.: HAR-4052  4870±130 BP (2920 be), 3980(3691)3360 cal.BC [2SD]
Material dated: charcoal [Quercus]  Certainty: C  Closeness: C
Location and Comment: Date from pit 128.
Bibliography: Smith and Harris 1982
Lab.No.: HAR-4323  5180±150 BP (3230 bc), 4350(3994)3690 cal.BC [2SD]
Material dated: charcoal [oak + hawthorn]  Certainty: C  Closeness: C
Location and Comment: Date from pit 106, associated with plain pottery and leaf-shaped arrowhead.
Bibliography: Smith and Harris 1982

SX 1  Hazard Hill
Location: Totnes  County/Region: Devon  NGR: SX 755 595
Nature of site: enclosure  Site class: enclosure
Accepted single date

Lab.No.: BM-149  4920±150 BP (2970 bc), 4034(3771,3764,3702)3370 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from a pit in the occupation area outside the enclosure.
Bibliography: Houlder 1963, Barker and Mackey 1968 p2

SY 1  High Peak
Location: Sidmouth  County/Region: Devon  NGR: SY 103 859
Nature of site: occupation  Site class: occupation
Accepted single date

Lab.No.: BM-214  4810±150 BP (2860 bc), 3970(3633,3552,3549)3137 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from a pit. Neolithic occupation sealed under Dark Age rampart. Single date.
Bibliography: Barker et al 1969 p287

SY 2  Maiden Castle
Location: Dorchester  County/Region: Dorset  NGR: SY 668 885
Nature of site: causewayed enclosure  Site class: enclosure
Accepted dates

Lab.No.: OxA-1338  4930±90 BP (2980 bc), 3970(3773,3758,3704)3520 cal.BC [2SD]
Material dated: human bone  Certainty: C  Closeness: A
Location and Comment: Date from ditch. Closely dated group.

Lab.No.: OxA-1337  5030±80 BP (3080 bc), 4000(3902,3883, 3812, 3792,3790)3690 cal.BC [2SD]
Material dated: bone  Certainty: C  Closeness: A
Location and Comment: Date from ditch. Closely dated group.

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Lab.No.: BM-2450/A  5032±38 BP (3082 bc), 3967(3904,3882,3812)3708 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from bottom of ditch. Closely dated group. Combined date of BM-2450 and BM-2450A.
Bibliography: Hedges et al 1988b p295-6

Lab.No.: BM-2449  5040±60 BP (3090 bc), 3990(3910,3878,3814)3701 cal.BC [2SD]
Material dated: charcoal [Quercus]  Certainty: C  Closeness: C
Location and Comment: Date from bottom of ditch. Closely dated group.

Rejected dates
Lab.No.: BM-2450  5020±50 BP (3070 bc)
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Combined date for BM-2450 and BM-2450a used in preference to the individual dates.

Lab.No.: BM-2450a  5050±60 BP (3100 bc)
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Recount of BM-2450. Combined date used in preference.

SY 3 Rowden
Location: Rowden  County/Region: Dorset  NGR: SY 630 895
Nature of site: post pit  Site class: occupation

Accepted dates
Lab.No.: HAR-5248  4860±70 BP (2910 bc), 3790(3676,3663,3648)3387 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from large post pit, rather wide spread dates but three earliest overlap considerably, possible old wood effect.

Lab.No.: HAR-5247  4940±70 BP (2990 bc), 3950(3775,3751,3706)3541 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from large post pit, rather wide spread dates but three earliest overlap considerably, possible old wood effect.

Lab.No.: HAR-5246  5250±140 BP (3300 bc), 4360(4039,4010)3724 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from large post pit, rather wide spread dates but three earliest overlap considerably, possible old wood effect.
Rejected date

Lab.No.: HAR-5245 4690±70 BP (2740 bc)
Material dated: charcoal  Certainty: C Closeness: C
Location and Comment: Date from same pit as HAR-5248,7,6 but seems rather late compared to these.

TA 1 Aytont East Field
Location: East Aytont  County/Region: North Yorkshire  NGR: TA 000 864
Nature of site: round barrow  Site class: funerary

Accepted single date

Lab.No.: NPL-73 5030±90 BP (3080 bc), 4032(3902,3883, 3812, 3792,3790)3640 cal.BC [2SD]
Material dated: charcoal [Quercus]  Certainty: C Closeness: C
Location and Comment: Date from the old land surface under stone wall enclosing the barrow. Dates construction. Single date.
Bibliography: Vatcher 1961, Callow et al 1965 p157

TA 2 Grindale I
Location: Bridlington  County/Region: Humberside  NGR: TA 1489 7043
Nature of site: barrow  Site class: funerary

Accepted single date

Lab.No.: HAR-269 4910±120 BP (2960 bc), 3990(3699)3430 cal.BC [2SD]
Material dated: antler [red deer]  Certainty: C Closeness: A
Location and Comment: Dated material resting on the floor of the inner ditch, contemporary with digging. Compares well with dates for similar barrows in the area. Single date.
Bibliography: Manby 1980, Otlet 1977 p403

TA 3 Seamer Moor, barrow I
Location: Scarborough  County/Region: North Yorkshire  NGR: TA 0196 8617
Nature of site: barrow  Site class: funerary

Accepted single dates

Lab.No.: HAR-8786 4990±90 BP (3040 bc), 3990(3783)3546 cal.BC [2SD]
Material dated: charcoal  Certainty: C Closeness: C
Location and Comment: Date from a shallow grave pit.
Bibliography: Walker et al 1991 p107
Lab.No.: HAR-8785  5260±100 BP (3310 bc), 4340(4210)3817 cal.BC [2SD]  
Material dated: charcoal  Certainty: C  Closeness: C  
Location and Comment: Date from in situ red stones near the hearth. Sealed under the body of the mound so dates final deposition of barrow mound. 
Bibliography: Walker et al 1991 p107

**TA  4 Willerby Wold** 
Location: Bridlington  County/Region: North Yorkshire  NGR: TA 029 760  
Nature of site: long barrow  Site class: funerary

Accepted dates

Lab.No.: BM-188  4900±150 BP (2950 bc), 4000(3697)3360 cal.BC [2SD]  
Material dated: charcoal [Quercus]  Certainty: C  Closeness: C  
Location and Comment: Date from crematorium deposit  

Lab.No.: BM-189  4960±150 BP (3010 bc), 4211(3778,3738,3712)3380 cal.BC [2SD]  
Material dated: charcoal [Quercus]  Certainty: C  Closeness: C  
Location and Comment: Date on large timber from pit under the crematorium deposit old wood effect likely.  

**TF  1 Ash Hill** 
Location: Swinehope  County/Region: Lincolnshire  NGR: TF 209 962  
Nature of site: long barrow  Site class: funerary

Accepted single date

Lab.No.: HAR-9450  4970±100 BP (3020 bc), 3990(3780,3731,3727)3529 cal.BC [2SD]  
Material dated: bone  Certainty: C  Closeness: A  
Location and Comment: Date on sample AH 175. Fragment of cattle bone from basal fill of the ditch. Dates construction of barrow.  
Bibliography: Phillips and Walker 1989

**TF  2 Giant's Hill 2** 
Location: Skendleby  County/Region: Lincolnshire  NGR: TF 429 709  
Nature of site: long barrow  Site class: funerary

Accepted dates

Lab.No.: CAR-822  4970±100 BP (3020 bc), 3990(3780,3731,3727)3529 cal.BC [2SD]  
Material dated: charcoal [Quercus]  Certainty: C  Closeness: C  
Location and Comment: Date from north post pit. Closely dated group.  
Bibliography: Evans and Simpson 1986, Gowlett et al 1987 p141

Lab.No.: CAR-821  5100±80 BP (3150 bc), 4211(3957,3838,3826)3705 cal.BC [2SD]  
Material dated: charcoal [Quercus]  Certainty: C  Closeness: C  
Location and Comment: Date from north post pit. Closely dated group.  
Bibliography: Evans and Simpson 1986, Gowlett et al 1987 p141
Rejected dates

Lab.No.: OxA-639 4650±80 BP (2700 bc)
Material dated: human skull  Certainty: A  Closeness: A
Location and Comment: Date on skull 7. Date construction and use of mound.
Bibliography: Evans and Simpson 1986, Gowlett et al 1987 p141

Lab.No.: HAR-1850 4700±80 BP (2750 bc)
Material dated: antler [Cervus]  Certainty: C  Closeness: A
Location and Comment: Date from bottom of quarry ditch.
Bibliography: Evans and Simpson 1986, Gowlett et al 1987 p141

Lab.No.: OxA-640 4770±80 BP (2820 bc)
Material dated: human skull  Certainty: A  Closeness: A
Location and Comment: Date on skull 8. Date construction and use of mound.
Bibliography: Evans and Simpson 1986, Gowlett et al 1987 p141

Lab.No.: HAR-1869 5090±80 BP (3140 bc)
Material dated: antler [Cervus]  Certainty: C  Closeness: A
Location and Comment: Date from bottom of quarry ditch. Too early compared to other dates for ditch and mound, probably residual.
Bibliography: Evans and Simpson 1986, Gowlett et al 1987 p141

Lab.No.: OxA-641 5450±80 BP (3500 bc)
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from a facade post. Seems too early for context, possible old wood effect.
Bibliography: Evans and Simpson 1986, Gowlett et al 1987 p141

TF 3 Hoe Hill
Location: Swinhope  County/Region: Lincolnshire  NGR: TF 215 963
Nature of site: long barrow  Site class: funerary

Accepted single date

Lab.No.: HAR-6400 4930±100 BP (2980 bc), 3980(3773,3758,3704)3389 cal.BC [2SD]
Material dated: bone  Certainty: C  Closeness: A
Location and Comment: Date on cattle vertebra from level UU, primary silt, of the ditch.
Dates construction or early post construction.
TF 4 Spong Hill
Location: North Elmham County/Region: Norfolk NGR: TF 980 197
Nature of site: settlement Site class: occupation
Accepted single dates
Lab.No.: BM-1534 4950±120 BP (3000 bc), 4000(3776,3744,3708)3385 cal.BC [2SD]
Material dated: charcoal Certainty: C Closeness: C
Location and Comment: Date on bulk sample including wood charcoal and acorns, from a variety of post-holes and periglacial features containing contemporary pottery [decorated bowl ware].
Lab.No.: BM-1535 4990±80 BP (3040 bc), 3990(3783)3640 cal.BC [2SD]
Material dated: charcoal Certainty: C Closeness: C
Location and Comment: Date from fill of irregular feature [118], associated with undiagnostic pottery and worked flint.

TF 5 Tattershall Thorpe
Location: Tattershall County/Region: Lincolnshire NGR: TF 237 608
Nature of site: settlement Site class: occupation
Accepted single date
Lab.No.: HAR-4638 5100±50 BP (3150 bc), 4031(3957,3838,3826)3780 cal.BC [2SD]
Material dated: charcoal Certainty: C Closeness: C
Location and Comment: Date from pit.
Bibliography: Kinnis

TG 1 Eaton Heath
Location: Norwich County/Region: Norfolk NGR: TG 212 060
Nature of site: pit Site class: occupation?
Accepted single date
Lab.No.: BM-770 5095±49 BP (3145 bc), 4000(3954,3840,3825)3780 cal.BC [2SD]
Material dated: charcoal Corylus + Betula Certainty: C Closeness: B
Location and Comment: Date on bulked sample of Corylus and Betula. Associated with Mildenhall pottery. From a pit probably earlier than the main shaft.

Rejected dates
Lab.No.: BM-774 4903±56 BP (2953 bc)
Material dated: charcoal Quercus Certainty: C Closeness: C
Location and Comment: Date from top of shaft, associated with late Neolithic pottery. Out of sequence.
Lab.No.: BM-771  6256±59 BP (4306 bc)
Material dated: charcoal [Quercus]  Certainty: C  Closeness: C
Location and Comment: Date on residual charcoal. Too early for associated pottery.

**TL 1 Haddenham**
Location: Haddenham  County/Region: Cambridgeshire  NGR: TL 411 733
Nature of site: causewayed enclosure  Site class: enclosure

Accepted single date

Lab.No.: HAR-8092  4970±60 BP (3020 bc), 3990(3780,3731,3727)3537 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from the ditch.

**TL 2 Haddenham long barrow**
Location: Haddenham  County/Region: Cambridgeshire  NGR: TL 419 767
Nature of site: long barrow  Site class: funerary

Accepted dates

Lab.No.: HAR-9174  4930±60 BP (2980 bc), 3937(3773,3758,3704)3545 cal.BC [2SD]
Material dated: wood  Certainty: A  Closeness: C
Location and Comment: Date from timber mortuary chamber. 2 very close dates.

Lab.No.: HAR-9175  4950±70 BP (3000 bc), 3950(3776,3744,3708)3546 cal.BC [2SD]
Material dated: wood  Certainty: A  Closeness: C
Location and Comment: Date from timber mortuary chamber. 2 very close dates.

**TL 3 Little Waltham**
Location: Little Waltham  County/Region: Essex  NGR: TL 736 129
Nature of site: occupation  Site class: occupation

Accepted single date

Lab.No.: HAR-1087  5120±130 BP (3170 bc), 4240(3969)3648 cal.BC [2SD]
Material dated: charcoal  Certainty: B  Closeness: C
Location and Comment: Date from hearth pit containing plain pottery. Associated with 2
linear features, possibly foundations for structures.

152
TL 4 Peacocks Farm
Location: Shippea Hill
County/Region: Cambridgeshire
NGR: TL 640 840
Nature of site: occupation
Site class: occupation

Accepted dates

Lab.No.: Q-525/6 4870±120 BP (2920 BC), 3970(3691)3370 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from occupation layer. Two samples amalgamated.

Lab.No.: Q-527/8 4950±120 BP (3000 BC), 4000(3776,3744,3708)3385 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from occupation layer. Two samples amalgamated.

Lab.No.: CAR-790 4970±80 BP (3020 BC), 3980(3780,3731,3727)3546 cal.BC [2SD]
Material dated: bone [Cervus]  Certainty: C  Closeness: A
Location and Comment: Date from close to the basal sands

Rejected date

Lab.No.: Q-584 5465±120 BP (3515 BC)
Material dated: peat  Certainty: D  Closeness: D
Location and Comment: Date on peat "at level presumed to be the base of the Neolithic culture."

TM 1 Broome Heath
Location: Ditchingham
County/Region: Norfolk
NGR: TM 344 912
Nature of site: pre-enclosure occupation
Site class: occupation

Accepted single date

Lab.No.: BM-679 5424±117 BP (3474 BC), 4500(4334,4270)4000 cal.BC [2SD]
Material dated: charcoal [Quercus]  Certainty: C  Closeness: C
Location and Comment: Date from base of the old land surface under the enclosure bank. Associated with Neolithic pottery. Possible old wood effect.

Rejected date

Lab.No.: BM-755 4167±78 BP (2217 BC)
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from surface of the old land surface under the enclosure bank. Associated with Neolithic pottery. Too late compared to the enclosure dates.
**TO 1 Blackpatch**  
Location: Worthing  
County/Region: West Sussex  
NGR: TQ 094 089  
Nature of site: flint mine  
Site class: mine

Accepted single date

Lab.No.: BM-290  \(5090\pm 130\) BP (3140 bc), 4233(3951,3842,3824)3640 cal.BC [2SD]  
Material dated: antler  
Certainty: C  
Closeness: A  
Location and Comment: Date on fragment of antler from shaft fill.  
Bibliography: Goodman 1924, Barker et al 1969 p286

**TO 2 Church Hill**  
Location: Findon  
County/Region: West Sussex  
NGR: TQ 112 083  
Nature of site: flint mine  
Site class: mine

Accepted single date

Lab.No.: BM-181  \(5340\pm 150\) BP (3390 bc), 4490(4230,4191,4163)3813 cal.BC [2SD]  
Material dated: antler  
Certainty: C  
Closeness: A  
Location and Comment: Date from mine shaft.  
Bibliography: Barker et al 1969 p285

**TO 3 Harrow Hill**  
Location: Worthing  
County/Region: West Sussex  
NGR: TQ 080 100  
Nature of site: flint mine  
Site class: mine

Accepted dates

Lab.No.: BM-2071R  \(4900\pm 120\) BP (2950 bc), 3980(3697)3380 cal.BC [2SD]  
Material dated: charcoal  
Certainty: C  
Closeness: C  
Location and Comment: Date from the shaft. Closely dated group.  

Lab.No.: BM-182  \(4930\pm 150\) BP (2980 bc), 4036(3773,3758,3704)3370 cal.BC [2SD]  
Material dated: antler pick  
Certainty: A  
Closeness: A  
Location and Comment: Date from the shaft. Closely dated group.  

Lab.No.: BM-2075R  \(5020\pm 110\) BP (3070 bc), 4038(3895,3887,3810,3788)3543 cal.BC [2SD]  
Material dated: charcoal  
Certainty: C  
Closeness: C  
Location and Comment: Date from the shaft. Closely dated group.  

Lab.No.: BM-2099R  \(5040\pm 120\) BP (3090 bc), 4216(3910,3878,3814)3543 cal.BC [2SD]  
Material dated: antler  
Certainty: C  
Closeness: A  
Location and Comment: Date from the shaft. Closely dated group.  
Lab.No.: BM-2124R  5060±190 BP (3110 be), 4340(3938,3867,3818)3380 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from the shaft. Closely dated group.

Lab.No.: BM-2097R  5140±150 BP (3190 be), 4340(3979)3640 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from the shaft. Closely dated group.

Rejected date

Lab.No.: BM-2098R  5350±150 BP (3400 be),
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from the shaft. Seems rather early for context.

TO 4  Offham Hill
Location: Lewes  County/Region: East Sussex  NGR: TQ 399 118
Nature of site: causewayed enclosure  Site class: enclosure

Accepted single date

Lab.No.: BM-1414  4925±80 BP (2975 be), 3950(3772,3761,3703)3526 cal.BC [2SD]
Material dated: charcoal [Quercus]  Certainty: C  Closeness: C
Location and Comment: Date from L4 primary ditch fill.
Bibliography: Drewett 1977, Drewett and Bedwin

Rejected date

Lab.No.: BM-2790  4740±60 BP (2790 be),
Material dated: charcoal [Quercus]  Certainty: C  Closeness: C
Location and Comment: Date from L3 ditch fill.
Bibliography: Drewett 1977, Drewett and Bedwin 1981

TO 5  Runnymede Bridge
Location: Egham  County/Region: Surrey  NGR: TQ 018 719
Nature of site: settlement  Site class: occupation

Accepted dates

Lab.No.: HAR-6128  4920±80 BP (2970 be), 3950(3771,3764,3702)3524 cal.BC [2SD]
Material dated: wood  Certainty: D  Closeness: C
Location and Comment: Date from brushwood deposit in river channel, associated with Early Neolithic pottery. Pits and post-holes nearby.
Bibliography: Field and Cotton 1987, Needham and Trott 1987

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Material dated: wood  Certainty: D  Closeness: C
Location and Comment: Date from brushwood deposit in river channel, associated with Early Neolithic pottery. Pits and post-holes nearby.
Bibliography: Field and Cotton 1987, Needham and Trott 1987
Dates not attributable to either period

NS 1 Inveravon
Location: near Grangemouth  County/Region: Central  NGR: NS 951 798
Nature of site: shell midden  Site class: midden

Accepted dates

Lab.No.: GX-2332  4200±120 BP (2250 bc), 3094(2880,2798,2782)2470 cal.BC [2SD]
Material dated: shell  Certainty: C  Closeness: B
Location and Comment: Date from middle of midden.
Bibliography: MacKie 1972, CBA 14C Index

Lab.No.: GX-2333  4245±140 BP (2295 bc), 3330(2895)2470 cal.BC [2SD]
Material dated: shell  Certainty: C  Closeness: B
Location and Comment: Date from top of midden.
Bibliography: MacKie 1972, CBA 14C Index

Lab.No.: GX-2334  5955±180 BP (4005 bc), 5299(4895,4881,4847)4460 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from occupation level.
Bibliography: MacKie 1972, CBA 14C Index

Lab.No.: GX-2331  6010±180 BP (4060 bc), 5330(4935,4921,4905)4490 cal.BC [2SD]
Material dated: shell  Certainty: C  Closeness: B
Location and Comment: Date from basal context.
Bibliography: MacKie 1972, CBA 14C Index

Lab.No.: GU-1887  5110±60 BP (3160 bc), 4036(3963,3834,3828)3780 cal.BC [2SD]
Location and Comment: Date from top midden layer exposed in pipe trench.
Bibliography: Discovery Excav Scot 1985 p6, GU lab

Lab.No.: GU-1886  5435±60 BP (3485 bc), 4452(4337)4050 cal.BC [2SD]
Location and Comment: Date from basal layer of midden exposed in pipe trench.
Bibliography: Discovery Excav Scot 1985 p6, GU lab

SH 1 Brenig Valley
Location: Brenig Valley  County/Region: Clywd  NGR: SH 982 572
Nature of site: pre-barrow occupation  Site class: occupation

Accepted single date

Lab.No.: HAR-1436  5120±100 BP (3170 bc), 4226(3969)3701 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from pit 28. No diagnostic flint in pre-barrow features, except for pit 19 which produced a Mesolithic date, therefore no reason to assume that the other features are Mesolithic.

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SX 1 Three Holes
Location: Torbryan caves  County/Region: Devon  NGR: SX 814 675
Nature of site: rock shelter  Site class: occupation

Accepted single date

Lab.No.: I-549  4450±200 BP (2500 bc), 3650(3096,3053,3048)2580 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from layer 5, the assemblage from which is dominated by a microlithic flint industry, but pressure flaked arrowheads, pottery, and sheep remains are also present. Probable post-depositional disturbance.
Bibliography: Rosenfield 1964

SZ 1 Gallibury Down
Location: Calbourne  County/Region: Isle of Wight  NGR: SZ 442 855
Nature of site: pre-barrow occupation  Site class: occupation

Accepted single date

Lab.No.: BM-2231R  5330±110 BP (3380 bc), 4451(4228,4194,4159)3827 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from in and around post-hole 100u. Represents pre-barrow activity. No associated finds. Single date.
Bibliography: Ambers et al 1985 p516, Bowman et al 1990 p71

TF 1 Tattershall Thorpe
Location: Tattershall  County/Region: Lincolnshire  NGR: TF 237 608
Nature of site: settlement  Site class: occupation

Accepted single date

Lab.No.: HAR-4639  5820±60 BP (3870 bc), 4893(4722)4530 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from a post-hole, possibly anomalous.
Bibliography: Kinnes

TO 1 High Rocks shelter F
Location: Tunbridgewells  County/Region: Kent  NGR: TO 553 420
Nature of site: rock shelter  Site class: occupation

Accepted single dates

Lab.No.: BM-40  5660±150 BP (3710 bc), 4896(4504)4230 cal.BC [2SD]
Material dated: charcoal  Certainty: B  Closeness: C
Location and Comment: Date on period II hearth in association with Mesolithic flints and pottery. Pollen evidence suggests Neolithic date but hearths appear undisturbed.
Lab.No.: BM-91  5730±150 BP (3780 bc), 4940(4657,4645,4585)4330 cal.BC [2SD]
Material dated: charcoal  Certainty: B  Closeness: C
Location and Comment: Date on period III hearth in association with Mesolithic flints and pottery. Pollen evidence suggests Neolithic date but hearths appear undisturbed. Pottery TL dated to Neolithic.

TQ 2 Staines
Location: Staines  County/Region: Surrey  NGR: TQ 0300 7150
Nature of site: surface find  Site class: other
Accepted single date
Lab.No.: OxA-1158  5350±100 BP (3400 bc), 4451(4233,4183,4167)3980 cal.BC [2SD]
Material dated: antler pick  Certainty: A  Closeness: A
Location and Comment: Date on antler pick.
Bibliography: Bonsall and Smith 1989, Hedges et al 1988a p159

TQ 3 Tolpits Lane
Location: Rickmansworth  County/Region: Hertfordshire  NGR: TQ 076 942
Nature of site: human activity  Site class: other
Accepted single date
Lab.No.: BM-1676R  5540±110 BP (3590 bc), 4669(4363)4154 cal.BC [2SD]
Material dated: bone [Bos prim]  Certainty: C  Closeness: A
Location and Comment: Dated bone associated with another Bos prim bone with cut marks from skinning or horn removal. Pollen evidence supports the date.
Bibliography: Burleigh et al 1982b p263
Rejected sites

R 1 Badshot
Location: Farnham
County/Region: Surrey
Nature of site: long barrow
Site class: funerary
NGR: SU 860 480
Lab.No.: BM-2273N 4740±20 BP (2790 bc)
Material dated: bone
Certainty: C
Closeness: A
Location and Comment: Date from primary fill of ditch. Mean date for 3 redated samples therefore much more precise than BM-2274, which is from the same context.
Bibliography: Field and Cotton 1987, Bowman et al 1990 p71
Lab.No.: BM-2274R 4860±180 BP (2910 bc)
Material dated: antler
Certainty: C
Closeness: A
Location and Comment: Date from primary fill of ditch. Overlaps, at one standard deviation with BM-2273N, which seems to be the most accurate date for the filling of the ditch.
Bibliography: Field and Cotton 1987, Bowman et al 1990 p71

R 2 Baker platform
Location: Westhay
County/Region: Somerset
Nature of site: slipway
Site class: track
NGR: ST 4285 4230
Lab.No.: HAR-2845 4950±80 BP (3000 bc)
Material dated: wood [Alnus]
Certainty: A
Closeness: B
Location and Comment: This single date is from the slipway, which on dendrochronological and stratigraphic evidence is roughly contemporary with the lower platform, fairly well dated to the late 3rd millennium BC.

R 3 Bisgrove
Location: Somerset levels
County/Region: Somerset
Nature of site: trackway
Site class: track
NGR: ST 454 385
Lab.No.: HAR-4078 4880±100 BP (2930 bc)
Material dated: wood
Certainty: A
Closeness: C
Location and Comment: Date on wood from the track. Date is probably too early as dendrochronology suggests Bisgrove is contemporary with Garvin's track dated by three dates to c.2500 +/ -200bc.
R 4 Briar Hill
Location: Northampton County/Region: Northamptonshire NGR: SP 7362
5923
Nature of site: enclosure Site class: enclosure
Lab.No.: HAR-2282  5440±110 BP (3490 bc)
Material dated: charcoal Certainty: C Closeness: C
Location and Comment: Date from primary fill of outer ditch. Much earlier than other
dates for lower ditch fill.
Bibliography: Bamford 1985, Kinnes and Thorpe 1986

Lab.No.: HAR-4092  5540±140 BP (3590 bc)
Material dated: charcoal Certainty: C Closeness: C
Location and Comment: Date from secondary fill of final recut of extension of inner ditch.
Too early in relation to other dates, probably residual charcoal.
Bibliography: Bamford 1985, Kinnes and Thorpe 1986

Lab.No.: HAR-4072  5680±70 BP (3730 bc)
Material dated: charcoal Certainty: C Closeness: C
Location and Comment: Date from large post pit 219. Possibly phase II or III but could be
later. Anomalous in relation to other dates and stratigraphy.
Bibliography: Bamford 1985, Kinnes and Thorpe 1986

R 5 Cadger's Brae
Location: Grangemouth County/Region: Central NGR: NS 928 795
Nature of site: shell midden Site class: midden
Lab.No.: GU-1884  4725±72 BP (2775 bc)
Location and Comment: Raw date = 5130±60 BP. Dated material from exposed midden
section, stratigraphic position not specified.
Bibliography: Sloan 1984, 1985, GU lab

R 6 Castle Donnington
Location: Trent Valley County/Region: Leicestershire NGR: SK 457 301
Nature of site: fish weir Site class: other
Lab.No.: HAR-8223  5240±70 BP (3290 bc)
Location and Comment: Date on brushwood from channel 3. While this may be the
remains of a fish weir, as wood in channel 6 is interpreted to be, the excavator
suggests it is more likely to be naturally redeposited material.
Bibliography: Salisbury 1988
R 7 Dalladies
Location: Fettercairn County/Region: Grampian NGR: NO 627 673
Nature of site: long barrow Site class: funerary

Lab.No.: SRR-290 4535±55 BP (2585 bc)
Material dated: charcoal  Certainty: C Closeness: C
Location and Comment: Date from phase 2 of the mortuary structure.

Lab.No.: SRR-289 4660±50 BP (2710 bc)
Material dated: charcoal  Certainty: C Closeness: C
Location and Comment: Date from phase 2 of the mortuary structure.

Lab.No.: I-6113 5190±105 BP (3240 bc)
Material dated: charcoal  Certainty: C Closeness: C
Location and Comment: Date from phase 2 of the mortuary structure. SRR-289 and SRR-290 are also from this context and as they have fairly close and have small errors they would seem to be more reliable.

R 8 Dam III
Location: Auchencairn, Arran County/Region: Strathclyde NGR: NS 035 268
Nature of site: inland site Site class: occupation

Lab.No.: OxA-1602 3620±70 BP (1670 bc)
Material dated: hazelnut shell  Certainty: C Closeness: A
Location and Comment: Date from inland Mesolithic site. "Context suspect" for this extremely late date.
Bibliography: Hedges et al 1989 p217

R 9 Dunion
Location: Jedburgh County/Region: Borders NGR: NT 625 190
Nature of site: house Site class: occupation

Lab.No.: GU-2177 5550±100 BP (3600 bc)
Material dated: charcoal [Quercus]  Certainty: C Closeness: C
Location and Comment: Date from area 12 post-hole, probably part of post-ring of house 7, which is dated to second century AD. Anomalous date.
Bibliography: Rideout pers. com., GU lab
R 10  Ehenside Tarn
Location: Braystones  County/Region: Cumbria  NGR: NY 002 071
Nature of site: occupation  Site class: occupation

Lab.No.: C-462  4964±300 BP (3014 bc)
Material dated: wood  Certainty: B  Closeness: C
Location and Comment: Date from possible structure in "dubious association" with Neolithic pottery. Out of sequence with other dates and very poorly related to the archaeology.
Bibliography: Darbishire 1874, Godwin and Willis 1960 p70, Barker and Mackey 1961 p40

R 11  Fengate
Location: Peterborough  County/Region: Cambridgeshire  NGR: TL 213

Lab.No.: GaK-4197  4395±50 BP (2445 bc)
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from foundation trench of the house.

Lab.No.: GaK-4196  4960±70 BP (3010 bc)
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Date from post-hole of the house. The two dates on the house are very different. If combined they produce a date of c.2700 bc, too late to be included in the catalogue. Old wood effect is probable on the early date.

R 12  Fisher's Green
Location: Waltham Abbey  County/Region: Essex  NGR: TL 377 026
Nature of site: occupation  Site class: occupation

Lab.No.: BM-1242  5490±70 BP (3540 bc)
Material dated: peat  Certainty: D  Closeness: D
Location and Comment: Sample taken to date barbed antler point. "At variance with results of pollen analysis of peat and the validity must be in question". More importantly the relationship of peat to an artefact within it is very insecure.
Bibliography: Burleigh and Matthews 1982 p154

R 13  Honeygore track
Location: Somerset levels  County/Region: Somerset  NGR: ST 419 427
Nature of site: trackway  Site class: track

Lab.No.: GaK-1939  5640±120 BP (3690 bc)
Location and Comment: Date from track timbers. Date seems very early, actual date probably closer to Q-431 4750+/−130 BP, also on wood from the track.

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R 14 Killeaba

Location: Killeaba
County/Region: Isle of Man

NGR: SC 452 936

Nature of site: occupation
Site class: occupation

Lab.No.: BM-838 6410±72 BP (4360 bc)
Material dated: charcoal  Certainty: C  Closeness: C

Location and Comment: Date from pit in association with Ronaldsway urn, much earlier than the other dates on the pit, which are late third millennium bc. Probable use of bog oak.

R 15 Knap of Howar

Location: Papa Westray
County/Region: Orkney

NGR: HY 483 518

Nature of site: houses
Site class: occupation

Lab.No.: SRR-348 4765±70 BP (2815 bc)
Material dated: bone  Certainty: C  Closeness: A

Location and Comment: Typical date from house, the other dates are similar.
Bibliography: Ritchie 1983, CBA 14C Index

Lab.No.: Birm-816 4770±180 BP (2820 bc)
Material dated: bone  Certainty: C  Closeness: A

Location and Comment: Typical date from midden, the other dates are similar.
Bibliography: Ritchie 1983, CBA 14C Index

Lab.No.: SRR-347 5686±85 BP (3736 bc)
Material dated: bone  Certainty: C  Closeness: A

Location and Comment: Date from primary midden in wall core of house 1. Much earlier than other dates on the midden or house.
Bibliography: Ritchie 1983, CBA 14C Index

R 16 Loch Doon SW

Location: Dyle and Carrick
County/Region: Strathclyde

NGR: NX 483 928

Nature of site: flint site east
Site class: occupation

Lab.No.: OxA-1597 3150±70 BP (1200 bc)
Material dated: charcoal [Quercus]  Certainty: C  Closeness: C

Location and Comment: "Context suspect" for this date. Seems very late and is probably anomalous.
R 17 Maes Howe  
Location: Stenness  
County/Region: Orkney  
NGR: HY 318 128  
Nature of site: chambered tomb  
Site class: funerary  
Lab.No.: SRR-791  5094±60 BP (3144 bc)  
Material dated: peat  
Certainty: D  
Closeness: D  
Location and Comment: Date from peat layer beneath the bank. Dates old land surface only, tomb built much later.  
Bibliography: Renfrew et al 1976, SURRC

R 18 Meadow Heath  
Location: Somerset levels  
County/Region: Somerset  
NGR: ST 446 410  
Nature of site: trackway  
Site class: track  
Lab.No.: HAR-3195  5180±70 BP (3230 bc)  
Material dated: bog oak  
Certainty: A  
Closeness: D  
Location and Comment: Date on wood from track, date too early, other evidence suggests the track is Bronze Age.  
Bibliography: Beckett and Hibbert 1979, Walker et al 1987 p87,90

R 19 Nether Kinnecil  
Location: Grangemouth  
County/Region: Central  
NGR: NS 9580 8005  
Nature of site: shell midden  
Site class: midden  
Lab.No.: GU-1881  4835±72 BP (2885 bc)  
Material dated: shell [Ostrea]  
Certainty: C  
Closeness: B  
Location and Comment: Date from latest securely stratified phase of the midden. Raw date = 5240±60 BP. Seems too early for context.  
Bibliography: Sloan 1982, 1984, GU lab  
Lab.No.: SRR-1486b  4535±64 BP (2585 bc)  
Material dated: shell [marine]  
Certainty: C  
Closeness: B  
Location and Comment: Date on inner fraction of shell. Raw date = 4940±50 BP.  
Bibliography: Sloan 1982, 1984  
Lab.No.: GU-1260  4630±76 BP (2680 bc)  
Material dated: shell [marine]  
Certainty: C  
Closeness: B  
Location and Comment: Raw date = 5035±65 BP. Dated material not fractioned, contamination possible.  
Bibliography: Sloan 1982, 1984  
Lab.No.: SRR-1486a  4655±64 BP (2705 bc)  
Material dated: shell [marine]  
Certainty: C  
Closeness: B  
Location and Comment: Date on outer fraction of shell. Raw date = 5060±50 BP.  
Bibliography: Sloan 1982, 1984

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R 20 Northton
Location: Harris  County/Region: Western Isles  NGR: NF 976 913
Nature of site: settlement  Site class: occupation

Lab.No.: BM-705  4411±79 BP (2461 bc)
Material dated: bone [collagen]  Certainty: C  Closeness: A
Location and Comment: Date associated with W. Neolithic and Unstan pottery. Far more reliable, but too late for inclusion in catalogue.
Bibliography: Burleigh et al 1973, CBA 14C Index

Lab.No.: GaK-847  5030±150 BP (3080 bc)
Material dated: bone [collagen]  Certainty: C  Closeness: A
Location and Comment: Date from Beaker level. Too early for context.
Bibliography: Burleigh et al 1973, CBA 14C Index

Lab.No.: GaK-848  6050±140 BP (4100 bc)
Material dated: bone [collagen]  Certainty: C  Closeness: A
Location and Comment: Date from Neolithic midden. Unexpectedly early for context, and probably anomalous, considering GaK-847 is also unexpectedly early.
Bibliography: Burleigh et al 1973, CBA 14C Index

R 21 Scord of Brouster
Location: Lerwick  County/Region: Shetland  NGR: HU 255 516
Nature of site: 2 houses  Site class: occupation

Lab.No.: CAR-253  5050±90 BP (3100 bc)
Location and Comment: Date from house 2, dating its use. Out of sequence compared to other dates.
Bibliography: Whittle 1979, Ambers et al 1985 p515

R 22 South Cadbury Castle
Location: South Cadbury  County/Region: Somerset  NGR: ST 62 25
Nature of site: enclosure  Site class: enclosure

Lab.No.: I-5972  4775±115 BP (2825 bc)
Material dated: hazelnut shell  Certainty: C  Closeness: A
Location and Comment: Date from pit, too late for inclusion in catalogue, all other dates for the site are later, except the TL dates.
Bibliography: Alcock 1969, Buckley 1976 p186

Lab.No.: Oxl-66c3  5250±800 BP (3300 bc)
Material dated: pot  Certainty: A  Closeness: A
Location and Comment: Date rejected due to excessive error.
Bibliography: Alcock 1969, Buckley 1976 p186

Lab.No.: Oxl-66c2  5300±800 BP (3350 bc)
Material dated: pot  Certainty: A  Closeness: A
Location and Comment: Date rejected due to excessive error.
Bibliography: Alcock 1969, Buckley 1976 p186
R 23 Thatcham
Location: Thatcham    County/Region: Berkshire    NGR: SU 503 667
Nature of site: occupation    Site class: occupation

Lab.No.: OxA-1201  5100±350 BP (3150 bc)
Material dated: bone    Certainty: C    Closeness: A
Location and Comment: Date rejected due to excessive error. The only other date for this
site is much earlier, leaching of collagen may have resulted in an anomalously late
date.
Bibliography: Churchill 1962, Hedges et al 1988b p294
Catalogue of late Mesolithic and early Neolithic dates from Ireland

Mesolithic dates

**H 3 Newferry**
Location: near Ballymena  
County/Region: Co. Antrim  
NGR: H 992 982
Nature of site: occupation  
Site class: occupation

Accepted dates

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<th>Material dated</th>
<th>Certainty</th>
<th>Closeness</th>
<th>Location and Comment</th>
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Accepted single date

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<th>Lab.No.</th>
<th>Material dated</th>
<th>Certainty</th>
<th>Closeness</th>
<th>Location and Comment</th>
</tr>
</thead>
</table>

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J 3 Ringneill Quay

Location: Co. Down  County/Region: Co. Down  NGR: J 523 654
Nature of site: occupation  Site class: occupation

Accepted dates

Lab.No.: Q-770  5380±120 BP (3430 be), 4470(4241)3980 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: From layer 5 which contained an ox bone, but no culturally diagnostic artefacts.

Rejected dates

Lab.No.: Q-633  3680±120 BP (1730 be), 2460(2123,2080,2042)1750 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: From layer 5. Much later than other dates from this site, probably anomalous.

J 4 Rockmarshall midden III

Location: Rockmarshall Townland  County/Region: Co. Louth  NGR: J 12 08
Nature of site: shell midden  Site class: occupation

Accepted single date

Lab.No.: I-5323  5470±110 BP (3520 be), 4530(4345)4009 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: From hearth and associated with Mesolithic implements.

N 2 Lough Derravaragh

Location: Clonava Townland  County/Region: Co. Westmeath  NGR: N 38
Nature of site: occupation  Site class: occupation

Accepted single date

Lab.No.: I-4234  5360±110 BP (3410 be), 4457(4235)3980 cal.BC [2SD]
Material dated: charcoal  Certainty: D  Closeness: C
Location and Comment: Layer of charcoal exposed in the banks of the River Inny, probably associated with a nearby chipping floor containing a Larnian type industry.
N 3 Sutton
Location: Burrow Townland, County/Region: Co. Dublin, NGR: N 26 39
Nature of site: kitchen midden, Site class: occupation

Accepted single date
Lab.No.: I-5067 5250±110 BP (3300 BC), 4350(4039,4010)3789 cal BC [2SD]
Material dated: charcoal, Certainty: C, Closeness: C
Location and Comment: From hearth and associated with Mesolithic implements and polished stone axes.

O 1 Dalkey Island
Location: County/Region: Co. Dublin, NGR: O 279 262
Nature of site: shell midden, Site class: occupation

Accepted single date
Lab.No.: D-38 5300±170 BP (3350 BC), 4490(4220,4200,4147,4110,4088,4060,4048)3710 cal BC [2SD]
Material dated: charcoal, Certainty: C, Closeness: C
Location and Comment: From midden, site V.
Rejected date
Lab.No.: BM-78 4160±150 BP (2210 BC), 3254(2870,2806,2774,2720,2702)2340 cal BC [2SD]
Material dated: human bone, Certainty: C, Closeness: A
Location and Comment: From midden, site II. Burial may be intrusive.

V 1 Ferriters Cove
Location: Ballyoughteragh South, County/Region: Co. Kerry, NGR: V
Nature of site: occupation, Site class: occupation

Accepted single date
Lab.No.: BM-2227R 5400±220 BP (3450 BC), 4772(4318,4285,4246)3710 cal BC [2SD]
Material dated: charcoal, Certainty: C, Closeness: C
Location and Comment: From site I, flint industry on this site is slightly different to that on sites 2 and 3.
Lab.No.: BM-2227R/A 5414±124 BP (3464 BC), 4510(4331,4276,4249)3990 cal BC [2SD]
Material dated: charcoal, Certainty: C, Closeness: C
Location and Comment: BM-2227R and BM-2227AR combined.
Bibliography: Woodman et al 1985
Lab.No.: BM-2227AR  5420±150 BP (3470 bc), 4654(4333,4273,4259)3970 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Repeat date.

Lab.No.: BM-2229R  5490±160 BP (3540 bc), 4720(4350)3990 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: From site 3 where the lithic assemblage is described as "reminiscent of later Mesolithic of NE Ireland despite lack of type fossils."

Lab.No.: BM-2229R/A  5496±101 BP (3546 bc), 4573(4352)4046 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: BM-2229R and BM-2229AR combined.
Bibliography: Woodman et al 1985

Lab.No.: BM-2228R  5500±130 BP (3650 bc), 4669(4353)4007 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Repeat date.

Lab.No.: BM-2228R/A  5804±95 BP (3854 bc), 4933(4717)4460 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: BM-2228R and BM-2228AR combined.
Bibliography: Woodman et al 1985

Lab.No.: BM-2228AR  5850±130 BP (3900 bc), 5191(4774)4407 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Repeat date.

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Neolithic dates

**Dooey's Cairn**

Location: Ballymacaldrack
County/Region: NGR:
Nature of site: cairn
Site class: funerary

Accepted dates

Lab.No.: UB-2029 4940±50 BP (2990 bc), 3933(3775,3751,3706)3640 cal.BC [2SD]
Material dated: charcoal Certainty: C Closeness:
Location and Comment:
Bibliography: Caulfield 1983

Lab.No.: UB-2030 5150±90 BP (3200 bc), 4229(3983)3722 cal.BC [2SD]
Material dated: charcoal Certainty: C Closeness:
Location and Comment:
Bibliography: Caulfield 1983

**Poulabrone**

Location: near Glenarm
County/Region: Co. Antrim NGR: D 330 150
Nature of site: occupation
Site class: occupation

Accepted single date

Lab.No.: UB-205 5095±120 BP (3145 bc), 4230(3954,3840,3825)3650 cal.BC [2SD]
Material dated: charcoal Certainty: C Closeness: C
Location and Comment: From Neolithic hearth in association with pottery, flints and 2 crude roughouts for flint axes.
Bibliography: Smith et al 1971b p452
G 1 Carrowmore
Location: Swinford   County/Region: Co. Mayo   NGR: G 73 39
Nature of site: megalithic cemetery   Site class: funerary

Accepted dates

Lab.No.: Lu-1810  4940±85 BP (2990 bc), 3970(3775,3751,3706)3529 cal.BC [2SD]
Material dated: charcoal   Certainty: C   Closeness: C
Location and Comment: From grave 27, inner packing.

Lab.No.: Lu-1808  5000±65 BP (3050 bc), 3980(3785)3649 cal.BC [2SD]
Material dated: charcoal   Certainty: C   Closeness: C
Location and Comment: From grave 27, inner packing.

Lab.No.: Lu-1698  5040±60 BP (3090 bc), 3990(3910,3878,3814)3701 cal.BC [2SD]
Material dated: charcoal   Certainty: C   Closeness: C
Location and Comment: From grave 27, inner packing.

Lab.No.: Lu-1441  5240±80 BP (3290 bc), 4323(4037,4014,4008)3821 cal.BC [2SD]
Material dated: charcoal   Certainty: C   Closeness: C
Location and Comment: From grave 7, basal layer in the chamber.
Bibliography: Caulfield 1983, Hedges et al. 1988a pl57

Lab.No.: Q-2601  5410±50 BP (3460 bc), 4360(4330,4279,4248)4048 cal.BC [2SD]
Material dated: charcoal   Certainty: C   Closeness: C
Location and Comment: From layer extending below and around the cairns. Unknown levels of contamination probable.

Lab.No.: OxA-703  5960±90 BP (4010 bc), 5199(4895,4879,4849)4680 cal.BC [2SD]
Material dated: terrestrial shell   Certainty: D   Closeness: D
Location and Comment: From layer extending below and around the cairns. Unknown levels of contamination probable.

Lab.No.: OxA-702  6170±90 BP (4220 bc), 5319(5205,5155,5148)4900 cal.BC [2SD]
Material dated: terrestrial shell   Certainty: D   Closeness: D
Location and Comment: From layer extending below and around the cairns. Unknown levels of contamination probable.

Rejected dates

Lab.No.: Lu-1750  4320±75 BP (2370 bc), 3291(2919)2703 cal.BC [2SD]
Material dated: charcoal   Certainty: C   Closeness: C
Location and Comment: From grave 4.

Lab.No.: Lu-1840  5750±85 BP (3800 bc), 4835(4664,4638,4601)4400 cal.BC [2SD]
Material dated: charcoal   Certainty: C   Closeness: C
Location and Comment: From grave 4.

Lab.No.: Ox-A-703  5960±90 BP (4010 bc), 5199(4895,4879,4849)4680 cal.BC [2SD]
Material dated: terrestrial shell   Certainty: D   Closeness: D
Location and Comment: From layer extending below and around the cairns. Unknown levels of contamination probable.
Lab.No.: OxA-701 6250±100 BP (4300 bc), 5452(5233)4909 cal.BC [2SD]
Material dated: terrestrial shell  Certainty: D Closeness: D
Location and Comment: From layer extending below and around the cairns. Unknown levels of contamination probable.

Material dated: charcoal  Certainty: C Closeness: C
Location and Comment: Pit fill with Neolithic pottery.

Material dated: charcoal  Certainty: C Closeness: C
Location and Comment: From a post-hole of the house. Possible old wood effect.

Material dated: charcoal  Certainty: C Closeness: C
Location and Comment: From hearth.

Material dated: charcoal  Certainty: C Closeness: C
Location and Comment: Pit fill with Neolithic pottery.
Lab.No.: UB-197  5625±50 BP (3675 bc), 4658(4467)4360 cal.BC [2SD]
Material dated: charcoal [Pinus]  Certainty: C  Closeness: C
Location and Comment: Pit fill, associated with Neolithic pottery.

Lab.No.: UB-307  5640±90 BP (3690 bc), 4720(4470)4340 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: Pit fill with Neolithic pottery.

H 2 Carnanbane
Location: Ballybriest Townland  County/Region: Co. Londonderry  NGR: H 762
Nature of site: court cairn  Site class: funerary

Accepted dates

Lab.No.: UB-534  4930±80 BP (2980 bc), 3950(3773,3758,3704)3528 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: From below the cairn, associated with Neolithic pottery.
Bibliography: Smith et al 1973 p219-220

Lab.No.: UB-535  5045±95 BP (3995 bc), 4037(3931,3876,3815)3650 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: From below the cairn, associated with Neolithic pottery.
Bibliography: Smith et al 1973 p219-220

J 1 Ballymacdermot
Location:  County/Region: Co. Armagh  NGR: J 063 238
Nature of site: court tomb  Site class: funerary

Rejected dates

Lab.No.: UB-694  4830±95 BP (2880 bc), 3900(3639,3370) cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: From chamber 3, there are other later dates from the site.

Lab.No.: UB-702  6925±95 BP (4975 bc), 5990(5749)5620 cal.BC [2SD]
Material dated: charcoal  Certainty: C  Closeness: C
Location and Comment: From between the lowest cairn stones, probably reused Mesolithic material.
J2 Knockweagh
Location: County/Region: Co. Down NGR: J 182 378
Nature of site: hilltop cairn Site class: funerary

Accepted single date
Lab.No.: D-37 5020±170 BP (3070 bc), 4240(3895,3887,3810,3788)3380 cal.BC [2SD]
Material dated: charcoal Certainty: C Closeness: C
Location and Comment: From beneath the cairn mixed with sherds of Neolithic pottery.
Bibliography: McAulay and Watts 1961 p32

N1 Knowth
Location: County/Region: Co. Meath NGR: N 99 74
Nature of site: megalithic tomb Site class: funerary

Rejected dates
Lab.No.: UB-319 4795±185 BP (2845 bc), 3990(3628,3564,3542)3040 cal.BC [2SD]
Material dated: charcoal Certainty: C Closeness: C
Location and Comment: Samples from satellite grave under the main mound and not necessarily contemporaneous with mound construction.
Bibliography: Eogan 1963, Smith et al 1971b p453

Lab.No.: UB-318 4875±150 BP (2925 bc), 3990(3692)3350 cal.BC [2SD]
Material dated: charcoal Certainty: C Closeness: C
Location and Comment: Samples from satellite grave under the main mound and not necessarily contemporaneous with mound construction.
Bibliography: Eogan 1963, Smith et al 1971b p453

Lab.No.: UB-358 6835±110 BP (4885 bc), 5970(5712,5683,5661)5490 cal.BC [2SD]
Material dated: humic acid Certainty: D Closeness: D
Location and Comment: From a sod layer in the main mound. This date probably does no more than demonstrate the long persistence of humus in buried soil.
Bibliography: Eogan 1963, Smith et al 1971b p453
APPENDIX III

CATALOGUE OF PALAEOENVIRONMENTAL DATES

Clearance

NB 1  Little Loch Roag
Location: Lewis  County/Region: Outer Hebrides  NGR: NB 142 248
Type of evidence: pollen

Lab No: **-** 5500± BP (3550 bc), 4361(4353)4344 cal.BC Dated Material: peat
Notes on date: Interpolated date for first evidence of possible interference with local vegetation.
Notes on vegetational changes: Difficult to be sure as disturbance indicator species grew naturally here.
Bibliography: Birks and Madsen 1979, Switsur 1981 p91-2

NO 4  Kinfauns
Location: Perth  County/Region: Tayside  NGR: NO 166 214
Type of evidence: beetle

Lab No: Birm-652 5180±100 BP (3230 bc), 4240(3994)3780 cal.BC Dated Material: peat
Notes on date: Single date on clearance event as identified by beetle assemblage.
Notes on vegetational changes: Assemblage of beetles typical of pastureland, including dung beetles.
Bibliography: Osborne 1978, Williams and Johnson 1976 p254

NR 1  Drimnagall
Location: near Tayvallich  County/Region: Strathclyde  NGR: NR 713 847
Type of evidence: pollen

Lab No: Q-1314 5039±85 BP (3089 bc), 4032(3909,3879,3814)3690 cal.BC Dated Material: ?
Notes on date: D 175-180cm temporary clearance.
Notes on vegetational changes: Temporary decline in Quercus and substantial increase in grass pollen.
Bibliography: Switsur and West 1975 p304-5

Lab No: Q-1315 5575±90 BP (3625 bc), 4668(4455,4420,4401)4240 cal.BC Dated Material: ?
Notes on date: D 225-230cm clearance event.
Notes on vegetational changes: Decline in arboreal pollen
Bibliography: Switsur and West 1975 P304-5
NR 2, Loch A'Mhuilinn
Location: Arran
County/Region: Strathclyde
NGR: NR 940 496
Type of evidence: pollen

Lab No: SRR-2577 4930±90 BP (2980 be), 3970(3773,3758,3704)3520 cal.BC
Dated Material: peat
Notes on date: 2.88-2.92m arboreal pollen/non-arboreal pollen fluctuations.
Notes on vegetational changes: High values for grass pollen, but few other non-arboreal pollen and no charcoal.
Bibliography: Boyd and Dickson 1987

NR 4, Machrie Moor
Location: Arran
County/Region: Strathclyde
NGR: NR 905 315
Type of evidence: pollen

Lab No: **-*** 5750± BP (3800 be), 4714(4664,4638,4601)4544 cal.BC
Dated Material: peat
Notes on date: Interpolated date for clearance episode.
Notes on vegetational changes: Includes decline in some arboreal pollen, including elm, and increase in non-arboreal pollen.
Bibliography: Robinson 1981, Robinson and Dickson 1988

NY 5, Callaly Moor
Location: Callaly Moor
County/Region: Northumberland
NGR: NY
Type of evidence: charcoal horizon

Lab No: OxA-2623 5660±70 BP (3710 be), 4720(4504)4360 cal.BC
Dated Material: charcoal
Notes on date: Charcoal from below a 2nd millennium be clearance cairn, presumably residual.
Notes on vegetational changes: Anthropogenic burning cannot be proved, but there was Mesolithic activity in the area.
Bibliography: Hedges et al 1991

NY 6, Dufton Moss
Location: Upper Teesdale
County/Region: Co. Durham
NGR: NY 872 293
Type of evidence: pollen

Lab No: **-*** 5697± BP (3747 be), 4660(4571,4568,4533)4499 cal.BC
Dated Material: peat
Notes on date: Interpolated date for clearance phase.
Notes on vegetational changes: Clearance indicators.
Bibliography: Harkness 1981 p263
NY 9  Fox Earth Gill  
Location: Upper Teesdale  
County/Region: Co. Durham  
NGR: NY 84 28  
Type of evidence: pollen  

Lab No: **.*.*  5404± BP (3454 bc), 4339(4324,4283,4247)4236 cal.BC  
Dated Material: peat  
Notes on date: Immediately postdates interference phase.  
Notes on vegetational changes: Temporary increase in Coryloid pollen and decrease in oak, elm and pine. The "true" elm decline is claimed to be significantly later.  
Bibliography: Coggins 1986  

NY15  Wheelhead Moss  
Location: Upper Teesdale  
County/Region: Co. Durham  
NGR: NY 805 305  
Type of evidence: pollen  

Lab No: GaK-2916  5770±110 BP (3820 bc), 4932(4673,4632,4624)4360 cal.BC  
Dated Material: peat  
Notes on date: 209cm Mesolithic clearance activity just below this date.  
Notes on vegetational changes: Value for elm is high.  

SD 2  Black Brook  
Location: Anglezark Moor  
County/Region: Lancashire  
NGR: SD 632 185  
Type of evidence: pollen  

Lab No: HAR-6207  5660±80 BP (3710 bc), 4720(4504)4350 cal.BC  
Dated Material: peat  
Notes on date: Dates earliest clearance phase in the area.  
Notes on vegetational changes: Clearance indicators.  

SD 7  Sollyland Moor C  
Location: Littleborough  
County/Region: West Yorkshire  
NGR: SD 975 186  
Type of evidence: pollen  

Lab No: Q-2387  6110±40 BP (4160 bc), 5216(5190,5058)4907 cal.BC  
Dated Material: peat  
Notes on date: Dates clearance event.  
Notes on vegetational changes: Pollen changes are similar to those occurring in core D at the level of the early cereal-type pollen, but no cereal-type pollen is evident in core C.  
Bibliography: Williams 1985, Hirons and Edwards 1986  

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SD 9 The Allotment
Location: Ingleborough  County/Region: North Yorkshire  NGR: SD 764 737
Type of evidence: pollen

Lab No: SRR-2611  5160±60 BP (3210 bc), 4217(3988)3813 cal.BC  Dated Material: peat
Notes on date: 80cm Marks beginning of first major clearance. Fits in date sequence.
Notes on vegetational changes: Clearance characterised by Plantago lanceolata and Rumex. Elm decline occurs *at some time before* this date.
Bibliography: SURRC 244/0983

SD 12 Williamson’s Moss
Location: Newbiggin  County/Region: Cumbria  NGR: SD 08 93
Type of evidence: pollen

Lab No: **-*** 5675± BP (3725 bc), 4652(4515)4468 cal.BC  Dated Material: peat
Notes on date: Interpolated date for small scale clearance.
Notes on vegetational changes: Clearance indicators.

SE 1 Bonfield Gill
Location: North York Moors  County/Region: North Yorkshire  NGR: SE 598 958
Type of evidence: pollen

Lab No: HAR-4230  4610±80 BP (2660 bc), 3620(3364)3047 cal.BC  Dated Material: peat
Notes on date: 3rd interference phase. The authors consider this date to be anomalous as it does not fit the sequence.
Notes on vegetational changes: Clearance indicators.
Bibliography: Simmons and Innes 1981

Lab No: HAR-4226  5170±90 BP (3220 bc), 4234(3991)3780 cal.BC  Dated Material: peat
Notes on date: Dates second interference phase in zonule 4.
Notes on vegetational changes: Associated with charcoal and clearance indicators.
Bibliography: Simmons and Innes 1981

Lab No: HAR-4225  5670±90 BP (3720 bc), 4780(4512)4350 cal.BC  Dated Material: peat
Notes on date: Dates first interference phase in zonule 2.
Notes on vegetational changes: Associated with charcoal and clearance indicators.
Bibliography: Simmons and Innes 1981
**SH 2 Moel-y-Gerddi**

Location: Aruduwy  
County/Region: Gwynedd  
NGR: SH 616 319

Type of evidence: pollen

Lab No: CAR-661  4730±80 BP (2780 bc), 3700(3594,3589, 3514, 3391,3390)3350 cal.BC  
Dated Material: peat  
Notes on date: 67-69cm clearance event.  
Notes on vegetational changes: Decrease of arboreal pollen.  

**SJ 3 Hatchmere**

Location: Hatchmere  
County/Region: Cheshire  
NGR: SJ 554 723

Type of evidence: pollen

Lab No: Q-1228  5269±80 BP (3319 bc), 4340(4213,4208, 4133, 4126,4042)3827 cal.BC  
Dated Material: lake mud  
Notes on date: 652.5-657.5cm "beginning of first well marked 'landnam' phase." Fits in date sequence.  
Notes on vegetational changes: Clearance indicators.  
Bibliography: Switsur and West 1975 p303-4

**SK 1 Coldside**

Location: Vale of Edale  
County/Region: Derbyshire  
NGR: SK 1205 8370

Type of evidence: charcoal horizon

Lab No: SRR-2520  5560±80 BP (3610 bc), 4654(4452,4428, 4392, 4384,4368)4244 cal.BC  
Dated Material: charcoal  
Notes on date: Carbonised plant macrofossils from gravel.  
Notes on vegetational changes: Charcoal horizons possibly reflect anthropogenic burning activity.  
Bibliography: SURRC 236/0283

**SK 2 Greenhill**

Location: Vale of Edale  
County/Region: Derbyshire  
NGR: SK 1201 8450

Type of evidence: charcoal horizon

Lab No: SRR-2518  5860±120 BP (3910 bc), 5050(4777)4460 cal.BC  
Dated Material: charcoal  
Notes on date: From charcoal horizon in valley fill.  
Notes on vegetational changes: Possibly reflects anthropogenic activity.  
Bibliography: SURRC 236/0283
SM 1 Abermawr Bog
Location: Granston  County/Region: Dyfed  NGR: SM 883 346
Type of evidence: pollen

Lab No: OxA-1377  5520±150 BP (3570 bc), 4720(4358)4003 cal.BC  Dated Material: wood peat
Notes on date: Single date on minor clearance event in pollen diagram. "Confirmed as Mesolithic in date."
Notes on vegetational changes: Clearance indicators.
Bibliography: Edwards 1989c p218

SN 2 Pen Rhiw Wen
Location: Brynamman  County/Region: Dyfed  NGR: SN 732 183
Type of evidence: pollen

Lab No: CAR-13  5710±80 BP (3760 bc), 4780(4577,4553,4547)4360 cal.BC  Dated Material: peat
Notes on date: Possible clearance event.
Notes on vegetational changes: High Calluna percentages.
Bibliography: Dresser 1985 p343-6

Lab No: CAR-14  5740±80 BP (3790 bc), 4790(4660,4641,4590)4400 cal.BC  Dated Material: peat
Notes on date: Possible clearance event.
Notes on vegetational changes: Decrease in Corylus and increase in Calluna.
Bibliography: Dresser 1985 P343-6

Lab No: CAR-18  5830±70 BP (3880 bc), 4899(4725)4520 cal.BC  Dated Material: peat
Notes on date: Mor deposit. with charcoal.
Notes on vegetational changes: Decrease hazel and increase in heather.
Bibliography: Dresser 1985 P343-6

SP 1 Ascott-under-Wychwood
Location: Ascott-under-Wychwood  County/Region: Oxfordshire  NGR: SP 299 175
Type of evidence: pollen/mollusc

Lab No: BM-491b  4893±70 BP (2943 bc), 3910(3696)3521 cal.BC  Dated Material: charcoal
Notes on date: Pre-barrow occupation.
Notes on vegetational changes: Pollen and molluscs show an "unstable ecological system", development of open grassland and hazel woodland in the area.
Bibliography: Dimbleby and Evans 1974
Lab No: BM-1976R  4930±100 BP (2980 bc), 3980(3773,3758,3704)3389 cal.BC  Dated Material: human bone  
Notes on date: Dates use of barrow.  
Notes on vegetational changes: Pollen and molluscs show an "unstable ecological system", development of open grassland and hazel woodland in the area.  
Bibliography: Dimbleby and Evans 1974

SP 2  Pitstone  
Location: Pitstone  
County/Region: Buckinghamshire  
NGR: SP 933 140  
Type of evidence: colluvium

Lab No: BM-2181R  5750±110 BP (3800 bc), 4898(4664,4638,4601)4360 cal.BC  Dated Material: horn core  
Notes on date: Single date on *Bos primigenious* bone. Provides max. date for onset of hillwash.  
Notes on vegetational changes: Suggests erosion caused by clearance, though earliest woodland clearance in adjacent valley is dated much later.  
Bibliography: Ambers *et al* 1985 p511

ST 4  Walton Moor  
Location: Gordano Valley  
County/Region: Avon  
NGR: ST 436 729  
Type of evidence: pollen

Lab No: SRR-3200  5050±140 BP (3100 bc), 4228(3933,3874,3816)3530 cal.BC  Dated Material: peat  
Notes on date: 145cm Reduction of arboreal pollen  
Notes on vegetational changes: The cause is uncertain, and may be anthropogenic or climatic.  
Bibliography: SURRC 321/0686

Lab No: SRR-3201  5260±120 BP (3310 bc), 4350(4210)3790 cal.BC  Dated Material: peat  
Notes on date: 175cm Reduction of arboreal pollen  
Notes on vegetational changes: The cause is uncertain, and may be anthropogenic or climatic.  
Bibliography: SURRC 321/0686

SU 2  Horslip  
Location: Avebury  
County/Region: Wiltshire  
NGR: SU 086 705  
Type of evidence: pollen/mollusc

Lab No: BM-180  5190±105 BP (3240 bc), 4322(3996)3780 cal.BC  Dated Material: antler  
Notes on date: Date from barrow ditch, associated with evidence for clearance.  
Notes on vegetational changes: Pollen and mollusc evidence for clearance and possibly agriculture before the construction of the barrow.  
TL 1 Hockham Mere
    Location: Great Hockham    County/Region: Norfolk    NGR: TL 935 937
    Type of evidence: pollen

Lab No: Q-1088    7447±125 BP (5497 bc), 6556(6358,6337,6233)6001 cal.BC    Dated
    Material: lake mud
    Notes on date: 432-448cm Mesolithic clearance phase.
    Notes on vegetational changes: Clearance indicators.
    Bibliography: Switsur and West 1973 p539-40

TL 3 Peacock Farm
    Location: Shippea Hill    County/Region: Cambridgeshire    NGR: TL 640 840
    Type of evidence: pollen

Lab No: CAR-1105    4910±90 BP (2960 bc), 3950(3699)3389 cal.BC    Dated
    Material: peat
    Notes on date: Lime decline.
    Notes on vegetational changes: Decrease in Tilia then Quercus.
    Bibliography: Smith et al 1989, Clark and Godwin 1962

TV 1 Cow Gap
    Location: Eastbourne    County/Region: Sussex    NGR: TV 595 957
    Type of evidence: mollusc

Lab No: BM-2220R    5000±360 BP (3050 bc), 4653(3785)2910 cal.BC    Dated
    Material: charcoal
    Notes on date: Date with excessive error from base of post-glacial colluvium.
    Notes on vegetational changes: Contained open country mollusc fauna.
    Bibliography: Ambers et al 1985 p515
Cultivation

SJ 1  Bidston Moss
Location: Wirral  County/Region: Merseyside  NGR: SJ 284 912
Type of evidence: pollen

Lab No: SRR-2925  5840±70  BP (3890 bc), 4900(4772,4759,4728)4530 cal.BC  Dated
Material: peat
Notes on date: 1.0-1.1m "Dates a mid-Flandrian II phase of woodland clearance." Fits in
date sequence.
Notes on vegetational changes: Woodland clearance appears to be for arable cultivation.
Bibliography: SURRC 273/0884

SU 1  Beckhampton Road
Location: Bishops Cannings  County/Region: Wiltshire  NGR: SU 066 677
Type of evidence: charcoal horizon

Lab No: NPL-138  5200±160  BP (3250 bc), 4360(3998)3690 cal.BC  Dated Material: charcoal
Notes on date: Single date from old land surface, dates woodland clearance phase.
Notes on vegetational changes: Clearance phase represented by charcoal deposit.

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Elm decline

NC 1  An Druim
Location: Loch Eriboll  County/Region: Highland region  NGR: NC 436 568
Type of evidence: pollen

Rejected dates
Lab No: SRR-781  5740±80 BP (3790 bc), 4790(4660,4641,4590)4400 cal.BC  Dated Material: lake mud
Notes on date: 714-721cm about 700 years too old compared to other dated sites in the area. Possible hard water error. Fits in date sequence.
Bibliography: Harkness 1981 p290

NC 2  Loch Sionascaig
Location: Sutherland  County/Region: Highland  NGR: NC 129 128
Type of evidence: pollen

Rejected dates
Lab No: **-***  4950± BP (3000 bc), 3784(3776,3744,3708)3699 cal.BC  Dated Material: lake mud
Notes on date: Interpolated date for break in elm curve. Only three dates on this core but they seem reliable.
Notes on vegetational changes: No other changes associated with the elm decline. Charcoal concentrations low.
Bibliography: Pennington et al 1972

NG 3  Loch Clair
Location: Wester Ross  County/Region: Highland  NGR: NG
Type of evidence: pollen

Rejected dates
Lab No: I-4814  5360±110 BP (3410 bc), 4457(4235)3980 cal.BC  Dated Material: lake mud
Notes on date: 306cm Marks first break in elm curve. Date fits well in date sequence. Possible contamination from soil erosion.
Notes on vegetational changes: Associated with the presence of charcoal, decrease in arboreal pollen and increase in quantity and variety of herb pollen. Soil erosion. Plantago lanceolata appears towards end of elm decline.
Bibliography: Pennington et al 1972
NG 4  Loch Coultrie
    Location: Wester Ross  County/Region: Highland  NGR: NG 857 435
    Type of evidence: pollen

Rejected dates

Lab No: Q-1514  5250±80 BP (3300 be), 4331(4039,4010)3823 cal.BC  Dated Material: lake mud
Notes on date: 247.5-242.5cm Elm decline. Fits well in date sequence.
Bibliography: Switsur 1981 p90-1

NG 5  Loch Maree
    Location: Wester Ross  County/Region: Highland  NGR: NG 915 714
    Type of evidence: pollen

Rejected dates

Lab No: Q-1006  5150±65 BP (3200 be), 4216(3983)3790 cal.BC  Dated Material: lake mud
Notes on date: 250-260cm Slight elm decline. Fits well in date sequence.
Notes on vegetational changes: First appearance of Plantago lanceolata
Bibliography: Switsur and West 1973 p159

NG 6  Loch Meodal
    Location: Skye  County/Region: Highland region  NGR: NG 656 114
    Type of evidence: pollen

Rejected dates

Lab No: Q-1305  5160±100 BP (3210 be), 4240(3988)3710 cal.BC  Dated Material: lake mud
Notes on date: 577.5-572.5cm Elm decline. Fits well in date sequence.
Bibliography: Switsur 1981 p85

NJ 1  Braceroddach Loch
    Location: Dinnet, Kincardine and Deeside  County/Region: Grampian  NGR: NJ 480 001
    Type of evidence: pollen

Accepted dates

Lab No: UB-2073  5295±155 BP (3345 be), 4460(4219,4202, 4145, 4113, 4081, 4064,4047)3780 cal.BC  Dated Material: lake mud
Notes on date: 548-558cm First interference episode. Probably equivalent to the elm decline. Fits well with other dates.
Notes on vegetational changes: Decrease in all arboreal pollen, though elm declines most, but no increase in herbs. Little evidence of erosion, though pollen deterioration values peak.
Bibliography: Edwards 1978
Lab No: UB-2106 5105±85 BP (3155 bc), 4215(3960,3836,3827)3704 cal.BC  Dated Material: lake mud
Notes on date: 294.5-309.5cm First clearance activity. Slight elm decline.
Notes on vegetational changes: General decline in arboreal pollen, but fairly low incidence of non-arboreal pollen.
Bibliography: Edwards 1978

**NM 1 A'Bhuilg Bhith**

Location: Oban  
County/Region: Strathclyde  
NGR: NM 873 277  
Type of evidence: pollen

Rejected dates

Lab No: SRR-1265 4905±60 BP (2955 bc), 3904(3698)3534 cal.BC  Dated Material: lake mud
Notes on date: 810-815cm Dates elm decline. Fits in date sequence.
Bibliography: SURRC 043/1277

Lab No: SRR-1181 5820±40 BP (3870 bc), 4789(4722)4585 cal.BC  Dated Material: lake mud
Notes on date: 968-972cm Elm decline. Erosion has increased the reworked organic component of the sediment and caused age reversal.
Notes on vegetational changes: Erosion at elm decline.
Bibliography: Harkness 1981 p297-8

Lab No: SRR-1182 6040±40 BP (4090 bc), 5194(4941)4847 cal.BC  Dated Material: lake mud
Notes on date: 1007.5-1012.5cm Elm decline. Erosion has increased the reworked organic component of the sediment and caused age reversal.
Notes on vegetational changes: Erosion at elm decline.
Bibliography: Harkness 1981 p297-8

**NO 1 Black Loch II**

Location: Ochil Hills  
County/Region: Fife  
NGR: NO 261 149  
Type of evidence: pollen

Accepted dates

Lab No: SRR-2619 5180±80 BP (3230 bc), 4231(3994)3790 cal.BC  Dated Material: lake mud
Notes on date: 407.5-412.5cm Elm values low after first elm decline. Fits well in date sequence.
Notes on vegetational changes: Appearance of *Plantago lanceolata* at start of elm decline, and decline in other tree species.
Bibliography: Whittington et al 1991, SURRC 251/0184
Rejected dates

Lab No: ***-**** 4940 ± BP (2990 bc), 3782(3775,3751,3706)3696 cal.BC Dated Material: peat
Notes on date: Interpolated date for renewed fall in elm.
Notes on vegetational changes: Associated with continued oak decline and increase in grasses, the presence of cereal-type pollen and increased erosion.
Bibliography: Whittington et al 1991

NO 2 Caenlochan Glen
Location: near Braemar County/Region: Grampian
Type of evidence: pollen

Rejected dates

Lab No: 0-1447 4760±80 BP (2810 bc), 3773(3615,3579,3527)3360 cal.BC Dated Material: peat
Notes on date: 2.05-2.0m Elm decline.
Bibliography: Switsur 1981 p89-90

NO 3 Coire Fee
Location: Glen Clova County/Region: Grampian
Type of evidence: pollen

Rejected dates

Lab No: 0-1422 6060±100 BP (4110 bc), 5230(4992,4979,4946)4780 cal.BC Dated Material: lake mud
Notes on date: Elm decline. Fits in date sequence.
Notes on vegetational changes: Pine also declines.
Bibliography: Switsur 1981 p88-9

NO 5 Loch Rossie
Location: County/Region: Fife
Type of evidence: pollen

Rejected dates

Lab No: SRR-2983 5300±70 BP (3350 bc), 4340(4220,4200, 4147, 4110, 4088, 4060,4048)3990 cal.BC Dated Material: lake mud
Notes on date: 327.5-332.5cm Elm decline. Core I not very closely dated.
Bibliography: SURRC 298/0885
NR 1 Drimnagall
Location: near Tayvallich  County/Region: Strathclyde  NGR: NR 713 847
Type of evidence: pollen

Rejected dates
Lab No: Q-1316  6035±100  BP (4085 bc), 5230(4940,4911,4910)4730 cal.BC  Dated Material: ?
Notes on date: D 350-355cm Elm decline.
Notes on vegetational changes: Sustained decline in Betula.
Bibliography: Switsur and West 1975 P304-5
Lab No: Q-1317  6576±110  BP (4626 bc), 5650(5486)5245 cal.BC  Dated Material: ?
Notes on date: D 450-455 “marked decline in Ulmus”
Bibliography: Switsur and West 1975 P304-5

NR 2 Loch A’Mhuilinn
Location: Arran  County/Region: Strathclyde  NGR: NR 940 496
Type of evidence: pollen

Accepted dates
Lab No: SRR-2578  5360±100  BP (3410 bc), 4453(4235)3990 cal.BC  Dated Material: peat
Notes on date: 3.73-3.77m Elm decline.
Notes on vegetational changes: arboreal pollen/non-arboreal pollen fluctuations. High values for grass pollen, but few other non-arboreal pollen and no charcoal.
Bibliography: Boyd and Dickson 1987

NR 3 Loch Cill an Aonghais
Location:  County/Region: Strathclyde  NGR: NR 776 617
Type of evidence: pollen

Rejected dates
Lab No: Q-1414  5210±80  BP (3260 bc), 4240(4032,4026,4001)3815 cal.BC  Dated Material: lake mud
Notes on date: 543-537cm first elm decline. Fits well in date sequence.
Bibliography: Switsur 1981 p87-8
NR 4 Machrie Moor
Location: Arran County/Region: Strathclyde NGR: NR 905315
Type of evidence: pollen

Accepted dates
Lab No: GU-1346 4740±85 BP (2790 bc), 3771(3604,3585,3518)3350 cal.BC Dated Material: peat
Notes on date: 256-264cm First elm decline, very sharp fall in elm over a period of less than 120 years.
Notes on vegetational changes: Plantago lanceolata and other cultural weeds are present prior to the elm decline. Pine declines with elm, and heathers increase. Charcoal levels high.

NR 5 Newton
Location: Islay County/Region: Strathclyde NGR: NR 1628
Type of evidence: pollen

Accepted dates
Lab No: GU-1895 4950±80 BP (3000 bc), 3970(3776,3744,3708)3537 cal.BC Dated Material: peat
Notes on date: Dated material from just after elm decline.
Notes on vegetational changes: Elm decline associated with decline in other arboreal pollen, and appearance of pastoral and arable weeds.
Bibliography: McCullagh 1991

Rejected dates
Lab No: **-*** 5100± BP (3150 bc), 3976(3957,3838,3826)3819 cal.BC Dated Material: peat
Notes on date: 210cm Pollen concentration is low in this zone, and the elm curve during the zone cannot be presented on the large scale graph used
Notes on vegetational changes: Elm decline associated with decline in other arboreal pollen, and appearance of pastoral and arable weeds.
Bibliography: McCullagh 1991

NR 6 Tavnish Fen
Location: North Knapdale County/Region: Strathclyde NGR: NR 738854
Type of evidence: pollen

Rejected dates
Lab No: Q-1180 6070±120 BP (4120 bc), 5294(4996,4964,4948)4720 cal.BC Dated Material: peat
Notes on date: 730-740cm "pollen curves indicate region of elm decline, but frequency change is small."
Bibliography: Switsur and West 1975 p40
**NS 1 Dubh Loch**

Location: near Loch Lomond  
County/Region: Strathclyde  
NGR: NS 377  
Type of evidence: pollen

Rejected dates

Lab No: SRR-1219  
4915±85 BP (2965 bc), 3950(3771,3768,3700)3518 cal.BC  
Dated Material: lake mud

Notes on date: 300-305cm "dates the Ulmus decline." Fits in date sequence.

Bibliography: SURRC 036/0977

**NS 2 Flanders Moss**

Location: near Stirling  
County/Region: Central region  
NGR: NS  
Type of evidence: pollen

Accepted dates

Lab No: Q-577  
4570±120 BP (2620 bc), 3633(3348)2920 cal.BC  
Dated Material: peat

Notes on date: Just above end of the elm decline. Appearance of ash.


Lab No: Q-578a  
5192±120 BP (3242 bc), 4340(3997)3708 cal.BC  
Dated Material: peat

Notes on date: 325-327cm Just below start of elm decline. Appearance of ash.


Lab No: Q-578b  
5014±120 BP (3064 bc), 4040(3890,3787)3531 cal.BC  
Dated Material: peat

Notes on date: 325-327cm Recounted date from just below start of elm decline.

Notes on vegetational changes: No evidence of clearance or increase in herbs at elm decline. Appearance of ash.


**NT 1 Din Moss**

Location: near Kelso  
County/Region: Borders  
NGR: NT 805 315  
Type of evidence: pollen

Accepted dates

Lab No: Q-1062  
5341±70 BP (3391 bc), 4350(4231,4191,4164)4000 cal.BC  
Dated Material: peat

Notes on date: 50-54cm. Final step of elm decline.

Notes on vegetational changes: Increase of alder and herbs.

Bibliography: Hibbert and Switsur 1976, Switsur and West 1973 p536
Lab No: Q-1063 5392±70 BP (3442 bc), 4360(4290,4244)4009 cal.BC Dated Material: peat
Notes on date: 54-58cm. "point of inflection of Ulmus decline curve."
Notes on vegetational changes: Increase of alder and herbs.
Bibliography: Hibbert and Switsur 1976, Switsur and West 1973 p536

Lab No: Q-1064 5441±70 BP (3491 bc), 4458(4338)4047 cal.BC Dated Material: peat
Notes on date: 58-62cm. Onset of elm decline.
Notes on vegetational changes:
Bibliography: Hibbert and Switsur 1976, Switsur and West 1973 p536

**NT 2** Kingside Loch
Location: Buccleuch  County/Region: Dumfries and Galloway  NGR: NT 342
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Type of evidence: pollen

Rejected dates

Lab No: SRR-2789 5210±60 BP (3260 bc), 4229(4032,4026,4001)3823 cal.BC Dated Material: lake mud
Notes on date: 840-850cm Dates elm decline. Fits in date sequence.
Notes on vegetational changes: Clearance of catchment area.
Bibliography: SURRC 274/0984

**NX 1** Clatteringshaws Loch
Location: Cairn Edward Forest  County/Region: Dumfries and Galloway  NGR: NX 54 77
Type of evidence: pollen

Rejected dates

Lab No: Q-878 5080±100 BP (3130 bc), 4216(3946,3846,3822)3690 cal.BC Dated Material: wood [pine]
Notes on date: 87cm Date on pine stump in wood peat. Related to pollen evidence of elm decline. Single date.
Notes on vegetational changes:
Bibliography: Birks 1972 p197, Switsur et al 1970 p595

**NX 2** Loch Doon
Location: Dyle and Carrick  County/Region: Dumfries and Galloway  NGR: NX 483 931
Type of evidence: pollen

Rejected dates

Lab No: **-*** 5000± BP (3050 bc), 3930(3785)3710 cal.BC Dated Material:
Notes on date: 199-196cm Interpolated date for a decline in arboreal pollen probably equivalent to the elm decline but elm is sparse in the area. Possible contamination from soil erosion.
Notes on vegetational changes: Evidence of erosion. General decline in arboreal pollen.
Bibliography: Carter 1986

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NY 1 Angle Tarn
Location: Bowfell  County/Region: Cumbria  NGR: NY 24 06
Type of evidence: pollen

Rejected dates
Lab No: K-1058  5210±120 BP (3260 bc), 4340(4032,4026,4001)3723 cal.BC  Dated Material: gyttja
Notes on date: Single date on elm decline. Possible contamination from soil erosion.
Notes on vegetational changes: Reduction of pine and birch, increase of herbs and soil erosion. Presence of charcoal.
Bibliography: Pennington 1975, Annable 1987

NY 2 Blea Tarn
Location: Langdale  County/Region: Cumbria  NGR: NY 293 044
Type of evidence: pollen

Accepted dates
Lab No: K-959  5530±120 BP (3580 bc), 4675(4360)4046 cal.BC  Dated Material: lake mud
Notes on date: Earlier slight elm decline.
Notes on vegetational changes: Fluctuations in arboreal pollen and non-arboreal pollen.

Rejected dates
Lab No: SRR-17  4956±60 BP (3006 bc), 3950(3777,3740,3709)3640 cal.BC  Dated Material: lake mud
Notes on date: Elm decline [end]. Soil erosion may cause dating errors.
Notes on vegetational changes: Soil erosion at elm decline. Ash curve appears and becomes continuous just before elm decline. Increase in herbs and grasses, especially Plantago lanceolata. Pine and birch decline.
Lab No: K-957  5100±120 BP (3150 bc), 4231(3957,3838,3826)3648 cal.BC  Dated Material: lake mud
Notes on date: Elm decline [start]. Soil erosion may cause dating errors.
Notes on vegetational changes: Soil erosion at elm decline. Ash curve appears and becomes continuous just before elm decline. Increase in herbs and grasses, especially Plantago lanceolata. Pine and birch decline.
Lab No: SRR-18  5235±55 BP (3285 bc), 4233(4036,4016,4007)3970 cal.BC  Dated Material: lake mud
Notes on date: Elm decline [start]. Soil erosion may cause dating errors.
Notes on vegetational changes: Soil erosion at elm decline. Ash curve appears and becomes continuous just before elm decline. Increase in herbs and grasses, especially Plantago lanceolata. Pine and birch decline.
**NY 3 Blelham Tarn**

Location: near Hawkshead  
County/Region: Cumbria  
NGR: NY 365 005  
Type of evidence: pollen

Accepted dates

Lab No: SRR-261 4860±60 BP (2910 bc), 3780(3676,3663,3648)3515 cal.BC  
Dated Material: lake mud  
Notes on date: 323-329cm. "Agree well with the position of the elm decline."  
Bibliography: Pennington 1965, Harkness and Wilson 1979 p218-9

Rejected dates

Lab No: SRR-263 5440±60 BP (3490 bc), 4453(4338)4153 cal.BC  
Dated Material: lake mud  
Notes on date: 348-356cm. Dates the elm decline. Reversal of sequence due to increased erosion.  
Notes on vegetational changes: Increased erosion.  
Bibliography: Pennington 1965, Harkness and Wilson 1979 p218-9

Lab No: SRR-262 5540±60 BP (3590 bc), 4510(4363)4249 cal.BC  
Dated Material: lake mud  
Notes on date: 335-342cm. Dates the elm decline. Reversal of sequence due to increased erosion.  
Notes on vegetational changes: Increased erosion.  
Bibliography: Pennington 1965, Harkness and Wilson 1979 p218-9

**NY 4 Burnmoor Tarn**

Location: Eskdale  
County/Region: Cumbria  
NGR: NY 18 04  
Type of evidence: pollen

Rejected dates

Lab No: **-*** 5210± BP (3260 bc), 4038(4032,4026,4001)3993 cal.BC  
Dated Material: estimated  
Notes on date: Dated by comparison to other dated sites.  
Notes on vegetational changes: Elm decline slight and regeneration complete. No cultural pollens and only slight increase in grass.  
Bibliography: Pennington 1965, Smith and Pilcher 1973
NY 6  Dufton Moss  
Location: Upper Teesdale  
County/Region: Co. Durham  
NGR: NY 872 293  
Type of evidence: pollen  

Accepted dates  
Lab No: SRR-509  4560±60 BP (2610 bc), 3500(3344)3044 cal.BC  
Dated Material: peat  
Notes on date: 245cm end of primary elm decline  
Bibliography: Harkness 1981 p263  

Lab No: SRR-510  5360±70 BP (3410 bc), 4350(4235)4002 cal.BC  
Dated Material: peat  
Notes on date: 280cm start of primary elm decline  
Notes on vegetational changes:  
Bibliography: Harkness 1981 p263

NY 7  Ennerdale Water 1  
Location: Ennerdale  
County/Region: Cumbria  
NGR: NY 105 150  
Type of evidence: pollen  

Rejected dates  
Lab No: SRR-309  5130±60 BP (3180 bc), 4040(3974)3790 cal.BC  
Dated Material: lake mud  
Notes on date: Dates the elm decline. Fits well in date sequence.  
Bibliography: Harkness and Wilson 1979 p219-20

NY 8  Ennerdale Water 2  
Location: Ennerdale  
County/Region: Cumbria  
NGR: NY 3509 9155  
Type of evidence: pollen  

Rejected dates  
Lab No: SRR-2214  4780±100 BP (2830 bc), 3780(3622,3572,3535)3350 cal.BC  
Dated Material: lake mud  
Notes on date: 320-330cm Above elm decline.  
Bibliography: SURRC 009/1276  

Lab No: SRR-2215  5490±120 BP (3540 bc), 4658(4350)4009 cal.BC  
Dated Material: lake mud  
Notes on date: 365-375cm Below elm decline.  
Notes on vegetational changes: First appearance of Plantago lanceolata  
Bibliography: SURRC 009/1276
NY 9 Fox Earth Gill

Location: Cronkley Fell
Type of evidence: pollen
County/Region: Co. Durham
NGR: NY 84 28

Accepted dates
Lab No: SRR-379

4780±50 BP (2830 bc), 3700(3622,3572,3535)3378 cal.BC
Dated
Material: peat
Notes on date: Start of elm decline.
Bibliography: Harkness 1981 p260

NY10 Midgeholme Moss

Location: near Brampton
Type of evidence: pollen
County/Region: Cumbria
NGR: NY 613 665

Rejected dates
Lab No: OxA-2326

5270±90 BP (3320 bc), 4340(4213,4207,4134,4125,4043)3823 cal.BC
Dated
Material: detrital mud
Notes on date: From elm decline horizon. Few other dates on the core.
Bibliography: Hedges et al 1991 p286-7

NY11 Scaleby Moss

Location: Scaleby
Type of evidence: pollen
County/Region: Cumbria
NGR: NY 431 635

Accepted dates
Lab No: Q-171

4932±134 BP (2982 bc), 4000(3773,3756,3704)3380 cal.BC
Dated
Material: peat
Notes on date: 69-71cm End elm decline.
Bibliography: Walker 1966, Godwin and Willis 1959 p63

Lab No: Q-170

4994±122 BP (3044 bc), 4037(3784)3521 cal.BC
Dated
Material: peat
Notes on date: 71-73cm During elm decline.
Notes on vegetational changes:
Bibliography: Walker 1966, Godwin and Willis 1959 p63

NY12 Simy Folds

Location: Upper Teesdale
Type of evidence: pollen
County/Region: Co. Durham
NGR: NY 89 26

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Rejected dates

Lab No: ???-????  5920±100 BP (3970 BC), 5194(4833,4825,4795)4579 cal.BC Dated
Material: peat
Notes on date: 1.02m Dated material is just above a slight decline in elm (1.0-0.9m).
Notes on vegetational changes: Elm decline associated with decrease of pine and increase
of herbs, Coryloid pollen and alder. Elm pollen is at a low level in this area, so
decline is not very secure.
Bibliography: Coggins 1986

NY13 Thrang Moss
Location: County/Region: Cumbria NGR: NY
Type of evidence: pollen

Accepted dates

Lab No: Q-247  4360±130 BP (2410 BC), 3370(3018,3001,2926)2618 cal.BC Dated
Material: peat
Notes on date: 26-29cm Dates "strongest" elm decline. Possible contamination by rootlets.
Notes on vegetational changes: No clearance indicators until slightly later.
Bibliography: Pennington 1970, Godwin and Willis 1961 p75

Lab No: Q-249  4360±130 BP (2410 BC), 3370(3018,3001,2926)2618 cal.BC Dated
Material: peat
Notes on date: 20-23cm Elm decline. Possible contamination by rootlets.
Notes on vegetational changes: No clearance indicators until slightly later.
Bibliography: Pennington 1970, Godwin and Willis 1961 p75

NY14 Valley Bog
Location: Upper Teesdale County/Region: Cumbria NGR: NY 763 331
Type of evidence: pollen

Accepted dates

Lab No: SRR-91  4794±55 BP (2844 BC), 3700(3627,3565,3542)3379 cal.BC Dated
Material: peat
Notes on date: 312.5-317.5cm Start second elm decline. The "real" elm decline.
Notes on vegetational changes: In crease in herbs and bracken, massive increase in grass
after elm decline, agricultural weeds and cereal-type pollen.

Lab No: SRR-93  5945±50 BP (3995 BC), 4940(4893,4885,4843)4727 cal.BC Dated
Material: peat
Notes on date: 426-431cm Underlies first elm decline.
Notes on vegetational changes: Elm falls unsteadily between 415-430cm, associated with
increase in Coryloid, peaks in non-arboreal pollen, increase in bracken, and a
single grain of Plantago lanceolata
Lab No: SRR-92  5950±60 BP (4000 bc), 5034(4894,4883,4845)4720 cal.BC  Dated Material: peat
Notes on date: 421-426cm Overlies first elm decline.
Notes on vegetational changes: Elm falls unsteadily between 415-430cm, associated with increase in Coryloid, peaks in non-arboreal pollen, increase in bracken, and a single grain of *Plantago lanceolata*

NY15  Wheelhead Moss
Location: Upper Teesdale  County/Region: Co. Durham  NGR: NY 805
305  Type of evidence: pollen

Accepted dates

Lab No: GaK-2915  5220±120 BP (3270 bc), 4340(4033,4022,4003)3780 cal.BC  Dated Material: peat
Notes on date: 203cm Low *Ulmus* frequency.
Notes on vegetational changes: Presence of herbs at elm decline, but remain low. Elm decline not very pronounced and recovers completely. Declines again later.

NZ 1  Bishop Middleham
Location: Bishop Middleham  County/Region: Durham  NGR: NZ 324 304
Type of evidence: pollen

Accepted dates

Lab No: GaK-2071  5180±110 BP (3230 bc), 4322(3994)3710 cal.BC  Dated Material: peat
Notes on date: 80cm Dates first appearance *Plantago lanceolata*. Elm decline at 90cm, but probably closer to GaK-2071 because of change in rate of peat growth. Lime also declines.
Notes on vegetational changes: First appearance *Plantago lanceolata*, 10cm above elm decline. Lime also declines.
Bibliography: Bartley *et al* 1976, Kigoshi *et al* 1973 p45

Rejected dates

Lab No: GaK-2070  6760±120 BP (4810 bc), 5953(5637)5428 cal.BC  Dated Material: peat
Notes on date: 100cm. Elm decline at 90cm but probably closer to GaK-2071 because of change in rate of peat growth.
Notes on vegetational changes:
Bibliography: Bartley *et al* 1976, Kigoshi *et al* 1973 p45
NZ.2 Hartlepool WH-2
Location: Hartlepool  County/Region: Cleveland  NGR: NZ 50 32
Type of evidence: pollen

Accepted dates
Lab No: Hv-3459  5240±70 BP (3290 bc), 4240(4037,4014,4008)3825 cal.BC  Dated Material: peat
Notes on date: Dated material taken from shortly before elm decline.
Notes on vegetational changes: Decline in lime and other arboreal pollen. Increase in non-arboreal pollen and presence of charcoal. Cereal-type pollen present in pre-elm decline clearance phase.
Bibliography: Tooley 1978, Annable 1987

Lab No: Hv-5217  5215±80 BP (3265 bc), 4240(4033,4024,4002)3816 cal.BC  Dated Material: peat
Notes on date: Elm decline.
Notes on vegetational changes: Associated with the decline in lime and other arboreal pollen, increase in non-arboreal pollen, and charcoal horizons. Low cereal pollen frequencies from pre-elm decline clearance phase.
Bibliography: Tooley 1978, Annable 1987

NZ.3 Mordon Carr
Location: Mordon  County/Region: Co. Durham  NGR: NZ 321 253
Type of evidence: pollen

Accepted dates
Lab No: SRR-476  5240±70 BP (3290 bc), 4240(4037,4014,4008)3825 cal.BC  Dated Material: mud
Notes on date: 200-205cm Underlies the elm decline.
Bibliography: Bartley et al 1976, Harkness and Wilson 1979 p225

Lab No: SRR-475  5310±60 BP (3360 bc), 4340(4223,4198, 4151, 4051,4050)3990 cal.BC  Dated Material: mud
Notes on date: 192.5-197.5cm Elm decline.
Notes on vegetational changes: Associated with increase in sedge, bracken, grasses, and Coryloid pollen.
Bibliography: Bartley et al 1976, Harkness and Wilson 1979 p225

NZ.4 Neasham Fen
Location: Darlington  County/Region: Co. Durham  NGR: NZ 332 166
Type of evidence: pollen

Accepted dates
Lab No: SRR-102  5468±80 BP (3518 bc), 4470(4345)4049 cal.BC  Dated Material: lake mud
Notes on date: 335-340cm Elm decline. Fairly widely spaced dates on this core.
Notes on vegetational changes: Associated with some weed pollen and one cereal-type pollen grain, but low Gramineae.
SD 1  Barfield Tarn  
Location: Hycoemor  
County/Region: Cumbria  
Type of evidence: pollen  
NGR: SD 108 870

Rejected dates

Lab No: K-1057 5340±120 BP (3390 bc), 4457(4230,4191,4163)3825 cal BC  
Material: gytija  
Notes on date: Single date on first, slight elm decline. Soil erosion and possible compaction make the date unreliable.

Notes on vegetational changes: Associated with oak decline and increase in herbs, also appearance of charcoal, and cereal-type pollen. Soil erosion.  
Bibliography: Pennington 1975, Tauber 1968 p300

SD 2  Black Brook  
Location: Anglezark Moor  
County/Region: Lancashire  
Type of evidence: pollen  
NGR: SD 632 185

Rejected dates

Lab No: HAR-6210 4740±70 BP (2790 bc), 3690(3604,3585,3518)3360 cal BC  
Material: peat  
Notes on date: Elm decline.  

SD 3  Eshton Tarn  
Location: Gargrave  
County/Region: North Yorkshire  
Type of evidence: pollen  
NGR: SD 918 576

Rejected dates

Lab No: Birm-663 5010±110 BP (3060 bc), 4036(3786)3538 cal BC  
Material: lake mud  
Notes on date: 2.15-2.21m Dates elm decline and start of agriculture. Only 2 widely separated dates on this core.

Notes on vegetational changes: Ash and lime curves peak and fall immediately below the elm decline, increase in non-arboreal poll  

201
SD 4  Foulshaw Moss
Location: Grange over Sands  County/Region: Cumbria  NGR: SD 458 837
Type of evidence: pollen

Rejected dates

Lab No: CAR-543  3590±70 BP (1640 bc), 2140(1947)1750 cal.BC  Dated Material: peat
Notes on date: 125-126cm Core 1/B Elm decline.
Notes on vegetational changes: Increase in non-arboreal pollen.
Bibliography: Dresser 1985 p356

Lab No: CAR-554  3690±70 BP (1740 bc), 2300(2130,2074,2045)1890 cal.BC  Dated Material: peat
Notes on date: 137-138cm Core 1/A Elm decline.
Notes on vegetational changes: Increase in non-arboreal pollen.
Bibliography: Dresser 1985 p356

Lab No: UB-466  5065±100 BP (3115 bc), 4212(3940,3858,3819)3649 cal.BC  Dated Material: peat
Notes on date: 133-137cm Single date underlying elm decline. Core III.
Notes on vegetational changes: Increase in Coryloid pollen and slight decrease in lime at elm decline. No significant increase in herbs.
Bibliography: Smith 1959, Smith et al 1971 p460-1

SD 5  Red Moss
Location: Horwich  County/Region: Lancashire  NGR: SD 631 103
Type of evidence: pollen

Accepted dates

Lab No: Q-912  5010±80 BP (3060 bc), 3990(3786)3640 cal.BC  Dated Material: peat
Notes on date: 132-134cm End elm decline.
Notes on vegetational changes: Decline in lime and ash, and increase in non-arboreal pollen, including Plantago lanceolata Followed by recovery of elm.

Lab No: Q-913  5060±80 BP (3110 bc), 4043(3938,3867,3818)3700 cal.BC  Dated Material: peat
Notes on date: 139-140cm Start elm decline.
Notes on vegetational changes: Decline in lime and ash, and increase in non-arboreal pollen, including Plantago lanceolata Followed by recovery of elm.
SD 6  Rishworth Moor
Location: near Huddersfield  County/Region: West Yorkshire  NGR: SD 988 173
Type of evidence: pollen

Accepted dates

Lab No: GaK-2822  5490±190 BP (3540 bc), 4780(4350)3828 cal.BC  Dated Material: mineral soil
Notes on date: 180cm Slight elm decline.
Notes on vegetational changes: Associated with appearance of bracken, Plantago lanceolata appears slightly later.
Bibliography: Bartley 1975

SD 7  Soyland Moor C
Location: Littleborough  County/Region: West Yorkshire  NGR: SD 975 186
Type of evidence: pollen

Accepted dates

Lab No: Q-2385  4565±50 BP (2615 bc), 3496(3346)3100 cal.BC  Dated Material: peat
Notes on date: End elm decline
Bibliography: Williams 1985, Hirons and Edwards 1986

Lab No: Q-2386  4865±50 BP (2915 bc), 3780(3686,3650)3524 cal.BC  Dated Material: peat
Notes on date: Start elm decline
Notes on vegetational changes: Most clearances at this site involve a decline in elm, and selection of this one as THE elm decline is rather arbitrary. Calluna increases along with other herbs.
Bibliography: Williams 1985, Hirons and Edwards 1986

SD 8  Sunset Hole
Location: Ingleborough  County/Region: North Yorkshire  NGR: SD 745 759
Type of evidence: pollen

Rejected dates

Lab No: SRR-2591  5520±90 BP (3570 bc), 4574(4358)4162 cal.BC  Dated Material: peat
Notes on date: 190-191cm Marks level of elm decline. Fits in date sequence.
Notes on vegetational changes: Associated with small peaks of clearance indicators.
Bibliography: SURRC 244/0983
SD10  The Arks I
Location: Ingleborough  County/Region: North Yorkshire  NGR: SD 748 751
Type of evidence: pollen

Rejected dates
Lab No: SRR-2546  5030±50 BP (3080 bc), 3980(3902,33883, 3812, 3792,3790)3702 cal.BC
Dated Material: peat
Notes on date: 146cm Dates elm decline. Fits in date sequence.
Notes on vegetational changes: Start of woodland disturbance.
Bibliography: SURRC 244/0983

SD11  White Moss
Location: Wigglesworth  County/Region: North Yorkshire  NGR: SD 792 546
Type of evidence: pollen

Rejected dates
Lab No: Birm-665  5080±100 BP (3130 bc), 4216(3946,3846,3822)3690 cal.BC
Dated Material: peat
Notes on date: 391cm Elm decline. Only 2 widely separated dates on this core.
Notes on vegetational changes: *Plantago lanceolata* and occasional cereal type pollen present immediately after elm decline, lime and ash peak and fall just before it.

SD12  Williamson's Moss
Location: Newbiggin  County/Region: Cumbria  NGR: SD 08 93
Type of evidence: pollen

Accepted dates
Lab No: SRR-3065  5440±70 BP (3490 bc), 4458(4338)4047 cal.BC
Dated Material: peat
Notes on date: Start of first elm decline. Mean of dates on humic and humin fractions, these sometimes being very different.
Notes on vegetational changes:

Lab No: **.***  5550± BP (3600 bc), 4458(4365)4356 cal.BC
Dated Material: peat
Notes on date: Mean age for elm decline at raised platforms.
Notes on vegetational changes: Associated with clearance indicators.
**SE 1 Bonfield Gill**
Location: North York Moors  County/Region: North Yorkshire  NGR: SE 598 958  
Type of evidence: pollen

Accepted dates

Lab No: HAR-4229  4890±80 BP (2940 bc), 3936(3695)3839 cal.BC  Dated Material: peat  
Notes on date: Dates clearance activity at the end of the elm decline.  
Notes on vegetational changes: Clearance indicators at end of elm decline, *Plantago lanceolata* present for first time. Also increase in bracken, *Melampyrum* and birch. Dramatic decrease in charcoal after elm decline.  
Bibliography: Simmons and Innes 1981

**SH 1 Cefn Graeanog Bog**
Location: near Caernavon  County/Region: Gwynedd  NGR: SH 453 487  
Type of evidence: pollen

Rejected dates

Lab No: CAR-108  4750±60 BP (2800 bc), 3690(3611,3582,3523)3370 cal.BC  Dated Material: peat  
Notes on date: 116-118cm about 10cm after elm decline.  
Bibliography: Dresser 1985 p341-2

**SH 2 Moel-y-Gerddi**
Location: Arduwy  County/Region: Gwynedd  NGR: SH 616 319  
Type of evidence: pollen

Accepted dates

Lab No: CAR-642  5200±80 BP (3250 bc), 4240(3998)3813 cal.BC  Dated Material: peat  
Notes on date: 80-82cm Closest date to elm decline (at 78cm), and first appearance of *Plantago lanceolata*. Interpolated date used in preference. Dates fit well in sequence.  
Notes on vegetational changes: First appearance of *Plantago lanceolata* Just below elm decline.  

Rejected dates

Lab No: **-***  5140± BP (3190 bc), 3992(3979)3828 cal.BC  Dated Material: peat  
Notes on date: 78cm Interpolated date for elm decline, probably quite accurate because core is well dated.  
Notes on vegetational changes: arboreal pollen is reduced sharply, especially alder and elm, first *Plantago lanceolata* present, and increase other non-arboreal pollen. Followed by recovery in arboreal pollen.  
Bibliography: Chambers and Price 1985, 1988
SH3. Nant Ffrancon
Location: Bethesda County/Region: Gwynedd NGR: SH 623 633
Type of evidence: pollen

Accepted dates

Lab No: Q-905 4870±60 BP (2920 bc), 3780(3691)3519 cal.BC Dated Material: lake mud
Notes on date: 190-193cm End elm decline.
Bibliography: Hibbert and Switsur 1976, Switsur and West 1973 p156-8

Lab No: Q-904 5054±70 BP (3104 bc), 4000(3935,3872,3817)3700 cal.BC Dated Material: lake mud
Notes on date: 207-210cm Start elm decline.
Notes on vegetational changes: Other arboreal pollen remain high, non-arboreal pollen generally increase.
Bibliography: Hibbert and Switsur 1976, Switsur and West 1973 p156-8

Lab No: Q-903 5160±70 BP (3210 bc), 4221(3988)3790 cal.BC Dated Material: lake mud
Notes on date: 215-218cm Immediately before the elm decline.
Bibliography: Hibbert and Switsur 1976, Switsur and West 1973 p156-8

SJ2. Breidden Pond
Location: near Welshpool County/Region: Powys NGR: SJ 295 145
Type of evidence: pollen

Rejected dates

Lab No: CAR-143 4420±70 BP (2470 bc), 3350(3040)2910 cal.BC Dated Material: lake mud
Notes on date: 82-4cm Dates elm decline.
Notes on vegetational changes: Also decline of oak.
Bibliography: Dresser 1985 p342-3

SJ4. Park Road
Location: Meols, Wirral County/Region: Merseyside NGR: SJ 2383 9015
Type of evidence: pollen

Rejected dates

Lab No: SRR-2929 5120±50 BP (3170 bc), 4034(3969)3790 cal.BC Dated Material: peat
Notes on date: 80-84cm Corresponds with the elm decline. Fits in date sequence.
Bibliography: SURRC 273/0884

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SK 3  Hipper Sick
Location: County/Region: Derbyshire  NGR: SK
Type of evidence: pollen

Rejected dates
Lab No: GaK-2294  4770±100 BP (2820 bc), 3780(3619,3576,3531)3350 cal.BC Dated Material: pollen
Notes on date: Elm decline.
Notes on vegetational changes: First appearance of Plantago lanceolata at lowest elm values. Also other non-arboreal pollen.
Bibliography: Hicks 1971

SK 4  Totley Moss
Location: Totley  County/Region: Derbyshire  NGR: SK 2792 7844
Type of evidence: pollen

Rejected dates
Lab No: GaK-2293  4990±140 BP (3040 bc), 4214(3783)3385 cal.BC Dated Material: peat
Notes on date: Elm decline.
Notes on vegetational changes: First appearance of Plantago lanceolata at lowest elm values. Also other non-arboreal pollen.
Bibliography: Hicks 1971

SN 1  Cefn Gwernffrwd [core B]
Location: Llandovery  County/Region: Dyfed  NGR: SN 735 494
Type of evidence: pollen

Rejected dates
Lab No: CAR-7  3850±80 BP (1900 bc), 2569(2334)2044 cal.BC Dated Material: peat
Notes on date: 72-73cm Elm decline.
Bibliography: Dresser 1985 p355

Lab No: CAR-45  4930±90 BP (2980 bc), 3970(3773,3758,3704)3520 cal.BC Dated Material: peat
Notes on date: 212-216cm. Elm decline. Fits well in date sequence.
Bibliography: Dresser 1985 p355
SN 2 Tregaron Bog SE
Location: Tregaron
County/Region: Dyfed
NGR: SN 685 621
Type of evidence: pollen

Accepted dates

Lab No: Q-943 4893±70 BP (2943 bc), 3901(3696)3521 cal.BC Dated Material: peat
Notes on date: 163-165cm End of elm decline.
Notes on vegetational changes: Associated with decline of lime, ash and birch and increase of hazel.
Bibliography: Hibbert and Switsur 1976, Switsur and West 1972 p240-1

Lab No: Q-942 4990±70 BP (3040 bc), 3980(3783)3640 cal.BC Dated Material: peat
Notes on date: 167-169cm Mid point of elm decline.
Notes on vegetational changes: Associated with decline of lime, ash and birch and increase of hazel.
Bibliography: Hibbert and Switsur 1976, Switsur and West 1972 p240-1

Lab No: Q-941 5110±70 BP (3160 bc), 4040(3963,3834,3828)3721 cal.BC Dated Material: peat
Notes on date: 172-174cm Start main elm decline.
Notes on vegetational changes: Associated with decline of lime, ash and birch and increase of hazel.
Bibliography: Hibbert and Switsur 1976, Switsur and West 1972 p240-1

Rejected dates

Lab No: CAR-37 4800±90 BP (2850 bc), 3780(3629,3560,3544)3370 cal.BC Dated Material: peat
Notes on date: 123cm Mor deposit containing charcoal, near elm decline.
Notes on vegetational changes: Presence of charcoal close to the elm decline.
Bibliography: Dresser 1985 p343-5

Lab No: CAR-17 4720±80 BP (2770 bc), 3690(3510,3396,3388)3340 cal.BC Dated Material: peat
Notes on date: 57cm Elm decline.
Bibliography: Dresser 1985 p343-5

Lab No: CAR-12 4770±70 BP (2820 bc), 3771(3619,3576,3531)3370 cal.BC Dated Material: peat
Notes on date: 65cm Elm decline.
Notes on vegetational changes:
Bibliography: Dresser 1985 p343-5
SO 1  Ashmoor Common
Location: Severn valley  County/Region: Hereford and Worcester  NGR: SO 852
Type of evidence: pollen

Rejected dates
Lab No: **-*** 5500± BP (3550 bc), 4361(4353)4344 cal.BC Dated Material: peat
Notes on date: Interpolated date for the elm decline. Single date on base of core so interpolated date is hardly reliable.
Notes on vegetational changes: Lime high at elm decline. Grass and Plantago lanceolata increase from this point. Peak in hazel.
Bibliography: Brown 1982

SS 1 Waun-Fignen-Felen
Location: Abereraf  County/Region: Powys  NGR: SS 825 179
Type of evidence: pollen

Accepted dates
Lab No: CAR-442 3520±70 BP (1570 bc), 2040(1883)1680 cal.BC Dated Material: peat
Notes on date: WFF/E1888 83cm Elm decline.
Notes on vegetational changes: Open habitat species fairly common before first elm decline, so hard to tell how they respond to it.

Notes on date: WFF/B46.5N 119-120cm Elm decline.
Notes on vegetational changes: Open habitat species fairly common before first elm decline, so hard to tell how they respond to it.

Lab No: CAR-333 3710±60 BP (1760 bc), 2300(2135,2052,2050)1940 cal.BC Dated Material: peat
Notes on date: WFF/A78E 52-53cm Elm decline.
Notes on vegetational changes: Open habitat species fairly common before first elm decline, so hard to tell how they respond to it.

Lab No: CAR-637 3960±70 BP (2010 bc), 2855(2470)2290 cal.BC Dated Material: peat
Notes on date: WFF/E13N 175-6cm Elm decline.
Notes on vegetational changes: Open habitat species fairly common before first elm decline, so hard to tell how they respond to it.

Lab No: CAR-623 4810±80 BP (2860 bc), 3780(3633,3552,3549)3370 cal.BC Dated Material: peat
Notes on date: WFF/EE17.5E 51cm Elm decline.
Notes on vegetational changes: Open habitat species fairly common before first elm decline, so hard to tell how they respond to it.

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Lab No: CAR-339 4870±80 BP (2920 bc), 3907(3691)3385 cal.BC Dated Material: peat
Notes on date: WFF/B32S 24-25cm Elm decline.

Lab No: CAR-427 4900±80 BP (2950 bc), 3940(3691)3516 cal.BC Dated Material: peat
Notes on date: WFF/E1N 42-43cm Elm decline. Fits well in date sequence.

Lab No: CAR-687 5020±70 BP (3070 bc), 3990(3895,3887,3810,3788)3690 cal.BC Dated Material: peat
Notes on date: WFF/G00 253-256cm Elm decline. Fits well in date sequence.

Lab No: CAR-500 5220±80 BP (3270 bc), 4240(4033,4022,4003)3817 cal.BC Dated Material: peat
Notes on date: WFF/B90S 8cm Elm decline. Fits well in date sequence.

Lab No: CAR-326 5240±80 BP (3290 bc), 4323(4037,4014,4008)3821 cal.BC Dated Material: peat
Notes on date: WFF/A16W 32cm Elm decline. Fits well in date sequence.

Lab No: CAR-638 5280±80 BP (3330 bc), 4340(4215,4205,4138,4120,4044)3829 cal.BC Dated Material: peat
Notes on date: WFF/E13N 223-224cm Elm decline. Fits well in date sequence.

Lab No: CAR-506 6060±80 BP (4110 bc), 5230(4992,4979,4946)4790 cal.BC Dated Material: peat
Notes on date: WFF/B125N 32cm Elm decline. Fits well in date sequence.

ST 1 Abbot's Way
Location: Somerset Levels  County/Region: Somerset  NGR: ST 421 427
Type of evidence: pollen
Rejected dates

Lab No: SRR-541 4660±60 BP (2710 bc), 3625(3493,3480,3377)3149 cal.BC Dated Material: peat
Notes on date: 160-162cm Last date on elm decline.
Bibliography: Harkness 1981 p276-7

Lab No: SRR-542 4770±50 BP (2820 bc), 3690(3619,3576,3531)3380 cal.BC Dated Material: peat
Notes on date: 171-173cm First date on elm decline.
Bibliography: Harkness 1981 p276-7
ST 2 Bridgewater Bay
Location: Stolford  County/Region: Somerset  NGR: ST 22 46
Type of evidence: pollen

Rejected dates

Lab No: NPL-147  5380±95 BP (3430 bc), 4455(4241)4000 cal.BC  Dated Material: wood peat
Notes on date: Just before the elm decline. Bore hole 2. Only one date on this core.
Bibliography: Callow and Hassall 1968 p116

ST 3 Sweet Track
Location: Shapwick Heath  County/Region: Somerset  NGR: ST 422 403
Type of evidence: pollen

Accepted dates

Lab No: Q-962  5150±65 BP (3200 bc), 4216(3983)3790 cal.BC  Dated Material: wooden peg [hazel]
Notes on date: Date on wood from track contemporary with the elm decline.
Notes on vegetational changes: Elm decline closely followed by lime decline. General clearance represented by fluctuations in oak and increase in herbs at time of track construction and elm decline. Wood from clearance probably used to build the track.

Lab No: Q-966  5159±76 BP (3209 bc), 4224(3988)3790 cal.BC  Dated Material: wooden slat [hazel]
Notes on date: Date on wood from track contemporary with the elm decline.
Notes on vegetational changes: Elm decline closely followed by lime decline. General clearance represented by fluctuations in oak and increase in herbs at time of track construction and elm decline. Wood from clearance probably used to build the track.

Lab No: Q-963  5218±75 BP (3265 bc), 4240(4033,4023,4003)3819 cal.BC  Dated Material: wooden peg [hazel]
Notes on date: Date on wood from track contemporary with the elm decline.
Notes on vegetational changes: Elm decline closely followed by lime decline. General clearance represented by fluctuations in oak and increase in herbs at time of track construction and elm decline. Wood from clearance probably used to build the track.

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SU 3  Lambourn
Location: Lambourn  County/Region: Berkshire  NGR: SU 323 824
Type of evidence: pollen

Rejected dates

Lab No: GX-1178  5365±180 BP (3415 bc), 4655(4237)3790 cal.BC  Dated Material: charcoal
Notes on date: Dates elm decline, possibly effected by hard water error. Quoted in Waton 1982.

SU 4  Winnall Moors
Location: Winchester  County/Region: Hampshire  NGR: SU 486 799
Type of evidence: pollen

Rejected dates

Lab No: HAR-4342  5630±90 BP (3680 bc), 4720(4468)4340 cal.BC  Dated Material: peat
Notes on date: Elm decline. Possible hard water error.
Notes on vegetational changes: Associated with cereal-type pollen, decrease in arboreal pollen and increase in herbs especially Plantago lanceolata. Extensive woodland clearance with pastoral and arable use.
Bibliography: Waton 1982

SY 1  Rimsmoor
Location:  County/Region: Dorset  NGR: SY 814 922
Type of evidence: pollen

Accepted dates

Lab No: HAR-3920  4690±70 BP (2740 bc), 3640(3501,3411,3382)3209 cal.BC  Dated Material: peat
Notes on date: End of elm decline.
Notes on vegetational changes: Associated with cereal-type pollen, and increase in other non-arboreal pollen.
Bibliography: Waton 1982

Lab No: HAR-3919  5150±70 BP (3200 bc), 4219(3983)3790 cal.BC  Dated Material: peat
Notes on date: Start of elm decline.
Notes on vegetational changes: Associated with cereal-type pollen, and increase in other non-arboreal pollen.

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SZ 1  Gatcombe Withy Beds
Location: Medina valley County/Region: Isle of Wight NGR: SZ 502 858
Type of evidence: pollen

Accepted dates

Lab No: SRR-1338 4850±45 BP (2900 be), 3777(3645)3521 cal.BC Dated Material: peat
Notes on vegetational changes: Elm declines 15-2%, pine also decreases, shrubs and non-
arboreal pollen increase. Cereal-type pollen recorded just above elm decline. *Plantago lanceolata* first appears before the elm decline, possibly in early clearings.

Bibliography: Scaife 1988

TG 1  Sea Mere
Location: County/Region: Norfolk NGR: TG
Type of evidence: pollen

Rejected dates

Lab No: Q-1048 4986±115 BP (3036 be), 4033(3782)3523 cal.BC Dated Material: lake mud
Notes on date: Quoted by Bennett as date for elm decline at Sea Mere.

Bibliography: Bennett 1988

TL 1  Hockham Mere
Location: Great Hockham County/Region: Norfolk NGR: TL 935 937
Type of evidence: pollen

Accepted dates

Lab No: Q-1045 4585±120 BP (2635 be), 3640(3353)2920 cal.BC Dated Material: lake mud
Notes on date: 265-274cm End elm decline.

Bibliography: Switsur and West 1976 p540

Lab No: Q-1048 4986±115 BP (3036 be), 4033(3782)3523 cal.BC Dated Material: lake mud
Notes on date: 300-308cm Mid point of the elm decline. Fits well in date sequence.

Bibliography: Switsur and West 1973 p539-40

Rejected dates

Lab No: Q-2222 4500±100 BP (2550 be), 3510(3307,3235,3177,3163,3134,3112,3110)2910 cal.BC Dated Material: lake mud
Notes on date: Quoted by Bennett as elm decline at Hockham Mere.
Notes on vegetational changes:

Bibliography: Bennett 1988

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TL2  Holme Fen
Location: County/Region: Cambridgeshire  NGR: TL
Type of evidence: pollen

Rejected dates

Lab No: Q-406 4958±130 BP (3008 bc), 4034(3778,3739,3710)3383 cal.BC  Dated Material: wood [Alnus]
Notes on date: 205cm Dates Tilia decline which may equal elm decline in other areas. Fits in date sequence.
Notes on vegetational changes: Tilia decline and first appearance of agriculture.
Bibliography: Godwin and Willis 1960 p69

TL3  Peacock Farm
Location: Shippea Hill  County/Region: Cambridgeshire  NGR: TL 640 840
Type of evidence: pollen

Rejected dates

Lab No: Q-584 5455±120 BP (3505 bc), 4571(4342)4001 cal.BC  Dated Material: peat
Notes on date: Approximately associated with elm decline.
Notes on vegetational changes: First appearance of Plantago lanceolata.
Bibliography: Smith et al 1989, Clark and Godwin 1962

Lab No: **-** 5620± BP (3670 bc), 4504(4465)4403 cal.BC  Dated Material: peat
Notes on date: Interpolated date for first elm decline.
Notes on vegetational changes: Cereal type pollen appears before the first elm decline, weed pollen also pres.
Bibliography: Smith et al 1989, Clark and Godwin 1962

TQ1  Broad Marsh
Location: Thames estuary  County/Region:  NGR: TQ
Type of evidence: pollen

Rejected dates

Lab No: ??-?? 5220±65 BP (3270 bc), 4234(4033,4022,4003)3823 cal.BC  Dated Material:
Notes on date: Date quoted in Scaife 1988.
Notes on vegetational changes:
Bibliography: Scaife 1988

TQ2  New Dartford Tunnel
Location: Thames estuary  County/Region: Kent/Essex  NGR: TQ
Type of evidence: pollen

Rejected dates

Lab No: Q-1336 4930±110 BP (2980 bc), 3990(3773,3758,3704)3385 cal.BC  Dated Material: ?
Bibliography: Scaife 1988

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TO 3  Pannel Bridge
Location: Pett  County/Region: Sussex  NGR: TQ 8824 1524
Type of evidence: pollen

Rejected dates
Lab No: SRR-2888  5040±80 BP (3090 bc), 4000(3910,3878,3814)3690 cal.BC  Dated
Material: peat
Notes on date: 6.24m Elm decline. Fits in date sequence.
Bibliography: SURRC 270/0684

TR 1  Stone Marsh
Location:  County/Region: Kent  NGR: TR
Type of evidence: pollen

Rejected dates
Lab No: ??-??  4930±110 BP (2980 bc), 3990(3773,3758,3704)3385 cal.BC  Dated
Material:
Notes on date: Elm decline.
Notes on vegetational changes: Associated with first appearance of Plantago lanceolata
Bibliography: Holgate 1988
Second elm decline

**NJ 1 Loch Davan**
Location: Dinnet, Kincardine and Deeside  
County/Region: Grampian  
NGR: NJ 440 006  
Type of evidence: pollen

Accepted dates

Lab No: UB-2105  4235 ± 105 BP (2285 bc), 3096(2889,2790)2507 cal.BC  
Dated Material: lake mud

Notes on date: 277-292cm Second elm decline.

Bibliography: Edwards 1978

**NO 1 Black Loch II**
Location: Ochil Hills  
County/Region: Fife  
NGR: NO 261 149

Type of evidence: pollen

Rejected dates

Lab No: SRR-2615  3890±80 BP (1940 bc), 2580(2455,2416,2405)2140 cal.BC  
Dated Material: lake mud

Notes on date: 2.275-2.325m End of second elm decline. Possible contamination from erosion.

Notes on vegetational changes:

Bibliography: Whittington et al 1991

Lab No: SRR-2616  4460±110 BP (2510 bc), 3499(3252,3249,3099)2890 cal.BC  
Dated Material: lake mud

Notes on date: 2.725-2.775m Start of second major elm decline. Possible contamination from erosion.

Notes on vegetational changes: Elm values fall smoothly, non-arboreal pollen and erosion increase.

Bibliography: Whittington et al 1991

**NR 3 Loch Cill an Aonghais**
Location:  
County/Region: Strathclyde  
NGR: NR 776 617

Type of evidence: pollen

Rejected dates

Lab No: O-1413  4650 ± 70 BP (2700 bc), 3628(3375)3136 cal.BC  
Dated Material: lake mud

Notes on date: 498-492cm Last elm decline.

Notes on vegetational changes: 498-492cm Last elm decline.

Bibliography: Switsur 1981 p87-8

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NR 4  Machrie Moor
Location: Arran  County/Region: Strathclyde  NGR: NR 905 315
Type of evidence: pollen

Accepted dates
Lab No: GU-1423  3535±115 BP (1585 bc), 2197(1887)1548 cal.BC  Dated Material: peat
Notes on date: 211-219cm Second elm decline.
Notes on vegetational changes:

SD12  Williamson's Moss
Location: Newbiggin  County/Region: Cumbria  NGR: SD 08 93
Type of evidence: pollen

Accepted dates
Lab No: SRR-3068  4850±80 BP (2900 bc), 3893(3645)3381 cal.BC  Dated Material: peat
Notes on date: Mean date on more substantial second elm decline.
Notes on vegetational changes: Associated with clearance indicators.

SS 1  Waun-Fignen-Felen
Location: Abercraf  County/Region: Powys  NGR: SS 825 179
Type of evidence: pollen

Accepted dates
Lab No: CAR-424  4670±80 BP (2720 bc), 3640(3496,3427,3379)3136 cal.BC  Dated Material: peat
Notes on date: WFF/E1N 26-27cm Second elm decline.
Notes on vegetational changes:

TL 3  Peacock Farm
Location: Shippea Hill  County/Region: Cambridgeshire  NGR: TL 640 840
Type of evidence: pollen

Accepted dates
Lab No: Q-585  5320±120 BP (3370 bc), 4453(4225,4196,4155)3821 cal.BC  Dated Material: peat
Notes on date: Start second elm decline.
Notes on vegetational changes:
Bibliography: Smith et al 1989, Clark and Godwin 1962
Pre-elm decline cereal-type pollen

**NN 1 North Mains**
Location: Strathallan  County/Region: Tayside   NGR: NN 926 163
Type of evidence: pollen

Lab No: GU-1725  5680±70 BP (3730 bc), 4720(4519)4360 cal.BC Dated Material: peat
Notes on date: 90-95cm First appearance of cereal-type pollen. Date fits with rest of the sequence.
Notes on vegetational changes: Elm decline is at 75cm. Pre-elm decline cereal-type pollen associated with agricultural weeds, and a decline in *Betula*.
Bibliography: Hulme and Shirriffs 1985, GU database

**NR 4 Machrie Moor**
Location: Arran  County/Region: Strathclyde   NGR: NR 905 315
Type of evidence: pollen

Lab No: **-***  5375± BP (3425 bc), 4332(4239)4161 cal.BC Dated Material: peat
Notes on date: Interpolated date for the earliest cereal-type pollen.
Notes on vegetational changes: Earliest cereal-type pollen is a *Hordeum* grain, associated with clearance indicators, including *Plantago lanceolata*. No evidence of selective destruction of elm.

**NY16 Widdybank Moss**
Location: Upper Teesdale  County/Region: Co. Durham   NGR: NY 815 295
Type of evidence: pollen

Lab No: **-***  5450± BP (3500 bc), 4350(4340)4249 cal.BC Dated Material: peat
Notes on date: Approx. date from comparison with dated sites in the area. Pre-elm decline cereal-type pollen.
Notes on vegetational changes: Associated with high grass and drop in oak and birch frequencies. Cereal-type pollen shown in diagram, but not mentioned by the authors.

**SD 7 Soyland Moor D**
Location: Littleborough  County/Region: West Yorkshire   NGR: SD 975 186
Type of evidence: pollen

Lab No: Q-2394  5820±95 BP (3870 bc), 4936(4722)4470 cal.BC Dated Material: peat
Notes on date: The single date on this core dates the earliest cereal-type pollen.
Notes on vegetational changes: Associated with temporary elm decline and decrease in hazel, increase in grass, sedge and bracken and number of open-land species.
Bibliography: Williams 1985, Hiron and Edwards 1986
SY 1 Rimsmoor
Location: Rimsmoor  County/Region: Dorset  NGR: SY 814 922
Type of evidence: pollen

Lab No: **-*** 5350± BP (3400 bc), 4297(4233,4183,4167)4049 cal.BC Dated Material:
Notes on date: Interpolated date for earliest cereal-type pollen.
Notes on vegetational changes: 2 grains of cereal-type pollen, associated with first appearance of some herb taxa and fluctuations in arboreal pollen, sedge and bracken.
APPENDIX IV

CATALOGUE OF EARLY SITES IN THE DEE VALLEY

Where no references are specified the information on the sites is from the Regional Sites and Monuments Record and from personal fieldwork. The number in brackets following the site SMR number is the relevant National Monuments Record number. See appendix V for illustrations of selected finds from some of the flint scatters listed below.

The catalogue is listed as follows:-
Flint scatters - with blade cores [B]
  - undiagnostic flint scatters [F]
  - with microliths/microburins [M]
  - with bifacially retouched pieces [Z]
Neolithic finds - early Neolithic sites [N]
  - leaf-shaped arrowheads [A]
  - polished stone axes [X]
Miscellaneous

Within these categories sites are numbered east to west [see figures 6.6 and 6.7 for location of sites].

Land-use capability ratings

3.1: land capable of producing a moderate range of crops at a consistently high yield.
3.2: land capable of producing a moderate range of crops at average yields.
4.1: land capable of producing a narrow range of crops; grass and forage crops.
4.2: land capable of producing a narrow range of crops; mainly grassland.
5.1: land capable of use as improved grassland; grass sward easily maintained.
5.1: land capable of use as improved grassland; grass sward easily maintained.
5.2: land capable of use as improved grassland; some problems with maintenance of grass sward.
5.3: land capable of use as improved grassland; considerable problems with maintenance of grass sward.
6 and 7: land capable of use only as rough grazing.

Soil Associations

Code:  AB  Name:  Aberlour  Association:  Aberlour  Description:  Till derived from mixture of granites and acid schists.  Drainage: Poorly  Soils:  Peaty podzols
Code:  AL  Name:  Alluvium  Association:  Alluvium  Description:  Undifferentiated water lain sediment.
Code:  BY  Name:  Boyndie  Association:  Boyndie  Description:  Fluvio-glacial sands.  Drainage: Freely  Soils:  Iron podzols
Code:  CR  Name:  Charr  Association:  Countesswells  Description:  Till derived from granite and granitic gneiss.  Drainage: Freely, below iron pan  Soils:  Peaty podzols
Code:  CW  Name:  Countesswells  Association:  Countesswells  Description:  Till derived from granite and granitic gneiss.  Drainage: Freely  Soils:  Iron podzols
Code:  CY  Name:  Corby  Association:  Corby  Description:  Water sorted sand and gravel.  Drainage: Freely  Soils:  Iron podzols
Code:  DA  Name:  Dallachy  Association:  Boyndie  Description:  Fluvio-glacial sands.
Code:  DS  Name:  Dess  Association:  Countesswells  Description:  Till derived from granite and granitic gneiss.  Drainage: Imperfectly  Soils:  Iron podzols
Code:  DT  Name:  Dinnet  Association:  Dinnet  Description:  Till with gravel and small rounded stones, probably fluvio-glacial.  Drainage: Freely  Soils:  Brown forest
Code: MBL  Name: Mixed bottom land  Association:  Description: Varied soil conditions in bottom of stream valleys.
Code: PD  Name: Pitmedden  Association: Tarves  Description: Till derived from mixed acid igneous, acid metamorphic and basic igneous rocks.  Drainage: Poorly  Soils: Non-calc. gleys
Code: ST  Name: 512  Association: Strichen  Description: On drift, till and deeply weathered rock consisting of schists.  Drainage: Imperfectly draining  Soils: Peaty podzols
Code: TL  Name: Thistlyhill  Association: Tarves  Description: Till derived from mixed acid igneous, acid metamorphic and basic igneous rocks.  Drainage: Imperfectly  Soils: Iron podzols
Code: TN  Name: Tillypronie  Association: Tarves  Description: Till derived from mixed acid igneous, acid metamorphic and basic igneous rocks.
Code: TR  Name: Tarves  Association: Tarves  Description: Till derived from mixed acid igneous, acid metamorphic and basic igneous  Drainage: Freely  Soils: Brown forest
Code: TV  Name: Terryvale  Association: Countesswells  Description: Till derived from granite and granitic gneiss.  Drainage: Poorly  Soils: Non-calc. gleys
Flint scatters

Flint scatters with blade cores

B1 Queen Street
Parish: Aberdeen  District: Aberdeen City  NGR: NJ 9431 0638  SMR No.:
Artefacts/monument: 36 worked flints, mainly from primary contexts. 5 blade cores from primary context, 2 scrapers, 1 burin, and several blades.
Comments: Excavation revealed a thin, grey layer containing flakes and cores, suggested to represent a late Mesolithic/early Neolithic occupation.
Present location of finds: Aberdeen Art Gallery and Museums
Bibliography: Greig et al 1973 p3-4, Kenworthy 1982
Location/altitude: 10m OD.
Distance from the Dee: 900m  Vegetation type: urban
Landuse capability: sand  Soil association: -

B2 Mains of Kinmundy 1
Parish: Skene  District: Gordon  NGR: NJ 83 07  SMR No.:
Artefacts/monument: 56 pieces inspected, all marked with accession numbers, none of which were missing, so collection is complete. Includes 15 blades, 3 scrapers, a fragment of an axe, and an invasively flaked piece.
Comments: The flints inspected are part of the Charles Stephens collection. He is known to have been interested in collecting arrowheads, but none were included in the material inspected.
Present location of finds: Aberdeen Art Gallery and Museums [75.2.1-56]
Location/altitude: 130-140m OD.
Distance from the Dee: 7000m  Vegetation type: arable
Landuse capability: 3.2  Soil association: CW

B2 Mains of Kinmundy 2
Parish: Skene  District: Gordon  NGR: NJ 840 074  SMR No.:
Artefacts/monument: 9 pieces, all but one from field 1. Include 2 blades, 1 blade core and 2 unworked pebbles. The farmer also had a flint pebble with one flake removed from field 1, this was of Buchan gravel flint.
Comments: Collected during methodical fieldwalking, scattered fairly evenly over northern half of field one [see figure ??].
Present location of finds: Aberdeen Art Galleries and Museums
Location/altitude: 130-140m OD.
Distance from the Dee: 7000m  Vegetation type: arable
Landuse capability: 3.2  Soil association: CW
B 3 Grieve D
Parish: Drumoak  District: Kincardine/Deeside  NGR: NO 8035 9850  SMR No.: NO 89 NW 17 (19)
Artefacts/monument: 68 flints are mentioned in the SMR, 39 pieces from site D were inspected, as well as 22 marked as being from sites D and E. These included 3 cores [1 flake, 1 single platform blade, and one multiplatform blade core], 4 blades [1 broken], and 2 scrapers.
Comments: Collected by Dr. Grieve on the north bank of the Dee, at Dalmaik Farm.
Described by him as "a rather vague site", though conditions were not good for fieldwalking. 2 urn sherds also found.
Present location of finds: Aberdeen Art Gallery and Museums
Bibliography: Grieve's field notes
Location/altitude: On north bank of the Dee. On lower terrace/flood plain. 27m OD.
Distance from the Dee: <50m  Vegetation type: arable
Landuse capability: 3.2  Soil association: AL

B 4 Grieve E
Parish: Drumoak  District: Kincardine/Deeside  NGR: NO 8098  SMR No.: NO 79 NW 11
Artefacts/monument: SMR mentions 12 flints, 10 were available for inspection. These included 1 blade fragment, 1 possible microblade fragment, and a blade core.
Comments: No real concentration of finds, Grieve considered it to be probably scattered material from a site down river on the bend.
Location/altitude: On lower terrace/flood plain. 20-25m OD.
Distance from the Dee: 100m  Vegetation type: arable
Landuse capability: 3.2  Soil association: AL

B 5 Park
Parish: Drumoak  District: Kincardine/Deeside  NGR: NO 797985  SMR No.: NO 79 NW 11
Artefacts/monument: 166 flints inspected including 14 blades, 4 scrapers, 2 splintered pieces, and 19 cores [12 blade cores and 5 flake cores].
Comments: Found by C. Lavery in a clearing in the woods at Keith's Muir close to Grieve's site B.
Present location of finds: C. Lavery
Location/altitude: Second terrace of the Dee. 30-35m OD.
Distance from the Dee: 100m  Vegetation type: arable
Landuse capability: 3.2  Soil association: CY

B 6 Grieve F
Parish: Drumoak  District: Kincardine/Deeside  NGR: NO 7473 9595  SMR No.: NO 79 NW 11
Artefacts/monument: SMR lists 20 flints, a further 16 were found attributed to the site, all were inspected. Including 1 blade, 1 complete and 1 broken blade core, and a flake with steeply retouched edge, possible scraper.
Comments: Surface collection by Mrs. Whitebell, 1973, 190m SE of Milton Cottage. There was an clear concentration of finds, so the location of the focus of the site is not known exactly. The site was visited twice by Grieve.

Present location of finds: Aberdeen Art Gallery and Museums

Bibliography: Grieve's field notes

Location/altitude: On north bank of the Dee. 35m OD.

Distance from the Dee: <50m Vegetation type: arable

Landuse capability: 3.2 Soil association: AL

B 7 Grieve G
Parish: Banchory-Ternan District: Kincardine/Deeside NGR: NO 71800 96200
SMR No.: NO 79 NW 9 (12)

Artefacts/monument: SMR lists 26 flints, 25 were inspected. These included 4 cores [1 flake core and 3 blade cores], and 2 blades.

Comments: Collected by Grieve in 1974, 470m NE of Birkwood farmhouse. Flints form a very localised scatter. 3m above the river.

Present location of finds: Aberdeen Art Gallery and Museums

Bibliography: Grieve's field notes

Location/altitude: On the south bank of the Dee, on haughland. 45m OD.

Distance from the Dee: <50m Vegetation type: pasture

Landuse capability: 3.2 Soil association: AL

B 8 Birkwood 1
Parish: Banchory-Ternan District: Kincardine/Deeside NGR: NO 717 962
SMR No.: 35 flints inspected, including 1 blade core, but no blades, and 2 scrapers.


Present location of finds: D. Welch

Location/altitude: First terrace of the Dee. 45m OD.

Distance from the Dee: <50m Vegetation type: arable

Landuse capability: 3.2 Soil association: AL

B 9 Birkwood 2
Parish: Banchory-Ternan District: Kincardine/Deeside NGR: NO 7110 9568
SMR No.: 9 pieces, including 1 fragment of a blade core.

Comments: Main concentration in NE corner of the field, along edge of 2nd terrace.

Present location of finds: Aberdeen Art Galleries and Museums

Location/altitude: Second terrace of the Dee. 50-55m OD.

Distance from the Dee: <100m Vegetation type: woodland weeds on ploughland

Landuse capability: 3.2 Soil association: CY
B 10 Upper Ruthven
Parish: Aboyne-Glentanar District: Kincardine/Deeside NGR: NJ 454 029 SMR No.: Artefacts/monument: Over 100 pieces found, including 7 scrapers, 7 cores [4 blade cores and 3 flake], one reused as a scraper, and 9 blades. Comments: Graham Steele [FSAScot] was told that flints had been found in this area, and fieldwalking revealed numerous pieces scattered over the field behind the farmhouse. Main concentration in SE corner of the field. The owner of the farmhouse, P Heron, has found smaller flint scatters in neighbouring fields. Present location of finds: Aberdeen Art Galleries and Museums, P Heron Bibliography: Information from Graham Steele Location/altitude: Lies c. 60m above Loch Davan. 210-230m OD. Distance from the Dee: 4000m Vegetation type: arable Landuse capability: 3.2 Soil association: CW

B 11 Ferney Howe
Parish: Aboyne-Glentanar District: Kincardine/Deeside NGR: NJ 45 03 SMR No.: Artefacts/monument: See Z5. Location/altitude: 200-250m OD. Distance from the Dee: 5000m Vegetation type: arable Landuse capability: 3.2 Soil association: CW

B 12 Ettrick Croft

B 13 Invergelder
Parish: Crathie and Braemar District: Kincardine/Deeside NGR: NO 243 941 SMR No.: Artefacts/monument: 14 flints found during fieldwalking, including a blade core. D. Milne also reported finding flints in the neighbouring fields upstream. Comments: Flints in small discrete scatter, c.10m by 16m, on lower terrace. Exact location of other scatters are unknown. Present location of finds: D. Milne, Aberdeen Art Galleries and Museums Location/altitude: On first terrace of the Dee. 285m OD. Distance from the Dee: 100m Vegetation type: arable Landuse capability: 4.2 Soil association: AL
Undiagnostic flint scatters

F 1 Shore Brae
Parish: Aberdeen District: Aberdeen City NGR: NJ 943 061 SMR No.: 39
Artefacts/monument: 39 pieces of flint, but most is natural flint or ballast. 1 worked flake and 1 bladelet fragment.
Comments: Residual flints found in later contexts, probably derived from a site near the harbour.
Present location of finds: Aberdeen Art Gallery and Museums
Bibliography: Kenworthy 1982
Location/altitude: 5m OD.
Distance from the Dee: 600m Vegetation type: urban
Landuse capability: sand Soil association: -

F 2 Gallowgate Middle School
Parish: Aberdeen District: Aberdeen City NGR: NJ 941 065 SMR No.: 16
Artefacts/monument: 16 worked flints and 2 chalk-flint nodules, presumably imported as ballast. Worked flints include 1 broken blade, a small multiplatformed flake core, and a scraper.
Comments: Scatter of flints on natural, with no associated features.
Present location of finds: Aberdeen Art Gallery and Museums
Location/altitude: 10m OD.
Distance from the Dee: 1000m Vegetation type: urban
Landuse capability: sand Soil association: -

F 3 67-71 Green
Parish: Aberdeen District: Aberdeen City NGR: NJ 9409 0609 SMR No.: NJ 90 NW
Artefacts/monument: 27 pieces of flint, but several are ballast, and some flakes are possibly later than Mesolithic in date, including a barb-and-tang arrowhead. 13 pieces are considered by Kenworthy to be Mesolithic.
Comments: Thin layer of black sand containing a scatter of flints, no concentration of flints, or recognisable features. Present location of finds: Aberdeen Art Gallery and Museums
Bibliography: Murray and Stones 1977, Kenworthy 1982
Location/altitude: Close to the banks of the Denburn. 10m OD.
Distance from the Dee: 800m Vegetation type: urban
Landuse capability: sand Soil association: -

F 4 Wilson's Park
Parish: Aberdeen District: Aberdeen City NGR: NJ 92 06 SMR No.: NJ 90 NW 50
Artefacts/monument: Flint scatter recorded in SMR, but no details are given, and the finds could not be located for inspection. The Middleton Collection.
Present location of finds: Marischal College Museum, Aberdeen
Location/altitude: On a low hill. 30-35m OD.
Distance from the Dee: 2300m Vegetation type: urban
Landuse capability: - Soil association: -
F 5 Grieve L
Parish: Peterculter District: Aberdeen City NGR: NO 84 99 SMR No.: 9
Artefacts/monument: SMR lists 9 flints, 8 were inspected. There was 1 core, but this is a multiplatformed flake core, and other material was undiagnostic.
Comments: Located in the fields off Maryculter House, on south bank of the river. The flints were widely dispersed, so focus of prehistoric activity could be identified.
Present location of finds: J Kenworthy
Location/altitude: flood plain? 20-40m OD.
Distance from the Dee: <500m Vegetation type: Landuse capability: 3.2 Soil association: AL/CY

F 6 Manse Cottage
Parish: Drumoak District: Kincardine/Deeside NGR: NO 79 95 9880 SMR No.:
Artefacts/monument: Marked as flint scatter by Kenworthy but details unknown.
Comments: Kenworthy has marked the presence of flints on the north bank of the river.
Bibliography: Kenworthy [pers.com.]
Location/altitude: North bank of the Dee, opposite a small island. On second terrace. 30m OD.
Distance from the Dee: <50m Vegetation type: Landuse capability: 3.2 Soil association: CY

F 7 Nether Balfour
Parish: Kirkton of Durris District: Kincardine/Deeside NGR: NO 78 96 SMR No.:
Artefacts/monument: Occasional flints have been found in this area, but their nature is unknown.
Comments: Flints have been found around Nether Balfour. No main concentrations known.
Bibliography: Kenworthy [pers.com.]
Location/altitude: On second terrace of the Dee. 45m OD.
Distance from the Dee: 600m Vegetation type: arable Landuse capability: 3.2 Soil association: CY

F 8 Castle Hill
Parish: Kirkton of Durris District: Kincardine/Deeside NGR: NO 77 966 SMR No.:
Artefacts/monument: Unknown number of flints collected by D. Milne, unavailable for inspection.
Comments: Small scatter on south bank of river.
Present location of finds: D. Milne
Location/altitude: On second terrace of the Dee. 35-40m OD.
Distance from the Dee: 100m Vegetation type: arable Landuse capability: 3.2 Soil association: CY

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F 9 Wester Durris 1
Parish: Kirkton of Durris  District: Kincardine/Deeside  NGR: NO 771 967  SMR No.: 
Artefacts/monument: Unknown number of flints collected by D. Milne, unavailable for inspection.
Comments: Small scatter on south bank of river.
Present location of finds: D. Milne
Location/altitude: On flood plain/first terrace of the Dee. 30m OD.
Distance from the Dee: 100m  Vegetation type: arable
Landuse capability: 3.2  Soil association: AL

F 10 Wester Durris 2
Parish: Kirkton of Durris  District: Kincardine/Deeside  NGR: NO 758 959  SMR No.: 
Artefacts/monument: 9 pieces of flint and some possibly worked quartz found during fieldwalking. Including 1 splintered piece, 1 flake core, and 2 blades.
Comments: Most pieces came from the west half of field 3, 3 pieces were from field 2. All pieces were found on or close to the terrace edges.
Present location of finds: Aberdeen Art Galleries and Museums
Location/altitude: On second terrace of the Dee. 40m OD.
Distance from the Dee: 50m  Vegetation type: arable
Landuse capability: 3.2  Soil association: CY

F 11 Grieve 1
Parish: Banchory-Ternan  District: Kincardine/Deeside  NGR: NO 73800 95900
SMR No.: NO 79 NW 10 (13)
Artefacts/monument: SMR lists 15 flints, all inspected. Include 2 cores [1 flake core and 1 intermediate core], and no other diagnostic pieces.
Comments: Collected from molehills in an unploughed field at Balbridie Farm by Grieve in 1974.
Present location of finds: Aberdeen Art Gallery and Museums
Bibliography: RCAMS N > Kinc. list 1
Location/altitude: On first terrace of the Dee. 40m OD.
Distance from the Dee: 100m  Vegetation type: pasture
Landuse capability: 3.2  Soil association: AL

F 12 March Burn 1
Parish: Banchory  District: Kincardine/Deeside  NGR: NO 737 957  SMR No.: 
Artefacts/monument: Unknown number of flints collected by D. Milne, unavailable for inspection.
Comments: Scatter of flints up the burn near Balbridie Farm.
Present location of finds: D. Milne
Location/altitude: In the bottom of the stream valley. c. 45m OD.
Distance from the Dee: 300m  Vegetation type: 
Landuse capability: 3.2  Soil association: AL
F 13 March Burn 2
Parish: Banchory  District: Kincardine/Deeside  NGR: NO 726 948  SMR No.:  
Artefacts/monument: 4 flints found by D. Milne, unavailable for inspection.  
Comments: Scatter of flints up the burn between 2 weirs. 
Present location of finds: D. Milne 
Location/altitude: In the bottom of the stream valley. 80m OD. 
Distance from the Dee: 1300m  Vegetation type: wood 
Landuse capability: 4.2  Soil association: MBL  

F 14 Sawmill path
Parish: Banchory  District: Kincardine/Deeside  NGR: NO 714 961-720 964  SMR No.:  
Artefacts/monument: Several flints found by D. Milne, but these have been unavailable for inspection, and their nature is not known. Those found by the author are completely undiagnostic.  
Comments: Several flints have been found in this footpath, which runs along the river bank, by D. Milne, especially near a clump of pines [NO 7155 9625]. 1 flake found here by the author, and 2 further east in tree roots on the edge of the first terrace. 
Present location of finds: D. Milne 
Location/altitude: Flints found on edge of first terrace, not on current, narrow flood plain. 45m OD. 
Distance from the Dee: <50m  Vegetation type: woodland 
Landuse capability: 3.2  Soil association: AL  

F 15 Birkwood 3
Parish: Banchory-Ternan  District: Kincardine/Deeside  NGR: NO 7120 9585  SMR No.:  
Artefacts/monument: 22 flints found by D. Welsh, described under M 13 as they are now mixed together. 3 undiagnostic flints found by the author.  
Comments: 2nd field to the west at Birkwood. 3 found 1991, and 22 found 1983 [these are recorded under Bkwd 7 because now mixed with these]. 
Present location of finds: D. Welsh 
Location/altitude: On first river terrace. 45m OD. 
Distance from the Dee: <50m  Vegetation type: arable 
Landuse capability: 3.2  Soil association: AL  

F 16 Lavender field
Parish: Banchory  District: Kincardine/Deeside  NGR: NO 7098 9588  SMR No.:  
Artefacts/monument: 4 flints collected by D. Welsh and 2 by the author, all undiagnostic flakes. An unknown number collected by D. Milne and children from a Banchory school, these were unavailable for inspection. 
Comments: Field well known locally as a source of flints. Site extended under the recently constructed Norco car park. 
Present location of finds: Welch, Milne 
Location/altitude: On slope of second terrace. 50-55m OD. 
Distance from the Dee: 100m  Vegetation type: scrubby lavender and weeds 
Landuse capability: 3.2  Soil association: CY
F 17  Graveyard
Parish: Banchory  District: Kincardine/Deeside  NGR: NO 7080 9578  SMR No.:  
Artefacts/monument: Unknown number of flints collected by D. Milne, unavailable for  
inspection.  
Comments: Flints frequently found while digging graves. Probably continuous with the  
Lavender Field scatter.  
Present location of finds: D. Milne  
Location/altitude: On second terrace of the Dee. 50-55m OD.  
Distance from the Dee: <100m  Vegetation type: garden  
Landuse capability: 3.2  Soil association: CY

F 18  "Inver" Feugh
Parish: Banchory-Ternan  District: Kincardine/Deeside  NGR: NO 7040 9525  SMR  
No.:  
Artefacts/monument: Marked as a flint scatter by Kenworthy, but details of finds  
unknown.  
Comments: Some flints found near the river bank, opposite the island in the Dee, and near  
the mouth of the Feugh.  
Bibliography: Kenworthy [pers. com.]  
Location/altitude: On first terrace of the Dee. 45m OD.  
Distance from the Dee: 50m  Vegetation type:  
Landuse capability: 3.2  Soil association: AL

F 19  Grieve K
Parish: Strachan  District: Kincardine/Deeside  NGR: NO 6870 9270  SMR No.: NO  
69 SE 8  
Artefacts/monument: SMR lists 18 flints, 15 flints, and 1 piece of possibly worked quartz,  
were inspected. No cores or blades, nothing diagnostic.  
Comments: Found at Heugh-head Farm. No concentration of finds, so location of focus of  
activity is not known.  
Present location of finds: Aberdeen Art Gallery and Museums  
Location/altitude: Flood plain on north side of the river. 75m OD.  
Distance from the Dee: 2300m  Vegetation type:  
Landuse capability: 3.2  Soil association: AL

F 20  Blackhall
Parish: Banchory  District: Kincardine/Deeside  NGR: NO 669 962  SMR No.:  
Artefacts/monument: Unknown number of flints found by D. Milne, unavailable for  
inspection.  
Comments: Large scatter near south bank of the Dee.  
Present location of finds: D. Milne  
Location/altitude: Flood plain of the Dee. 60-65m OD.  
Distance from the Dee: 100m  Vegetation type:  
Landuse capability: 3.2  Soil association: CY

230
F.21 Invercannie
Parish: Banchory-Ternan  District: Kincardine/Deeside  NGR: NO 6680 9645  SMR No.: NO 69 NE 13 (31)
Artefacts/monument: 600 worked flints, from a restricted area, recorded in SMR. Present location of finds unknown.
Comments: Collected by Dr. Grieve, but he recorded no information about the site in his notes.
Bibliography: Shepherd 1983 p10
Location/altitude: Haughland north of the Dee, flood plain/low terrace. 65-55m OD.
Distance from the Dee: <50m  Vegetation type:  Landuse capability: 3.2  Soil association:  AL

F.22 Blackhall Forest
Parish: Banchory  District: Kincardine/Deeside  NGR: NO 65 95  SMR No.:
Artefacts/monument: Unknown number of flints found by D. Milne, unavailable for inspection.
Comments: Found near the south bank of the Dee.
Present location of finds: D. Milne
Location/altitude: On hill side sloping to river. 75-60m OD.
Distance from the Dee: <50m  Vegetation type: wooded  Landuse capability: 5.2  Soil association: TR/PD

F.23 Heugh-head Farm
Parish: Aboyne  District: Kincardine/Deeside  NGR: NO 50 99  SMR No.:
Artefacts/monument: A small quantity of flint work, including a few cores and broken blades, but no really diagnostic items.
Comments: Small quantity of flintwork from molehills. A scooped hollow is located in the centre of the scatter.
Bibliography: Steele 1990 p18, and info from Graham Steele
Location/altitude: On north bank of the river, on terrace edge overlooking the floodplain. 140m OD.
Distance from the Dee: <100m  Vegetation type: rough grassland  Landuse capability: 5.2  Soil association: CY

F.24 Wreaton
Parish: Aboyne  District: Kincardine/Deeside  NGR: NO 50 99  SMR No.:
Artefacts/monument: flint scatter
Comments: The farmer has a large collection of flints from his fields.
Present location of finds: With the farmer
Bibliography: Information from Graham Steele
Location/altitude: 150-200m OD.
Distance from the Dee: <500m  Vegetation type: arable  Landuse capability: 3.2/4.2  Soil association: CW/DT
F 25 Golf Course
Parish: Ballater  District: Kincardine/Deeside  NGR: NO 36 95  SMR No.: 
Artefacts/monument: Unknown number of flints collected by D. Milne, unavailable for 
inspection.
Comments: Scatter of flints along north bank of the Dee, along edge of golf course. Found 
near deep pool now used for swimming in.
Present location of finds: D. Milne
Location/altitude: Flood plain of the Dee. 200m OD.
Distance from the Dee: 50m  Vegetation type: short turf
Landuse capability: 5.2  Soil association: AL

F 26 Invercauld Bridge
Parish: Crathie and Braemar  District: Kincardine/Deeside  NGR: NO 188 909-196  
908  SMR No.: 
Artefacts/monument: Unknown number of flints collected by D. Milne, unavailable for 
inspection.
Comments: 3/4 mile down stream from the bridge on north bank flints were found in roots 
of wind blown trees.
Present location of finds: D. Milne
Location/altitude: On second terrace of the Dee. 310m OD.
Distance from the Dee: <100m  Vegetation type: wooded
Landuse capability: 4.2  Soil association: CY

F 27 Corriemulzie
Parish: Crathie and Braemar  District: Kincardine/Deeside  NGR: NO 1185 9010  
SMR No.: 
Artefacts/monument: Unknown number of flints collected by D. Milne, unavailable for 
inspection.
Comments: Flints found in molehills on south bank.
Present location of finds: D. Milne
Location/altitude: Flood plain of the Dee. 330m OD.
Distance from the Dee: <100m  Vegetation type: pasture
Landuse capability: 4.2  Soil association: AL

F 28 Glen Derry
Parish: Crathie and Braemar  District: Kincardine/Deeside  NGR: NO 04 93 03 98  
SMR No.: 
Artefacts/monument: Unknown number of flints, collector and present location unknown.
Comments: Flints apparently from Glen Derry were brought into MCM but finder would 
give no details or leave his name.
Present location of finds: ?
Location/altitude: 430-550m OD.
Distance from the Dee: ?  Vegetation type: heath and woodland
Landuse capability: 6.3  Soil association: AB
Flint scatters with microliths/microburins

**M 1 Broad Street**
- Parish: Aberdeen
- District: Aberdeen City
- NGR: NJ 943 063
- SMR No.: 
- Artefacts/monument: 107 pieces of flint, mainly from primary context. Includes 2 cores from primary contexts [both blade cores], 3 scrapers, 1 burin, 1 microlith, and 2 microburins.
- Comments: Found, during excavation, in old buried soil overlying the natural gravel.
- Present location of finds: Aberdeen Art Gallery and Museums
- Distance from the Dee: 900m
- Vegetation type: urban
- Landuse capability: sand
- Soil association: -

**M 2 Nether Kirkgate**
- Parish: Aberdeen
- District: Aberdeen City
- NGR: NJ 942 063
- SMR No.: 
- Artefacts/monument: 207 pieces of flint, including 2 microburins, 5 scrapers, and 2 possible microliths. 29 blades i.e. L:B ratio >2, or straight sided blade segment.
- Comments: Scatter of flints on natural gravel. No associated features.
- Present location of finds: Aberdeen Art Gallery and Museums
- Distance from the Dee: 800m
- Vegetation type: urban
- Landuse capability: sand
- Soil association: -

**M 3 42 St. Paul Street**
- Parish: Aberdeen
- District: Aberdeen City
- NGR: NJ 941 065
- SMR No.: 
- Artefacts/monument: 141 pieces of flint and 4 of quartzite. 48 pieces were in primary context. Includes 3 cores [2 failed and 1 pyramidal], 7 blades, 1 microburin, 4 scrapers, and a splintered piece.
- Comments: Small quantities of flint found in the old land surface, during excavation. These were concentrated in distinct areas.
- Present location of finds: Aberdeen Art Gallery and Museums
- Distance from the Dee: 1100m
- Vegetation type: urban
- Landuse capability: sand
- Soil association: -

**M 4 45-59 Green**
- Parish: Aberdeen
- District: Aberdeen City
- NGR: NJ 9409 0611
- SMR No.: NJ 90 NW 3.1
- Artefacts/monument: 297 pieces of flint from a limited area, c. 0.8m across. Includes 3 blade cores, 46 blades, 4 microburins, 7 microliths, and other retouched pieces.
- Comments: Amorphous patch of flints and charcoal, c.0.8 by 0.9m, at west end of the excavation. Undisturbed deposits with no evidence of later flint working activity.
- Present location of finds: Aberdeen Art Gallery and Museums
- Distance from the Dee: 800m
- Vegetation type: urban
- Landuse capability: sand
- Soil association: -

233
M 5. Grieve H
Parish: Peterculter District: Aberdeen City NGR: NJ 857 005 SMR No.: NJ 80 SE 31 (36)
Artefacts/monument: 591 recorded in SMR, 569 inspected, 33 cores [blade 12, intermediate 4, flake 16], 2 microliths, 17 scrapers.
Comments: Discrete site with few finds in the rest of the field. Spreads across both sides of the road at Maryculter's Bridge.
Present location of finds: Aberdeen Art Gallery and Museums
Location/altitude: On haughland, on the north bank of the Dee. 15m OD.
Distance from the Dee: <50m Vegetation type: arable/grassland
Landuse capability: 3.1 Soil association: AL

M 6. Grieve B
Parish: Drumoak District: Kincardine/Deeside NGR: NO 7955 9818 SMR No.: NO 79 NE 23 (25)
Artefacts/monument: 861 flints inspected. 40 cores [blade 22, intermediate 6, flake 11], 10 microliths, 1 microburin, 30 scrapers.
Present location of finds: Aberdeen Art Gallery and Museums
Bibliography: Grieve's field notes
Location/altitude: On a small sandy knoll. 30-35m OD.
Distance from the Dee: 50m Vegetation type: arable
Landuse capability: 3.2 Soil association: CY

M 7. Nethermills II
Parish: Banchory-Ternan District: Kincardine/Deeside NGR: NO 759 963 SMR No.: NO 79 NE 21 (23)
Artefacts/monument: Finds from small excavation, no details have been published but the finds apparently included microliths.
Comments: Industry similar to Nethermills I, but not identical. In mineral soil over peat deposit.
Present location of finds: J Kenworthy
Location/altitude: On the second terrace. 35m OD.
Distance from the Dee: 50m Vegetation type: arable
Landuse capability: 3.2 Soil association: AL
M 8 Grieve C
Parish: Banchory-Ternan District: Kincardine/Deeside NGR: NO 7588 9616 SMR No.: 
Artefacts/monument: 4120 recorded in SMR, 3662 inspected. 262 cores [of 127 measured: blade 75, intermediate 15, flake 37], 17 microliths, 2 microburins, 101 scrapers.
Comments: Surface collection from the Nethermills site. Large site with 3 centres of concentration.
Present location of finds: Aberdeen Art Gallery and Museums
Bibliography: Grieve’s field notes
Location/altitude: On the second terrace. 35m OD.
Distance from the Dee: 50m Vegetation type: arable
Landuse capability: 3.2 Soil association: AL

M 9 Nethermills I
Parish: Banchory-Ternan District: Kincardine/Deeside NGR: NO 7588 9616 SMR No.: NO 79 NE 21 (23)
Artefacts/monument: About 20,000 pieces of flint recovered by excavation. 52 cores, 170 microliths, 180 microburins, 31 scrapers, 14 burins.
Comments: Excavated by Kenworthy in 1978-81, revealing a hut and various pits.
Present location of finds: J Kenworthy
Bibliography: Kenworthy 1980
Location/altitude: On the second terrace. 35m OD.
Distance from the Dee: 50m Vegetation type: arable
Landuse capability: 3.2 Soil association: AL

M 10 Grieve A
Parish: Banchory-Ternan District: Kincardine/Deeside NGR: NO 7505 9600 SMR No.: NO 79 NE 22 (24)
Artefacts/monument: 2247 flints recorded in SMR, 2013 inspected. 159 cores [of 74 measured: blade 43, intermediate 9, flake 22], 19 microliths, 13 microburins, 34 scrapers.
Comments: Large or dispersed site. Also called Durris Bridge, or Crathes Main.
Present location of finds: Aberdeen Art Gallery and Museums
Bibliography: Grieve’s field notes
Location/altitude: On sand and gravel knoll just above flood plain. Surrounded by alluvium. 35-40m OD.
Distance from the Dee: 150m Vegetation type: arable
Landuse capability: 3.2 Soil association: CY

M 11 Grieve J
Parish: Banchory-Ternan District: Kincardine/Deeside NGR: NO 71050 95700 SMR No.: 
Artefacts/monument: 848 flints recorded in SMR, 818 inspected. 26 cores [blade 17, intermediate 4, flake 5], 2 microliths, 2 microburins, and a leaf-shaped arrowhead.
Comments: Well defined site on the lower terrace at Birkwood.
Location/altitude: On first river terrace. 45m OD.
Distance from the Dee: <50m Vegetation type: arable
Landuse capability: 3.2 Soil association: AL
M 12 Banchory 2
Parish: Banchory-Ternan District: Kincardine/Deeside NGR: NO 7103 9569 SMR No.: NO 79 NW 6 (9)
Artefacts/monument: Total number of finds from the excavation is unknown, but published illustrations include microburins, blades, and blade cores.
Comments: Finds from an excavation in 1935, on the lower terrace at Birkwood.
Present location of finds: National Museum of Scotland
Bibliography: Paterson and Lacaille 1936
Location/altitude: On first terrace of the Dee. 48m OD.
Distance from the Dee: 50m Vegetation type: pasture/ previously arable
Landuse capability: 3.2 Soil association: AL

M 13 Birkwood 4
Parish: Banchory-Ternan District: Kincardine/Deeside NGR: NO 71 96 SMR No.: 
Artefacts/monument: 46 flints from both terraces at Birkwood, including F 15. These include a scraper, and a broken microlith, but no blades. The exact provenance of the microlith is not known.
Comments: From the Birkwood terraces. Found 1977 and 1983 by D. Welch. Includes finds from several sites, that are now mixed.
Present location of finds: D. Welch
Location/altitude: From lower terrace. 45m OD.
Distance from the Dee: 100m Vegetation type: ploughed when fieldwalked
Landuse capability: 3.2 Soil association: AL

M 14 Banchory 1
Parish: Banchory-Ternan District: Kincardine/Deeside NGR: NO 70 95-73 95 SMR No.: NO 79 NW 6 (9)
Artefacts/monument: 1014 flints inspected, 70 cores [55 blade, 8 intermediate, 7 flake], 117 microliths, 28 microburins, 52 scrapers, 3 leaf-shaped arrowheads and other bifacially retouched pieces.
Comments: A mixture of surface finds from sites scattered throughout this area, which includes the grounds of Beltcaigs, Birkwood, Mayfield, and Knappach.
Present location of finds: National Museum of Scotland [BMD 1 - BMD 313]
Bibliography: Paterson and Lacaille 1936
Location/altitude: From both upper and lower terraces. 57m OD.
Distance from the Dee: <600m Vegetation type: arable
Landuse capability: 3.2/4.2 Soil association: AL/CY

M 15 Inchmarlo Cottage
Parish: Banchory-Devenick District: Kincardine/Deeside NGR: NO 68 96 SMR No.: NO 69 NE 1 (3)
Artefacts/monument: 1 microlith, 1 blade, and 1 blade core are certainly from this site, and 19 other pieces, including 1 microlith and 13 blades, may be [in AAGM, accession nos. 75.110, 75.410].
Comments: From rabbit scrapes. Accession nos. 75.110 and 75.410 were collected by Paterson near Banchory, and presented by Lacaille, who presented the other Inchmarlo material to the NMS.

Present location of finds: National Museum of Scotland, Aberdeen Museums [ABA 169-171, 75.110, 75.410]

Bibliography: Lacaille 1944

Location/altitude: From low terrace and slope behind it. 50-55m OD.
Distance from the Dee: <50m  Vegetation type: pasture
Landuse capability: 3.2  Soil association: AL

M 16  Castlehill
Parish: Strachan  District: Kincardine/Deeside  NGR: NO 6575 9210  SMR No.: 
Artefacts/monument: 13 pieces of flint, including 4 tertiary flakes, 1 microburin, 1 blade, and 1 other unclassified retouched piece.
Comments: Found during excavation of medieval motte, on a natural hill. All the flints were residual, none were from the pre-medieval buried soil. Very few flints found in large excavated area suggesting this was a small, temporary camp.
Bibliography: Dalwood 1987, Yeoman 1984
Location/altitude: On top of fluvio-glacial hill, 10m above the Feugh, on north bank. 85m OD.
Distance from the Dee: 4000m  Vegetation type: grassy knoll/excavated
Landuse capability: 3.2  Soil association: CY

M 17  Dinnet
Parish: Glenmuick, Tullich, Glengairn  District: Kincardine/Deeside  NGR: NO 46 98  SMR No.: 
Artefacts/monument: Unknown number of flints collected by D. Milne, unavailable for inspection, but location is close to where Edwards notes that microliths were found.
Comments: Scatter of flints along north bank of the Dee, just east of B9119.
Present location of finds: D. Milne
Bibliography: Edwards 1975
Location/altitude: On gravel terrace. 150m OD.
Distance from the Dee: <700m  Vegetation type: woods
Landuse capability: 4.2  Soil association: CY
Flint scatters with bifacially retouched pieces

Z 1 West Hatton
Parish: Newhills  District: Kincardine/Deeside  NGR: NJ 855 066  SMR No.: 28 pieces found in 4 fields. Includes 1 bifacially retouched piece, possibly a broken leaf-shaped arrowhead, 3 flake cores, and one unworked pebble. Comments: Concentration of finds on fairly steep slope in fields 3 and 4 [see figure ??]. Location/altitude: 130-160m OD. Distance from the Dee: 6500m  Vegetation type: arable  Landuse capability: 3.2  Soil association: CW

Z 2 Borrowstone
Parish: Newhills  District: Kincardine/Deeside  NGR: NJ 851 075  SMR No.: 46 flints, mostly from field 1, including a serrated flake, an invasively retouched point, a leaf-shaped arrowhead, 6 cores [all flake cores], 7 blades, and 3 unworked pebbles. Comments: Considerable flint scatter located by fieldwalking, no previous finds recorded from the area. Location/altitude: 140-150m OD. Distance from the Dee: 7500  Vegetation type: arable  Landuse capability: 3.2  Soil association: CW

Z 3 Mains of Kinmundy 1
Parish: Skene  District: Gordon  NGR: NJ 83 07  SMR No.: See B2. Location/altitude: 130-140m OD. Distance from the Dee: 7000m  Vegetation type: arable  Landuse capability: 3.2  Soil association: CW

Z 4 Grieve J
Parish: Banchory-Ternan  District: Kincardine/Deeside  NGR: NO 71050 95700 SMR No.: See M12 and A20. Comments: Well defined site on the lower terrace at Birkwood. Location/altitude: 1st river terrace, 45m OD. Distance from the Dee: <50m  Vegetation type: arable  Landuse capability: 3.2  Soil association: AL
Z.5 Banchory
Parish: Banchory-Ternan District: Kincardine/Deeside NGR: NO 70 95-73 95 SMR No: NO 79 NW 6 (9)
Artefacts/monument: See A22 and M14.
Comments: A mixture of surface finds from sites scattered throughout this area, which includes the grounds of Belteraigs, Birkwood, Mayfield, and Knappach.
Present location of finds: National Museum of Scotland [BMD 1 - BMD 313]
Bibliography: Paterson and Lacaille 1936
Location/altitude: From both upper and lower terraces. 57m OD.
Distance from the Dee: <600m Vegetation type: arable
Landuse capability: 3.2/4.2 Soil association: AL/CY

Z.6 Ferney Howe
Parish: Aboyne-Glentanar District: Kincardine/Deeside NGR: NJ 45 03 SMR No.:
Artefacts/monument: 22 pieces inspected, including 3 blades, 2 scrapers, 1 leaf-shaped arrowhead, 3 invasively retouched pieces, part of a polished knife, and 2 cores [1 blade core, and 1 flake core].
Comments: Finds came from Howe of Cromar, and the collector lived at Ferney Howe, Glendavan, but provenance is uncertain.
Present location of finds: Marischal College Museum, Aberdeen
Location/altitude: Ferney Howe lies 65m above Loch Davan. 200-250m OD.
Distance from the Dee: 5000m Vegetation type: arable
Landuse capability: 3.2 Soil association: CW

Z.7 Ettrick Croft
Parish: Dinnet District: Kincardine/Deeside NGR: NO 4258 9570 SMR No.:
Artefacts/monument: 35 flints, 27 collected by the farmer, and 8 by the author. Includes 4 blades, 8 scrapers, and 7 cores [4 blade cores, and 3 flake cores], 1 broken piece which is backed or battered in use, and a leaf-shaped arrowhead.
Comments: Several flints collected by farmer from one field over some years. 8 collected during methodical fieldwalking.
Present location of finds: With the farmer
Location/altitude: Field over-looking Muir of Dinnet, possible concentration on slight plateau 255-275m OD.
Distance from the Dee: 900m Vegetation type: recently ploughed grassland
Landuse capability: 4.2 Soil association: TR
Neolithic finds

Early Neolithic sites

N 1 Cloghills
Parish: Newhills  District: Aberdeen City  NGR: NJ 8512 0705  SMR No.: NJ 80 NE 12 (13)
Artefacts/monument: Long cairn
Comments: Appears to have neither horns nor a chamber. 52m long, 12m broad, 2.7m high. Stones rise to 2 peaks.
Bibliography: Callander 1924 p21-2, Henshall 1963 p396
Location/altitude: On slight ridge on slope of Cloghill. 150m OD.
Distance from the Dee: 6000m  Vegetation type: arable
Landuse capability: 3.2  Soil association: CW

N 2 Park Quarry
Parish: Durris  District: Kincardine/Deeside  NGR: NO 8021 9798  SMR No.: NO 89 NW 37
Artefacts/monument: Sherds of several pot types, 1 thin, black with carination. Also some quartz nodules, burnt flint flakes, pieces of chert-like stones, and a complete pine cone.
Comments: Quartz burning pit excavated. This was a shallow scoop, 1.5m by 0.8m, and 10-15cm deep, with in situ burning. Most finds were located near the surface, above the pit. The pine cone was from in the pit.
Location/altitude: On gravel knoll. 35m OD.
Distance from the Dee: 200m  Vegetation type: none/quarry
Landuse capability: 4.2  Soil association: CY

N 3 East Finnercy
Parish: Echt  District: Gordon  NGR: NJ 7647 0429  SMR No.: NJ 70 SE 2 (3)
Artefacts/monument: Fragments of 4-5 Neolithic vessels
Comments: Sherds found in the old land surface under a Bronze Age cairn. Pre-cairn occupation deposit also contained a leaf-shaped arrowhead, and traces of hearths.
Excavated in 1925, and again in 1951-2 by S Piggott and RJC Atchinson.
Present location of finds: National Museum of Scotland [EQ 385-92]
Location/altitude: 100m OD.
Distance from the Dee: 7000m  Vegetation type: pasture
Landuse capability: 3.2  Soil association: CY

N 4 Balbridie
Parish: Banchory-Ternan  District: Kincardine/Deeside  NGR: NO 733 959  SMR No.: NO 79 NW 14
Artefacts/monument: Timber hall
Comments: 24 by 12m rectangular structure with internal cross walls and curved gable ends. Quantities of charred cereal grains were found in the post-holes, and wood and grain produced dates averaging 4975±24 BP (3025 bc).
N.5 Finzean  
Parish: Birse  
District: Kincardine/Deeside  
NGR: NO 5918 9378  
SMR No.: NO 59 SE (1)  
Artefacts/monument: Long cairn  
Comments: "A wedge-shaped steep sided cairn of bare stones" 3.5m high, 33m long, 26m wide at east end and 9m at west end. Probably a long cairn of Henshall's short trapezoidal type.  
Location/altitude: Brow of small hill. 115m above the river Feugh, on the north side. 235m OD.  
Distance from the Dee: 4000m  
Vegetation type: conifer forest  
Landuse capability: 5.2  
Soil association: CW

N.6 Balnagowan  
Parish: Coull  
District: Kincardine/Deeside  
NGR: NJ 4908 0059  
SMR No.: NJ 40 SE 19 (21)  
Artefacts/monument: Horned long cairn  
Comments: 53m long, with horns projecting another 3m at east end. Maximum of 2m in height. Aligned ESE-WNW, composed of large boulders, with no structural features exposed. A hollow crossing the cairn behind the facade is probably original according to Henshall.  
Bibliography: Henshall 1963 p392, Simpson 1943 p18-20  
Location/altitude: On saddle between Craig Dhu and Balnagowan Hill, 50m above Braeroddach Loch; 250m OD.  
Distance from the Dee: 2500m  
Vegetation type: moorland/birch scrub  
Landuse capability: 4.2  
Soil association: CW

N.7 Balnacraig  
Parish: Aboyne-Glentanar  
District: Kincardine/Deeside  
NGR: NJ 4785 0080  
SMR No: NJ 40 SE 43 (47)  
Artefacts/monument: Horned long cairn. 4 flints found in the same field.  
Comments: 35m long, 2.5m high. Horns at east end. "The cairn is a bare tumble of stones with many disturbances. Forecourt appears to be blocked by boulders. There are possibly two phases of construction."  
Bibliography: Edwards and Kenworthy 1975  
Location/altitude: On hill crest 45m above Braeroddach Loch. 245m OD.  
Distance from the Dee: 2600m  
Vegetation type: arable  
Landuse capability: 4.2  
Soil association: CW
Leaf-shaped arrowheads

A 1 Nigg

A 2 Aberdeen
Parish: Aberdeen District: Aberdeen City NGR: NJ 940 050 SMR No.: Artefacts/monument: 1 leaf-shaped arrowhead Bibliography: Hamilton 1983 Location/altitude: 10-20m OD. Distance from the Dee: 200m Vegetation type: urban Landuse capability: - Soil association: -

A 3 Aberdeen
Parish: Aberdeen District: Aberdeen City NGR: NJ 940 050 SMR No.: Artefacts/monument: 1 leaf-shaped arrowhead Comments: Type-Hamilton 20, Green 3a Bibliography: Hamilton 1983 Location/altitude: 10-20m OD. Distance from the Dee: 200m Vegetation type: urban Landuse capability: - Soil association: -

A 4 Newhills

A 5 Newhills
A 6 Newhills
Parish: Newhills  District: Aberdeen City  NGR: NJ 865 050  SMR No.:
Artefacts/monument: 1 leaf-shaped arrowhead
Comments: Type-Hamilton 20, Green 4a
Bibliography: Hamilton 1983
Location/altitude: 160-200m OD.
Distance from the Dee: <5000m  Vegetation type:
Landuse capability: 3.2  Soil association: CR

A 7 Newhills
Parish: Newhills  District: Aberdeen City  NGR: NJ 865 050  SMR No.:
Artefacts/monument: 1 leaf-shaped arrowhead
Comments: Type-Hamilton 8, Green 4b
Bibliography: Hamilton 1983
Location/altitude: 160-200m OD.
Distance from the Dee: <5000m  Vegetation type:
Landuse capability: 3.2  Soil association: CR

A 8 Newhills
Parish: Newhills  District: Aberdeen City  NGR: NJ 865 050  SMR No.:
Artefacts/monument: 1 leaf-shaped arrowhead
Comments: Type-Hamilton 8a, Green 3e
Bibliography: Hamilton 1983
Location/altitude: 160-200m OD.
Distance from the Dee: <5000m  Vegetation type:
Landuse capability: 3.2  Soil association: CR

A 9 Maryculter
Parish: Peterculter  District: Aberdeen City  NGR: NO 860 990  SMR No.:
Artefacts/monument: 1 leaf-shaped arrowhead
Comments: Type-Hamilton 11, Green 4c
Bibliography: Hamilton 1983
Location/altitude: 30-100m OD.
Distance from the Dee: <1500m  Vegetation type:
Landuse capability: 3.2/4.2  Soil association: CW/TV

A 10 Maryculter
Parish: Peterculter  District: Aberdeen City  NGR: NO 860 990  SMR No.:
Artefacts/monument: 1 leaf-shaped arrowhead
Comments: Type-Hamilton 13, Green 4b
Bibliography: Hamilton 1983
Location/altitude: 30-100m OD.
Distance from the Dee: <1500m  Vegetation type:
Landuse capability: 3.2/4.2  Soil association: CW/TV
A 11 Brimmond Hill cairn
Parish: Newhills District: Aberdeen City NGR: NJ 853 089 SMR No.: 
Artefacts/monument: 1 leaf-shaped arrowhead
Comments: Type-Hamilton 21, Green 4a. Hamilton gives a grid reference of NJ 860 065 for this find, but this is assumed to be an error as it is not on Brimmond Hill. The grid reference used is for the cairn just below the summit of Brimmond Hill.
Bibliography: Hamilton 1983
Location/altitude: Assumed to be close to the summit of Brimmond Hill. 245m OD.
Distance from the Dee: 8500m Vegetation type: moorland
Landuse capability: 5.2 Soil association: CR

A 12 Borrowstone
Parish: Newhills District: Aberdeen City NGR: NJ 851 075 SMR No.: 
Artefacts/monument: 1 leaf-shaped arrowhead
Comments: Small very finely worked leaf-shaped arrowhead.
Location/altitude: 140-150m OD.
Distance from the Dee: 7500m Vegetation type: arable
Landuse capability: 3.2 Soil association: DA

A 13 Hill of Keir
Parish: Skene District: Gordon NGR: NJ 81 08 SMR No.: NJ 80 NW 22
Artefacts/monument: 1 leaf-shaped arrowhead
Comments: Excavated in 1864. Present location of finds: Inverurie Museum [AD3]
Location/altitude: 200-220m OD.
Distance from the Dee: 7000m Vegetation type:
Landuse capability: 3.1 Soil association: CW

A 14 Skene
Parish: Skene District: Gordon NGR: NJ 805 075 SMR No.: 
Artefacts/monument: 1 leaf-shaped arrowhead
Bibliography: Hamilton 1983
Location/altitude: 90-150m OD.
Distance from the Dee: 6000m Vegetation type:
Landuse capability: 3.1 Soil association: CR

A 15 Skene
Parish: Skene District: Gordon NGR: NJ 805 075 SMR No.: 
Artefacts/monument: 1 leaf-shaped arrowhead
Comments: Type-Hamilton 24, Green 3a
Bibliography: Hamilton 1983
Location/altitude: 90-150m OD.
Distance from the Dee: 6000m Vegetation type:
Landuse capability: 3.1 Soil association: CR
A 16 Cullerlie
Parish: Cullerlie  District: Gordon  NGR: NJ 765 030  SMR No.:
Artefacts/monument: 1 leaf-shaped arrowhead
Comments: Type-Hamilton 14, Green 4b
Bibliography: Hamilton 1983
Location/altitude: In small stream valley, 75m OD.
Distance from the Dee: 6500m  Vegetation type:
Landuse capability: 3.2  Soil association: CY

A 17 Cullerlie
Parish: Cullerlie  District: Gordon  NGR: NJ 765 030  SMR No.:
Artefacts/monument: 1 leaf-shaped arrowhead
Comments: Type-Hamilton 3, Green 4b
Bibliography: Hamilton 1983
Location/altitude: In small stream valley, 75m OD.
Distance from the Dee: 6500m  Vegetation type:
Landuse capability: 3.2  Soil association: CY

A 18 East Finnercy
Parish: Echt  District: Gordon  NGR: NJ 7647 0429  SMR No.: NJ 70 SE 2 (3)
Artefacts/monument: 1 leaf-shaped arrowhead
Present location of finds: National Museum of Scotland
Bibliography: Atkinson 1962 p18
Location/altitude: From old landsurface beneath the cairn, 100m OD.
Distance from the Dee: 7000m  Vegetation type: pasture
Landuse capability: 3.2  Soil association: CY

A 19 Crathes
Parish: Banchory-Ternan  District: Kincardine/Deeside  NGR: NO 750 960  SMR No.:
Artefacts/monument: 1 leaf-shaped arrowhead
Comments: Type-Hamilton 1, Green 4a
Bibliography: Hamilton 1983
Location/altitude: Unspecified whether it is from upper or lower terrace, 40m OD.
Distance from the Dee: <700m  Vegetation type:
Landuse capability: 3.2  Soil association: AL/CY

A 20 Crathes
Parish: Banchory-Ternan  District: Kincardine/Deeside  NGR: NO 750 960  SMR No.:
Artefacts/monument: 1 leaf-shaped arrowhead
Comments: Type-Hamilton 21, Green 4b
Bibliography: Hamilton 1983
Location/altitude: Unspecified whether it is from upper or lower terrace, 40m OD.
Distance from the Dee: <700m  Vegetation type:
Landuse capability: 3.2  Soil association: AL/CY
A 21 Grieve J
Parish: Banchory-Ternan  District: Kincardine/Deeside  NGR: NO 71050 95700
SMR No.:
Artefacts/monument: 1 leaf-shaped arrowhead
Comments: An irregular bifacially retouched leaf-shaped arrowhead was among the finds from this site.
Location/altitude: First terrace of the Dee. 45m OD.
Distance from the Dee: <50m  Vegetation type: arable
Landuse capability: 3.2  Soil association: AL

A 22 Midmar Forest
Parish: Echt  District: Gordon  NGR: NJ 710 045  SMR No.:
Artefacts/monument: 1 leaf-shaped arrowhead
Comments: Type-Hamilton 3, Green 4a
Bibliography: Hamilton 1983
Location/altitude: On steep north facing slope of Greymore. 220m OD.
Distance from the Dee: 8500m  Vegetation type: conifer forest
Landuse capability: 5.2  Soil association: CW

A 23 Banchory
Parish: Banchory-Ternan  District: Kincardine/Deeside  NGR: NO 70 95-73 95  SMR No.:
Artefacts/monument: 3 leaf-shaped arrowheads
Comments: Assemblage includes 3 leaf-shaped arrowheads, and other less regular bifacially retouched pieces. Also includes 6 barb-and-tanged arrowheads.
Present location of finds: National Museum of Scotland
Bibliography: Paterson and Lacaille 1936
Location/altitude: From both upper and lower terraces. 57m OD.
Distance from the Dee: <600m  Vegetation type: arable
Landuse capability: 3.2/4.2  Soil association: AL/CY

A 24 Banchory
Parish: Banchory-Ternan  District: Kincardine/Deeside  NGR: NO 695 955  SMR No.:
Artefacts/monument: 1 leaf-shaped arrowhead
Comments: Type-Hamilton 12, Green 4c
Bibliography: Hamilton 1983
Location/altitude: 60m OD.
Distance from the Dee: 300m  Vegetation type: urban
Landuse capability: 3.2  Soil association: CY
A 25 Banchory
Parish: Banchory District: Kincardine/Deeside NGR: NO 69 95 SMR No.: NO 69 NE 10 (14)
Artefacts/monument: 1 leaf-shaped arrowhead
Comments: Exhibited in the Archaeological Exhibition of 1859, in Aberdeen.
Present location of finds: National Museum of Scotland
Bibliography: PSAS 10 1873 p193
Location/altitude: On second terrace of the Dee. 50-100m OD.
Distance from the Dee: <1000m Vegetation type:
Landuse capability: 3.2 Soil association: CY

A 26 Craiginchmyre
Parish: Banchory-Ternan District: Kincardine/Deeside NGR: NO 69 95 SMR No.: NO 69 NE 4 (7)
Artefacts/monument: 3 leaf-shaped arrowheads
Comments: Barb-and-tang arrowhead also found here. The exact location of Craiginchmyre is unknown.
Present location of finds: Museum Library of Free Church College, Aberdeen
Bibliography: PSAS 22 1888 p362
Location/altitude: 50-100m OD.
Distance from the Dee: <1000m Vegetation type:
Landuse capability: 3.2 Soil association: CY

A 27 Glassel
Parish: Banchory District: Kincardine/Deeside NGR: NO 660 995 SMR No.: NO 69 NE 11 (14)
Artefacts/monument: 1 leaf-shaped arrowhead
Comments: Type-Hamilton 24, Green 3b
Bibliography: Hamilton 1983
Location/altitude: 110m OD.
Distance from the Dee: 3000m Vegetation type:
Landuse capability: 3.2 Soil association: CW

A 28 Kincardine O'Neil
Parish: Kincardine O'Neil District: Kincardine/Deeside NGR: NO 591 993 SMR No.: NO 69 NE 12 (14)
Artefacts/monument: Leaf-shaped and barb and tang arrowheads
Comments: Several arrowheads found near the Old Ferry.
Present location of finds: Douglas Riach
Bibliography: Information from Graham Steele
Location/altitude: On flood plain of the Dee. 95m OD.
Distance from the Dee: <10m Vegetation type:
Landuse capability: 3.2 Soil association: AL
A 29 Dess
Parish: Kincardine O'Neil  District: Kincardine/Deeside  NGR: NJ 565 010  SMR No.:
Artefacts/monument: 1 leaf-shaped arrowhead
Comments: Type-Hamilton 11, Green 3b, made of pale flint,
Present location of finds: National Museum of Scotland [AD 48 2363]
Bibliography: Hamilton 1983
Location/altitude: 130-140m OD.
Distance from the Dee: <1500m  Vegetation type:
Landuse capability: 3.2  Soil association: CY

A 30 Dess
Parish: Kincardine O'Neil  District: Kincardine/Deeside  NGR: NJ 565 010  SMR No.:
Artefacts/monument: 1 leaf-shaped arrowhead
Comments: Type-Hamilton 13, Green 2c
Bibliography: Hamilton 1983
Location/altitude: 130-140m OD.
Distance from the Dee: <1500m  Vegetation type:
Landuse capability: 3.2  Soil association: CY

A 31 Dess
Parish: Kincardine O'Neil  District: Kincardine/Deeside  NGR: NJ 565 010  SMR No.:
Artefacts/monument: 1 leaf-shaped arrowhead
Comments: Type-Hamilton 15, Green 3a
Bibliography: Hamilton 1983
Location/altitude: 130-140m OD.
Distance from the Dee: <1500m  Vegetation type:
Landuse capability: 3.2  Soil association: CY

A 32 Dess
Parish: Kincardine O'Neil  District: Kincardine/Deeside  NGR: NJ 565 010  SMR No.:
Artefacts/monument: 1 leaf-shaped arrowhead
Comments: Type-Hamilton 9, Green 4c
Bibliography: Hamilton 1983
Location/altitude: 130-140m OD.
Distance from the Dee: <1500m  Vegetation type:  Landuse capability: 3.2  Soil association: CY
A 33 Birse
Parish: Birse  District: Kincardine/Deeside  NGR: NO 560 970  SMR No.:
Artefacts/monument: 1 leaf-shaped arrowhead
Comments: Type-Hamilton 3, Green 4a
Bibliography: Hamilton 1983
Location/altitude: From flood plain/first terrace of the Dee. 110m OD.
Distance from the Dee: <500m  Vegetation type:
Landuse capability: 3.2  Soil association: AL

A 34 Birse
Parish: Birse  District: Kincardine/Deeside  NGR: NO 560 970  SMR No.:
Artefacts/monument: 1 leaf-shaped arrowhead
Comments: Type-Hamilton 13, Green 2c
Bibliography: Hamilton 1983
Location/altitude: From flood plain/first terrace of the Dee. 110m OD.
Distance from the Dee: <500m  Vegetation type:
Landuse capability: 3.2  Soil association: AL

A 35 Aboyne
Parish: Aboyne-Glentanar  District: Kincardine/Deeside  NGR: NO 520 985  SMR No.:
Artefacts/monument: 1 leaf-shaped arrowhead
Comments: Type-Hamilton 1, Green 4a
Bibliography: Hamilton 1983
Location/altitude: From flood plain/first terrace of the Dee. 130m OD.
Distance from the Dee: 600m  Vegetation type: urban
Landuse capability: 3.2  Soil association: AL

A 36 Aboyne
Parish: Aboyne and Glentanar  District: Kincardine/Deeside  NGR: NO 520 985  SMR No.:
Artefacts/monument: 1 leaf-shaped arrowhead
Comments: Type-Hamilton 20, Green 4a
Bibliography: Hamilton 1983
Location/altitude: From flood plain/first terrace of the Dee. 130m OD.
Distance from the Dee: 600m  Vegetation type: urban
Landuse capability: 3.2  Soil association: AL

A 37 Dalwhing Farm
Parish: Aboyne-Glentanar  District: Kincardine/Deeside  NGR: NO 50 97  SMR No.:
NO 59 NW 30
Artefacts/monument: 1 leaf-shaped arrowhead
Comments: Part of collection of 9 artefacts including 2 polished stone axes and several barb and tanged arrowheads.
Present location of finds: H. Smith
Bibliography: Steele 1984 p9
Location/altitude: On the flood plain of the Dee. 128m OD.
Distance from the Dee: 300m Vegetation type:
Landuse capability: 3.2 Soil association: AL

A 38 Dinnet
Parish: Glenmuik, Tullich, Glengairn District: Kincardine/Deeside NGR: NO 460 980 SMR No.:
Artefacts/monument: 1 leaf-shaped arrowhead
Comments: Type-Hamilton 1, Green 4b
Bibliography: Hamilton 1983
Location/altitude: 150-160m OD.
Distance from the Dee: <500m Vegetation type:
Landuse capability: 4.2 Soil association: CY

A 39 Dinnet
Parish: Glenmuik, Tullich, Glengairn District: Kincardine/Deeside NGR: NO 460 980 SMR No.:
Artefacts/monument: 1 leaf-shaped arrowhead
Comments: Type-Hamilton 1, Green 4b
Bibliography: Hamilton 1983
Location/altitude: 150-160m OD.
Distance from the Dee: <700m Vegetation type:
Landuse capability: 4.2 Soil association: CY

A 40 Ferney Howe
Parish: Aboyne-Glentanar District: Kincardine/Deeside NGR: NJ 45 03 SMR No.:
Artefacts/monument: 1 leaf-shaped arrowhead
Comments: Part of a flint collection, see F9 for details. Finds came from Howe of Cromar, and the collector lived at Ferney Howe, Glendavan, but provenance is uncertain.
Present location of finds: Marischal College Museum, Aberdeen
Location/altitude: Ferney Howe lies 65m above Loch Davan. 230m OD.
Distance from the Dee: 5000m Vegetation type: arable
Landuse capability: 3.2/4.1 Soil association: AL

A 41 Kinord
Parish: District: Kincardine/Deeside NGR: NO 44 99-44 01 SMR No.:
Artefacts/monument: 1 leaf-shaped arrowhead
Comments: Type-Hamilton 8b, Green 3c
Bibliography: Hamilton 1983
Location/altitude: Presumably from Old or New Kinord on a rise immediately north of the loch. 190-170m OD.
Distance from the Dee: <2500m Vegetation type:
Landuse capability: 3.2 Soil association: DT
A 42 Culblean
Parish: Glenmuick-Tullich-Glengairn District: Kincardine/Deeside NGR: NJ 4308 0024 SMR No.: NJ 40 SW 12 (8)
Artefacts/monument: 1 arrowhead of Neolithic type
Comments: Found in rabbit hole just outside enclosure S. Arrowhead is probably leaf-shaped, but this is not explicitly stated.
Bibliography: Abercromby 1904 p109-14
Location/altitude: On steep hillside, 55m above Loch Davan. 220m OD.
Distance from the Dee: 2500m Vegetation type: pasture
Landuse capability: 5.2 Soil association: CW

A 43 Ettrick Croft
Parish: Dinnet District: Kincardine/Deeside NGR: NO 4258 9570 SMR No.:
Artefacts/monument: 1 leaf-shaped arrowhead
Comments: A finely bifacially retouched leaf-shaped arrowhead is among the finds from this field.
Present location of finds: With the farmer
Location/altitude: Field over-looking Muir of Dinnet, possible concentration on slight plateau 255-275m OD.
Distance from the Dee: 900m Vegetation type: recently ploughed grassland
Landuse capability: 4.2 Soil association: TR

A 44 Cromar
Parish: District: Kincardine/Deeside NGR: SMR No.:
Artefacts/monument: 1 leaf-shaped arrowhead
Comments: Type-Hamilton 1, Green 4a
Bibliography: Hamilton 1983
Distance from the Dee: Vegetation type:
Landuse capability: 3.2 Soil association: CW

A 45 Cromar
Parish: District: Kincardine/Deeside NGR: SMR No.:
Artefacts/monument: 1 leaf-shaped arrowhead
Comments: Type-Hamilton 22, Green 3c
Bibliography: Hamilton 1983
Distance from the Dee: Vegetation type:
Landuse capability: 3.2 Soil association: CW
Polished stone axes

X 1 Deeside
Parish: Aberdeen District: Aberdeen City NGR: NJ 94 05 SMR No.: NJ 90 NW 36
(18)
Artefacts/monument: Small, polished axe of Peterhead granite
Comments: Sold in 1889 as part of Sturrock collection.
Location/altitude: 5m OD.
Distance from the Dee: 50m Vegetation type: urban
Landuse capability: - Soil association: -

X 2 Cults
Parish: Peterculter District: Aberdeen City NGR: NJ 89 02 SMR No.: NJ 80 SE 26
(31)
Artefacts/monument: Polished stone axe
Comments: Sold in 1892 as part of Rae collection.
Location/altitude: Not specified whether on upper or lower terrace. 30-80m OD.
Distance from the Dee: <1000m Vegetation type:
Landuse capability: 3.1 Soil association: AL/CY

X 3 Cults
Parish: Peterculter District: Aberdeen City NGR: NJ 89 02 SMR No.: NJ 80 SE 28
(33)
Artefacts/monument: 2 polished stone axes
Comments: Also found in similar area: flint arrowheads of unknown type, 4 other flint implements, a stone ball, and a stone hammer.
Present location of finds: Aberdeen Art Gallery and Museums
Location/altitude: Not specified whether on upper or lower terrace. 30-80m OD.
Distance from the Dee: <1000m Vegetation type:
Landuse capability: 3.1 Soil association: AL/CY

X 4 Cults
Parish: Peterculter District: Aberdeen City NGR: NJ 89 02 SMR No.: NJ 80 SE 30
(35)
Artefacts/monument: Flint axe
Present location of finds: Aberdeen Art Gallery and Museums
Location/altitude: Not specified whether on upper or lower terrace. 30-80m OD.
Distance from the Dee: <1000m Vegetation type:
Landuse capability: 3.1 Soil association: AL/CY
X 5 Brodiach
Parish: Skene District: Gordon NGR: NJ 84 07 SMR No.: NJ 80 NW 21
Artefacts/monument: Polished stone axe
Comments: 7 1/8 inches long, also 2 flint perforators and a flint knife.
Present location of finds: Inverurie Museum [AF33]
Location/altitude: 120m OD.
Distance from the Dee: 6000m Vegetation type:
Landuse capability: 3.2 Soil association: DA/TV

X 6 Skene
Parish: Skene District: Gordon NGR: NJ 81 07 SMR No.: NJ 80 NW 23
Artefacts/monument: Polished stone axe
Comments: 4 3/4 by 3 1/4". Part of Johnson collection. Also 2 flint knives.
Present location of finds: Aberdeen Art Gallery and Museums
Location/altitude: 120-155m OD.
Distance from the Dee: 6000m Vegetation type:
Landuse capability: 3.1/3.2 Soil association: CW

X 7 Skene
Parish: Skene District: Gordon NGR: NJ 80 07 SMR No.: NJ 80 NW 19
Artefacts/monument: Polished granite and claystone axes
Comments: In the Wilson collection.
Present location of finds: Marischal College Museum, Aberdeen
Location/altitude: 90-150m OD.
Distance from the Dee: 6000m Vegetation type:
Landuse capability: 3.1 Soil association: CW

X 8 Skene
Parish: Skene District: Gordon NGR: NJ 80 07 SMR No.: NJ 80 NW 18
Artefacts/monument: Polished stone axe
Comments: Exhibited at the History Exhibition in Glasgow 1911.
Bibliography: Palace of History 1911 p845 no.66
Location/altitude: 90-150m OD.
Distance from the Dee: 6000m Vegetation type:
Landuse capability: 3.1 Soil association: CW

X 9 Skene
Parish: Skene District: Gordon NGR: NJ 80 07 SMR No.: NJ 80 NW 20
Artefacts/monument: Polished stone axe
Comments: Part of the John Rae collection.
Location/altitude: 90-150m OD.
Distance from the Dee: 6000m Vegetation type:
Landuse capability: 3.1/3.2 Soil association: CW

253
X 10 Millbuie
Parish: Skene District: Gordon NGR: NJ 79 09 SMR No.: NJ 70 NE 9 (10)
Artefacts/monument: Polished stone axe
Comments: Exhibited at the History Exhibition in Glasgow 1911.
Bibliography: Palace of History 1911 p844 no.47
Location/altitude: 150-180m OD.
Distance from the Dee: 7000m Vegetation type:
Landuse capability: 3.1 Soil association: CW

X 11 Skene
Parish: Skene District: Gordon NGR: NJ 79 08 SMR No.: NJ 70 NE 6
Artefacts/monument: Polished felstone axe
Comments: 4 by 1 7/8 inches. Part of the John Rae collection.
Present location of finds: National Museum of Scotland [AF402]
Bibliography: PSAS 27 1892 p9
Location/altitude: 90-150m OD.
Distance from the Dee: 7000m Vegetation type:
Landuse capability: 3.1 Soil association: CW

X 12 Strachan
Parish: Strachan District: Kincardine/Deeside NGR: NO 67 92 SMR No.: NO 69 SE (10)
Artefacts/monument: Polished stone axe
Present location of finds: St. Andrews University [N 1002]
Location/altitude: 0-25m above the Feugh. Probably on north bank on flood plain. 75-100m OD.
Distance from the Dee: 5000m Vegetation type:
Landuse capability: 3.2 Soil association: AL

X 13 Glassel
Parish: Banchory-Ternan District: Kincardine/Deeside NGR: NO 656 993 SMR No.: NO 69 NE 5 (8)
Artefacts/monument: Polished stone axe
Comments: 4 3/4 by 1 3/4". Part of Rae collection sold in 1892.
Location/altitude: 120m OD.
Distance from the Dee: 3000m Vegetation type: mixed broadleaf woodland
Landuse capability: 3.2 Soil association: CW

X 14 Hill of Corrennie
Parish: Cluny District: Gordon NGR: NJ 61 09 SMR No.: NJ 60 NW 5
Artefacts/monument: Polished stone axe
Comments: 9 1/4 by 3 inches.
Present location of finds: National Museum of Scotland [AF214]
Bibliography: PSAS 17 1883 p381
Location/altitude: On steep sided knoll. 420-480m OD.
Distance from the Dee: 10,000m Vegetation type: dry heath
Landuse capability: 5.2/6.2 Soil association: ST

254
X 15 Williamston
Parish: Kincardine O'Neil District: Kincardine/Deeside NGR: NO 591 998 SMR No.: NO 59 NE 13 (14)
Artefacts/monument: Polished gneiss axe
Comments: 7 3/4 by 2 3/4". The exact site of Williamston is unknown.
Present location of finds: National Museum of Scotland [AF216]
Bibliography: PSAS 17 1883 p381
Location/altitude: Upper terrace of the Dee. 100m OD.
Distance from the Dee: 400m Vegetation type:
Landuse capability: 3.2 Soil association: CW

X 16 Kincardine O'Neil
Parish: Kincardine O'Neil District: Kincardine/Deeside NGR: NO 59 99 SMR No.: NO 59 NE 22 (25)
Artefacts/monument: 2 polished stone axes
Comments: Sold at Dowell’s, Edinburgh in 1892 as part of the Rae collection. The axes were found separately.
Location/altitude: 90-120m OD.
Distance from the Dee: 400m Vegetation type:
Landuse capability: 3.2 Soil association: AL/DT

X 17 Kincardine O'Neil
Parish: Kincardine O'Neil District: Kincardine/Deeside NGR: NO 59 99 SMR No.: NO 59 NE 19 (21)
Artefacts/monument: Polished granite axe
Present location of finds: Marischal College Museum, Aberdeen
Location/altitude: 90-120m OD.
Distance from the Dee: 400m Vegetation type:
Landuse capability: 3.2 Soil association: AL/DT

X 18 Kincardine O'Neil
Parish: Kincardine O'Neil District: Kincardine/Deeside NGR: NO 59 99 SMR No.: NO 59 NE 23 (26)
Artefacts/monument: Polished stone axe
Comments: Sold at Dowell’s, Edinburgh in 1889 as part of the Sturrock collection.
Location/altitude: 90-120m OD.
Distance from the Dee: 400m Vegetation type:
Landuse capability: 3.2 Soil association: AL/DT
X 19 Kincardine O'Neil
Parish: Kincardine O'Neil  District: Kincardine/Deeside  NGR: NO 59 99  SMR No.: NO 59 NE 24 (27)
Artefacts/monument: Polished stone axe
Comments: Sold at Dowell's, Edinburgh in 1889 as part of the Sturrock collection.
Location/altitude: 90-120m OD.
Distance from the Dee: 400m  Vegetation type:
Landuse capability: 3.2  Soil association: AL/DT

X 20 Drumgesk
Parish: Aboyne-Glentanar  District: Kincardine/Deeside  NGR: NO 55 99  SMR No.: NO 59 NE 4 (5)
Artefacts/monument: Polished stone axe
Comments: 8 1/2" long.
Present location of finds: Inverurie Museum [AF9]
Location/altitude: 150-165m OD.
Distance from the Dee: 1000m  Vegetation type:
Landuse capability: 3.2/4.1  Soil association: TN

X 21 Birse
Parish: Birse  District: Kincardine/Deeside  NGR: NO 55 97  SMR No.: NO 59 NE 9 (10)
Artefacts/monument: Flint axe
Comments: Part of Rae collection. 2 5/8 by 1 1/8", chisel shaped.
Present location of finds: National Museum of Scotland
Bibliography: PSAS 27 1892 p10
Location/altitude: 100-120m OD.
Distance from the Dee: 500m  Vegetation type:
Landuse capability: 3.2  Soil association: CY

X 22 Hill of Mortlich
Parish: Coull/Lumphanan  District: Kincardine/Deeside  NGR: NJ 53 01  SMR No: NJ 50 SW 6 (8)
Artefacts/monument: Polished gneiss axe
Comments: 7 1/2 by 3".
Present location of finds: National Museum of Scotland [AF217]
Bibliography: PSAS 17 1883 p381
Location/altitude: 250-380m OD.
Distance from the Dee: 3500m  Vegetation type:
Landuse capability: 5.3/6.2  Soil association: CW
X 23 Aboyne
Parish: Aboyne and Glentanar District: Kincardine/Deeside NGR: NO 52 98 SMR No.: NO 59 NW 8 (9)
Artefacts/monument: Polished sandstone axe
Comments: 5 7/8" long, 2 5/8" wide, partly polished.
Present location of finds: National Museum of Scotland [AF239]
Bibliography: PSAS 18 1884 p15
Location/altitude: 120-135m OD.
Distance from the Dee: 500m Vegetation type:
Landuse capability: 3.2 Soil association: CY/AL

X 24 Aboyne
Parish: Aboyne and Glentanar District: Kincardine/Deeside NGR: NO 52 98 SMR No.: NO 59 NW 10 (11)
Artefacts/monument: Finely polished veined slate axe
Comments: 4 by 2 inches
Present location of finds: National Museum of Scotland
Bibliography: PSAS 24 1889 p7
Location/altitude: 120-135m OD.
Distance from the Dee: 500m Vegetation type:
Landuse capability: 3.2 Soil association: CY/AL

X 25 Aboyne
Parish: Aboyne and Glentanar District: Kincardine/Deeside NGR: NO 52 98 SMR No.: NO 59 NW 4 (4)
Artefacts/monument: Polished stone axe
Present location of finds: Aberdeen Art Gallery and Museums
Location/altitude: 120-135m OD.
Distance from the Dee: 500m Vegetation type:
Landuse capability: 3.2 Soil association: CY/AL

X 26 Aboyne
Parish: Aboyne and Glentanar District: Kincardine/Deeside NGR: NO 52 98 SMR No.: NO 59 NW 7 (8)
Artefacts/monument: Polished greenstone axe
Comments: 8 1/2 " long, 3 1/2 wide.
Present location of finds: National Museum of Scotland [AF40]
Bibliography: PSAS 18 1884 p15
Location/altitude: 120-135m OD.
Distance from the Dee: 500m Vegetation type:
Landuse capability: 3.2 Soil association: CY/AL
X 27 Aboyne
Parish: Aboyne and Glentanar District: Kincardine/Deeside NGR: NO 52 98 SMR No.: NO 59 NW (16)
Artefacts/monument: Polished stone axe
Location/altitude: 120-135m OD.
Distance from the Dee: 500m Vegetation type:
Landuse capability: 3.2 Soil association: CY/AL

X 28 Dalwhing Farm
Parish: Aboyne-Glentanar District: Kincardine/Deeside NGR: NO 50 97 SMR No: NO 59 NW 30
Artefacts/monument: 2 polished stone axes
Comments: Part of collection of 9 artefacts including 1 leaf-shapd, and several barb and tanged arrowheads.
Present location of finds: H. Smith
Bibliography: Steele 1984 p9
Location/altitude: On the river floodplain. 128m OD.
Distance from the Dee: 300m Vegetation type:
Landuse capability: 3.2 Soil association: AL

X 29 Cluny
Parish: Aboyne and Glentanar District: Kincardine/Deeside NGR: NO 46 97 SMR No.: NO 49 NE 3
Artefacts/monument: Greenish black, polished jadeite axe
Comments: 11.9 by 6.6 by 1.5cm. Recorded as being from Newton Tillecairn, this probably refers to Tillycairn, Cluny parish.
Present location of finds: National Museum of Scotland [AF120]
Bibliography: Smith 1963 p164
Location/altitude: 250-200m OD.
Distance from the Dee: <1000m Vegetation type:
Landuse capability: 4.2 Soil association: TL/PD

X 30 Dinnet
Parish: Glenmuik, Tullich, Glengairn District: Kincardine/Deeside NGR: NO 45 987 SMR No.: NO 49 NE (17)
Artefacts/monument: Polished stone axe
Comments: Made of igneous rock.
Present location of finds: Hunterian Museum, Glasgow
Location/altitude: 170m OD.
Distance from the Dee: 500m Vegetation type:
Landuse capability: 4.2 Soil association: CY
X 31 Meadow Farm
Parish: Logie-Coldstone District: Kincardine/Deeside NGR: NJ 4431 0661 SMR No.: NJ 40 NW 19
Artefacts/monument: Polished stone axe
Comments: Made in fine-grained brown stone. Found while field was being cleared of stones.
Present location of finds: Aberdeen Art Gallery and Museums
Bibliography: DES 1983 p10
Location/altitude: On hill slope. 250m OD.
Distance from the Dee: 8000m Vegetation type: arable
Landuse capability: 4.1 Soil association: CY/CW

X 32 Loch Kinord
Parish: Glenmuik, Tullich, Glengairn District: Kincardine/Deeside NGR: NO 44 99
SMR No.: NO 49 NW (24)
Artefacts/monument: 2 polished stone axes
Comments: One axe formed part of the John Rae collection, and a second made of porphyry is in Marischal Museum.
Location/altitude: From shore of Loch Kinord. 160m OD.
Distance from the Dee: <2000m Vegetation type:
Landuse capability: 6.2 Soil association: AL

X 33 Schoolhouse
Parish: Logie-Coldstone District: Kincardine/Deeside NGR: NJ 434 043 SMR No.:
Artefacts/monument: Polished stone axe
Comments: Ploughed up in a field. Highly finished, sub-trapezoidal axe of dark greenstone with pink/gold flecks.
Bibliography: DES 1987 p22
Location/altitude: 180m OD.
Distance from the Dee: 6300m Vegetation type:
Landuse capability: 4.2 Soil association: CY

X 34 Burn of Migvie
Parish: Logie-Coldstone District: Kincardine/Deeside NGR: NJ 43 06 SMR No.:
NJ 40 NW 8
Artefacts/monument: Polished slate axe
Comments: 4 by 2". Found with a stone ball.
Present location of finds: National Museum of Scotland [AF104]
Bibliography: PSAS 9 1872 p393
Location/altitude: 220-260m OD.
Distance from the Dee: 9000m Vegetation type:
Landuse capability: 4.1 Soil association: CY
X 35 Ballater
Parish: Glenmuik, Tullich, Glengairn District: Kincardine/Deeside NGR: NO 36 95
SMR No.: NO 39 NE (11)
Artefacts/monument: Polished flint axe
Comments: Sold in 1898 as part of collection of D. Anderson, Aberdeen.
Location/altitude: On the flood plain of the Dee. 200m OD.
Distance from the Dee: 100m  Vegetation type:
Landuse capability: 4.2  Soil association: AL

X 36 Achallater
Parish: Crathie and Braemar District: Kincardine/Deeside NGR: NO 15 88 SMR
No.: NO 18 NE (1)
Artefacts/monument: Polished greenstone axe
Comments: 4 1/2" by 2 1/2" Found in a fow earth at Achallater, Braemar. Given to NMAS
in 1882 by Andrew Kerr.
Present location of finds: National Museum of Scotland [AF207]
Location/altitude: 355m OD.
Distance from the Dee: <3500m  Vegetation type:
Landuse capability: 4.2  Soil association: AL

X 37 Braemar
Parish: Crathie and Braemar District: Kincardine/Deeside NGR: NO 14 91 SMR
No.: NO 19 SW (7)
Artefacts/monument: Polished quartz-porphyry axe
Comments: Found near Braemar.
Present location of finds: Ashmolean, Oxford [1927 4032]
Location/altitude: 320-350m OD.
Distance from the Dee: <500  Vegetation type:
Landuse capability: 4.2  Soil association: AL
O 1 Bay of Nigg
Parish: Aberdeen District: Aberdeen City NGR: NJ 95 04 SMR No.: NJ 90 SE 8 (3)
Artefacts/monument: Shell midden
Comments: Excavation showed that the midden contained periwinkle, limpet, and mussel shells, as well as fish and mammal bones, but no artefacts are mentioned. Dating as Mesolithic relies on its location on the "25ft" raised beach.
Present location of finds: Marischal College Museum, Aberdeen
Bibliography: Simpson 1943 p11
Location/altitude: On main Post-glacial Shoreline. 7m OD.
Distance from the Dee: 900m Vegetation type: Landuse capability: 5.2 Soil association: CY

O 2 46 Gordon Road
Parish: Aberdeen District: Aberdeen City NGR: NJ 9140 0421 SMR No.: NJ 90 SW 17
Artefacts/monument: Broken flint blade
Comments: Found in owner's garden.
Present location of finds: IBM Ralston
Bibliography: Ralston 1975 p57
Location/altitude: 55m OD.
Distance from the Dee: 1200m Vegetation type: urban
Landuse capability: - Soil association: -

O 3 Peterculter
Parish: Peterculter District: Aberdeen City NGR: NJ 8741 0210 SMR No.: NJ 80 SE 37
Artefacts/monument: Flint flake
Comments: Surface find.
Location/altitude: Second terrace. 40m OD.
Distance from the Dee: 900m Vegetation type: Landuse capability: 3.2 Soil association: CY

O 4 Peterculter
Parish: Peterculter District: Aberdeen City NGR: NJ 84 00 SMR No.: NJ 80 SW 8 (14)
Artefacts/monument: "A lopsided (? flint) arrowhead"
Comments: Found in 1872. The description is too vague, and lacking in confidence for this to be included as a Neolithic arrowhead.
Present location of finds: Elgin Museum
Location/altitude: 20-40m OD.
Distance from the Dee: <500m Vegetation type: urban
Landuse capability: 3.2 Soil association: BY
O 5 Skene
Parish: Skene  District: Gordon  NGR: NJ 803 082  SMR No.: O
Artefacts/monument: 1 flint
Comments: Found just north of Kirkstane House.
Present location of finds: R. Livingstone
Location/altitude: 130-135m OD.
Distance from the Dee: 6000m  Vegetation type:
Landuse capability: 3.1  Soil association: CW

O 6 Keith’s Muir
Parish: Drumoak  District: Kincardine/Deeside  NGR: NO 795 985  SMR No.: NO 79 NE 15
Artefacts/monument: Arrowheads of yellow flint, types unspecified.
Comments: Several arrowheads known to have been found in this area, but their type is not known.
Location/altitude: On second terrace. 30-35m OD.
Distance from the Dee: 100m  Vegetation type:
Landuse capability: 4.1  Soil association: CY

O 7 Crathes
Parish: Banchory-Ternan  District: Kincardine/Deeside  NGR: NO 7393 9670  SMR No.: NO 79 NW 12 (17)
Artefacts/monument: Crop mark of timber hall, possibly Neolithic.
Comments: Crop mark of the wall trench of a rectangular timber building. 20 by 10 m. 2 pits on long axis may be roof supports. Date unknown, possibly Neolithic.
Bibliography: RCAMS N.Kinc. list 197, Ralston 1984, Maxwell 1978
Location/altitude: On 2nd river terrace. 54m OD.
Distance from the Dee: 600m  Vegetation type: pasture
Landuse capability: 3.2  Soil association: CY

O 8 Crathes
Parish: Banchory-Ternan  District: Kincardine/Deeside  NGR: NO 737 966  SMR No.: NO 79 NW (18)
Artefacts/monument: Pit alignment
Comments: Irregular line of pits extending for at least 80m. Also other pits scattered across this field.
Bibliography: RCAMS N.Kinc. list 197, Ralston 1984, Maxwell 1978
Location/altitude: On 2nd river terrace. 54m OD.
Distance from the Dee: 600m  Vegetation type: pasture
Landuse capability: 3.2  Soil association: CY
O 9 Crathes
Parish: Banchory-Ternan  District: Kincardine/Deeside  NGR: NO 736 963  SMR No.:
Artefacts/monument: 1 tiny flint
Present location of finds: D. Welch
Location/altitude: On second terrace of the Dee. 45m OD.
Distance from the Dee: <100m  Vegetation type: arable
Landuse capability: 3.2  Soil association: CY

O 10 Bellfield Park
Parish: Banchory  District: Kincardine/Deeside  NGR: NO 697 956  SMR No.:
Artefacts/monument: 3 flints
Comments: Found in 1967 in top soil from Bellfield Park.
Present location of finds: M. Cordiner
Location/altitude: On second terrace of the Dee. 55m OD.
Distance from the Dee: 300m  Vegetation type:
Landuse capability: 3.2  Soil association: CY

O 11 Brig o' Dee
Parish: Banchory  District: Kincardine/Deeside  NGR: NO 69 95  SMR No.:
Artefacts/monument: 1 flint
Present location of finds: D. Welch
Location/altitude: 1st terrace. 45m OD.
Distance from the Dee: <50m  Vegetation type:
Landuse capability: 3.2  Soil association: AL

O 12 Lady's Bridge
Parish: Strachan  District: Kincardine/Deeside  NGR: NO 653 922  SMR No.:
Artefacts/monument: 2 pieces of worked flint
Comments: 2 pieces found close together in south east corner of the field.
Distance from the Dee: 3500m  Vegetation type: arable
Landuse capability: 3.2  Soil association: AL

O 13 Potarch
Parish: Kincardine O'Neil  District: Kincardine/Deeside  NGR: NO 611 969  SMR No.:
Artefacts/monument: 1 piece of water-worn flint.
Comments: Found towards north end of the field.
Distance from the Dee: <50m  Vegetation type: arable
Landuse capability: 3.2  Soil association: AL
O 14. Heugh-head
- Parish: Kincardine O'Neil
- District: Kincardine/Deeside
- NGR: NO 584 997
- SMR No.:
- Artefacts/monument: 1 piece of worked flint
- Comments: Found on the slope of the terrace.
- Distance from the Dee: <100m
- Vegetation type: arable
- Landuse capability: 3.2
- Soil association: CY

O 15. Marywell
- Parish: Birse
- District: Kincardine/Deeside
- NGR: NO 58 95
- SMR No.: NO 59 NE (30)
- Artefacts/monument: Flints from a tumulus
- Comments: "A quantity of flints found recently concealed in the midst of some tumuli on the farm of Marywell."
- Bibliography: Dinnie 1865 Hist of Birse
- Location/altitude: 140m OD.
- Distance from the Dee: 1600m
- Vegetation type:
- Landuse capability: 3.2
- Soil association: DT/AL

O 16. Gillgerric
- Parish: Lumphanan
- District: Kincardine/Deeside
- NGR: NJ 574 062
- SMR No.: NJ 50 NE 1 (2)
- Artefacts/monument: Flint arrowheads, type unspecified.
- Comments: Numerous arrowheads collected from a field in this area, but present whereabouts unknown. Found in association with hut circles and field systems, so the arrowheads are probably Bronze Age.
- Location/altitude: 300-330m OD.
- Distance from the Dee: 6300m
- Vegetation type: wood and rough pasture
- Landuse capability: 4.2
- Soil association: CW

O 17. Birse
- Parish: Birse
- District: Kincardine/Deeside
- NGR: NO 55 97
- SMR No.: NO 59 NE 12 (13)
- Artefacts/monument: Flint fabricator
- Present location of finds: National Museum of Scotland [AA1 71]
- Location/altitude: 100-120m OD.
- Distance from the Dee: 500m
- Vegetation type:
- Landuse capability: 3.2
- Soil association: CY/AL

O 18. Balnagowan Wood
- Parish: Aboyne-Glentanar
- District: Kincardine/Deeside
- NGR: NJ 492 003
- SMR No.: NJ 40 SE
- Artefacts/monument: Reputed long cairn
- Comments: Consists of a heap of small, round field stones. Irregularly shaped and nowhere higher than 0.3m. Probably not a long cairn.
- Location/altitude: 210-240m OD.
- Distance from the Dee: 2500m
- Vegetation type: wood
- Landuse capability: 4.2
- Soil association: CW
O 19 Wisdomhow
Parish: Glenmuick, Tullich, Glengairn District: Kincardine/Deeside NGR: NO 42029854 SMR No.: NO 49 NW 5
Artefacts/monument: 2 possible long cairns
Comments: Ogston reports 2 long cairns of "considerable size" and a double stone ring, but the SMR only records "rocky glacial mounds...but no trace of cairns, or a 'ring of stones'".
Bibliography: Ogston 1931
Location/altitude: On hill over looking Cambus of May. 240m OD.
Distance from the Dee: 700m Vegetation type: woodland Landuse capability: 6.3 Soil association: CW

O 20 Burn o'Vat
Parish: Glenmuick, Tullich, Glengairn District: Kincardine/Deeside NGR: NO 42 99 SMR No.: Several flints collected by D. Milne, who considers, at least, some to be Bronze Age. Unavailable for inspection.
Comments: Scatter of flints found up Vat Burn. Clearance cairns recorded in this area [NO 49 NW 1], and the flints are possibly related to these.
Present location of finds: D. Milne
Location/altitude: Up steep stream valley. c.190-230m OD
Distance from the Dee: 2000m Vegetation type: wooded Landuse capability: 5.2/6.3 Soil association: MBL
APPENDIX V

Tables summarising the characteristics of the larger assemblages collected during fieldwalking as described in chapter VI. Locational and other details for these sites are in appendix IV.

Size of collections

<table>
<thead>
<tr>
<th>Site</th>
<th>Total number of pieces</th>
</tr>
</thead>
<tbody>
<tr>
<td>Borrowstone</td>
<td>46</td>
</tr>
<tr>
<td>Ettrick Croft</td>
<td>35</td>
</tr>
<tr>
<td>Invergelder</td>
<td>14</td>
</tr>
<tr>
<td>Mains of Kinnundy</td>
<td>56</td>
</tr>
<tr>
<td>Upper Ruthven</td>
<td>100</td>
</tr>
<tr>
<td>West Hatton</td>
<td>28</td>
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Table of flint colours

<table>
<thead>
<tr>
<th>Site</th>
<th>Colours</th>
<th>Honey</th>
<th>Grey/pale</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Borrowstone flakes</td>
<td>14</td>
<td>6</td>
<td>2</td>
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<tr>
<td>cores</td>
<td>5</td>
<td>1</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>retouched</td>
<td>6</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ettrick Croft flakes</td>
<td>3</td>
<td>4</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>cores</td>
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<td></td>
</tr>
<tr>
<td>retouched</td>
<td>4</td>
<td>2</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Invergelder flakes</td>
<td>9</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>cores</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>retouched</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mains of Kinnundy</td>
<td>21</td>
<td>12</td>
<td>2</td>
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</tr>
<tr>
<td>cores</td>
<td>3</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>retouched</td>
<td>10</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper Ruthven</td>
<td>56</td>
<td>7</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>cores</td>
<td>7</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>retouched</td>
<td>10</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>West Hatton</td>
<td>2</td>
<td>7</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>cores</td>
<td>3</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>retouched</td>
<td>2</td>
<td>2</td>
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</tbody>
</table>
Table showing number of primary, secondary and tertiary flakes

<table>
<thead>
<tr>
<th>Site</th>
<th>Tertiary</th>
<th>Secondary</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Borrowstone</td>
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<tr>
<td>Mains of Kinmundy</td>
<td>30</td>
<td>5</td>
<td>8</td>
</tr>
<tr>
<td>Ettrick Croft</td>
<td>8</td>
<td>10</td>
<td>3</td>
</tr>
<tr>
<td>Invergelder</td>
<td>6</td>
<td>6</td>
<td>1</td>
</tr>
<tr>
<td>Upper Ruthven</td>
<td>38</td>
<td>38</td>
<td>9</td>
</tr>
<tr>
<td>West Hatton</td>
<td>8</td>
<td>9</td>
<td>2</td>
</tr>
</tbody>
</table>

Table showing core types

<table>
<thead>
<tr>
<th>Core type</th>
<th>Site</th>
<th>Blade</th>
<th>Flake</th>
<th>Intermediate</th>
</tr>
</thead>
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<td>6</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Ettrick Croft</td>
<td>4</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Invergelder</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mains of Kinmundy</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Upper Ruthven</td>
<td>4</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>West Hatton</td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Table of core platform types

<table>
<thead>
<tr>
<th>Platform types</th>
<th>Site</th>
<th>I</th>
<th>II</th>
<th>III</th>
<th>IV</th>
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<tr>
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<td>Borrowstone</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ettrick Croft</td>
<td>4</td>
<td>1</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Invergelder</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mains of Kinmundy</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Upper Ruthven</td>
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<td></td>
<td>West Hatton</td>
<td>1</td>
<td>1</td>
<td></td>
<td>1</td>
</tr>
</tbody>
</table>
Table showing number of blades

<table>
<thead>
<tr>
<th>Site</th>
<th>L/B &gt; 2.5</th>
<th>broken blades</th>
</tr>
</thead>
<tbody>
<tr>
<td>Borrowstone</td>
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</tr>
<tr>
<td>Ettrick Croft</td>
<td>0</td>
<td>4</td>
</tr>
<tr>
<td>Invergelder</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>Mains of Kinmundy</td>
<td>7</td>
<td>4</td>
</tr>
<tr>
<td>Upper Ruthven</td>
<td>5</td>
<td>4</td>
</tr>
<tr>
<td>West Hatton</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

The following are illustrations of selected artefacts from sites discussed in chapter VI. All drawn by J Kenney, and at 1:1 scale unless indicated otherwise.
Retouched pieces and cores from Borrowstone [Z2], grid reference NJ 851 075.
1 leaf-shaped arrowhead, 2 invasively retouched piece, 3 serrated piece, 4 retouched piece, 5,6 cores.
Retouched pieces and cores from Nether Kirkgate [M2], grid reference NJ 942 063.
1-4 scrapers, 5,6 microburins, 7,8 pieces with microlithic retouched, 9,10 cores.
Cores from Park [B5], grid reference: NO 797 985.
Retouched pieces from Park [B5],
grid reference: NO 797 985.
1-4 scrapers, 5 possible strike-a-light, 6 retouched piece.
Retouched pieces and cores from Upper Ruthven [B10],
1-4 scrapers, 5-7 cores, 8 polished piece with possible retouch.
Retouched pieces and cores from West Hatton [Z1], grid reference: NJ 855 066.
1-4 scrapers, 5 bifacially retouched piece, 7,8 cores.
1-3 pieces from Etterick Croft [Z7, B12], grid reference: NO 4258 9570. 3 possibly has microlithic retouch.
4 core from Invergelder [B13], NO 243 941.
5 core from Mains of Kinmundy [B2], NJ 840 074.
6,7 cores from Wester Durris [F10], NO 758 959.
APPENDIX VI

FACTORS INFLUENCING THE SURVIVAL AND DISCOVERY OF MESOLITHIC AND NEOLITHIC SITES

This appendix gives some examples of factors influencing the survival and discovery of Mesolithic and Neolithic sites, along with examples of parts of Britain where these factors have a significant effect.

Factors influencing the survival of Mesolithic and Neolithic sites

Agriculture

Example: In the area of Stonehenge the concentration of pre-twentieth century farming in the Avon valley seems to have helped to preserve the monuments on the Downs. Reference: Richards 1990

Example: It is probable that a large number of long barrows were destroyed by Medieval and later farming in the Tabular Hills, North Yorkshire, where field names hint at their previous existence. Reference: Spratt 1982

Example: Ploughing truncates and destroys archaeological features, so that the excavation of a site identified by a flint scatter may add little to the knowledge of that site. Reference: Holgate 1988, Ford 1987b

Example: The absence of Neolithic burials in West Yorkshire is probably due to their destruction by farming and urbanisation. Reference: Keighley 1981

Alluvium

Example: Though alluvium masks sites it also protects them and sites on higher ground in southern England may have been lost due to the lack of this protection. Reference: French 1990

Blanket peat

Example: A large number of settlements and field systems have been preserved under the peat on Shetland, though too little work has been carried out on them to identify which are Neolithic. Reference: Fraser 1983

Example: Blanket peat can protect both monumental and domestic sites from destructive processes. Reference: Stevenson 1975
Coastal erosion

Example: Erosion has been very active on the coast of North Yorkshire, parts of which may regress at a rate of 20-30m per century or more.
Reference: Hemmingway 1982

Example: Large parts of the Welsh coastline have been lost by erosion.
Reference: David 1985

Coastal submergence

Example: Coastal submergence has been blamed for the lack of fourth millennium BC Mesolithic sites in southern England.
Reference: Holgate 1988

Example: East Anglia has suffered particularly badly; eustatic sea rise and tectonic downwarping causing considerable loss of the prehistoric land surface, which has been further exacerbated by coastal erosion.
Reference: Murphy 1984

Example: In Essex the sea level appears to have risen by over 4m since the Neolithic period, causing the erosion and submergence of sites.
Reference: Hedges 1980

Example: In the Wash changes have been very great; a thousand years ago the coastline was 10-15km further east.
Reference: May 1976

Example: On the Hampshire coast there are no shell middens or evidence of marine exploitation, possibly because these sites have been submerged. Early artefacts can be found redeposited along the tideline, mixed with material of other periods.
Reference: Jacobi 1981

Erosion

Example: Erosion of soil from hill slopes can result in significant site loss. In southern England the worst erosion seems to have occurred on the chalklands along the south coast and on the claylands of the Weald.
Reference: Holgate 1988

Industry

Example: Industry in Weardale, especially quarrying and mining has caused unknown destruction of sites.
Reference: Young 1987

Parks and estates

Example: Where historical estates and parkland exists monuments are often preserved from the ravages of farming.
Reference: Young 1986
**Resilience of artefact material**

Example: The scarcity of Neolithic pottery from West Yorkshire is probably due to the poor preservation conditions of the soil.  
Reference: Keighley 1981

Example: The use of stone for Neolithic domestic structures on Orkney has allowed these to survive, whereas the more common timber structures are less rarely preserved and harder to detect.  
Reference: Hunt 1987

**Sand**

Example: Though mobile dune systems reveal the presence of sites conflation of deposits destroys stratigraphic relationships, as occurs on Culbin Sands, Moray, mixing material from various periods.  
Reference: Coles and Taylor 1973

**Site size**

Example: Deep ditches may survive as cropmarks even after extensive ploughing, whereas shallow ditches would be eradicated.  
Reference: Stevenson 1975

Example: Large cairns may survive in arable areas because it is easier to plough round them than remove them, but small cairns are easily cleared.  
Reference: Stevenson 1975

**Urbanisation**

Example: Much of the potential riverine settlement zones in north east England have been lost under cites.  
Reference: Spratt 1982
Factors influencing the discovery of Mesolithic and Neolithic sites

Agriculture

A. Grazing

Example: Closely sheep grazed hills, e.g. in the Borders, can reveal even slight structural remains, and even parchmarks in dry conditions.
Reference: Hunt 1987

B. Ploughing

Example: Ploughing brings to the surface artefacts in the soil, and allows the identification of sites that would otherwise go unrecognised.
Reference: Holgate 1988

Research

A. Collectors

1. Accessibility of area to collectors

Example: Though peat erosion provides as much potential for locating flint scatters as ploughed land, the latter is more accessible, being normally on lowlands and closer to roads. In Weardale lithic collection has largely been concentrated on the lowlands.
Reference: Young 1987

2. Closeness to collectors home

Example: In Upper Weardale the distribution of flint scatters is centred on Horsley Hall, the home of EJW Hildyard, one of the most important collectors in the valley.
Reference: Young 1987

Example: The modern concentration of population in the Midland valley of Scotland gives a greater possibility of sites being discovered, and probably accounts to some degree for the concentration of finds in this area.
Reference: Hunt 1987

3. Poor quality of some amateur research

Example: In Essex several excavations have been carried out on early sites, but many of these were done a considerable time ago, and are poorly recorded by modern standards.
Reference: Jacobi 1980

Example: The few Mesolithic find spots in the north Cotswolds also suffer from the poor and biased quality of the collections.
Reference: Saville 1984

Example: Though the Pennines have a large number of known sites, much of the work was done by amateurs last century, consequentially many collections were unsystematically collected and poorly recorded.
Reference: Keighley 1981, Leach 1951

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4. Influence of known sites on subsequent collection

Example: Once an area becomes known for being prolific on flints it tends to attract collectors, at the expense of other areas. In Yorkshire and Lancashire collecting activity has been concentrated on the Pennines, and the lowlands have not been systematically searched. Reference: Keighley 1981

B. The sparseness of any research in some areas

Example: In Northamptonshire there are numerous sites to the south of the River Nene, and a paucity of them to the north. This seems to be related to the greater activity of local archaeological groups along the river and to the south of it, as well as other factors favouring site discovery that are concentrated south of the river. Reference: RCHME 1979

Example: In Wales the distribution of Mesolithic sites had been entirely lowland until of the uplands of Glamorgan revealed numerous sites. Reference: Jacobi 1980

Example: The scarcity of Neolithic sites in the Kennet valley below Marlborough was shown to be due mainly to the low level of research in the area. Reference: Whittle 1990

Example: The sparseness of early sites in Lincolnshire was due to its neglect by archaeologists until relatively recently. Reference: May 1976

Industry

Example: In parts of Weardale fumes from lead smelting have killed vegetation leading to erosion, and the subsequent revealing of artefacts that would otherwise remain concealed. Reference: Young 1987

Masking

A. Alluvial deposits

Example: Alluvial deposits can bury sites and prevent their discovery under normal conditions. The following are river valleys in which alluvium has been claimed to hide Mesolithic and Neolithic sites: The Leven, Teeside, the Trent Basin, the Severn valley, the Kennet valley. References: Spratt 1982, Vine 1982, Saville 1984, Whittle 1990

Example: Prehistoric sites in the Welland valley are buried under alluvium varying from 30-120 cm in depth. Reference: French 1990

Example: The straths of the Scottish Highlands also suffer from a build up of alluvium, which can mask sites on the flood plain. Reference: Stevenson 1975
B. Blanket peat

Example: Domestic sites hidden beneath blanket peat will only be discovered where burning, erosion, peat cutting or pre-afforestation ploughing occur. On the central Pennines a great many Mesolithic sites have been preserved under peat and revealed by erosion. Where the peat is stable, such as the Lake District and much of Scotland surface finds are less likely.


Example: The absence of chambered cairns on areas of Orkney where there is now peat is almost certainly due to the masking of sites by the peat.

Reference: Fraser 1983

C. Colluvial deposits

Example: On chalk uplands colluvium may obscure valley sites, and possibly create a false concentration of sites on the valley sides, with none on the hilltops. Examples of areas where this seems to occur are: the Tabular Hills, North Yorkshire and the Lincolnshire uplands.


D. Other vegetation

Example: Areas of grassland and woodland are as unlikely to produce surface finds as moorlands; the scarcity of sites in the New Forest and the Sussex coastal plain can be explained by the lack of cultivation.

Reference: Gardiner 1984

E. Sand-dunes

Example: The machair deposits probably mask sites on the west coast of the Outer Hebrides.

Reference: Crawford and Switsur 1977, Chrisp 1990

Raised beaches

Example: There are well developed raised beaches of various dates along the Forth valley and west coast of Scotland.

Reference: Kemp 1976, Jardine and Morrison 1976

Sand

A. Dunes

Example: Numerous Mesolithic and Neolithic sites have been found in the dunes bordering the Fens in East Anglia, and in the wind-blown sand in north Lincolnshire.

Reference: Clarke 1960, May 1976

B. Sandy soils

Example: The loose sandy soils of the Brecklands is particularly favourable to artefact discovery. The open vegetation is subject to sand blows and disturbance by rabbits; increasing the chance of artefacts being revealed.

Reference: Healy 1984
Urbanisation

Example: The existence of a large scale nineteenth century building development, and gravel and phosphate quarries, combined with a flourishing archaeological society in Cambridge resulted in a concentration of finds of all periods known from the city.
Reference: Taylor 1972