

THE PREHISTORIC SOCIETY

*Is there a British Chalcolithic?*

*People, place and polity in the later 3rd millennium*

edited by

Michael J. Allen, Julie Gardiner and Alison Sheridan

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## Case and Place for the British Chalcolithic

*Stuart Needham*

*A part of the late 3rd millennium BC, two to three centuries in duration (c. 2450/2400–2200/2150 BC), can be defined as the Chalcolithic, or Copper Age, terms that have historically been eschewed in British prehistory. However, the definition and labelling of this period are arguably essential if we are to lay terminological confusion to rest, and the growth of a reliable radiocarbon dataset eases the task of chronological definition. This contribution sets out to characterise the British Chalcolithic by focusing on key aspects of the two cultural complexes that were involved – the insular Late Neolithic Grooved Ware culture and the continentally derived Beaker culture, the latter initially brought by incomers and progressively adopted by indigenes. Early Beaker grave assemblages with distinctive goods are separated into three Association Groups, largely of temporal significance. The broad trajectory of insular ceremonial monument construction throughout the 3rd millennium BC is set out and the span of the Chalcolithic located within it. It is argued that, despite their radically different outlook on the world, these coexistent cultures interrelated with one another from the outset and thereby set in train a highly dynamic situation as disparate interests were melded into common goals. It is this dynamism as much as any other feature which characterises the British Chalcolithic.*

## Appendix 1.1: Key Chalcolithic Grave Groups

The grave groups included here are necessarily selective – those most useful for identifying patterns in associations that might have a chronological, geographical or social basis. In general they contain two or more types judged (subjectively) to be ‘diagnostic’ (eg, Beaker plus belt-ring). This is *not* an attempt to list all burials datable by typology or radiocarbon to the Chalcolithic. Other burials more or less securely dated to this period can be found listed in Sheridan 2007, Needham 2005 and this volume.

All radiocarbon dates are on human bone or teeth from the specified burials, unless otherwise stated.

### Definitions of burial positions:

Flexed: legs slightly bent; contracted: knees bent at acute angle; tightly contracted: legs acutely bent and knees drawn up close to torso; crouched: degree of contraction unspecified (no plan available)

### Abbreviations:

diam – diameter; int d – internal diameter

**Association Group Ia** (defined on combinations of Low-Carinated Beakers, flat narrow bracers, tanged daggers/knives types A1, A2, A3, gold disc and basket ornaments, copper or bone pins, bone or antler spatulae or rods)

Site	Grave goods	Gender/age/orientation	Burial structure	<sup>14</sup> C date BP	Key references
Boscombe Down West, (context 1289; ‘Amesbury Archer’), Amesbury, Wiltshire SU 1631 4044	3 Beakers (2 LC, 1 low-bellied SP); parts of 2 more Beakers; tanged dagger, A1; 2 tanged knives, A2; 2 gold basket ornaments; 2 flat narrow bracers (both 2-hole); bone wing-headed pin; ‘cushion’ stone; shale belt-ring; 2 antler spatula; antler rod; 4 pig tusks; 17 barbed and tanged arrowheads & 2 blanks; 5 flint knives; 8 flint scrapers; 2 flint strikers; flake tool; 39 flakes & blades; pyrites nodule; perforated oyster shell <i>Grave fill/ staining:</i> Beaker sherd; 2 pyrites nodules; 47 flints (various); oval fossil	Male, 35–50 yrs, flexed, left side, head WNW	In timber chamber within oblong grave	3895±32 OxA-13541 [ <i>big tms:</i> 3877±33 OxA-13540 3866±28 OxA-13623]	Fitzpatrick 2011, 69 □ 164, table 13
Chilbolton (primary, context 16), Hampshire SU 397 396	LC Beaker; tanged knife, A2; 4 gold basket ornaments; gold tubular bead; 55 (min.) shale disc-beads; antler spatula; flint striker; marcasite nodule, 6 flint flakes	Male, 25–30 yrs, contracted, left side, head NNW	In timber chamber within sub-rectangular grave, at centre of ring-slot (int d 4.7 m); [secondary burial inserted while chamber still intact]	3935±32 OxA-V-2271-35 3740±80 OxA-1072 ( <i>c. earlier</i> than 3780±80, OxA-1073)	Russel 1990; Kinnes 1994, A17
Radley Barrow Hills (barrow 4A), Oxfordshire SU 5155 9826	LC Beaker; 2 gold basket ornaments; 3 barbed and tanged arrowheads (above skeleton)	Male, adult, crouched, left side, head NW	In sub-rectangular grave, off-centre within polygonal ring-ditch (int d 8.4 m)	3880±90 OxA-4356	Williams 1948, 1–9; Clarke 1970, no 33, fig. 63; Barclay & Halpin 1999, 153–6

Site	Grave goods	Gender/age/orientation	Burial structure	<sup>14</sup> C date BP	Key references
Kirkhaugh (barrow 1), Alston, Northumberland NY 705 493	<i>Not necessarily a closed group</i> ; ?LC Beaker (incomplete); gold basket ornament; cushion stone; rubbing/grinding stone; barbed and tanged arrowhead; flint striker; pyrites nodule; 2 flint cores; 6 flint implements and flakes; also two intrusive Medieval/Post-Medieval pot sherds	No surviving bones; traces of greasy greyish clay on underlying rock surface	In centre of probable ring cairn (int d. c. 3.35 m); subsequent covering of slabs; most finds in central zone of approx. 1 m diam; Beaker towards SW edge	Maryon 1936; Clarke 1970, no 651, fig. 3	
Boscombe Down West (context 1236; 'Archer's companion'), Amesbury, Wiltshire SU 1632 4044	2 gold basket ornaments; pig tusk Grave fill: 10 flakes (1 retouched); flint chip, burnt flint fragment; 4 pieces fired clay	Male, 25–30 yrs, flexed, left side, head NW	In grave, 5 m E. of 'Archer' 1289	3829±38 OxA-13562	Fitzpatrick 2011, 66–9
Jug's Grave (burial 5), Farleigh Wick, Wiltshire ST 797 632	<i>Double burial</i> : LC/MC Beaker (incomplete profile); gold disc; bone belt-ring fragment; 4 barbed and tanged arrowheads; flint flakes	Largely disarticulated remains of two individuals; other bones close by outside cist	In cist, slab walls with mitred corners; approx central under/within low cairn (ht 4 ft), oval (after damage)		Underwood 1945–7, 449–51; Underwood 1947–8; Clarke 1970, no 1111, fig. 259
Mere G6a, Wiltshire ST 8113 3453	LC Beaker (base lost); tanged dagger, A3; 2 gold discs; flat narrow bracer (2-hole); bone spatula	Male – 'large man', tightly contracted; plus 'younger person by his right side'	Rectangular grave, E–W, under low mound		Hoare 1812, 44; Annable & Simpson 1964, nos 93–6; Clarke 1970, no 1125, fig. 130; Gerloff 1975, no 6
Roundway G8, Wiltshire SU 0183 6441	LC Beaker; tanged dagger, A1; copper racquet-headed pin; flat narrow bracer (4-hole); barbed and tanged arrowhead <i>Recovered later from spoil</i> : flint flake, fossil bivalve shell – may belong to this interment or higher cluster of finds	Male, 70–80 yrs, 'flexed', left side, head N	In deep oval grave, around centre of low barrow (height 0.15m, diam c. 17m)	3794±30 OxA-V-2228-40	Cunnington 1857; Annable & Simpson 1964, nos 59–63; Gerloff 1975, no 1
Radley Barrow Hills (4660), Oxfordshire SU 51294 98038	LC Beaker; tanged knife, A3/4; bone wing-headed pin; antler spatula fragment; 2 barbed and tanged arrowheads; flint flake; flint blade; (pig incisor in grave fill?)	Male, 40–45 yrs, contracted, left side, head NNW	In oval grave	3650±50 BM-2704	Barclay & Halpin 1999, 60–5
Wellington Quarry, Herefordshire SO 508 479	LC Beaker; tanged dagger, ?form 1 (highly decayed in ground); small fragment of bracer (?2-hole); 4 barbed and tanged arrowheads; 3 arrowhead blanks; 5 flint knives & points	Only decayed remnants of bone & tooth enamel	In oval grave (NW-SE)		Harrison <i>et al.</i> 1999
Stanton Harcourt (inhumation 1), Oxfordshire SP 405 050	LC Beaker; bone/antler rod-spatula; flint flake	Male, 15–25 yrs, head NNW; bones disarticulated, arranged as if on left side – corpse perhaps dismembered	In sub-rectangular grave		Hamlin & Case 1963, 4–6, 21–3; Barclay <i>et al.</i> 1995, 95–6
Dornoch Nursery, Highland NH 7981 9082	<i>Double burial</i> : LC Beaker; flat very narrow bracer (2-hole); 5 barbed and tanged arrowheads; strike-a-light set	Remains of inhumation, 17–25 yrs, sex indeterminate, skull at SE (no side); plus cremated remains of young adult, at base, but also throughout fill (latter dated)	In cist set in pit – animal disturbance	3850±40 GrA-26515	Ashmore 1989; Sheridan 2007, 97 fig. 11.3, 109

Site	Grave goods	Gender/age/orientation	Burial structure	<sup>14</sup> C date BP	Key references
Stonehenge ditch burial, Wiltshire SU 1227 4223	Flat narrow bracer (2-hole), 3 barbed and tanged arrowheads	Male, 25–30 yrs, flexed, left side, head W; dislocation of some bones probably accounted for by evidence for animal burrowing	Grave cut into upper ditch fill near N terminal	3960±60 OxA-4886 3825±60 OxA-5045 3785±70 OxA-5044 3775±55 OxA-5046 3715±70 BM-1582 ( <i>Mean of 5: 3877±27</i> )	Evans <i>et al.</i> 1983; Allen & Bayliss 1995, 524–5, 532
Wilsford G1 (burial X), Wiltshire SU 1111 4162	LC (or low-bellied) Beaker (narrow variant); bone belt-ring; perforated pig tusk	Inhumation of infant, c. 3.5 yrs (no orientation or side?)	In N-S grave, to N of outer of 2 ring ditches		Field 1961; Clarke 1970, no 1157, fig. 138; Case 2003, fig. 9.5; M. Hamilton pers. comm.
Radley Barrow Hills (919), Oxfordshire SU 51278 98078	<i>Double burial</i> : i) MC Beaker; 3 copper rings; bone perforated disc ( <i>?low scapula</i> ); ii) LC Beaker	i) Child, 4–5 yrs, tightly contracted, left side, head NW; ii) Bones of neonate and cremated remains of child, 2–3 yrs, all within pot	Both deposits in sub-rectangular grave – no recut observed	i) 3930±80 OxA-1874 ii) 3990±80 OxA-1875	Barclay & Halpin 1999, 55–8
Penderyn, Pant-y-waen, Powys, (Brecknockshire) SN 987 146	LC(?) Beaker (base missing); stone centrally perforated disc	Presumed burial – no bones noted	Found during road-widenings, no structure noted		Grimes 1930–1; Clarke 1970, no 1838, fig. 242; Savory 1980, no 366
Brampton, pit 13, (Huntingdonshire), Cambridgeshire TL 204 713	LC(?) Beaker (sinuous or lightly carinated profile?); amber disc bead; flint flake	Presumed burial – acidic soil	In oval pit with large quantity of oak charcoal in lower fill; 2 m NE of centre of palisade enclosure (int.d. 13 m), latter cut by inner of 2 ring-ditches		White 1969, 10–11; Clarke 1970, no 363.1, fig. 61(b)
Thickhorn Down (secondary interment 2), Dorset ST 9717 1229	LC Beaker; copper awl	Female, 17–18 yrs, contracted, right side, head SE	In 'depression' in top of oval barrow; (overlapped by 2ndary interment.3)		Drew & Piggott 1936, 80, pl. xvii; Clarke 1970, no 184, fig. 65
Upper Largie, Kilmartin, Argyll & Bute NR 8330 9955	3 Beakers – LC and low-bellied SP; flint striker; flint knife	No traces of body surviving	In probable timber chamber, within sub-rectangular grave (SW–NE); off-centre in sub-square ring-ditch; ring of posts formed secondary re-definition of enclosure	<i>largie charcoals</i> 3915±40 SUERC-15119 [oak charc from post-pipes: 3900±35, 3880±35; SUERC-15120, 15121]	Sheridan 2008
Boscombe Down Lower Camp (contexts 25000 & 25002), Amesbury, Wiltshire SU 1627 4106	<i>Multiple burial deposit(s)</i> : 7 or 8 Beakers (or portions of); 3 or 4 LC, 2 or 3 SP (one with very low belly); antler perforated bow-toggle; pig tusk scoop; barbed and tanged arrowhead; 2 flint scrapers; flint knife; flint striker; 3 flakes & blades <i>Grave fill sumps</i> : 4 barbed and tanged arrowheads; 7 flint flakes; 49 flint fragments	Male, 35–45 yrs, contracted left side, head NW	In ?chambered grave along with the remains of 5 further unburnt individuals (also 2 later, EBA, burial deposits)	3845±27 OxA-13624 [ <i>Other remains</i> : 3955 ± 33 OxA-13542 3822 ± 33 OxA-13543 3825 ± 30 OxA-13681 3889 ± 32 OxA-13598 3681 ± 30 OxA-13599 3613 ± 28 OxA-13972]	Fitzpatrick 2011, 13 table 1, 17, 33–61
Linch Hill Corner no 1 (Grime's site 2, secondary burial), Stanton Harcourt, Oxfordshire SP 4162 0497	LC Beaker; bone magnifying-glass belt-ring; 7 barbed and tanged arrowheads	Male, young adult; contracted, left side, head NNW	In wooden chamber within oval grave, off-central within irregular ring-ditch (int d 6m)		Grimes 1960, 154–64; Clarke 1970, no 772, fig. 261; Barclay <i>et al.</i> 1995, 99

**Association Group 1b** (defined on combinations of Mid-Carinated (or intermediate LC/MC) Beakers, bone magnifying-glass belt-ring, bone tube-toggles, flat medium-broad to broad bracers)

Site	Grave goods	Gender/age/ orientation	Burial structure	<sup>14</sup> C date BP	Key references
West Stafford (grave 1'), Dorset SY 72 90	LC Beaker; flat medium-broad bracer	No surviving bones			Inf. AC Archaeology & Ann Woodward
Sewell (primary of two intercutting), Houghton Regis, Bedfordshire SP 993 227	LC/MC Beaker (re-restored 2006); flat broad bracer (4-hole); copper double-spiral headed pin; bone perforated tube-toggle	Male, 20–30 yrs, tightly contracted, left side, head NE	In ?oval grave (part lost)	3830±30 SUERC-26194 (GU-19940)	Matthews 1976, 19–24, pl.iii; Kinnes 1985, A9
Aston-on-Trent (barrow 1, primary deposit), Derbyshire SK 422 291	<i>On or slightly below OG5</i> : incomplete carinated Beaker (LC or MC); <i>A few inches below</i> : flat very broad bracer (4-hole); barbed and tanged arrowhead	No trace of body	No cut observed; at approx centre of primary turf mound within ring-ditch (diam c.31m)		Vine 1982, 157, figs 167, 315; Reaney 1968
St Peter's Rabbish Tip, Thanet, Kent c. TR 378 692	MC Beaker; flat ?narrow bracer (≥ half fragment)	Crouched; (no details)	In grave later cut by a ring ditch		Minter & Hogarth 1972; Moody 2008, 84–6 fig. 40
Thomas Hardy School (context 1643), Dorset SY 680 898	MC Beaker; tanged dagger, ?A1; flat medium-broad bracer (4-hole); 3 barbed and tanged arrowheads, bone perforated tube-toggle	Male, (sub-adult/adult), left side, head N/NW	In ?oval grave	3856±30 NZA-23745	Smith 2000; Gardiner <i>et al.</i> 2007
Bicester, Oxfordshire SP 45730 22210	MC Beaker (marginal to Mid-Bellied); bone perforated tube-toggle; bone point fragment; flint implement (?knife)	Male, 40–55 yrs, tightly contracted, left side, head NNE	In sub-oval grave	3800±35 SUERC-30814 (GU-22119)	Inf. Alistair Barclay, Wessex Archaeology
Beggars' Haven, Poynings, Sussex TQ 261 105	MC Beaker; 9 copper tubular bead fragments with 3 wooden core fragments; 14 shale disc beads	Unknown?	Unknown? (recovered 1887)		Clarke 1970, no 991, fig. 167; Kinnes 1985, A10
Brandon Fields, Suffolk TL 78 87	<i>Uncertain association</i> : MC Beaker; Globular SP Beaker; flat medium-broad bracer (6-hole)	Presumed burial or burials – no bones noted	'found together' during gravel extraction		Franks 1870–3, 271; Clarke 1970, nos 852–3, figs 429–30
Purwell Farm, Cassington, Oxfordshire SP 443 119	Flat medium-broad bracer (2-hole); jet or shale square double-perforated plaque	No bones recovered	Excavated from edge of shallow pit, partly quarried away – presumed grave		Case & Sturdy 1959, 98; J. Mallory pers. comm.
Trott's Hall (near), Sittingbourne, Kent TQ 909 634	Tanged dagger, B2; flat medium-broad bracer (2-hole); bone magnifying-glass belt-ring	Adult, contracted, left side, head S	?grave disturbed by quarrying		Payne 1885; Getloff 1975, no 13; Kinnes 1985, A13
Melton Quarry, Welton, Yorkshire SE 971 271	Beaker sherds (undecorated); flat medium-broad bracer (6-hole); magnifying-glass bone belt-ring	Skeleton (no details)	Found 1960 during quarrying; at base of 3 ft deep grave; no ditch or mound seen		Bartlett 1963, 18 fig. 2, 19–20; Clarke 1970, no 1344, fig. 136
Wilsford G1 (N of), Wiltshire SU 1111 4163	Tall mid-bellied SP Beaker (?vestigial short neck); magnifying-glass bone belt-ring	Male, 23–27 yrs, tightly contracted, left side, head N	In oval grave	3878±20 NZA-29534	Leivers & Moore 2008, 25–30 fig. 15

**Association Group 1c** (defined on combinations of Short-Necked Beakers, Tall Mid-Carinated Beakers, Flat Medium-Broad Beakers, Curved Bracers, Bone Ribbed Belt-Rings)

Site	Grave goods	Gender/age/ orientation	Burial structure	<sup>14</sup> C date BP	Key references
Barnack (burial 28), Cambridgeshire TF 050 069	TMC Beaker; tanged dagger, A3 (with $\Omega$ hilt line); flat very broad bracer (18-hole) with gold stud caps; bone/ivory looped toggle	Male, 35-45 yrs, flexed, left side, head NNE	In oblong grave, hints of timber chamber within; off-centre within innermost ring-ditch (int d 9.7m)	3770 $\pm$ 35 BM-2956 [charred plank in grave: 3660 $\pm$ 60 BM-1412 charcoal: 3570 $\pm$ 80 HAR-645]	Donaldson 1977; Kinnes 1985, A7; (NB, BM-1412 was misattributed to the site of Barnack Road, Pilsgate, in BM datelist XIV)
Winterslow Hut (probably barrow 3), Winterslow, Wiltshire SU 2295 3530	TMC Beaker; tanged dagger, A4; flat broad bracer (6-hole); 2 barbed and tanged arrowheads	Skeleron (no sex given), probably crouched, head N	In grave under barrow (?later)		Stevens & Stone 1937-9; Clarke 1970, no 1204, fig. 134; Gerloff 1975, no 4
Dorchester-on-Thames XII, Oxfordshire SU 5724 9545	TMC Beaker; tanged knife-dagger, A6; bronze tanged knife, C4; curved broad bracer (4-hole)	Probable male, 20-30 yrs, contracted, left side, head NE	On a tier in oval grave, at centre of ring ditch (int d c. 9.8m), partly removed by later one		Whittle <i>et al.</i> 1992, 175-84; Clarke 1970, no 735, fig. 128; Gerloff 1975, nos 10 & 239
Pyecombe, West Sussex TQ 2834 1185	TMC Beaker; tanged dagger/knife (decayed in ground); flat broad bracer (4-hole); bone tanged pommel	Male, mid-late 30s, left side, head NW	In oval grave; centre of penannular ditch holding stakes (int d 10 x 11.5m), entrance WNW		Butler 1991
Stanton Harcourt, (inhumation 3), Oxfordshire SP 4057 0492	TMC Beaker; flat broad bracer (6-hole)	Male, mature adult (disturbed by machine)	At centre of ring-ditch 5 (int d 11m)		Hamlin & Case 1963, 6, 22 fig. 8 (Oxon 56), 25-6; Barclay <i>et al.</i> 1995, 95
Tolley's gravel pit, Cassington, Oxfordshire SP 45 10	TMC Beaker; jet/shale belt-ring	Presumed burial, but no record of bones	Found in gravel quarrying		Leeds 1934, 268, 269, pls XXXI, 1, XXXIV, 2c; Clarke 1970, no 717, fig. 240
Callachally Farm, (Glen Forsa), Salen, Mull NM 59 42	SN Beaker; necked Beaker (rim lost); tanged knife, B(4); flat medium-broad bracer (2-hole)	Presumed burial group – knife specified as “with the umis”	Not noted		Alexander 1870-2; Clarke 1970, no 362 figs 676-7; Gerloff 1975, no 14
Net Down, Shrewton Sk, Wiltshire SU 0894 4486	SN Beaker; tanged knife, B(2/4); bone tanged pommel; ?cloth fragment; inscribed panel of criss-crossing lines on E grave wall	Male, adult, contracted, left side, head NNW (NNE in text ?incorrect)	Between 2 rows of chalk blocks in base of deep oblong grave, off-centre in ?contemporary ring ditch (int d 16m)	3900 $\pm$ 40 BM-3017 3871 $\pm$ 50 OxA-V-2232-37	Clarke 1970, no 1140, fig. 549; Green & Rollo-Smith 1984, 275-9, 294-5, 306-7; Gerloff 1975, no 12
Hemp Knoll, Bishops Cannings G81, Wiltshire SU 0685 6733	SN Beaker; curved broad bracer (4-hole); bone ribbed belt-ring <i>In grave pit: Bos skull and forelimbs; detached antler</i>	Male, 35-45 yrs, tightly contracted, left side, head NW	Tightly contracted in wooden chamber in large rectangular grave; off-centre within possibly later ring ditch (int d 16m)	3834 $\pm$ 29 OxA-V-2271-34 [charcoal: 3750 $\pm$ 140 NPL-139 3540 $\pm$ 70 HAR-2998]	Robertson-Mackay 1980; Kinnes <i>et al.</i> 1991, 56
Borrowstone (cist 6), Kingswells, Aberdeenshire NJ 852 081	SN Beaker; curved narrow bracer; bone ribbed belt-rings; sinew and wood fragments from ?bow; 5 flints; quartz pebble; red pebble; black/green pebble	Male, 25-35 yrs, left side, head E	In cist (E-W) with massive capstone	3828 $\pm$ 29 (combined); 3835 $\pm$ 40 GrA-29083 3820 $\pm$ 40 GrA-29082	Shepherd 1986, 15 ill 13a; Sheridan 2007, 110
Uppermill (cist 1), (Artiffery), Cruden, Aberdeenshire NK 0542 3702	<i>Double burial:</i> 2 SN Beakers; curved narrow bracer (4-hole); 7 barbed and tanged arrowheads; 2 flint flakes; pig bones (humerus, radius)	Male, 20-25 yrs, possibly on left side (based on skull condition); plus child, c. 8-10 yrs	In cist (no orientation given), found 1818-21 during sand extraction near top of a ‘sandy hill’	Dating attempt failed	Anderson 1886, 17; Clarke 1970, nos 1423-4, figs 551-2; Kenworthy 1976-7; Neil Wilkin pers. comm.

Site	Grave goods	Gender/age/ orientation	Burial structure	<sup>14</sup> C date BP	Key references
Newlands Farm, Oyne (cist 2), Aberdeenshire NJ 6949 2533	SN Beaker; curved medium-broad bracer (4-hole); flat narrow bracer (2-hole); barbed and tanged arrowhead; 2 flint knives; 2 flint flakes; 3 roughly chipped flints	Rather decayed skeleton – male, 35–40 yrs, 'flexed', left side, head NE.	In cist (NE–SW) (exposed in gravel quarrying)	3757±29 OxA-V-2243-46	Low 1935–6; Clarke 1970, no 1478, fig. 721; Shepherd 1986, ill. 13 (axe-shaped stone does not belong); Bruce 1986, 36; Neil Wilkin pers. comm.
Fyrish Farm, Alness, Ross & Cromarty NH 6182 6899	SN Beaker (squat variant); curved narrow bracer (4-hole)	Male, adult (no further details)	In cist (exposed by farmer before 1865)	3816±29 OxA-13213	Robertson 1864–6, 233; Clarke 1970, no 1749, fig. 719; Sheridan 2007, 100 fig. 11.5, 110
Culduthel Mains, Inverness and Bona, Highland NH 6662 4224	IN Beaker; curved medium-broad bracer (4-hole with copper studs & gold caps); barbed and tanged arrowheads; amber bead; bone ribbed belt-ring; flint striker?	Male, adult (no further details)	In cist	3735±35 SUERC-26462 (GU-20165)	Clarke <i>et al.</i> 1985, fig. 4.16, 267 no 74; Harrison 1980, 92–3 ill. 65; Curtis & Wilkin, this volume
Broomend of Crichie (cist 1), Kintore, Aberdeenshire NJ 7789 1923	<i>Double burial</i> : 2 SN Beakers; bone ribbed belt-ring; 2 or 3 flint flakes/impliments; charcoal fragments; willow and oak pieces; 'curious matty substance' over bodies	2 adult males (no age estimates), both in 'flexed' position, (no side), heads at either end of cist	In cist (no orientation) with clay-luted joints and waterworn-pebble floor; (exposed during road widening 1866)	Individual A: 3720±35 OxA-13214 Individual B: 3835±33 OxA-V-2166-34	Chalmers 1866–8; Clarke 1970, nos 1433–4, figs 659–60; Sheridan 2007, fig. 11.3, 110, 113; Neil Wilkin pers. comm. <i>Comment</i> : 2 dates fail $\chi^2$ -test, implying fair time interval between deaths
Clinterty, Newhills, Kindlar, City of Aberdeen NJ 8341 1171	SN Beaker; bone ribbed belt-ring; bone awl; mica-schist axe-shaped stone; piece topaz; 2 barbed and tanged arrowheads; 2 flint impliments; 4 flint flakes (some doubt as to whether all finds belong to the grave)	Male, >40 yrs; (no orientation or posture)	In cist (found in sand pit 1897); (no orientation)	3813±30 OxA-V-2243-41	Abercromby 1902, 383; Bruce 1986, 36; Clarke 1970, no 1443, fig. 661; Murray & Shepherd 2007, 44; Neil Wilkin pers. comm.
Tavelly Farm, Kintore, Aberdeenshire NJ 7867 1721	SN Beaker; copper blade (small fragment only); 2 barbed and tanged arrowheads, flint pebble core; 5 flint flakes or other debitage	Probable male, 15–25 yrs, remains poorly preserved and partly disturbed, head ?E	In E–W slab cist with traces of luting and a pebble-floor, set in oval pit	3710±70 GU-2169	Ralston 1996, 141–51
Park Quarry, (cist 1), Durrus, Aberdeenshire NO 8029 9776	SN Beaker; stone centrally perforated disc with 5-spoked geometric design; 7 flints	Male, 26–35 yrs, ?left side, head E (?SE)	In oval/hexagonal cist (NW–SE); (found during quarrying 1988)	3769±32 OxA-V-2172-14	Shepherd & Greig 1989; Sheridan 2007, 111 (not ill); Neil Wilkin pers. comm.
Cookston, Airdie, Angus NO 336-492	IN Beaker; bone double-perforated disc/button with cruciform design	Inhumation (no further details)	In cist	3800±50 BM-2523	Coutts 1971, no 82; Sheridan 2007, 111
West Lilburn, Northumberland NU 029 237	SN Beaker portion; tanged knife, (A)4; jet button; flint blade; chalk lump	Female(?), 'late middle life'; possibly disturbed inhumation, head at W end of cist	In cist		Collingwood 1946; Clarke 1970, 347 fig. 550; Gerloff 1975, no 240
Kalleythorpe (Mortimer barrow 138), Driffield, East Yorkshire TA 017 567	Mid-bellied SP Beaker (borderline necked Beaker); tanged knife, C4; curved narrow bracer (4-hole) with gold-capped copper/alloy studs; 3 amber buttons; 'small bronze buckle'; hawk's skull; cloth remains	Male, adult, contracted, left side, head E.	In cist with paved floor, centre of barrow		Mortimer 1905, 271–83; Clarke 1970, no 1265, fig. 553; Gerloff 1975, no 237; Kinnes 1985, A11
Kinneliff & Catterline, Aberdeenshire (formerly Kincardineshire) NO 84 78	SN Beaker <i>Possibly associated</i> : schist centrally perforated disc with roughly radial grooves (lost)	None recorded	Found 1875; no context recorded		Reid 1924, 47 no 28; Clarke 1970, no 1688, fig. 458; Shepherd 1986, 31; RC- <i>AIMS</i> record NO87NW17

## Ungrouped Chalcolithic

Site	Grave goods	Gender/age/orientation	Burial structure	<sup>14</sup> C date BP	Key references
Easton Lane (pit 1017 context 2/152), Hampshire SU 49/620 30420	4 antler rods; bone awl (deer or sheep metatarsus); 6 barbed and tanged arrowheads (Green Low type); flint knife; 6 flint flakes <i>Grave fill:</i> flint striker; 2 flint cores; 47 flint debitage pieces	Male, 35–45 yrs, partial skeleton in some disarray – ?originally crouched, left side, head SE	In grave cut into two-thirds back-filled deep pit (1017) – drawn section suggests a large post-pit (a second similar lay 37m to S), perhaps part of a post-rig?	3791±30 OxA-V-2271-36	Fasham <i>et al.</i> 1989, 21–2 fig. 16, 100–105 <i>Comment: antler rods might suggest links best with Association Group 1a. Head orientation is anomalous for a male</i>
Yarnton, Oxfordshire SP 47 12	Copper necking – rod with broad spatulate terminals	Necking lay near the head of a contracted skeleton; (no orientation, posture) No surviving bones	Unrecorded		Evans 1881, 379 fig. 470, 380; Clarke <i>et al.</i> 1985, 270–1 pl 7.24
West Stafford, (grave 2), Dorset SY 72 90	Copper/alloy necking – rod with spatulate terminals (highly corroded); Beaker (still unprocessed) – comb-stamped, probably of carinated group Copper awl (alongside femur)				Inf. AC Archaeology & Ann Woodward
Spring Road (context 3037), Abingdon, Oxfordshire SU 4875 9755	Low-bellied SP Beaker; copper awl	Female, 20–24 yrs, flexed, right side, head SSE Female, c. 25 yrs, flexed, right side, head SSE	In sub-rectangular grave (N-S), at centre of segmented ring-ditch (5 causeways, int d 5.4m); under low cairn of flint nodules	3861±29 OxA-12100 3841±45 NZA-15866 3834±45 NZA-15865; <i>Mean: 3850±21</i>	Allen & Kamash 2008, 9, 12 fig. 6, 54, 62 Stone & Hill 1940; Clarke 1970, no 349, fig. 517
Kings Hill North (grave 8588 burial 8675), Cirencester, Gloucestershire SP 03 01	Low-bellied SP Beaker; bone smoother <i>Upper fill:</i> head and hooves of cattle	Female, 20–40 yrs, flexed, right side, head SW	In rectangular grave at centre of slightly oval ring-ditch (d.12.6 x 11.8m)	3830±29 OxA-20184	Inf. Dave Mullin, Oxford Archaeology <i>Comment: style of Beaker very similar to some LC Beakers, but this with distinct S-profile</i>
Thomas Hardy School (context 1605), Dorset SY 680 898	Low-bellied SP Beaker; copper/alloy knife (butt-riveted or squat-tanged, B4*); flint scraper, flint core and 64 pieces debitage <i>Upper grave fill:</i> > 1000 struck flints	Male, >45 yrs, crouched, left side, much removed by re-cut, head N–NW	In ?oval grave, near centre of penannular ring-ditch (int d 12.5m), open to NW; also outer ring-ditch	3789±30 NZA-23746	Gardiner <i>et al.</i> 2007, 35–7
Ruthven, Cairnie, Aberdeenshire NJ 50 47	Mid-bellied SP Beaker; slate centrally perforated disc with roughly radial grooves	Fragments of bone and teeth (not surviving)	In NE–SW aligned cist discovered while drain-digging, 1949		Clarke 1970, no 1491, fig. 277; Shepherd 1986, 29; Canmore ID 17839; Neil Wilkin pers. comm.

Period 2 graves including object(s) more typical of the Chalcolithic

Site	Grave goods	Gender/age/orientation	Burial structure	<sup>14</sup> C date BP	Key references
Raunds barrow 1, Northamptonshire SP 9765 7255	LN Beaker; flint dagger; fragment of curved broad-ish bracer (6-hole originally); stone sponge-finger; chalk 'rod'; 3 bone rib spatulae; pig tusk; 5 jet buttons; amber belt-ring; flint arrowhead, knives, scrapers & flakes	Male, adult, tightly contracted (partly disturbed?), left side, head SSW	In plank chamber set in rectangular grave, near centre of ring ditch (int d 15 m); covering of limestone slabs, cattle skulls and soil	3681±47, UB-3148 [chamber <i>supposed</i> ]; 3775±45, OxA-7902]	Healy & Harding 2004
Gravelly Guy (context 4013/12), Oxfordshire SP 403 053	LN Beaker; bronze dagger (Series 2) with 6 copper rivets; antler tanged pommel; flat medium-broad bracer (4-hole); stone sponge-finger; antler rod; flint scraper & flakes	Male, >45 yrs, tightly contracted, left side, head NE	In wooden chamber in grave, centre of ?annular palisade slot (int d c. 6.5 m); 2 ditches outside	3709±35 UB-3122 (also earlier than 3677±53 & 3666±35)	Lambrick & Allen 2004, 51–61, 78 fig. 2.18, 82–93
Ferry Fryston (context 2245), West Yorkshire SE 4707 2558	LN Beaker (incomplete); low-in bronze tanged dagger, C5, with rivet-studded hilt; curved narrow bracer (4-hole); amber belt-ring	Male, 40–50 yrs, tightly contracted, left side, head E	In wooden chamber in rectangular grave	3732±27 KIA-25326	Brown <i>et al</i> 2007, 29–32, 218–22, 279–89, 298–304, 307–8
Standlow, Kniveton, Derbyshire SK 213 509	Tanged dagger, C5; ?ivory tanged pommel; battle-axe, Woodhenge type; amber belt-ring; "urn"	No burial recorded	Excavated from a low round cairn		Marsden 1977, 67; Kinnes 1985, A14
The Grove, Tring, Hertfordshire SP 92 11	'earthen vessel' (broken, not illustrated); curved narrow bracer (4-hole); ?blank for curved narrow bracer; jet/shale pulley-ring; 3 (or more) barbed and tanged arrowheads	Human skeleton '... laid at its length with the legs and arms extended' – unique if really an extended inhumation; more likely made to conform to contemporary expectations?	Found by labourers digging ditch 7 feet down; a 'brown urn filled with ashes on right side of skeleton' suggests a secondary inurned cremation		Anon 1787, 429; Amable & Simpson 1964, no 126
Cliffe, Cliffe and Cliffe Woods, Kent TQ 734 744	Globular SP Beaker; medium-broad bracer (2-hole); barbed and tanged arrowhead	No skeletal remains found	No evidence for grave cut, ditch or mound found. Bracer and arrowhead were beneath upright Beaker		Kinnes & Cook 1998, 59, 61 fig. 34 <i>Comment:</i> Beaker form currently dated to EBA rather than Chalcolithic

## Appendix 1.2: Selected radiocarbon dated ceremonial sites mentioned in the text

The phasing of sites offered here is an interpretation of the full calibrated distributions of radiocarbon dates and artefactual evidence. Calibration is based on Oxcal 4.1, discrete ranges being coalesced into one and end points rounded to half-decades.

Key: – context or sample same as preceding

Site	Type	Context	Sample	<sup>14</sup> C date BP & Lab. Ref.	Calibrated BC (95% confidence)	Reference	Comments
<b>Middle Neolithic, later part</b>							
Flaxstones, Dorset	Formative henge	Base of ditch	Child burial	4490±70 (HAR-9158)	3370–2930	Healy 1997, 38 table 1	One of 3 primary dates looks anomalously late; otherwise a coherent 2-phase group
		–	Antler	4450±90 (OxA-2322)	3360–2910		
		–	Human right femur	4030±100 (HAR-8579)	2880–2300		
		Child burial inserted into lower ditch silts		4210±110 (OxA-2321)	3090–2485		
Stonehenge, Wiltshire	Formative henge (with internal bank) (phase 1)	Ditch primary fill	Antlers	From 4432±22 (UB-3794) to 4365±18 (UB-3792)	3320–2930 to 3025–2910	Allen & Bayliss 1995	9 dates on antlers in good agreement – see reference for full details
		Henge or formative henge	Charcoal: hazel Charcoal: alder/birch/hazel	4425±50 (GU-1670) 4385±55 (GU-1904)	3335–2915 3330–2895		
Balfarg Riding School, Fife	Henge	Ditch middle fill	Charcoal: hazel Charcoal: alder/birch/hazel	4425±50 (GU-1670) 4385±55 (GU-1904)	3335–2915 3330–2895	G. Barclay & Russell-White 1993, 160–2	Wood species unlikely very long-lived; 2 consistent dates probably T/AQ for enclosure construction. Assemblage of Beaker material in higher ditch fills
Llandegai A, Gwynedd	Class 1 henge (with internal bank)	Ditch middle fill (L.4)	Mature oak charcoal	4420±140 (NPL-221)	3520–2680	Lynch & Musson 2004, 118–9	Although individually most dates are based on charcoal of unknown growth stage, the consistency between different structural elements suggests they reflect true age of use fairly well
		Internal pits	Cremated bone	4480 ±50 (GrN-22954)	3360–3010		
		–	Mature oak charcoal	4450±40 (GrN-27192)	3340–2930		
		External cove ('cremation circle')	Charcoal, mainly oak	4480±145 (NPL-224)	3635–2875		
		–	–	4420±40 (GrN-26818) 4320±30 (GrN-26817)	3330–2915 3015–2890		
Stones of Stenness, Orkney	Class 1 henge	Ditch, base of	Cattle and other animal bones	From 4425±50 (OxA-9763) to 4240±45 (OxA-9762)	3335–2915 to 2925–2670	Ritchie 1975–6; Historic Scotland web site	5 dates in good agreement – see references for full details
<b>Middle or Late Neolithic</b>							
Coneybury, Wiltshire	Class 1 henge	Central structure post-hole	Animal bone	4370±90 (OxA-1409)	3355–2780	Richards 1990	Poor precision, but dates consistent with use in MN/LN. Beaker pottery appears in middle fills (very little cultural material in lower fills)
		Ditch primary fill	–	4200±110 (OxA-1408)	3090–2475		
Meldon Bridge, Peebleshire	Large timber enclosure	Base of post-hole B3	Burnt wood	4280±80 (HAR-796)	3265–2620	Speak & Burgess 1999	Poor sample contexts and dating precision, but two earlier dates most likely closest to construction
		Packing of post-hole D2	Charcoal	4100±130 (HAR-797)	3010–2285		
		Weathering cone of post hole B1	(?sample)	3740±70 (SRR-648)	2435–1945		
<b>Late Neolithic</b>							
Briar Hill, Northamptonshire	Formative henge	Inner circuit primary silts	Small-counter samples (x2) Charcoal: various species	4130±150 (HAR-5216) 3900±90 (HAR-5125) 4010±90 (HAR-2607)	3260–2210 2830–2055 2875–2290	Bamford 1985, 127	Far from ideal samples and poor precision; latest date may actually be from late pit cutting earlier silts
		–	Internal cove	–	–		

Site	Type	Context	Sample	<sup>14</sup> C date BP & Lab. Ref.	Calibrated BC (95% confidence)	Reference	Comments
North Mains, Perthshire	Timber circle 'A'	Post-pipe fills (A7) (A13) (A1) Post-hole packing (A7 & A5)	Charred oak plank	4280±60 (GU-1352)	3090–2675	G. Barclay 1983, 133	Largely coherent series, albeit on charcoal with potential age factor
			Charcoal	4130±60 (GU-1436)	2885–2500		
			–	4015±65 (GU-1435)	2860–2340		
			Oak charcoal	4115±60 (GU-1353)	2880–2495		
			–	4040±70 (GU-1354)	2875–2350		
Dorchester-on-Thames (site 3), Oxfordshire	Timber circle	Outer rings of <i>in situ</i> posts: (F2014) – (2013) – (F2009) Post-pipe fill (F2009) – (F2014) – (F2013)	Charcoal	4120±120 (BM-2164R)	3010–2340	Whittle <i>et al</i> 1992, 169–75	Despite large error terms due to subsequent correction of results, these form a coherent set with just one sample apparently filtering into post pipe later (in EBA). First three samples should relate best to construction
			–	4100±120 (BM-2162R)	2920–2300		
			–	4060±110 (BM-2161R)	2895–2305		
			–	4070±130 (BM-2163R)	2920–2210		
			–	4030±130 (BM-2166R)	2895–2205		
			–	3550±130 (BM-2165R)	2280–1535		
			–	–	–		
Balfarg, Fife	Timber circle 'A'	Post-hole fills (A11) (A11) (A7) (A11)	Oak charcoal	4315±60 (GU-1163)	3265–2705	Mercer 1981	Allowing for potential old-wood effect, the later two determinations most likely to indicate better the date of erection
			–	4270±60 (GU-1162)	3085–2670		
			Alder charcoal	4180±50 (GU-1160)	2895–2620		
			–	4035±50 (GU-1161)	2855–2465		
Wyke Down, Dorset	Class 1 shaft-circle henge	Pit I primary fill Recut into pit K	Antler	4040±90 (BM-2395)	2880–2345	Barrett <i>et al</i> 1991, 92–106	Broad potential span for initial construction and subsequent recuts
			Alder, hazel, buckthorn charcoal	4150±50 (BM-2397)	2880–2580		
Avebury, Wiltshire	Great henge enclosure	Recut into pit I Within outer talus of bank (NW sector) Base of ditch – – – Ditch primary fill	Mature oak charcoal	4140±80 (BM-2396)	2900–2490	Pits & Whittle 1992; Pollard & Cleal 2004	Further dates for OGS under bank give <i>TPQs</i> , latest being 4190±90 (HAR-10500; Pits & Whittle 1992)
			Antler	4160±90 (HAR-10326)	2915–2485		
			–	4300±90 (HAR-10502)	3330–2630		
			–	4043±34 (OxA-12556)	2835–2470		
			–	4036±34 (OxA-12555)	2835–2470		
			–	4038±34 (OxA-12557)	2835–2470		
			–	4140±90 (HAR-6689)	2905–2485		
Greyhound Yard, Dorchester, Dorset	Large timber enclosure	Post-pipe fill – – – – – Fill of post ramp	Charcoal	4090±70 (HAR-6687)	2875–2485	P. Woodward <i>et al</i> 1993	Contexts give potential for residuality or intrusion, but very consistent group of results
			–	4080±70 (HAR-6688)	2875–2475		
			–	4060±90 (HAR-5508)	2885–2350		
			–	4020±80 (HAR-6686)	2870–2305		
			–	4070±70 (HAR-6664)	2875–2470		
			–	4020±80 (HAR-6663)	2870–2305		
			–	–	–		
			–	–	–		
			–	–	–		
			–	–	–		
Hindwell II, Powys	Large timber enclosure	Outer rings of in-situ posts: (B3) (A4) (B2) (A1)	Charcoal	4130±80 (Swan-231)	2895–2490	Gibson 1999, 14–19	Excellent contexts for construction event; latest dates could just allow Chalcolithic
			–	4070±70 (Swan-117)	2875–2470		
			–	4040±80 (Swan-230)	2875–2345		
			–	3960±70 (Swan-116)	2835–2205		
			–	4077±52 (BM-795)	2865–2475		
Conquer Barrow, Mount Pleasant, Dorset	Round mound	Cutting XLVI into south segment of enclosing ditch; pick from primary rubble	Antler pick	–	–	Wainwright 1979, 67, 186	Antler argued in report to be residual, but no stratigraphic evidence compels this.
			–	–	–		
Mount Pleasant, Dorset	Great henge enclosure (N entrance)	Primary silt (layers 11 & 12) Soil sealing primary silts	Charcoal	4060±70 (BM-792)	2875–2465	Wainwright 1979	Also <i>TPQ</i> from charcoal in OGS under bank (4070±75; BM-644)
			–	4050±55 (BM-793)	2865–2465		
			–	3890±65 (BM-791)	2570–2150		

Site	Type	Context	Sample	<sup>14</sup> C date BP & Lab. Ref.	Calibrated BC (95% confidence)	Reference	Comments
Stonehenge, Wiltshire	Sarsen circle and horseshoe (phase 3ii)	Stone-hole 1 Stone-holes 53/54	Antler –	4023±21 (UB-3821) 3985±45 (OxA-4840)	2580–2475 2625–2345	Allen & Bayliss 1995	Two dates for supposed ramp for stone 56 are now discounted (Parker Pearson <i>et al</i> 2007)
<b>Late Neolithic or Chalcolithic</b>							
Silbury I, Wiltshire	Mound (phase I inner mound, buried under great mound)	Turves in core of mound OGS under mound –	Twigs, bark, stems & roots Pig bone (2 replicate measurements)	4095±95 (I-4136) 4015±45 (GrA-27332) 3916±28 (OxA-13333)	2905–2410 2840–2410 2475–2300		An unexplained LBA date (OxA-13211) discounted – presumed due to mixing of samples? NB. A new suite of dates forthcoming from the recent English Heritage work
Devil's Quoits, Oxfordshire	Class 2 henge	<i>S terminal of E entrance:</i> primary ditch silts  <i>S terminal of W entrance:</i> lower secondary fill (L..H) – upper secondary fill (L..G) – lowest tertiary fill (L..Fa)	3 bones (different contexts including hearth F156) Vertebra (unidentified) Cattle bone Antler	4010±120 (HAR-1887) 3845±65 (OxA-3688) 3995±60 (OxA-3687) 3745±60 (OxA-3686)	2885–2205 2475–2060 2850–2300 2345–1960	A. Barclay <i>et al</i> 1995	A further date from ditch silts is wholly inconsistent (3590±70, HAR-1888) but is based on bones combined from three entirely different locations in the enclosure. Tertiary ditch silts (latest date) likely Chalcolithic/EBA
Devil's Quoits, Oxfordshire	Stone circle within henge	Basal fill of stone-hole F227 Stone-hole F17	Oak charcoal Antler pick	4165±70 (OxA-3690) 3955±65 (OxA-3689)	2905–2570 2830–2210	A. Barclay <i>et al</i> 1995	Possible old wood involved in earlier date; antler pick more likely closer to construction
Maumbury Rings, Dorset	Shaft-circle henge (pre-class 1 henge)	Bottom of shaft 1 Uppermost fill of shaft 3	Antler –	3970±50 (BM-2282N) 3940±130 (BM-2281R)	2620–2300 2875–2050	Bradley 1976; Bowman <i>et al</i> 1990, 65, 71	
West Kennet 2, Wiltshire	Large timber enclosure	Palisade trench fill – Fill of outer radial trench 1	Cattle bone – –	4050±70 (CAR-1295) 3620±70 (CAR-1294) 3930±70 (CAR-1292) 3830±70 (CAR-1298)	2875–2460 2200–1770 2620–2200 2475–2045	Whittle 1997	Later of two dates for main enclosure seems anomalous/intrusive. Possible that radial trench was later addition
Durrington Walls, Wiltshire	Great henge enclosure	Base of ditch near SE entrance (layer 7)	Antler Bone Charcoal	4000±90 (BM-400) 3965±90 (BM-399) 3925±90 (BM-398)	2870–2235 2860–2200 2835–2140	Wainwright & Longworth 1971	Consistent dates on different materials. NB. More relevant dates expected from the Stonehenge Riverside Project
Mount Pleasant (site IV), Dorset	Class 1 henge, or prior pit circle	Ditch primary fill or: prior pit-/shaft-fills	Animal bone Antler Charcoal	3988±84 (BM-667) 3931±72 (BM-666) 3911±89 (BM-663)	2865–2210 2620–2200 2835–2135	Wainwright 1979	Consistent determinations on different materials. Contexts are depressions in base of ditch which might conceivably be basal remnants of pit circle pre-dating henge

Site	Type	Context	Sample	14C date BP & Lab. Ref.	Calibrated BC (95% confidence)	Reference	Comments
Durrington Walls, Wiltshire	Southern timber circle (phase 2E)	Post-hole 99	Antler pick	3966±33 (OxA-14976)	2575–2345	Wainwright & Longworth 1971; Parker Pearson 2007; Thomas 2007	Antler in Post-hole 99 at interface of recut, but may be derived from original packing (Thomas 2007). This much more precise date favours pre-Chalcolithic construction
		Post-hole 92 base	Oak charcoal	3950±90 (BM-396)	2855–2150		
		Post-hole 92 packing	Antler	3900±90 (BM-395)	2830–2055		
		–	Animal bone	3850±90 (BM-397)	2570–2035		
<b>Chalcolithic</b>							
West Kennet 1, Wiltshire	Large timber double-circuit enclosure	Outer palisade trench	Animal bones (pig & cattle)	3960±70 (CAR-1293)	2835–2205	Whittle 1997	One of 6 dates inconsistent – ?intrusive. Otherwise they collectively favour Chalcolithic period
		–	–	3900±70 (CAR-1290)	2575–2150		
		–	–	3860±70 (CAR-1289)	2565–2135		
		–	Antler	3810±50 (BM-2597)	2460–2065		
		–	–	3620±50 (BM-2602)	2140–1785		
		–	–	3890±70 (CAR-1291)	2570–2145		
Avebury, Wiltshire	Outer stone circle within great henge enclosure	Base stone-hole 41	Charcoal	4130±90 (HAR-10062)	2895–2485	Pits & Whittle 1992; Pollard & Cleal 2004	Strongly divergent dates for stone-hole 41: earlier could be on mature wood or residual charcoal; later might anyway be associated with re-erection of stone (Pollard & Cleal 2004). Leaves single date to suggest Chalcolithic construction. Also a Late Iron Age date from ash layer in stone-hole 44 (?destruction)
		Fill of stone-hole 41	Human skull frag.	3535±50 (OxA-10109)	2020–1740		
		Base of stone-hole 44	Pig bone	3870±90 (HAR-10327)	2575–2040		
		–	–	–	–		
Machrie Moor, Arran, Strathclyde	Timber circles (phase 2) [TAC/04]	Charred stake and charcoal in fills of stake-holes	Charcoal	3840±110 (GU-2322)	2580–1965	Haggarty 1991	Dated samples associated with fences and cultivation which <i>post-date</i> timber circles; subsequent stone circles (below) might suggest not a long time interval. Grooved Ware with this phase
		–	–	3780±50 (GU-2317)	2435–2035		
		–	–	3770±50 (GU-2319)	2400–2030		
<b>Chalcolithic or EBA Period 2</b>							
Woodhenge, Wiltshire	Class 1 henge	Ditch floor	Antler	3815±75 (BM-677)	2470–2035	Pollard 1995	Burial in base of ditch recently dated 3415±30 (SUERC-26187 (GU-19936); BPP project) suggesting later insertion (Period 3/4)
		Ditch, primary silts	Animal bone	3755±55 (BM-678)	2400–1930		
Milfield North, Northumberland	Class 2 henge (with additional causeway)	Charcoal-bearing lens on ditch floor	Charcoal	3800±65 (BM-1150)	2465–2040	Harding 1981	If old wood involved, construction could fall in EBA. Pit/grave C contained Food Vessel in layer below dated one – possibly funerary site from outset
		Charcoal-bearing lens in middle fill	–	3775±40 (BM-1149)	2340–2040		
		Central pit/grave (C)	–	3750±80 (HAR-1199)	2460–1950		
		–	–	–	–		

Site	Type	Context	Sample	14C date BP & Lab. Ref.	Calibrated BC (95% confidence)	Reference	Comments
Stonehenge, Wiltshire	Re-erection of bluestone settings (phase 3iv)	Stone-hole 40c – Stone-hole 63a	Antler Animal bone Antler	3865±50 (OxA-4900) 3740±40 (OxA-4878) 3695±55 (OxA-4877)	2470–2200 2285–2030 2280–1930	Allen & Bayliss 1995	If earliest determination on residual material, probability distributions of others would favour Period 2
Condicote, Gloucestershire	Probable henge – unknown class (inner and outer ditches) [T-AQ/00]	Layer 9/9A Layer 14 Both from middle silts of initial filling of ditch (prior to recut along one edge)	Charcoal –	3720±80 (HAR-3064) 3670±100 (HAR-3067)	2430–1895 2395–1755	Saville 1983	Earlier date associated with occupation material including probable coarse Beaker pottery; underlying silt not inconsiderable and construction could have been somewhat earlier
Gorsey Bigbury, Somerset	Class 1 henge [T-AQ/00]	Ditch, secondary silts, with 'occupation' layer (Beaker-associated; various levels)	Charcoal Charcoal Bone Charcoal Bone Charcoal	3800±74 (BM-1088) 3782±62 (BM-1089) 3666±117 (BM-1090) 3663±61 (BM-1086) 3606±67 (BM-1091) 3602±71 (BM-1087)	2465–2035 2460–2035 2455–1745 2205–1885 2190–1770 2190–1755	ApSimon <i>et al</i> 1976	Some of charcoal dates (species unidentified) could be on mature wood, but bone dates at least partly compatible; focal range for group is good for associated Beaker assemblage predominantly of LN forms. Henge construction at some time earlier than this 'secondary' phase
<b>Early Bronze Age Period 2</b>							
Mount Pleasant, Dorset	Reworking of great enclosure W entrance	Floor of S & N ditch terminals	Antler –	3735±45 (BM-645) 3730±60 (BM-646)	2290–1985 2335–1950	Wainwright 1979	Entranceway suggested to have been narrowed at this date by extending ditch terminals
Sarn y bryn caled (site 1), Powys	Timber circles & central burial	Inner circle pit F Inner circle pit E Outer circle pit 11 Outer circle pit 12 Lower central cremation Upper central cremation	Charcoal from outer growth rings – – Oak charcoal Charcoal, mainly oak	3730±40 (BM-2805) 3670±40 (BM-2806) 3720±40 (BM-2808) 3660±60 (BM-2807) 3900±40 (BM-2810) 3660±40 (BM-2809)	2280–1985 2195–1940 2275–1980 2200–1890 2480–2210 2190–1925	Gibson 1994	Food Vessel in central feature (upper cremation) should not be pre-Period 2; this feature stratigraphically secondary to inner circle, but not necessarily significantly later to judge from dates (Gibson 1994, 155–6). Lower cremation sample presumably old wood
Machrie Moor, Arran, Strathclyde	Stone circles (phase 4) [TPQ/00]	Feature 358	Oak charcoal	3690±50 (GU-2323)	2270–1935	Haggarty 1991	Period 2 or later; dated feature was overlain by layer cut by stone hole 7 of NE circle; phase 3 dates on stakes (listed above) are further TPQ.

Site	Type	Context	Sample	14C date BP & Lab. Ref.	Calibrated BC (95% confidence)	Reference	Comments
North Mains, Perthshire	Class 2 henge [TPQ/00]	Burial A – cremation in pit sealed under bank to S of W entrance	Cremated human bone	3665±45 (GrA-24007)	2195–1920	G. Barclay 2005, 86, 88	Bank only survived thinly in this zone
Mount Pleasant, Dorset	Timber palisade (inside great henge)	<i>Cutting XVI</i> : Palisade trench	Animal bone	3955±45 (BM-794)	2575–2300	Wainwright 1979	Earlier date from mixed fill after posts withdrawn – best interpreted as having incorporated earlier material. Charcoal-rich lens interpreted as debris from burning of palisade
		<i>Cutting III</i> : Palisade trench – packing	Antler pick	3635±65 (BM-662)	2200–1780		
		– charcoal-rich lens in top	Charcoal	3645±40 (BM-665)	2140–1915		
Broomend of Crichie, Aberdeenshire	Class 2 henge [TPQ/00]	Burnt vegetation on OGS under bank	<i>Calluna vulgaris</i> charcoal	3665±35 (SUERC-13986) 3625±35 (SUERC-13987) 3520±35 (SUERC-13988)	2190–1940 2130–1890 1940–1750	Sheridan & Bradley 2007	Earliest and latest dates not compatible for same event. If earliest rejected as potentially residual, date could be as late as beginning of Period 3 (c. later 20 <sup>th</sup> century BC)

## ***Bibliography for Appendices 1.1 & 1.2***

- Abercromby, J. 1902. The oldest Bronze Age ceramic type in Britain, its close analogies on the Rhine; its probable origins in central Europe. *Journal of the Royal Anthropological Institute* (new ser.) 5, 373–97
- Alexander, W.L. 1870–2. Donations to the Museum. *Proceedings of the Society of Antiquaries of Scotland* 9, 532–40
- Allen, M.J. & Bayliss, A. 1995. Appendix 2: the radiocarbon dating programme. In R.M.J. Cleal, K.E. Walker & R. Montague, *Stonehenge in its Landscape: Twentieth Century Excavations*, 511–35. London: English Heritage Monograph 10
- Allen, T. & Kamash, Z. 2008. *Saved from the Grave. Neolithic to Saxon Discoveries at Spring Road Municipal Cemetery, Abingdon, Oxfordshire, 1990-2000*. Oxford: Oxford Archaeological Unit, Thames Valley Landscapes Monograph 28
- Anderson, J. 1886. *Scotland in Pagan Times: the Bronze and Stone Ages*. Edinburgh: David Douglas
- Annable, F.K. & Simpson, D.D.A. 1964. *Guide Catalogue of the Neolithic and Bronze Age collections in Devizes Museum*. Devizes: Wiltshire Archaeological and Natural History Society
- Anon 1787. Appendix. *Archaeologia* 8, 427–52
- ApSimon, A.M., Musgrave, J.H., Sheldon, J., Tratman, E.K. & Wijngaarden-Bakker, L.H. 1976. Gorsey Bigbury, Cheddar, Somerset: radiocarbon dating, human and animal bones, charcoals, archaeological reassessment. *Proceedings of the University of Bristol Speleological Society* 14, 155–83
- Ashmore, P.J. 1989. Excavation of a Beaker cist at Dornoch Nursery, Sutherland. *Proceedings of the Society of Antiquaries of Scotland* 119, 63–71
- Bamford, H.M. 1985. *Briar Hill: Excavation 1974–1978*. Northampton Development Corporation: Archaeological Monograph No 3
- Barclay, A., Gray, M. & Lambrick, G. 1995. *Excavations at the Devil's Quoits, Stanton Harcourt, Oxfordshire, 1972-3 and 1988*. Oxford: Oxford Archaeological Unit, Thames Valley Landscapes: the Windrush Valley Volume 3
- Barclay, A. & Halpin, C. 1999. *Excavations at Barrow Hills, Radley, Oxfordshire, Volume 1: the Neolithic and Bronze Age Monument Complex*. Oxford: Oxford Archaeological Unit, Thames Valley Landscapes Volume 11
- Barclay, G.J. 2005. The 'henge' and 'hengiform' in Scotland. In V. Cummings & A. Pannett (eds) *Set in Stone: New Approaches to Neolithic Monuments in Scotland*. Oxford: Oxbow, 81–94
- Barclay, G. 1983. Sites of the third millennium bc to the first millennium ad at North Mains, Strathallan, Perthshire. *Proceedings of the Society of Antiquaries of Scotland* 113, 122–281
- Barclay, G. and Russell-White, C.J. (eds) 1993. Excavations in the ceremonial complex of the fourth to second millennium BC at Balfarg/Balbirnie, Glenrothes, Fife. *Proceedings of the Society of Antiquaries of Scotland* 123, 43–210
- Barrett, J., Bradley, R. & Green, M. 1991. *Landscape, Monuments and Society: the Prehistory of Cranborne Chase*. Cambridge: Cambridge University Press
- Bartlett, J. 1963. Beaker burials from Brantingham, Melton and South Cave. *Hull Museum Publications* 214, 17–22
- Bowman, S.G.E., Ambers, J.C. and Leese, M.N. 1990. Re-evaluation of British Museum radiocarbon dates issued between 1980 and 1984. *Radiocarbon* 32, 59–79
- Bradley, R. 1976. Maumbury Rings, Dorchester: the excavations of 1908–1913. *Archaeologia* 105, 1–97
- Brown, F., Howard-Davis, C., Brennand, M., Boyle, A., Evans, T., O'Connor, S., Spence A., Heawood, R. & Lupton, A. 2007. *The Archaeology of the A1(M) Darrington to Dishforth DBFO Road Scheme*. Lancaster: Oxford Archaeology North; Lancaster Imprints 12
- Bruce, M. 1986. The skeletons from the cists. In I.A.G. Shepherd 1986, 17–22
- Butler, C. 1991. The excavation of a Beaker bowl barrow at Pyecombe, West Sussex. *Sussex Archaeological Collections* 129, 1–28
- Case, H. 2003. Beaker presence at Wilsford 7. *Wiltshire Archaeological and Natural History Magazine* 96, 161–94
- Case, H. & Sturdy, D. 1959. Archaeological Notes. *Oxoniensia* 24, 98–102
- Chalmers, J.H. 1866–8. Notice of the discovery of a stone kist at Broomend, near Inverurie, Aberdeenshire. *Proceedings of the Society of Antiquaries of Scotland* 7, 110–4
- Clarke, D.L. 1970. *Beaker Pottery of Britain and Ireland*. 2 vols. Cambridge: Cambridge University Press
- Clarke, D.V., Cowie, T.G. & Foxon, A. 1985. *Symbols of Power at the Time of Stonehenge*. Edinburgh, Her Majesty's Stationery Office
- Collingwood, E.F. 1946. A prehistoric grave at West Lilburn. *Archaeologia Aeliana* (4<sup>th</sup> ser.) 24, 217–29
- Coutts, H. 1971. *Tayside before History: a Guide-Catalogue of the Collection of Antiquities in Dundee Museum*. Dundee: Dundee Museum and Art Gallery
- Cunnington, E. 1857. Account of a barrow on Roundway Hill near Devizes, opened in April 1855. *Wiltshire Archaeological & Natural History Magazine* 3, 185–8
- Donaldson, P. 1977. The excavation of a multiple round barrow at Barnack, Cambridgeshire, 1974–1976. *Antiquaries Journal* 57, 197–231

- Drew, C.D. & Piggott, S. 1936. The excavation of long barrow 163a on Thickthorn Down, Dorset. *Proceedings of the Prehistoric Society* 2, 77–96
- Evans, J. 1881. *The Ancient Bronze Implements, Weapons and Ornaments of Great Britain and Ireland*. London: Longman, Green & Co
- Evans, J.G., Atkinson, R.J.C., O'Connor, T. & Green, H.S. 1983. Stonehenge – the environment in the Late Neolithic and the Early Bronze Age and a Beaker-Age burial. *Wiltshire Archaeological and Natural History Magazine* 78, 7–30
- Fasham, P.J., Farwell, D.E. & Whinney, R.J.B. 1989. *The Archaeological Site at Easton Lane, Winchester*. Gloucester: Alan Sutton: Hampshire Field Club and Archaeological Society Monograph 6
- Field, E.V. 1961. Normanton Down. *Wiltshire Archaeological and Natural History Magazine* 58, 30
- Fitzpatrick, A.P. 2011. *Amesbury Archer and Boscombe Bowmen. Early Beaker burials at Boscombe Down, Amesbury, Wiltshire, Great Britain*. Salisbury: Wessex Archaeology Report 27
- Franks, A.W. 1870–3. (Exhibition of objects). *Proceedings of the Society of Antiquaries of London* (2<sup>nd</sup> ser.) 5, 270–5
- Gardiner, J., Allen, M.J., Powell, A., Harding, P., Lawson, A., Loader, E., McKinley, J., Sheridan, A. & Stevens, C. 2007. A matter of life or death: Late Neolithic, Beaker and Early Bronze Age settlement and cemeteries at Thomas Hardy School, Dorchester. *Proceedings of the Dorset Natural History and Archaeological Society* 128, 17–52
- Gerloff, S. 1975. *The Early Bronze Age Daggers in Great Britain, and a reconsideration of the Wessex Culture*. Munich: Prähistorische Bronzefunde VI, 2
- Gibson, A. 1994. Excavations at the Sarn-y-bryn-caled cursus complex, Welshpool, Powys, and the timber circles of Great Britain and Ireland. *Proceedings of the Prehistoric Society* 60, 143–223
- Gibson, A. 1999. *The Walton Basin Project: Excavation and Survey in a Prehistoric Landscape, 1993–7*. York: Council for British Archaeology, Research Report 118
- Green, C. & Rollo-Smith, S. 1984. The excavation of eighteen round barrows near Shrewton, Wiltshire. *Proceedings of the Prehistoric Society* 50, 255–318
- Grimes, W.F. 1930–1. A new Beaker from Brecknockshire. *Bulletin of the Board of Celtic Studies* 5, 392
- Grimes, W.F. 1960. *Excavations on Defence Sites, 1939–1945, I: Mainly Neolithic – Bronze Age*. London: Her Majesty's Stationery Office; Ministry of Works Archaeological Reports no 3
- Harding, A.F. 1981. Excavations in the prehistoric ritual complex near Milfield, Northumberland. *Proceedings of the Prehistoric Society* 47, 87–135
- Harrison, R.J., Jackson, R. & Napthan, M. 1999. A rich Bell Beaker burial from Wellington Quarry, Marden, Herefordshire. *Oxford Journal of Archaeology* 18, 1–16
- Haggarty, A. 1991. Machrie Moor, Arran: recent excavations at two stone circles. *Proceedings of the Society of Antiquaries of Scotland* 121, 51–94
- Hamlin, A. & Case, H. 1963. Excavations of ring-ditches and other sites at Stanton Harcourt, and Notes on the finds and on ring-ditches in the Oxford region. *Oxoniensia* 28, 1–52
- Harrison, R. 1980. *The Beaker Folk: Copper Age Archaeology in Western Europe*. London: Thames & Hudson
- Harrison, R.J., Jackson, R. & Napthan, M. 1999. A rich Bell Beaker burial from Wellington Quarry, Marden, Herefordshire. *Oxford Journal of Archaeology* 18, 1–16
- Healy, F. 1997. Site 3. Flagstones. In R.J.C. Smith, F. Healy, M.J. Allen, E.L. Morris and P.J. Woodward (eds.) *Excavations along the Route of the Dorchester By-pass, Dorset, 1986–8*, 27–48. Salisbury: Wessex Archaeology Report no. 11
- Healy, F. & Harding, J. 2004. Reading a burial: the legacy of Overton Hill. In A. Gibson & A. Sheridan (eds.) *From Sickles to Circles: Britain and Ireland at the Time of Stonehenge*, 176–93. Stroud: Tempus
- Hoare, R.C. 1812. *The Ancient History of South Wiltshire*. London: William Miller
- Kenworthy, J.B. 1976–7. A reconsideration of the 'Ardiffery' finds, Cruden, Aberdeenshire. *Proceedings of the Society of Antiquaries of Scotland* 108, 80–93
- Kinnes, I.A. 1985. *Beaker and Early Bronze Age Grave Groups*. British Bronze Age Metalwork, Associated Finds Series, A7–16. London: British Museum Publications
- Kinnes, I.A. & Cook, J. 1998. The burials. In I. Kinnes, F. Cameron, S. Trow & D. Thomson *Excavations at Cliffe, Kent*. London: British Museum Occasional Paper 69, 59–62
- Kinnes, I., Gibson, A., Ambers, J., Bowman, S., Leese, M. & Boast, R. 1991. Radiocarbon dating and British Beakers: the British Museum programme. *Scottish Archaeological Review* 8, 35–68
- Lambrick, G. & Allen, T. 2004. *Gravelly Guy, Stanton Harcourt, Oxfordshire: the Development of a Prehistoric and Romano-British Community*. Oxford: Oxford Archaeology, Thames Valley Landscapes Monograph 21
- Leeds, E.T. 1934. Recent Bronze Age discoveries in Berkshire and Oxfordshire. *Antiquaries Journal* 14, 264–76
- Leivers, M. & Moore, C. 2008. *Archaeology on the A303 Stonehenge Improvement*. Salisbury: Wessex Archaeology
- Low, A. 1935–6. A short cist containing a Beaker and other relics at Newlands, Oyne, Aberdeenshire. *Proceedings of the Society of Antiquaries of Scotland* 70, 326–31

- Lynch, F. and Musson C. 2001. A prehistoric and early medieval complex at Llandegai, near Bangor, North Wales. *Archaeologia Cambrensis* 150, 17–142
- Marsden, B.M. 1977. *The Burial Mounds of Derbyshire*. Privately published.
- Martin, E., Pendleton, C. & Plouvier, J. 1993. Archaeology in Suffolk 1992. *Proceedings of the Suffolk Institute of Archaeology and History* 38 (1), 79–101
- Maryon, H. 1936. Excavation of two Bronze Age barrows at Kirkhaugh, Northumberland. *Archaeologia Aeliana* (4<sup>th</sup> ser.) 13, 207–17
- Matthews, C.L. 1976. *Occupation Sites on the Chiltern Ridge, Part 1: Neolithic, Bronze Age and Early Iron Age*. Oxford: British Archaeological Reports 29
- Mercer, R. 1981. The excavation of a late Neolithic henge-type enclosure at Balfarg, Markinch, Fife, Scotland, 1977–78. *Proceedings of the Society of Antiquaries of Scotland* 111, 63–171
- Minter, K.S. & Hogarth, A.C. 1972. *Archaeological discoveries in Broadstairs and St Peter's up to 1972*. Broadstairs and St Peter's Archaeological Society
- Moody, G. 2008. *The Isle of Thanet from Prehistory to the Norman Conquest*. Stroud: The History Press
- Mortimer, J.R. 1905. *Forty Years' Researches in British and Saxon Burial Mounds of East Yorkshire*. London: Brown & Sons
- Murray, H.K. & Shepherd, I.A.G. 2007. Excavation of a beaker cist burial with meadowsweet at Home Farm, Udney Green, Aberdeenshire. *Proceedings of the Society of Antiquaries of Scotland* 137, 35–58
- Needham, S.P. 2005. Transforming Beaker culture in north-west Europe; processes of fusion and fission. *Proceedings of the Prehistoric Society* 71, 171–217
- Needham, S.P., Lawson, A.J. & Green, H.S. 1985. *Early Bronze Age Hoards*. British Bronze Age Metalwork, Associated Finds Series A1–6. London: British Museum Publications
- Parker Pearson, M. 2007. The Stonehenge Riverside Project: excavations at the east entrance of Durrington Walls. In M. Larsson & Parker Pearson, M. (eds), *From Stonehenge to the Baltic: Living with Cultural Diversity in the Third Millennium BC*, 125–44. Oxford: British Archaeological Reports International Series 1692
- Payne, G. 1885. A celtic interment at Sittingbourne, Kent. *Proceedings of the Society of Antiquaries of London* (2<sup>nd</sup> ser.) 10, 29–30
- Pendleton, C. F. 1999. *Bronze Age metalwork in Northern East Anglia. A Study of its Distribution and Interpretation*. Oxford: British Archaeological Reports, British Series 279
- Pitts, M. & Whittle, A. 1992. The development and date of Avebury. *Proceedings of the Prehistoric Society* 58, 203–12
- Pollard, J. 1995. Inscribing space: formal deposition at the Later Neolithic monument of Woodhenge, Wiltshire. *Proceedings of the Prehistoric Society* 61, 137–56
- Pollard, J. & Cleal, R.M.J. 2004. Dating Avebury. In R. Cleal & J. Pollard (eds), *Monuments and Material Culture: Papers in Honour of Avebury Archaeologist: Isobel Smith*, 120–9. Salisbury: Hobnob Press
- Ralston, I.B.M. 1996. Four short cists from north-east Scotland and Easter Ross. *Proceedings of the Society of Antiquaries of Scotland* 126, 121–55
- Reaney, D. 1968. Beaker burials in south Derbyshire. *Derbyshire Archaeological Journal* 88, 68–81
- Reid, R.W. 1924. *Illustrated Catalogue of Specimens from Prehistoric Interments found in the North-East of Scotland*. Aberdeen
- Richards, J. 1990. *The Stonehenge Environs Project*. London: English Heritage Archaeological Report 16
- Ritchie, J.N.G. 1975–6. The Stones of Stenness, Orkney. *Proceedings of the Society of Antiquaries of Scotland* 107, 1–60
- Robertson, J. 1864–6. Donations to the Museum. *Proceedings of the Society of Antiquaries of Scotland* 6, 233–9
- Robertson-Mackay, M.E. 1980. A 'head and hooves' burial beneath a round barrow, with other Neolithic and Bronze Age sites, on Hemp Knoll, near Avebury. *Proceedings of the Prehistoric Society* 46, 123–76
- Russel, A.D. 1990. Two Beaker burials from Chilbolton, Hampshire. *Proceedings of the Prehistoric Society* 56, 153–72
- Saville, A. 1983. Excavations at Condicote henge monument, Gloucestershire. *Transactions of the Bristol & Gloucestershire Archaeological Society* 101, 21–47
- Savory, H.N. 1980. *Guide Catalogue of the Bronze Age Collections*. Cardiff: National Museum of Wales
- Shepherd, I.A.G. 1986. *Powerful Pots: Beakers in North-East Prehistory*. Aberdeen: Aberdeen Museum of Anthropology
- Shepherd, I.A.G. & Greig, M.K. 1989. Park Quarry (Durris parish). *Discovery & Excavation in Scotland*, 22
- Sheridan, A. 2007. Dating the Scottish Bronze Age: 'There is clearly much that the material can still tell us'. In C. Burgess, P. Topping & F. Lynch (eds) *Beyond Stonehenge: Essays on the Bronze Age in Honour of Colin Burgess*, 162–85. Oxford: Oxbow Books
- Sheridan, A. 2008. Upper Largie and Dutch-Scottish connections during the Beaker period. In H. Fokkens, B.J. Coles, A.L. Van Gijn, J.P. Kleijne, H.H. Ponjee & C.G. Slappendel (eds), *Between Foraging and Farming: an Extended Broad Spectrum, of Papers Presented to Leendert Louwe Kooijmans*, 247–60. Leiden: Leiden University, *Analecta Praehistorica Leidensia* 40
- Sheridan, A. & Bradley, R. 2007. Radiocarbon dates arranged through National Museums Scotland during 2006/7. *Discovery and Excavation* 8 (new series), 220–1

- Smith, R.J.C. 2000. Excavation of Neolithic and Bronze Age features at the Thomas Hardye (formerly Castlefield) School, Coburg Road, Dorchester, 1994. *Proceedings of the Dorset Natural History and Archaeological Society* 122, 73–82
- Speak, S. & Burgess, C.B. 1999. Meldon Bridge: a centre of the third millennium BC in Peebleshire. *Proceedings of the Society of Antiquaries of Scotland* 129, 1–118
- Stevens, F. & Stone, J.F.S. 1937–9. The barrows of Winterslow. *Wiltshire Archaeological & Natural History Magazine* 48, 174–82
- Stone, J.F.S. & Hill, N.G. 1940. A round barrow on Stockbridge Down, Hampshire. *Antiquaries Journal* 20, 39–51
- Thomas, J. 2007. The internal features at Durrington Walls: investigations in the Southern Circle and Western Enclosures 2005–6. In Larsson & Parker Pearson (eds) 2007, 145–57
- Underwood, G. 1945–7. Early British settlement at Farleigh Wick and Conkwell, Wiltshire. *Wiltshire Archaeological & Natural History Magazine* 51, 440–52
- Underwood, G. 1947–8. Farleigh Wick. *Wiltshire Archaeological & Natural History Magazine* 52, 270–1
- Vine, P.M., 1982. *The Neolithic and Bronze Age Culture of the Middle and Upper Trent Basin*. Oxford: British Archaeological Reports 105
- Wainwright, G.J. 1979. *Mount Pleasant, Dorset: Excavations 1970–1971*. London: Society of Antiquaries Research Report 37
- Wainwright, G.J. & Longworth, I.H. 1971. *Durrington Walls: Excavations 1966–1968*. London: Society of Antiquaries Research Report 29
- White, D.D.A. 1969. Excavations at Brampton, Huntingdonshire, 1966. *Proceedings of the Cambridgeshire Antiquarian Society* 62, 1–20
- Whittle, A. 1997. *Sacred Mound, Holy Rings: Silbury Hill and the West Kennet Palisade Enclosures: a Later Neolithic Complex in North Wiltshire*. Oxford: Oxbow Monograph 74
- Whittle, A., Atkinson, R.J.C., Chambers, R. & Thomas, N. 1992. Excavations in the Neolithic and Bronze Age complex at Dorchester-on-Thames, Oxfordshire, 1947–1952 and 1981. *Proceedings of the Prehistoric Society* 58, 143–201
- Williams, A. 1948. Excavations in Barrow Hills Field, Radley, Berkshire, 1944. *Oxoniensia* 13, 1–17
- Woodward, P.J., Davies, S.M. & Graham, A. 1993. *Excavations at Greyhound Yard and the Old Methodist Chapel, Dorchester, 1981–4*. Dorchester: Dorset Natural History & Archaeological Society Monograph 12

## Chronology, Corpses, Ceramics, Copper, and Lithics

*Frances Healy*

*Bayesian modelling of radiocarbon dates for articulated inhumations of the 4th, 3rd, and 2nd millennia cal BC in England indicates a pronounced lull in the practice in the earlier 3rd millennium. The Beaker burials of the later 3rd millennium thus seem to reflect a newly introduced continental tradition, rather than the revival of a long-lived insular one, a conclusion reinforced by differences in demographic composition and burial context between Beaker and earlier articulated burials. Modelling of the chronology of Beaker pottery in Britain suggests that the tradition may have persisted longest in southern England and highlights an imbalance between many dates for burials and few for settlements. Although the working of the Grime's Graves flint mines overlapped substantially with the currency of British pottery, which is abundant in the surrounding area, the tradition is virtually absent from the site. It is suggested that the continued working of the mines, if not their inception, may have been something of an assertion of old ways in the face of perhaps threatening innovations.*

Table 10.4: Radiocarbon measurements used in models and/or cited in the text, in laboratory number order

Calibrated date ranges (at 95% confidence) are calculated by the maximum intercept method (Stuiver & Reimer 1986) and rounded outwards to the nearest 10 years, following Mook (1986). Where a date is used in both the English articulated burials model (Figs 10.3a–d) and the Beaker pottery models, the posterior density estimate given here is that from Beaker model 1 (Figs 10.5a–h)

Lab. No.	Date BP	Site	Context	Sample	$\delta^{13}\text{C}$ (‰)	Weighted mean (BP)	Cal BC (95%)	Comments	Posterior density estimate (95%)	References	Articulated model	Beaker model 1	Beaker model 2
AA-28050	3795±55	High Fen Drove, Northwold, Norfolk	18 short-life samples from sequence through burnt mound below & in which were >100 sherds Beaker with FN, FP & incised decoration (an illius sherd has frag. Clarke's motif 34), & 1 sherd poss. Food Vessel Urn	Charred hazelnut shell		2470–2030	Estimated start date used as a prior in Beaker models	2265–2165 (start_Northwold_burnt_mound)	Crowson 2004; Crowson & Bayliss 1999		Y	Y	
AA-40353	4195±40	Fox Plantation, Dumfries & Galloway	Pit among several, some of which contained Beaker pottery, lithics & charred plant remains. Beaker described as including All Over Corded sherds			2900–2630	Not used because association between date & Beaker pottery not yet clear		Needham 2005; MacGregor 1996; Sheridan 2007				
AA-53171	3875±45	Westhampnett area 3, West Sussex	Truncated scoop 30270. ?Crouched. Flint flake, 2 v small Fe frags & later prehistoric sherd in fill, all ?intrusive.	Badly preserved prob. articulated skeleton of subadult ?female		2480–2200	Treated as tpq for pottery as beech fairly long-lived	2910–2830 (71%), 2820–2740 (23%), 2730–2700 (1%)	Powell 2008		Y	Y	
AA-53715	3660±55	Newbarns, Angus	Pit with sherds short necked (N4) Beaker	Beech charcoal		2200–1890	Not used because of low collagen		McGrill 2004				
AA-53716	3765±60	Dryburn Bridge, cist 2, E Lothian	Burial 10. In same cist as burial 11, short necked (N2) Beaker above both burials, flint point & scraper with them	Articulated skeleton of male 45–60 yrs. Replicate of SUERC-4078, GU-1408		2440–1980	Not used because of low collagen		Dunwell 2007; Sheridan 2007				
Beta-53122	3560±70	Dryburn Bridge, cist 2, E Lothian	Burial 11. In corner of stone cist, partly over feet & legs of burial 10, perhaps disturbed by its insertion. Short necked (N2) Beaker above both burials, flint point & scraper with them	Remains of child 6–8 yrs, incomplete & disarticulated. Replicate of GU-1409, SUERC-4079		2140–1690	Earliest of 3 successive burials in flat grave exposed in quarry face, accompanied by pig bone	2120–2080 (2%), 2060–1730 (92%), 1720–1690 (1%)	As AA-53715 Reynolds 1992		Y		

Lab. No.	Date BP	Site	Context	Sample	$\delta^{13}\text{C}$ (‰)	Weighted mean (BP)	Cal BC (95%)	Comments	Posterior density estimate (95%)	References	Articulated model	Beaker model 1	Beaker model 2
Beta-178143	3990±40	Kilverstone, Norfolk	Pit 10 context 128. 1 of 4 intercutting pits. Containing incised & rusticated Beaker sherds, struck flint, burnt flint, charred hazelnut shell	Animal bone, unspecified, but bone from pit elsewhere described as 'teeth & fragments of a mature cow jaw' (Garrow <i>et al.</i> 2006, 91)			2620–2450	Treated as tpq for pottery because bone disarticulated	2630–2450 (92%), 2420–2400 (1%), 2380–2350 (2%)	Garrow <i>et al.</i> 2006	Y	Y	
Beta-210616	4460±40	A505 Baldock bypass, area 3, Herts	Crouched in oval grave G109.4. At centre of subsquare enclosure c. 4 m across. Peterborough Ware & charred cereal/grass in ditch.	Skeleton of male >50 yrs			3350–2930		3350–3010 (93%), 2980–2960 (1%), 2950–2940 (1%)	Phillips 2009, 13–16	Y		
Beta-240342	3730±40	Ederley Drain Road, Fengate, Peterborough	F140. Pit containing sherds of incised & rusticated Beaker, some with Clarke's motif 33 or 34, struck flint, charred cereals	Unspecified AMS charcoal sample	-24.5		2280–2020	Treated as tpq for pottery because charcoal unidentified	2290–2220 (94%), 1990–1980 (1%) 173	Evans 2009, 22, 131–5, 160–2, 173	Y	Y	
Birm-85	3423±82	Ysgwennant pit 1, Liansillin, Powys	Pit 1. Pit dug into natural. Long necked Beaker sherds present	Unidentified bulk charcoal sample			1950–1510	Treated as tpq for pottery	1940–1530	Day 1972	Y		
Birm-1113	3520±50	Nant Maden, Rhondda, Cyn, Taff	With Beaker pottery on old land surface beneath kerbed cairn	Unidentified bulk charcoal sample			2020–1690	Treated as tpq for pottery	2010–2000 (1%), 1980–1730 (93%), 1710–1690 (1%)	Webley 1986	Y		
BM-62	3750±150	Antofts Windypit, Helmsley, N Yorks	Hearth on fallen limestone block in natural fissure, 80 ft below surface. More than half small low carinated (AOC) Beaker 6–7 ft from hearth. Small, plain, low-carinated Beaker with foot ring found with human & animal bone in another part of fissure.	<i>Corylus</i> and <i>Fraxinus</i> charcoal			2580–1740	Not used because probability of repeated visits to fissure weighs against association of pot & hearth		McDonnell 1963			
BM-77	3520±150	Cottage Field, Watisfield, Suffolk	Solution pipe formed in clay over chalk. Dated charcoal, long necked & handled Beaker pottery & other material seem to have entered feature from surface.	Unidentified bulk charcoal sample			2290–1490	Not used because of uncertainty of association between pottery and sample		Smedley 1957; Bamford 1982			
BM-133	3800±150	Fifty Farm, Cambs	From peat-covered palaeosol on sandhill. Sherds of long necked Beaker, with struck flint, animal bone, small amount of disarticulated human bone	Unidentified bulk charcoal sample			2840–1780	Not used because of doubt as to length of time over which sandhill had been (re)occupied		Leaf 1934			

Lab. No.	Date BP	Site	Context	Sample	$\delta^{13}\text{C}$ (‰)	Weighted mean (BP)	Cal BC (95%)	Comments	Posterior density estimate (95%)	References	Articulated model	Beaker model 1	Beaker model 2
BM-152	3800±150	Chippenham barrow 5, Cambs	Hearth VIII. One of 8 hearths below barrow. VIII contained sherds from several Beakers, at least one of them long necked, animal bone, struck flint	Unidentified bulk charcoal sample			2840-1780	Treated as tpq for pottery	2840-2810 (1%), 2670-1870 (92%), 1850-1810 (1%), 1800-1770 (1%)	Leaf 1940		Y	
BM-172	3750±150	Lion Point, site 11, area 2, Essex	Pit containing Beaker sherds with BW & FN rusticated decoration, 1 poss. of globular profile	Unidentified bulk charcoal sample			2580-1740	Treated as tpq for pottery	2580-1770	Smith 1955; Barker & Makey 1968		Y	
BM-208	3790±130	Knap Hill, Wilts	Segment 5, cutting II, layer 4. Topmost fill of causewayed enclosure ditch, with long-necked Beaker sherds (Connah 1965, fig. 3)	'All the charcoal from that layer was pooled in order to make up a large enough sample' (Connah 1969, 305)			2580-1880	Treated as tpq for pottery	2580-1880	Connah 1965; 1969		Y	
BM-284	3590±140	Blackhorse Road, Letchworth, Herts	F6601, layer 4. Shaft-like pit containing much of a long-necked (S4) Beaker, sherds of 6 rusticated Beakers, smaller quantities Grooved Ware & Fengate Ware, bone point, flint industry	Unidentified bulk charcoal sample			2350-1610	Treated as tpq for pottery, esp. given artefacts of mixed ages in pit	2340-1690	Moss-Eccardt 1988		Y	
BM-285	3560±120	Durrington Walls, Wilts	Hearth 5. In secondary fill of henge ditch, with burnt flint, burnt bone & sherds 2 Beakers, 1 of them FN-impressed & long necked	Unidentified bulk charcoal sample			2280-1610	Treated as tpq for pottery	2280-2250 (1%), 2210-1690 (94%)	Wainwright & Longworth 1971		Y	
BM-287	3740±60	Amesbury 51, Wilts	Burial A. Board covering articulated skeleton of 25- to 30-year-old male in grave with long necked (S2) Beaker, Cu alloy awl, antler artefacts, flint scraper, cattle horn core	Oak charcoal from board covering burial			2340-1960	Treated as tpq for pottery	2340-1960	Ashbee 1976		Y	

Lab. No.	Date BP	Site	Context	Sample	$\delta^{13}\text{C}$ (‰)	Weighted mean (BP)	Cal BC (95%)	Comments	Posterior density estimate (95%)	References	Articulated model	Beaker model 1	Beaker model 2
BM-1086	3663±61	Gorsey Bigbury, Somerset	'Bottom of occupation, 33ft from causeway'. 'Occupation deposit' lay above initial silt in ditch of small henge monument. With lithics, human bone (inc. Beaker burial in cist), animal bone, daub, c. 4000 lithics, sherds of c. 120 fine & rusticated Beakers (generally long-necked where diagnostic)	Unidentified bulk charcoal sample. Charcoal from other findspots in deposit identified as <i>Quercus</i> , <i>Corylus</i> , <i>Prunus</i> , <i>Pomoideae</i> and ? <i>Ilex</i> ; with <i>Quercus</i> generally in the minority or absent	-26.5		2210-1880	Label quoted by ApSimon suggests this was single charcoal concentration. All 6 dates from deposit are statistically consistent ( $T^*=7.8$ ; $T^*(5\%)=11.1$ ; $v=5$ ) & are treated as tpqs for the pottery	2210-1880	ApSimon <i>et al.</i> 1976	Y	Y	
BM-1087	3602±71	Gorsey Bigbury, Somerset	'Ditch, lower part of hearth, 8.8.33'. As BM-1086	As BM-1086	-27.8		2200-1750	As BM-1086	2190-2180 (1%), 2150-1760 (94%)	As BM-1086	Y	Y	
BM-1088	3800±74	Gorsey Bigbury, Somerset	'Ditch, bottom half of occupation level, E. side, 33 ft from causeway'. As BM-1086	As BM-1086	-26.5		2470-2020	As BM-1086	2470-2030	As BM-1086	Y	Y	
BM-1089	3782±62	Gorsey Bigbury, Somerset	'Ditch, hearth on west side of causeway, outer side'. As BM-1086	As BM-1086	-26.8		2470-2020	As BM-1086	2460-2030	As BM-1086	Y	Y	
BM-1090	3666±117	Gorsey Bigbury, Somerset	'Bottom of occupation 32 ft east of causeway'. As BM-1086	Unspecified animal bone sample	-17.1		2460-1740	Label quoted by ApSimon suggests this was single find, if not a single bone. Otherwise as BM-1086	2460-2420 (1%), 2410-2370 (1%), 2350-1740 (93%)	As BM-1086	Y	Y	
BM-1091	3606±67	Gorsey Bigbury, Somerset	'Bottom of occupation? As BM-1086	Unspecified animal bone sample	-22.6		2200-1760	As BM-1090	2150-1770	As BM-1086	Y	Y	
BM-1168	3680±70	Callis Wold 275, Humberside	Concentration charcoal, struck flint & c. 200 Beaker sherds, described as AOC, E. & small rubble mound covering Neolithic monument & beneath turf stack	Unidentified bulk charcoal sample	-25.8	3626±43 (with BM-1169, HAR-1448; $T^*=4.5$ ; $T^*(5\%)=6.0$ ; $v=2$ )	2290-1880	Meaned with other dates from same deposit because all effectively part of a single bulk sample. Treated as tpq for pottery	2140-1880 (for weighted mean)	Coombs 1976	Y	Y	
BM-1169	3680±70	Callis Wold 275, Humberside	As BM-1168	As BM-1168	-25.0	As BM-1168	2290-1880	As BM-1168	As BM-1168	As BM-1168	Y	Y	

Lab. No.	Date BP	Site	Context	Sample	$\delta^{13}\text{C}$ (‰)	Weighted mean (BP)	Cal BC (95%)	Comments	Posterior density estimate (95%)	References	Articulated model	Beaker model 1	Beaker model 2
BM-1412	3656±58	Barnack, Cambs	Grave 28. Primary burial, from possible coffin with tall mid carinated (W/MR) Beaker, tanged Cu alloy dagger, bone or ivory side-looped pendant, stone bracer with gold-capped holes	Oak charcoal from charred plank. Replicate of HAR-1645	-24.1	3627±47 (with HAR-1645; T'=0.8; T'(5%)=3.8; v=1)	2140–1920 (for weighted mean)	Not used because mean of BM-1412 & HAR-1645 statistically inconsistent with & more recent than BM-2956, measured on articulated primary burial (T'=5.8; T'(5%)=3.8; v=1)	2330–2270 (36%), 2260–2200 (59%), for weighted mean)	Donaldson 1977; Kinnes <i>et al.</i> 1991, 55; Needham 1996, 128; 1999, 189			
BM-1413	3884±46	Sorisdale, Coll, Argyll & Bute	Grave containing low carinated (AOC) Beaker, 'cut through a thin discontinuous layer of midden material consisting of dark sand with sherds of coarse pottery and limpet shells'	Femora from partly disarticulated but substantially complete skeleton of female c. 20 years old. Replicate of OxA-14722	-19.8	3881±27 (with OxA-14722; T'=0.0; T'(5%)=3.8; v=1)	2470–2230 (for weighted mean)	Standard deviation increased from 46 to 110 by Patrick Ashmore. Date for burial, taq for underlying occupation	2330–2270 (36%), 2260–2200 (59%), for weighted mean)	Richie & Crawford 1978; Sheridan 2007		Y	Y
BM-1524	3400±100	Wilburton Fen, Cambs	Buried with articulated skeleton & long necked (N2) Beaker	Aurochs horn core	-23.2		1960–1450	Not used because horn could have been already old when buried		Fox 1923			
BM-1582	3715±70	Stonehenge, Wilts	Segment 98, C61.1, context 4028. Grave cut into secondary silts. Shot by arrows tipped with barbed & tanged points, wearing stone bracer	Femur from articulated skeleton of adult male. Replicate of OxA-4886, -5044, -5045, -5046	-21.8	3819±28 (with OxA-4886, -5044, -5045, -5046; T'=8.7; T'(5%)=9.5; v=4)	2400–2140 (for weighted mean)		2400–2380 (2%), 2350–2190 (88%), 2170–2140 (5%), for weighted mean)	Cleal <i>et al.</i> 1995; Evans 1984, 13–22			Y
BM-1668R	3910±100	Dean Bottom, Wilts	Pit 23, context 18. Containing sherds of numerous tall mid carinated Beakers (W/MR), bone & antler artefacts, struck flint, animal bone.	Unidentified bulk charcoal sample		3831±71 (with BM-1669R; T'=1.3; T'(5%)=3.8; v=1)	2480–2040 (for weighted mean)	Meaned with BM-1169R because both effectively parts of single bulk sample. Treated as tpq for pottery	2480–2130 (22%), 2100–2040 (3%), for weighted mean)	Gingell 1992			Y
BM-1669R	3750±100	Dean Bottom, Wilts	As BM-1668R	As BM-1168R		As BM-1168R	As BM-1168R		As BM-1168R	As BM-1168R			Y

Lab. No.	Date BP	Site	Context	Sample	$\delta^{13}\text{C}$ (‰)	Weighted mean (BP)	Cal BC (95%)	Comments	Posterior density estimate (95%)	References	Articulated model	Beaker model 1	Beaker model 2
BM-1681R	3470±100	Welsh St Donats 3, Vale of Glamorgan	Burial C. Probable coffin of articulated inhumation, female, 30–35 yrs, with crushed long necked rusticated Beaker, bronze awl, flint flake, cattle tooth	<i>Quercus</i> charcoal			2040–1520	Treated as tpq for pottery	2120–2100 (1%), 2040–1540 (94%)	Ehrenberg <i>et al.</i> 1982	Y	Y	
BM-2191R	3900±120	Down Farm, Dorset	Fir Tree Field, feature 28. Pit, with fragmentary comb-impressed Beaker pottery	<i>Quercus</i> charcoal >15 years old	-24.3		2860–2030	Treated as tpq for pottery	2860–2810 (2%), 2750–2720 (1%), 2700–2030 (92%)	Barrett <i>et al.</i> 1991	Y	Y	
BM-2325	3870±50	Down Farm, Dorset	Fir Tree Field, feature 31. Pit, with fragmentary comb-impressed Beaker pottery	<i>Quercus</i> charcoal >15 years old	-25.2		2480–2150	Treated as tpq for pottery	2480–2200	Barrett <i>et al.</i> 1991	Y	Y	
BM-2512	3630±50	Chealmy, Strathnaver, Highland	Stone cist with short-necked (N/NR) Beaker	Femur from articulated lower skeleton of male, >25–30 yrs	-20.9		2140–1880		2200–2030	Gourlay 1984	Y	Y	
BM-2513	3640±50	Boysack Mills, Inverkeilor, Angus	Grave covered by stone slab with short necked (N3) Beaker	Femur from articulated skeleton, female 30–35 yrs	-20.4		2200–1880	Sheridan (2007) & Needham (2005) consider date anomalously recent	2200–2030	Murray & Ralston 1997	Y	Y	
BM-2514	3770±50	Fodderty, Dingwall, Highland	Stone cist with short necked (N4) Beaker & six flint flakes	Femur from articulated adult skeleton. Replicate of OxA-V-2172-26	-20.2	3572±27 (with OxA-V-2172-26; T <sup>+</sup> =0.2; T <sup>+</sup> (5%)=3.8; v=1)	2280–2040 (for weighted mean)		2280–2110 (89%), 2100–2050 (6%), for weighted mean	Gourlay & Harden 1985; Sheridan 2007	Y	Y	
BM-2515	3780±60	Bractullo, Letham, Angus	Stone cist with high-shouldered/globular S-profile (N/NR) Beaker, butt end of stone axe, struck flint, disc-shaped quartzite pebble	Femur from articulated adult skeleton	-20.1		2460–2030		2300–2070	Coutts 1971; Sheridan 2007	Y	Y	
BM-2516	3750±50	Shrewton 24, Wilts	Pit 1. Central, primary burial in barrow, with weak carnated (S4) Beaker. Cut by pit 2	Femur from articulated skeleton of adult male.	-20.5		2300–2020		2340–2320 (1%), 2310–2020 (93%), 2000–1980 (1%)	Green & Rollo-Smith 1984	Y	Y	
BM-2517	3560±50	Shrewton 5a, Wilts	Pit 1, interment 1. Primary burial in central grave with short necked (N3) Beaker	Femur & tibia of articulated adult male skeleton	-20.1		2040–1750	Considered poss. too recent by Needham (2005, 195). Unpublished older date obtained by <i>Beaker People Project</i> (Mandy Jay pers. comm.). Not used in articulated inhumation model, excluded from Beaker models		Green & Rollo-Smith 1984			

Lab. No.	Date BP	Site	Context	Sample	$\delta^{13}\text{C}$ (‰)	Weighted mean (BP)	Cal BC (95%)	Comments	Posterior density estimate (95%)	References	Articulated model	Beaker model 1	Beaker model 2
BM-2518	3760±50	Handley Down, Dorset	Flat grave with tall mid carinated (F/N) Beaker	Femur from articulated skeleton of adult male	-19.0		2340-2020		2340-2020	Pitt-Rivers 1898	Y	Y	Y
BM-2519	3390±50	Rotherley, Berwick St John, Wiltshire	Flat grave with tall mid carinated or S-profiled (W/MR) Beaker	Femur from articulated adult skeleton	-20.1		1880-1530	Considered too recent by Needham. Excluded from Beaker models because in poor agreement with them	1890-1660	Pitt-Rivers 1888, 50, pl.92	Y		
BM-2520	3630±60	Barrow Hills ring ditch 201, Oxon	Grave 206. Eccentric to & poss. pre-dating ring ditch. Low belted S-profile (AOC) Beaker & flint flake in one of hollows in base of grave, with sherds of same pot higher in fill	Tibia, fibula & skull frags from incomplete, badly preserved disarticulated skeleton of late adolescent or adult, ?female	-21.8		2200-1780	Treated as contemporary with pot on grounds that burial could have been disturbed & pot dispersed in single event	2200-2160 (2%), 2150-1870 (91%), 1850-1820 (1%), 1800-1780 (1%)	Barclay & Halpin 1999	Y		
BM-2521	3440±50	Smeeton Westerby, Leics	Recovered from pipe trench. Articulated adult skeleton accompanied by mid belted slender S-profile (W/MR) Beaker & Cu alloy awl. It seems possible that the pipeline went through one skeleton and there is evidence from jawbones of a least four individuals' (Rutland 1975)	Femur, tibia & pelvis probably from articulated skeleton of adult	-20.2		1890-1620	Treated as contemporary with pot because it was prob. articulated adult that was dated	1890-1680	Rutland 1975; 1976	Y		
BM-2522	3660±50	Poor's Heath, Flempton, Suffolk (published as Risby)	Burial 2. At centre of barrow, perhaps inserted through primary mound. Accompanied by weak carinated (FN) Beaker	Femur from articulated skeleton of 'elderly' male	-19.7		2200-1890		2200-2170 (4%), 2060-1900 (91%)	Vatcher & Vatcher 1976	Y	Y	Y
BM-2523	3800±50	Cookston, Airtie, Angus	Stone cist with short necked (N2) Beaker & bone button	Femur from badly preserved articulated skeleton	-19.2		2460-2040		2310-2120	Coutts 1971	Y		Y
BM-2524	3730±50	Middle Brighty Farm, Angus	Stone cist with short necked or S-profile (N3) Beaker	Femur from articulated skeleton	-19.4		2290-1970		2280-2050	Sheridan 2007	Y		Y
BM-2525	3590±50	Shrewton 5k, Wiltshire	Pit 2. Grave with mid carinated (S4) Beaker. Cut into top of Pit 1 which contained individual dated by BM-3017	Femur from articulated skeleton of young adult male. Replicate of OxA-V-2228-47	-20.2	3639±25 (with OxA-V-2228-47; T=2.6; T*(5%)=3.8; v=1)	2130-1930 (for weighted mean)		2130-2080 (12%), 2050-1920 (83%; for weighted mean)	Green & Rollock Smith 1984	Y	Y	Y
BM-2590	3700±50	Achavanich, Highland	Rock-cut grave with stone burial cist. Weak carinated (N4) Beaker, ox scapula & struck flint	Femur from articulated skeleton, female 18-22 yrs	-20.2		2280-1940		2280-2250 (3%), 2230-2040 (92%)	Sheridan 2007	Y		Y

Lab. No.	Date BP	Site	Context	Sample	$\delta^{13}C$ (‰)	Weighted mean (BP)	Cal BC (95%)	Comments	Posterior density estimate (95%)	References	Articulated model	Beaker model 1	Beaker model 2
BM-2642	3630±50	Manston Aerodrome, Kent	Grave within ring-ditch. Long necked (S2) Beaker, jet button & flint knife	R femur from articulated adult skeleton	-20.7		2140-1880		2150-1880	Perkins & Gibson 1990	Y	Y	
BM-2643	3360±50	Lambourn, Berks	Partly sarsen-lined flat grave within round barrow cemetery. Long necked (S3) Beaker, bronze awl, flint knife	Long bone from articulated skeleton, male 30-35 yrs	-21.6		1760-1510	Considered poss. too recent by Needham (2005, 198)	1880-1840 (13%), 1830-1660 (82%)	Richards 1990b	Y	Y	
BM-2644	3500±50	The Wig, Bulford, Wilts	Grave with collared (S) Beaker, flint, bronze	Long bone from articulated skeleton	-21.2		1960-1690		1950-1730 (94%), 1720-1690 (1%)	Needham 2005	Y	Y	
BM-2696	3380±50	Barrow Hills pond barrow 4866, Oxon	Grave 4906. Outside pond barrow	Long bone from articulated skeleton, aging female	-21.1		1870-1520		1870-1840 (2%), 1810-1800 (1%), 1780-1520 (92%)	Barclay & Halpin 1999	Y		
BM-2697	3321±50	Barrow Hills pond barrow 4866, Oxon	Grave 4970. Outside pond barrow, with c. 5-year-old child	Long bone from articulated skeleton, female >50 yrs	-20.5		1740-1490		1740-1490	Barclay & Halpin 1999	Y		
BM-2698	3500±50	Barrow Hills pond barrow 4866, Oxon	Grave 4970. Outside pond barrow, with Food Vessel	Long bone from articulated skeleton female c. 30 yrs	-20.1		1960-1690		1950-1690	Barclay & Halpin 1999	Y		
BM-2699	3720±60	Barrow Hills barrow 12, Oxon	Barrow 12 grave 607. Central, primary grave with bronze awl & flint flake. Stratified below OxA-1887	Femur from articulated skeleton of young adult male	-19.4		2300-1940		2210-2030	Barclay & Halpin 1999	Y		
BM-2700	3360±50	Barrow Hills ring ditch 201, Oxon	Grave 203. Central grave, with long necked (S4) Beaker, bronze awl, 5 Green Low barbed & tanged arrowheads, other struck flint prob. all from same nodule, pyrites, bone awl, antler spatula.	Femur from articulated skeleton, male 20-30 yrs	-20.9		1760-1510	Considered poss. too recent by Needham (2005, 198)	1880-1660	Barclay & Halpin 1999	Y	Y	
BM-2702	2930±50	Barrow Hills pond barrow 4583, Oxon	Burial C, 4583/D/1. Near edge of large pit in centre of pond barrow, poss. with pig mandible. Partial skeleton of adult elsewhere in same pit	Femur from articulated skeleton 14-16 yrs	-19.9		1310-990		1410-1220	Barclay & Halpin 1999	Y		
BM-2703	3720±50	Barrow Hills grave 950, Oxon	Grave 950. In coffin with dispersed tall mid carinated (W/MR) Beaker & barbed & tanged arrowhead	Humerus & ulna from disarticulated but substantially complete skeleton, adult male, ?30-35 yrs	-22.1		2290-1960	Treated as contemporary with pot on grounds that burial & vessel could have been buried together & subsequently dispersed	2290-2250 (5%), 2240-1970 (90%)	Barclay & Halpin 1999		Y	

Lab. No.	Date BP	Site	Context	Sample	$\delta^{13}\text{C}$ (‰)	Weighted mean (BP)	Cal BC (95%)	Comments	Posterior density estimate (95%)	References	Articulated model	Beaker model 1	Beaker model 2
BM-2704	3650±50	Barrow Hills grave 4660, Oxon	Grave 4660. Flat grave with low carnated Beaker (E), wing-headed bone pin, Cu knife-dagger, 2 barbed & tanged arrowheads, flint blade & flake	Femur from articulated skeleton, male 40–45 yrs	-21.3		2200–1890	Considered marginally too late by Neecham (2005, 185)	2200–2180 (2%), 2150–1890 (93%)	Barclay & Halpin 1999	Y	Y	
BM-2707	4120±60	Barrow Hills oval barrow, Oxon	Burial 2127. In grave 2126, with burial 2128. Jet or shale belt slider near hip, leaf arrowhead poss. also associated.	Femur & tibia from articulated skeleton, male 30–35 yrs	-19.9		2890–2490	Not used because of poor collagen preservation (Ambers <i>et al.</i> 1999, 331)		Barclay & Halpin 1999			
BM-2708	3860±50	Barrow Hills oval barrow, Oxon	Burial 2128. In grave 2126, with burial 2127. Polished flint blade knife near head.	Long bone from articulated skeleton, female 30–35 yrs	-23.0		2480–2140	Not used because of poor collagen preservation (Ambers <i>et al.</i> 1999, 331)		Barclay & Halpin 1999			
BM-2710	4530±50	Barrow Hills F5355, Oxon	F5355. Flat grave with 3 flint flakes	Femur from articulated skeleton, male 40–45 yrs	-20.1		3490–3020		3370–3080 (94%), 3050–3030 (1%)	Barclay & Halpin 1999	Y		
BM-2711	4020±60	Barrow Hills F942, Oxon	F942. In confined area of 1 of a complex of intercutting pits	Femur & tibia from disarticulated but substantially represented skeleton, male 25–30 yrs	-20.3		2860–2400	Not used because disarticulated		Barclay & Halpin 1999			
BM-2716	4600±70	Barrow Hills F5352, Oxon	F5352, burial A. Most complete of 3 burials in linear mortuary structure, with pig mandible	Long bone from articulated skeleton of adult male	-20.5		3630–3090		3640–3560 (13%), 3540–3350 (82%)	Barclay & Halpin 1999	Y		
BM-2725	3630±60	Nottingham Hill, Ebbsfleet, Kent	Flat grave with globular S-profile (E Ang) Beaker	Skull & femoral frags from articulated skeleton	-21.4		2200–1780		2200–2160 (2%), 2150–1870 (90%), 1850–1820 (2%), 1800–1780 (1%)	Kinnes <i>et al.</i> 1991	Y	Y	
BM-2833	3450±45	Raunds long barrow, Northants	F131. Grave cut into long barrow, wearing shale armband & Cu alloy 'basket' ornament, accompanied by incomplete long necked or globular S-profile (S1P) Beaker, struck flint, disarticulated human bone	Femur & tibia of articulated adult female skeleton	-21.4		1890–1630		1890–1690	Harding & Healy 2007	Y	Y	
BM-2835	4360±45	Gatehampton Farm, Goring Oxon	Ditch F46, context 46/A/5, some way above apparent recut	Articulated skeleton, child, 8–9 yrs	-20.5		3100–2890		3100–2890	T. Allen 1995	Y		

Lab. No.	Date BP	Site	Context	Sample	$\delta^{13}\text{C}$ (‰)	Weighted mean (BP)	Cal BC (95%)	Comments	Posterior density estimate (95%)	References	Articulated model	Beaker model 1	Beaker model 2
BM-2837	3630±45	Coedy-Dinas ring ditch 1, Powys	Localised concentration of charcoal, highly fragmented Beaker sherds (comb-impressed, FN rusticated, some cordoned vessels) & some charred barley, in secondary silts of ring-ditch with 2 opposed causeways	Charcoal ( <i>Populus</i> , <i>Pomoideae</i> , <i>Prunus</i> , <i>Quercus</i> , <i>Corylus</i> , <i>Acer campestre</i> )	-24.6		2140-1880	Treated as tpq for pottery	2140-1890	Gibson 1994		Y	Y
BM-2866	3610±50	Raunds barrow 9, Northants	F741, context 742. Grave with long necked rusticated Beaker	Femora, humeri & tibia from articulated skeleton of child	-21.6		2140-1780		2140-1880 (92%), 1850-1820 (2%), 1800-1780 (1%)	Harding & Healy 2007	Y	Y	Y
BM-2892	3480±60	Shorncote, Gloucs	Grave 1007. Flat grave with frags incomplete weak cinnated (S3) Beaker, flint flake, ribbed bronze bracelet	Articulated skeleton, adolescent 14-16 yrs	-21.2		1960-1630	Considered too recent by Needham, with poss. redeposition of incomplete Beaker (2005, 190)	1950-1690	Barclay & Glass 1995	Y	Y	Y
BM-2898	3640±50	Monkton, Kent	Area 4, grave 751, skeleton 1. Flat grave with 1/3 of a low-bellied S-profile Beaker in front of face, disarticulated remains of female & 2 children piled together at other end of grave, dated by BM-2923	Articulated skeleton of male, 19-22 yrs	-21.8		2200-1880	Incomplete state of Beaker suggests redeposition, perhaps with disarticulated human remains. But BM-2898 and -2923 are statistically consistent ( $T=0.7$ ; $T'(5\%)=3.8$ ; $v=1$ ), so whole deposit may have been generated in short time	2200-2180 (1%), 2150-1880 (94%)	Bennett <i>et al.</i> 2008	Y	Y	Y
BM-2909	3410±35	Norton Bavant Borrow Pit, Wilts	F465, burial 472. Central, primary grave in ring-ditch, with bronze Armonico-British/Camerton-Snowshill dagger, bronze knife, bone belt hook, perforated wheatstone, perforated bone needle or pin, plain accessory cup	Tibia from articulated skeleton of older adult male	-20.9		1870-1620		1880-1840 (5%), 1820-1800 (1%), 1780-1610 (89%)	Butterworth 1992			Y
BM-2920	3140±45	Shorncote, Gloucs	Grave 60. Flat grave outside ring-ditch, with pit containing small amount bone from another individual cut into fill	L tibia from articulated skeleton of adult ?male	-22.5		1500-1310		1510-1310	Barclay & Glass 1995			Y
BM-2921	3050±60	Shorncote, Gloucs	Grave 42. In flat grave outside ring ditch	Femur, humerus & tibia from articulated skeleton of 14-15 yrs	-22.9		1440-1120		1460-1250	Barclay & Glass 1995			Y

Lab. No.	Date BP	Site	Context	Sample	$\delta^{13}\text{C}$ (‰)	Weighted mean (BP)	Cal BC (95%)	Comments	Posterior density estimate (95%)	References	Articulated model	Beaker model 1	Beaker model 2
BM-2923	3700±50	Monkton, Kent	Area 4, grave 751, skeleton 2a. Piled at opposite end of flat grave to articulated skeleton dated by BM-2898	From disarticulated remains of female & 2 children	-21.0		2280-1940	As BM-2898 Treated as contemporary with BM-2898	2280-2250 (2%), 2210-1940 (93%)	BM-2898	Y	Y	
BM-2956	3770±35	Barnack, Cambs	As BM-1412	Articulated skeleton, male 35-45yrs	-22.0		2300-2040		2300-2120 (86%), 2100-2040 (9%)	As BM-1412	Y	Y	
BM-2980	3530±50	Clemson Memorial Hall 1, Lechlade, Gloucs	In flat grave with globular S-profiled (E?) Beaker & much charcoal	From articulated skeleton, male 30-40 yrs	-20.4		2020-1730		2020-1990 (2%), 1980-1740 (93%)	Thomas & Holbrook 1998	Y	Y	
BM-2981	3460±50	Clemson Memorial Hall 2, Lechlade, Gloucs	In flat grave with long necked Beaker, flint flake, Cu alloy awl	From articulated skeleton of child 2-4 yrs	-20.4		1920-1630		1910-1690	As BM-2980	Y	Y	
BM-3011	3430±50	Wetwang Slack, Humber-side, WSP94	With double-bowed S-profile (S3) Beaker	From human skeleton	-22.8		1890-1610		1890-1680	Manby <i>et al.</i> 2003	Y	Y	
BM-3017	3900±40	Shrewton 5k, Wilts	Pit 1. On base of primary grave, surrounded by chalk blocks, with short necked (N2) Beaker, wrapped tanged Cu alloy dagger with bone pommel, engraving on grave side. Stratified below BM-2525	R femur of articulated skeleton adult male. Replicate of OxA-V-2232-37	-20.1	3881±25 (with OxA-V-2232-37; T <sup>+</sup> =0.3; T <sup>+</sup> (S%)=3.8; v=1)	2470-2240 (for weighted mean)	Excluded because collagen content low & in poor agreement with model	2450-2280 (94%), 2250-2230 (1%; for weighted mean)	Green & Roll-Smith 1984	Y	Y	
BM-3028	3360±100	Monkton, Kent	Area 4, grave 537, skeleton 4825. Flat grave with fragmented low-bellied S-profile (S4) Beaker	L femur from eroded long bones, prob. surviving from crouched burial of juvenile	-22.8		1920-1430			Bennett <i>et al.</i> 2008			
BM-3170	4400±50	Eton Rowing Course, Bucks	Crouched burial in shallow pit 5991, alongside hollow containing Early Neolithic midden deposits	Femora from articulated skeleton of infant	-23.2		3330-2900		3330-3210 (15%), 3180-3150 (1%), 3130-2900 (79%)	Ambers & Bowman 2003; Tim Allen (Oxford Archaeology) pers. comm.	Y		
BM-3173	4500±60	Eton Rowing Course, Bucks	Crouched burial in pit 5888, with caprine mandible, pike vertebra, struck flint; alongside hollow containing Early Neolithic midden deposits	R femur & L humerus articulated of adult 30-40 yrs	-21.3		3370-2930		3370-3010	Ambers & Bowman 2003; Tim Allen (Oxford Archaeology) pers. comm.	Y		
CAR-572	3785±85	Collfryn enclosure, Powys	Pit containing Beaker pottery	Unidentified bulk charcoal sample			2480-1960	Treated as tpq for pottery	2470-2010 (94%), 2000-1980 (1%)	Britnell 1982		Y	

Lab. No.	Date BP	Site	Context	Sample	$\delta^{13}\text{C}$ (‰)	Weighted mean (BP)	Cal BC (95%)	Comments	Posterior density estimate (95%)	References	Articulated model	Beaker model 1	Beaker model 2
CAR-600	4125±70	Cefn Caer Euan 1, Gwynedd	Settlement layer sealed beneath kerb circle with stake-holes, sherds from at least 7 FN rusticated vessels, poss. Beakers, & struck flint	The amalgamation of four small concentrations of charcoal ... Mainly oak, with hazel and alder and some birch, rowan and willow?	-25.9		2900–2470	Not used because sherds not definitely Beaker (cf. Kinnes <i>et al.</i> 1991, 64)		Lynch 1986			
CAR-767	4190±70	Four Crosses site 2, Powys	Pit 1. Within area of ploughed-down barrow, containing sherds of comb-impressed, FN rusticated and plain Beaker (1 rusticated vessel cordoned, plain vessel of weak carinated profile), burnt flint flake, charred barley, fired clay	Unidentified bulk charcoal sample. Charcoal from pit described as including oak			2920–2570	3 bulk charcoal dates from this context are statistically inconsistent ( $T^*=26.0$ ; $T^*(5\%)=6$ ; $v=2$ ). Most recent of them (CAR-810) is therefore taken as a tpq for the pottery		Warrilow <i>et al.</i> 1986		Y	
CAR-810	3690±70	Four Crosses site 2, Powys	As CAR-767	As CAR-767			2290–1890	As CAR-767	2290–1890	As CAR-767		Y	
CAR-811	3890±70	Four Crosses site 2, Powys	As CAR-767	As CAR-767			2570–2140	As CAR-767		As CAR-767			
CAR-1193	3610±70	Tandderwen, Denbighshire	Pit 556. Primary burial in multiphase barrow. Plank part of coffin or grave lining for badly preserved adult inhumation with weak carinated (S4) Beaker & flint knife.	Carbonised plank			2200–1760	Treated as tpq for pottery	2200–2170 (1%), 2150–1760 (94%)	Brassil <i>et al.</i> 1991		Y	
GaK-800	3620±50	Chatton Sandryford, Northumberland	From structure on old ground surface below cairn, preceding grave B1 & the succeeding grave B2, each with a globular S-profile (N/NR) Beaker	Charred oak stakes			2140–1880	Treated as tpq for pottery	2140–1870 (94%), 1840–1820 (1%)	Jobey 1968		Y	
GrA-23982	3690±45	Old Rayne recumbent stone circle, Aberdeenshire	Almost certainly from central pit with Beaker sherds (known only from antiquarian description) & fragmentary bracer	Cremented human bone			2210–1940	Not used because association with sherds uncertain		Needham 2005			
GrA-24504	4800±50	Hazleton north, Gloucs, skeleton 1	In entrance to N chambered area of tomb, with flint core underlying R elbow & quartzitic hammerstone E of L knee	From articulated skeleton, male, 30–45 yrs. Replicate of OxA-643, -902	-21.3	4786±39 (with OxA-643, -902; $T^*=2.7$ ; $T^*(5\%)=6.0$ ; $v=2$ )	3650–3380 (for weighted mean)	Other Hazleton samples are listed by Meadows <i>et al.</i> (2007)	3650–3510 (for weighted mean)	Saville 1990; Meadows <i>et al.</i> 2007			Y

Lab. No.	Date BP	Site	Context	Sample	$\delta^{13}\text{C}$ (‰)	Weighted mean (BP)	Cal BC (95%)	Comments	Posterior density estimate (95%)	References	Articulated model	Beaker model 1	Beaker model 2
GrA-26515	3850±40	Dornoch Nursery cist, Highland	Stone cist containing badly preserved inhumation of young adult, cremated remains of another young adult & perhaps (AOC) beaker, 5 barbed & tanged arrowheads, stone bracer, 'strike-a-light', Fe ore nodule	Cremated remains of young adult			2470–2150	Treated as contemporary with pottery	2320–2190 (90%), 2180–2140 (5%)	Ashmore 1989; Sheridan 2007	Y	Y	
GrA-26518	3570±40	West Water Reservoir cist 7, Scottish Borders	With Food Vessel, burnt flint tool & 2 burnt beads. In cist secondary to inhumation with pot described by Sheridan as Beaker/Food Vessel hybrid, but which seems to be Food Vessel (Sheridan 2007, fig. 11.7: 50)	Cremated human bone			2030–1770	Taq for pot with initial burial. Not used because that pot appears more Food Vessel than Beaker					
GrA-26543	3660±40	Achnacreebeag, Argyll & Bute	Among blocking material of Neolithic tomb, with Beaker sherds	Cremated human bone			2200–1920	Not used because association with pottery uncertain					
GrA-29077	3865±32	Borrowstone cist 1, Aberdeen	Stone cist, with short-necked (N3) Beaker. Floor of cist covered with black organic material	Articulated skeleton of subadult female			2470–2200		2330–2200	Sheridan 2007	Y	Y	
GrA-29078	3845±40	Borrowstone cist 2, Aberdeen	Stone cist with short necked (N2) Beaker, 3 flint flakes, 6 pebbles	Articulated skeleton of adult male 40 or more yrs			2470–2140		2320–2190 (89%), 2180–2140 (6%)	Sheridan 2007	Y	Y	
GrA-29079	3750±45	Borrowstone cist 3, Aberdeen	Stone cist with short-necked (N) Beaker, flint knife, quartz pebble, charcoal	From articulated skeleton, male 25–35 yrs			2300–2020		2290–2060	Sheridan 2007	Y	Y	
GrA-29082	3820±40	Borrowstone cist 6, Aberdeen	Stone cist with short-necked (N2) Beaker, bracer, bone belt ring, 5 pieces struck flint, quartz pebble, sinew (?from bow)	From articulated skeleton, male 25–35 yrs. Replicate of GrA-29093			2460–2150 (for weighted mean)	3828±29 (with GrA-29093; T <sup>+</sup> =0.1 T <sup>-</sup> (5%)=3.8; v=1)	2310–2190 (91%), 2170–2140 (4% for weighted mean)	Sheridan 2007	Y	Y	
GrA-29084	3760±45	Manar House, Inverurie, Aberdeenshire	With S-profile or short necked (N2 or N3) Beaker, 11 pieces of struck flint	Articulated skeleton, prob. female 18–25 yrs. Replicate of OxA-V-2172-19			2270–2030 (for weighted mean)	Low collagen, but used because statistically consistent with OxA-V-2172–19	2270–2250 (2%), 2210–2050 (93% for weighted mean)	Shepherd 2005	Y	Y	
GrA-29093	3835±40	Borrowstone cist 6, Aberdeen	As GrA-29082	Replicate of GrA-29082			As GrA-29082	As GrA-29082	As GrA-29082	As GrA-29082	Y	Y	

Lab. No.	Date BP	Site	Context	Sample	$\delta^{13}\text{C}$ (‰)	Weighted mean (BP)	Cal BC (95%)	Comments	Posterior density estimate (95%)	References	Articulated model	Beaker model 1	Beaker model 2
GrA-30170	3410±50	Try, Gulval, Cornwall	Cist under cairn near base of standing stone. Sample overlay handled Beaker on base of cist. 2 Trevisker sherds in fill came from urn more of which was found beyond cist with further cremated bone.	Cremated human bone			1890–1600	Not used because sherds in cist from pot associated with separate cremation suggest that cist disturbed when cremated bone buried, making sample more recent than underlying Beaker	1900–1740	Jones & Quinell 2006; Russell & Pool 1964			
GrN-11358	3495±30	Barrow Bottom, Risby, Suffolk	Primary burial in barrow with 151 jet beads (2 triangular end plates, 1 rectangular spacer plate, 43 biconical, 105 disc), tubular Cu alloy bead, square-sectioned Cu alloy awl, waisted flint tool, flint scraper, Collared Urn or Food Vessel, 2 frags burnt human bone	Articulated skeleton, female 40–45 yrs			1910–1740			Martin 1976b	Y		
GrN-26820	3620±50	Llandegga, henge B, Gwynedd	Pit FB27. Wooden structure(s) or artefact(s) in pit with incomplete Beaker of indeterminate form within henge B. Some of the decoration is quite badly rubbed, indicating a well-used pot	Oak charcoal			2140–1880	Not used because pot, as well as wood, may have been old when deposited		Lynch & Musson 2001			
GrN-28062	3825±25	Bestwall Quarry, Dorset	Pit 128. Pit including frags 2–3 S-profiled (W/MR) Beakers, burnt flint, heathstone, struck flint, fired clay & animal bone	Bulk sample of charred acorns	-24.1	3823±18 (with GrN-28063; T <sup>*</sup> =0.0; T <sup>*</sup> (5%)=3.8; v=1)	2340–2200 (for weighted mean)	Meaned with GrN-28063 because both effectively parts of a single bulk sample. Treated as contemporary with pottery because samples composed entirely of short-lived material & because multiple charred acorns suggest they were placed in pit rather than an accidental inclusion	2340–2200 (for weighted mean)	Needham 2005; Bayliss <i>et al.</i> 2007a		Y	Y
GrN-28063	3820±25	Bestwall Quarry, Dorset	As GrN-28062	Bulk sample of charred acorns, wheat and barley	-24.3	As GrN-28062	As GrN-28062	As GrN-28062	As GrN-28062	As GrN-28062		Y	Y

Lab. No.	Date BP	Site	Context	Sample	$\delta^{13}\text{C}$ (‰)	Weighted mean (BP)	Cal BC (95%)	Comments	Posterior density estimate (95%)	References	Articulated model	Beaker model 1	Beaker model 2
GU-1117	3835±75	Boathbridge Quarry cist 2, S Lanarkshire	Stone cist with short-necked (N1) Beaker	Articulated skeleton of unusually tall adult. Replicate of OxA-V-2168-42	-20.2	3826±30 (with OxA-V-2168-42; $T^*=0.0$ ; $T^*(5\%)=3.8$ ; $v=1$ )	2460-2150 (for weighted mean)	Standard deviation increased from 75 to 110 by P. Ashmore	2310-21909 (90%), 2170-2140 (5%); for weighted mean)	Sheridan 2007	Y	Y	
GU-1121	3505±85	Mains of Balnagowan, Highland	Stone cist with globular S-profile (N/NR) Beaker & flint flake	Femur from articulated skeleton of mature adult male	-20.0		2120-1620	Standard deviation increased from 85 to 120 by P. Ashmore. Sheridan (2007) considers Beaker may show Dutch influence & that date anomalously recent. Excluded because in poor agreement with models	2300-2060	Shepherd <i>et al.</i> 1984			
GU-1122	3725±60	Kearbog cist 1, Aberdeenshire	Recovered from collapsed remains of stone cist at foot of quarry face, with sherds of short necked (N3) Beaker	Femur from skeleton, male at least 35-40 yrs, virtually complete & prob. originally articulated	-20.2		2300-1950	Standard deviation increased to 110 by P. Ashmore	2300-2060	Shepherd & Bruce 1987; Sheridan 2007	Y		
GU-1123	3695±95	Kearbog cist 2, Aberdeenshire	Stone cist with fragmentary, probably long necked (N3) Beaker & scale flaked flint knife	Tibia from articulated skeleton young adult male. Replicate of OxA-V-2172-22	-21.3		2440-1780	Standard deviation increased from 95 to 135 by P. Ashmore. GU-1123 and OxA-V-2172-22 statistically inconsistent if original standard deviation for GU-1123 used ( $T^*=4.8$ ; $T^*(5\%)=3.8$ ; $v=1$ ), consistent if increased one used ( $T^*=2.3$ ; $T^*(5\%)=3.8$ ; $v=1$ ). But this mean in poor agreement with models, as is OxA-V-2172-22 if used alone. OxA-V-2172-22 is therefore excluded	2290-2050	Shepherd & Bruce 1987; Sheridan 2007	Y		

Lab. No.	Date BP	Site	Context	Sample	$\delta^{13}C$ (‰)	Weighted mean (BP)	Cal BC (95%)	Comments	Posterior density estimate (95%)	References	Articulated model	Beaker model 1	Beaker model 2
GU-1356	3720±80	Ruchlaw Mains, E Lothian	In stone cist with short necked (N2) Beaker	From articulated skeleton of adult, prob. male. Replicate of OxA-V-2167-42	-19.7	3806±36 (with OxA-V-2167-42; T <sup>1</sup> =1.4; T <sup>1</sup> (5%)=3.8; v=1)	2410–2130 (for weighted mean)	Standard deviation increased from 80 to 110 by P. Ashmore	2300–2140 (for weighted mean)	Ashmore <i>et al.</i> 1982; Sheridan 2007		Y	Y
GU-1408	3660±85	Dryburn Bridge, cist 2, E Lothian	As AA-53715	R femur of articulated adult male 45–60 yrs. Replicate of AA-53715, SUERC-4078	-20.6	3741±33 (with SUERC-4078; T <sup>1</sup> =1.1; T <sup>1</sup> (5%)=3.8; v=1)	2280–2030 (for weighted mean)	Standard deviation increased from 85 to 120 by P. Ashmore	2280–2250 (5%), 2230–2250 (90%); for weighted mean	As AA-53715	Y	Y	Y
GU-1409	3765±80	Dryburn Bridge, cist 2, E Lothian	As AA-53716	Tibiae, child 6–8 yrs incomplete and disarticulated. Replicate of AA-53716, SUERC-4079	-23.1	3727±33 (with GU-1409; T <sup>1</sup> =0.3; T <sup>1</sup> (5%)=3.8; v=1)	2280–2030 (for weighted mean)	Standard deviation increased from 80 to 110 by P. Ashmore. Disarticulated burial 11 treated as tpq for articulated burial 10	2280–2250 (3%), 2210–2040 (92%); for weighted mean	As AA-53716	Y	Y	Y
GU-2100	3650±50	Sandhole, Fetterangus, Aberdeenshire	Stone cist with short necked (N1/D or N/NR) Beaker, flint flake	Articulated skeleton of young adult male. Replicate of OxA-2172-23	-21.6		2200–1890	Dates on this individual statistically inconsistent (T <sup>1</sup> =10.7; T <sup>1</sup> (5%)=3.8; v=1). GU-2100 is excluded on grounds that OxA-V-2172-23, being more recently measured, is probably the more accurate of the two		Ralston 1996			
GU-2169	3710±70	Tavelly Farm, Kintore, Aberdeenshire	Stone cist with short necked (N2) Beaker, Cu dagger, 2 barbed & tanged arrowheads, 4 other pieces of struck flint	Skeleton of young, prob. male adult	-17.9		2300–1910		2290–2050	Ralston 1996		Y	
GU-3527	3870±50	Machrie north site 24/3, Arran, N Ayrshire	Pit containing sherds from 6 pots, prob. Beaker	<i>Corylus</i> and <i>Alnus</i> charcoal	-28.1		2480–2150	Not used because of uncertain identification of pottery		Barber 1997; Sheridan 2007			
GU-5342	3440±60	Little Duke Farm, Cambus	Context 46. Grave cut through primary mound, with V-perforated jet bead or button, 3 jet beads, polished pig tusk, green stain. Phase 2.2	Articulated skeleton young adult female. Replicate of GU-5343		3456±52 (with GU-5343; T <sup>1</sup> =0.3; T <sup>1</sup> (5%)=3.8; v=1)	1920–1630 (for weighted mean)		1900–1630 (for weighted mean)	French 1994			Y

Lab. No.	Date BP	Site	Context	Sample	$\delta^{13}C$ (‰)	Weighted mean (BP)	Cal BC (95%)	Comments	Posterior density estimate (95%)	References	Articulated model	Beaker model 1	Beaker model 2
GU-5343	3500±100	Little Duke Farm, Cambs	As GU-5342	Replicate of GU-5342		As GU-5342	As GU-5342	As GU-5342	As GU-5342	As GU-5342	Y		
GU-5344	3350±70	Little Duke Farm, Cambs	Context 74. Grave set into trench removing part of post trench surrounding first mound. Phase 2.3	Articulated skeleton of adult male		3367±46 (with GU-5345; T <sup>+</sup> =0.1; T <sup>+</sup> (5%)=3.8; v=1)	1760-1520 (for weighted mean)	1760-1520 (for weighted mean)	1760-1520 (for weighted mean)	French 1994	Y		
GU-5345	3380±60	Little Duke Farm, Cambs	As GU-5344	Replicate of GU-5344		As GU-5344	As GU-5344	As GU-5344	As GU-5344	As GU-5344	Y		
GU-5355	3540±60	Little Duke Farm, Cambs	Context 483. Central pre-mound inhumation, with plano-convex knife, surrounded by stake circles. Phase 1	Articulated skeleton, child 3-5 yrs. Replicate of GU-5358		3558±39 (with GU-5358; T <sup>+</sup> =0.1; T <sup>+</sup> (5%)=3.8; v=1)	2030-1770 (for weighted mean)	2030-1770 (for weighted mean)	2030-1770 (for weighted mean)	French 1994	Y		
GU-5358	3570±50	Little Duke Farm, Cambs	As GU-5355	Replicate of GU-5355		As GU-5355	As GU-5355	As GU-5355	As GU-5355	As GU-5355	Y		
GU-5571	3540±60	Feltwell Anchor, Norfolk	Feature 67. Buried in grave cut into burnt mound, in plank-built coffin with flint scraper	From articulated skeleton, female mid-late 20s. Replicate of GU-5572		3617±39 (with GU-5572; T <sup>+</sup> =2.8; T <sup>+</sup> (5%)=3.8; v=1)	2130-1880 (for weighted mean)	2130-2080 (5%), 2050-1880 (90%) for weighted mean	2130-2080 (5%), 2050-1880 (90%) for weighted mean	Bates & Wiltshire 2000	Y		
GU-5572	3670±50	Feltwell Anchor, Norfolk	As GU-5571	Replicate of GU-5571		As GU-5571	As GU-5571	As GU-5571	As GU-5571	As GU-5571	Y		
GU-5573	3720±80	Feltwell Anchor, Norfolk	Context 6. Burnt mound, overlying soil which contained 12 sherds of FN-rusticated Beaker pottery	<i>Alnus</i> charcoal		As GU-5571	2410-1890	Treated as contemporary with context and taq for Beaker sherds because the charcoal is from wood burnt during the generation of the mound & because alder in the mound was from relatively young stems	2350-1900	Bates & Wiltshire 2000	Y	Y	
GU-5574	3770±50	Feltwell Anchor, Norfolk	As GU-5573	Alder charcoal		As GU-5573	2350-2030	As GU-5573	2340-2030	As GU-5573	Y	Y	Y
GU-7204	4210±90	Chapelfield, Cowie, pit 4, Stirling	Pit with indeterminate Beaker sherds	Oak charcoal	-27.1	As GU-5573	3020-2500	Treated as tpq for pottery	3030-2560 (94%), 2530-2490 (1%)	Atkinson 2002	Y	Y	Y

Lab. No.	Date BP	Site	Context	Sample	$\delta^{13}C$ (‰)	Weighted mean (BP)	Cal BC (95%)	Comments	Posterior density estimate (95%)	References	Articulated model	Beaker model 1	Beaker model 2
HAR-340	3670±80	Little Pond Ground, Bucks	Central, primary grave within ring-ditch, with tall mid carinated or weak carinated Beaker (E or E.Ang), Cu alloy awl, flint flake	Articulated skeleton, elderly female	20.0		2290–1820		2300–1870 (93%), 1850–1820 (1%), 1800–1780 (1%)	Green 1974	Y	Y	
HAR-341	2990±80	Warren Farm, Buckinghamshire	Under limestone cairn in already silted ring-ditch	Articulated skeleton, female 20–35 yrs	21.2		1430–990		1460–1220	Green 1974	Y		
HAR-803	3500±70	Bremig 51, Powys	Layer 7. Trodden into occupation layer beneath clay bank of first phase of platform cairn. Highly fragmented comb-impressed, incised & rusticated Beaker sherds from same context, reserve decoration & plastic rustication suggest stylistically late	<i>Betula</i> , <i>Quercus</i> , <i>Corylus</i> and <i>Crataegus</i> charcoal	-26.0		2030–1630	Treated as tpq for pottery	2030–1660	Lynch 1993		Y	
HAR-1448	3480±80	Callis Wold 275, Humberside	As BM-1168	As BM-1168	-25.8	As BM-1168	2030–1610	As BM-1168	As BM-1168	As BM-1168		Y	
HAR-1645	3570±80	Barnack, Cambs	As BM-1412	Replicate of BM-1412	-24.8	As BM-1412	As BM-1412	As BM-1412	As BM-1412	As BM-1412			
HAR-1893	3310±90	Berrybrae, Aberdenshire	From plank overlying short-necked (N3) Beaker. Replicate of HAR-1894	Unidentified charcoal from plank overlying Beaker in enclosed cremation cemetery post-dating recumbant stone circle	-25.2	3389±60 (with HAR-1849; T=1.3; T'(5%)=3.8; v=1)	1880–1520 (for weighted mean)	Standard deviation increased from 90 to 125 by P. Ashmore. Excluded because in poor agreement with model		Shepherd 1986			
HAR-1894	3450±80	Berrybrae, Aberdenshire	Replicate of HAR-1893	As HAR-1893	-25.4	As HAR-1893	As HAR-1893	Standard deviation increased from 80 to 110 by Patrick Ashmore.		Shepherd 1986			
HAR-2892	3490±90	Poldownian, Cornwall	Layer 8. Tightly packed stones forming base of ovoid mound. Struck flint & c. 100 Beaker sherds in gabbroic fabrics from perhaps 5 pots scattered through mound. Pots include 1 S-profiled, cordoned vessel. Most sherds comb-impressed with simple horizontal lines.	Bulk sample of unidentified charcoal		3410±56 (with HAR-3107; T=1.3; T'(5%)=3.8; v=1)	1890–1530 (for weighted mean)	Meaned with HAR-3107 because the two are effectively subsamples of same bulk sample. Treated as tpq for pottery	1890–1670 (for weighted mean)	Jones & Quinell 2006; Harris 1979		Y	

Lab. No.	Date BP	Site	Context	Sample	$\delta^{13}C$ (‰)	Weighted mean (BP)	Cal BC (95%)	Comments	Posterior density estimate (95%)	References	Articulated model	Beaker model 1	Beaker model 2
HAR-2998	3540±70	Hemp Knoll, Wilts	Central primary burial of articulated skeleton, male 35-45 yrs with short necked (W/MR) Beaker, stone bracer, bone belt ring.	Bulk sample from large pieces oak charcoal perhaps forming 3-sided structure around NW end of coffin, at bottom of primary grave (Robertson-Mackay 1980, 140, 147). Replicate of NPL-139	3583±63 (with NPL-139; T=1.8; T'(5%)=3.8; v=1)	2140-1750 (for weighted mean)	Considered poss. too recent by Needham (2005, 195). Not used because in poor agreement with OxA-V-2271-34, measured on articulated skeleton from grave.	Robertson-Mackay 1980					
HAR-3000	3760±90	Ravenstone, Bucks	Grave RA V10. Cut into burial-less primary grave. Containing articulated skeleton, female 30-40 yrs with linear spread oak charcoal (plank?) near heels, with variant low carinated collared (S2) Beaker with comb-impressed reserve geometric decoration, Cu alloy awl, V-perforated shale button, struck flint	Oak charcoal (mature) from possible plank	-26.3	2470-1920	Treated as tpq for burial and pot	2470-1950	D. Allen 1981				Y
HAR-3064	3720±80	Condicote henge, Gloucs	Area 3, F16, layer 9A. Deposit above primary infill of inner henge ditch of animal bone, charcoal, & > 50 small body sherds, 4 of them rusticated	Pomoioideae & <i>Corylus</i> or <i>Alnus</i> charcoal from mature timbers	-28.0	2410-1890	Not used because pottery not certainly Beaker	Saville 1983					
HAR-3107	3360±70	Poldowrian, Cornwall	As HAR-2892	As HAR-2892		As HAR-2892	As HAR-2892	As HAR-2892	As HAR-2892	As HAR-2892			Y
HAR-3269	3810±80	Trowse, Norfolk	Pit I. Overlying or in upper fill of prob. grave containing long-necked (S4) Beaker & cutting earlier prob. grave which contained tall mid carinated Beaker (E) & FN rusticated Beaker	<i>Quercus</i> & some Pomoioideae charcoal (mature), poss. from squared timber	-25.6	2480-2020	Pace Needham (2005) this measurement relates to P1 in the original report, not to P3. Treated as tpq for pot	2480-2030	Healy 1982				Y
HAR-3630	3530±70	Bowthorpe, Norfolk	Grave 92. Grave cut by outer barrow ditch, 2 flint flakes & short necked (S4) Beaker in coffin. Worn, incomplete condition of Beaker suggests it might have been old when buried (Lawson 1986, 47)	Charcoal from poss. revetment or post in grave, rather than from coffin	-28.1	2040-1680	Not used because of uncertainty as to relation of sample to burial & possibility of redeposition of pot		A. Lawson 1986				

Lab. No.	Date BP	Site	Context	Sample	$\delta^{13}\text{C}$ (‰)	Weighted mean (BP)	Cal BC (95%)	Comments	Posterior density estimate (95%)	References	Articulated model	Beaker model 1	Beaker model 2
HAR-3850	3850±100	Wetwang, Humberside, WY9	In grave fill with short necked or S-profile (N2) Beaker	Unidentified bulk charcoal sample			2580–2020	Treated as tpq for burial & pot	2580–2020	Manby <i>et al.</i> 2003		Y	
HAR-3880	3520±70	Waterhall Farm 'barrow A', Chippenharn, Cambs	In grave in natural hillock. Sherds of long necked (S2) Beaker dispersed through fill. 1 Cu & 1 coal bead also present	From multiple burial of at least 5 individuals, in varying states of (dis)articulation	-23.1		2040–1680	Not used because of uncertainty as to association of pot & sample		Martin 1976a			
HAR-3883	4870±70	Park Farm barrow, Berks	Burial 3, context 27. 1 of 3 inhumations in irregular penannular slot under remnant sarsen cairn which might originally have been covered by a barrow	Articulated skeleton, male c. 40 yrs	-23.4		3800–3520		3700–3510	Richards 1990b	Y		
HAR-3884	4780±70	Park Farm barrow, Berks	Burial 2, context 26. As HAR-3883	Articulated skeleton, female c. 35 yrs	-23.0		3700–3370		3660–3490 (86%), 3470–3380 (9%)	As HAR-3883	Y		
HAR-3898	4800±90	Park Farm barrow, Berks	Burial 1, context 25. As HAR-3883	Articulated skeleton, ?male adolescent c. 16 yrs	-22.2		3770–3360		3670–3390	As HAR-3883	Y		
HAR-4399	3520±80	Exning, Suffolk	Skeleton 3. Buried in flat grave with 5 juveniles & an infant	Articulated skeleton, male 35–45 yrs			2120–1630		2040–1630	Martin & Denston 1986	Y		
HAR-4426	3900±100	Wetwang Slack, Humberside, burial 1	With long necked (S2) Beaker	<i>Quercus</i> charcoal (mature)			2840–2040	Treated as tpq for pot and burial	2840–2810 (1%), 2670–2120 (93%), 2100–2040 (2%)	Dent 1983; Manby <i>et al.</i> 2003	Y		
HAR-4636	3540±70	Beeston with Bittering site 15995, Norfolk	Pit 2. 1 of 7–8 pits, 4 of which, inc. pits 2 & 3, contained Beaker sherds with incised reserve geometric decoration & heavy plastic rustication, struck flint, burnt flint & charcoal	Unidentified bulk charcoal sample			2120–1690	Treated as tpq for pottery	2120–2090 (2%), 2040–1700 (93%)	Wymer 1996		Y	
HAR-4637	3790±80	Beeston with Bittering site 15995, Norfolk	Pit 3, layer 4. As HAR-4637	As HAR-4637			2480–1970	As HAR-4637	2470–2020 (94%), 1990–1980 (1%)	As HAR-4637		Y	
HAR-4673	4450±100	Mount Farm, Berinsfield, Oxon	Grave F602. Primary burial at centre of oval ring ditch F602 (c. 12 m x 10 m), with flint knife and blades	Articulated skeleton of adult male. Replicate of OxA-15748			3500–2880	OxA-15748 & HAR-4683 statistically inconsistent (T*=6.8; T*(5%)=3.8; v=1). OxA-15748 is taken as prob. accurate because measured more recently		Bayliss <i>et al.</i> 2008			

Lab. No.	Date BP	Site	Context	Sample	$\delta^{13}\text{C}$ (‰)	Weighted mean (BP)	Cal BC (95%)	Comments	Posterior density estimate (95%)	References	Articulated model	Beaker model 1	Beaker model 2
HAR-4792	3710±110	Mount Farm, Bernsfield, Oxon	Grave F618. Secondary burial with tall mid carinated (FN) Beaker, 2 perforated boar tusks. Stratified above HAR-4673, OxA-15748	From articulated skeleton of adult male. Replicate of OxA-15747		3805±33 (with OxA-15747; T <sup>1</sup> =0.8; T <sup>1</sup> (S%)=3.8; v=1)	2350–2140 (for weighted mean)		2410–2380 (2%); 2350–2130 (93%); (for weighted mean)	Bayliss <i>et al.</i> 2008	Y	Y	Y
HAR-4932	4670±110	Whitegrounds, Burythorpe, N Yorks	Burial 3. Central grave cut into linear zone & covered by round mound, with jet belt slider & Seamer flint axe	Articulated skeleton, male 25–30 yrs. Replicate of HAR-5507	-22.3	4789±26 (with HAR-5507; T <sup>1</sup> =0.1; T <sup>1</sup> (S%)=3.8; v=1)	3650–3520 (for weighted mean)		3500–3430 (21%); 3410–3080 (5%); 3070–3020 (69%); (for weighted mean)	Brewster 1984; inf. Seren Griffiths from English Heritage files	Y		
HAR-5124	3530±80	Balksbury, Haits	Burial 2286. Flat grave with Maritime-derived low carinated (W/MR?) Beaker	Articulated skeleton, female 15–20 yrs			2130–1660	Considered too recent by Needham (2005, 185)	2120–2090 (2%); 2050–1690 (93%)	Wainwright & Davies 1995	Y	Y	
HAR-5469	3630±90	Kiln Combe, E Sussex	Layers 5 & 6. Palaeosol sealed by later palaeosol & colluvial sequence. 10 x 2 m area incorporated >40 sherds of comb-impressed & FN Beaker pottery, with a little Peterborough Ware & Food Vessel	Bulk charcoal sample			2280–1740	Measured on Harwell small counter. Not used because of possibility of small charcoal frags moving down sequence & of extended use of palaeosol		Bell 1983			
HAR-5499	3710±100	Roughground Farm, Lechlade, Gloucs	F1260. Pit containing numerous sherds of comb-impressed, rusticated & plain Beaker, some prob. from S-profiled forms, fired clay, lithics	Unspecified animal bone sample. Bone from pit described as 2 frags cattle, 1 pig	-22.6		2470–1830	Treated as tpq for pottery	2460–1880	T. Allen <i>et al.</i> 1993		Y	
HAR-5507	4480±90	Whitegrounds, Burythorpe, N Yorks	As HAR-4932	Replicate of HAR-4932	-22.2	As HAR-4932	As HAR-4932		As HAR-4932	As HAR-4932	Y		
HAR-5542	3550±80	North Marden, W Sussex	Ditch segment 4, context 25. Patch of ashy loam in upper ditch fill, containing burnt flint & bone & Beaker sherds (Drewett 1986, 33, 42, fig. 5). In pottery report, however, sherds are from context 400 ( <i>ibid.</i> , 36)	Charcoal: 1 g <i>Fraxinus</i> sp., 2 g <i>Ulex</i> sp., 6 g <i>Quercus</i> sp.			2140–1680	Not used because of doubt about association with sherds		Drewett 1986			

Lab. No.	Date BP	Site	Context	Sample	$\delta^{13}\text{C}$ (‰)	Weighted mean (BP)	Cal BC (95%)	Comments	Posterior density estimate (95%)	References	Articulated model	Beaker model 1	Beaker model 2
HAR-6630	3510±80	West Hesterton barrow 1R	Grave IR270. Central primary burial. Bones of dated individual stacked disarticulated at W end; articulated skeleton of 12–14 yr old in E & centre, with mid-bellied slender S-profile (N/NR)	Disarticulated skeleton of mature adult male, lacking small bones		2040–1630	Treated as tpq for articulated burial & pot	2040–1690	Powlesland 1986		Y		
HAR-8154	3830±90	Clacton 1 (Jaywick), Essex	Pit context 1, fill context 5. Containing Beaker sherds including substantial part of globular, prob. S-profiled (E Ang) vessel, struck flint, animal bone	Bulk sample of unidentified charcoal		2570–2020	Treated as tpq for pottery	2570–2530 (2%), 2500–2030 (93%)	Wilkinson & Murphy 1995		Y		
HAR-8547	3460±80	Brean Down, Somerset	Pit discovered on foreshore after gale in 1936, with 2 S-profile (E & FN) Beakers. Sample dated in 1980s.	Unidentified bulk charcoal sample		2020–1530	Treated as tpq for pottery. Bell's (1990, 26) suggestion that charcoal may not have been assoc. with pots seems based only on lateness of date	2010–2000 (1%), 1980–1680 (94%)	Bell 1990, 26; Clarke 1970, figs 112, 113		Y		
HAR-9156	3560±90	Brean Down, Somerset	Unit 7, context 188. Distinct thin charcoal band containing Beaker sherds & struck flint, within sand layer immediately overlying palaeosol	Charcoal: <i>Eurogymus europaeus</i> , <i>Pomoideae</i> , <i>Prunus</i> cf. <i>spinosa</i> and unidentified		2200–1680	Treated as contemporary with sherds because all identified taxa in sample short-lived. Further measurements from underlying palaeosol not used because material clearly accumulated over long period (Bell 1990, 24)	2140–1700	Bell 1990		Y		
HAR-9158	4490±70	Flagstones, Dorchester, Dorset	Enclosure, segment 19. On ditch base, beneath stone	Articulated skeleton, child 2–3 yrs	-23.0	3490–2920		3370–3000 (91%), 2990–2930 (4%)	Healy 1997		Y		
HAR-9159	3560±70	Flagstones, Dorchester, Dorset	Grave 430. In centre of ring-ditch, itself central to Neolithic enclosure. Cu alloy rivet in layer overlying skeleton	Articulated skeleton of young adult-male	-24.1	2140–1690		2130–2080 (2%), 2060–1730 (92%), 1720–1690 (1%)	Healy 1997		Y		
HAR-9160	3200±90	Middle Farm, Dorchester, Dorset	Burial 3421. 1 of 3 tightly contacted inhumations at interface of 2 fills in linear boundary ditch	Articulated skeleton of adult male		1690–1260		1690–1310	Smith <i>et al.</i> 1997		Y		

Lab. No.	Date BP	Site	Context	Sample	$\delta^{13}\text{C}$ (‰)	Weighted mean (BP)	Cal BC (95%)	Comments	Posterior density estimate (95%)	References	Articulated model	Beaker model 1	Beaker model 2
HAR-9244	3690±80	Wetwang, Humberside, WY8	With shallow, S-profile (N/NR) Beaker	Charcoal of coffin. Replicate of HAR-9245, -9247		3710±50 (with HAR-9245, -9247; $T^*=0.4$ ; $T^*(5\%)=6.0$ ; $v=2$ )	2280–1950 (for weighted mean)	Treated as tpq for pot	2280–2250 (3%), 2230–1950 (92% for weighted mean)	Manby <i>et al.</i> 2003	Y	Y	
HAR-9245	3680±100	Wetwang, Humberside, WY8	As HAR-9244	As HAR-9244		As HAR-9244	As HAR-9244 (9244)	As HAR-9244	As HAR-9244	As HAR-9244	Y	Y	
HAR-9247	3750±80	Wetwang, Humberside, WY8	As HAR-9244	As HAR-9244		As HAR-9244	As HAR-9244 (9244)	As HAR-9244	As HAR-9244	As HAR-9244	Y	Y	
HAR-9662	3810±120	Alington Avenue, Dorset	Grave 127. 1 of 3 burials cut into silted ditch of more easterly of two conjoined ring-ditches	Femur from articulated skeleton, male 25–35 yrs			2580–1910		2190–1870 (93%), 1840–1820 (1%), 1790–1780 (1%)	Davies <i>et al.</i> 2002	Y		
KIA-25326	3732±27	Ferry Fryston, N Yorks	2245. In flat grave, with incomplete long necked (S1) Beaker, Cu alloy dagger, amber belt rings, stone bracer, flint knife & borer	From articulated skeleton, male 40–50 yrs			2210–2030		2210–2030	Brown <i>et al.</i> 2007	Y	Y	
N-1240	3390±90	Knockenny, Glamis, Angus	Stone cist with short necked (N3) Beaker	From articulated skeleton			1930–1460	Standard deviation inc. to 125 by P. Ashmore. Sheridan (2007) considers date anomalously late. Excluded because in poor agreement with model		Boyd 1965; Courtts 1971			
NPI-139	3750±140	Hemp Knoll, Wilts	As HAR-2998	Replicate of HAR-2998		As HAR-2998	As HAR-2998 (2998)	As HAR-2998	As HAR-2998	As HAR-2998			
NZA-15665	3834±45	Spring Road, Abington, Oxon	In flat grave with Cu awl & flint flake	From articulated skeleton, female 20–24 yrs. Replicate of NZA-15866, OxA-12100		3850±21 (with OxA-12100, NZA-15866; $T^*=0.3$ ; $T^*(5\%)=6.0$ ; $v=2$ )	2460–2200 (for weighted mean)		2440–2200 (for weighted mean)	T. Allen & Kamash 2008	Y		
NZA-15866	3841±40	Spring Road, Abington, Oxon	As NZA-15665	Replicate of NZA-15865, OxA-12100		As NZA-15665	As NZA-15665 (15665)	As NZA-15665	As NZA-15665	As NZA-15665	Y		

Lab. No.	Date BP	Site	Context	Sample	$\delta^{13}\text{C}$ (‰)	Weighted mean (BP)	Cal BC (95%)	Comments	Posterior density estimate (95%)	References	Articulated model	Beaker model 1	Beaker model 2
NZA-16621	3561±55	Gene Function Centre, Oxford	Burial 113. In grave within & eccentric to barrow ditch	R femur from articulated skeleton of adult female			2040–1740		2040–1740	Boston <i>et al.</i> 2003	Y		
NZA-16622	3555±55	Gene Function Centre, Oxford	Burial 126. In grave within & eccentric to barrow ditch	R & L femora & tibiae from articulated skeleton of child			2040–1740		2040–1740	Boston <i>et al.</i> 2003	Y		
NZA-16623	3623±60	Gene Function Centre, Oxford	Burial 137. In grave within & eccentric to barrow ditch	R humerus & radius from articulated skeleton of adult female			2200–1780		2140–1870 (92%), 1850–1820 (2%), 1800–1780 (1%)	Boston <i>et al.</i> 2003	Y		
NZA-16624	3792±60	Gene Function Centre, Oxford	Burial 204. In grave within & eccentric to barrow ditch, with low carinated (S4) Beaker & struck flint	L femur & tibia from articulated skeleton of adult female			2470–2030		2410–2030	Boston <i>et al.</i> 2003	Y	Y	Y
NZA-23745	3856±30	Thomas Hardy School enclosure 1004, Dorset	Grave 1643. Within enclosure 1004, crouched, probably in coffin or chamber. Mid carinated (W/MR or N/MR) Beaker, tanged Cu alloy dagger, 3 barbed & tanged arrowheads, stone bracer, perforated bone object	L femur of articulated subadult/adult male	-20.9		2470–2200		2440–2200	Gardiner <i>et al.</i> 2007	Y	Y	Y
NZA-23746	3789±30	Thomas Hardy School ring ditch 1005, Dorset	Grave 1605. Central to ring-ditch 1005, flexed legs & part of pelvis <i>in situ</i> , remainder disturbed by later cut. Low-bellied S-profile (W/MR) Beaker, flat riveted Cu alloy dagger	L femur of articulated adult male, prob. <45 yrs	-21.0		2300–2130		2340–2320 (1%), 2310–2130 (94%)	Gardiner <i>et al.</i> 2007	Y	Y	Y
NZA-23747	3689±35	Thomas Hardy School, outside barrow 1006, Dorset	Grave 1444. c. 1 m outside ditch of barrow 1006 on NE side	R femur of articulated female 20–35 yrs			2200–1960		2140–1960	Gardiner <i>et al.</i> 2007	Y		
NZA-29534	3878±20	N of Wilsford G1, Wilts	In oval grave with tall mid-bellied S-profile Beaker & bone belt-ring	Articulated skeleton, male 23–27 yrs			2470–2280		2450–2280	Matt Leivers (Wessex Archaeology) pers. comm.	Y	Y	Y
OxA-450	4700±80	West Kennet long barrow, Wilts	In primary deposit in NE chamber with leaf arrowhead at neck	Articulated skeleton of adult male. Replicate of OxA-12282	-19.0 (assumed)	4805±29 (with OxA-12282; T <sup>1</sup> =1.9; T <sup>1</sup> (S <sup>1</sup> )=3.8; v=1)	3650–3520 (for weighted mean)		3650–3620 (20%), 3600–3520 (70%; for weighted mean)	Piggott 1962; Bayliss <i>et al.</i> 2007b	Y		

Lab. No.	Date BP	Site	Context	Sample	$\delta^{13}\text{C}$ (‰)	Weighted mean (BP)	Cal BC (95%)	Comments	Posterior density estimate (95%)	References	Articulated model	Beaker model 1	Beaker model 2
OxA-643	4600±120	Hazleton north, Gloucs, skeleton 1	As GrA-24504	Femur from articulated skeleton, male 30–45 yrs. Replicate of OxA-902, GrA-24504	-19.0 (assumed)	As GrA-24504	As GrA-24504	As GrA-24504	As GrA-24504	As GrA-24504	Y		
OxA-902	4820±70	Hazleton north, Gloucs, skeleton 1	As GrA-24504	Femur from articulated skeleton, male 30–45 yrs. Replicate of OxA-643, GrA-24504	-19.0 (assumed)	As GrA-24504	As GrA-24504	As GrA-24504	As GrA-24504	As GrA-24504	Y		
OxA-1072	3740±80	Chilbolton, Hants	Primary burial in chamber with low carinated Beaker (Maritime-derived) 4 Au 'basket' ornaments, Au bead, tanged Cu alloy dagger, 55 stone beads, 'strike-a-light', pyrite, antler spatula, flint flakes. Stratified below OxA-1073	Partly disarticulated but substantially complete skeleton of male, probably in late 20s, replicate of OxA-V-2271-35			2460–1920	OxA-1072 and OxA-V-2271–35 are statistically inconsistent ( $T^2=5.0$ ; $T^2(5\%)=3.8$ ; $v=1$ ). OxA-V-2271–35 taken as the more accurate, since it was measured more recently. OxA-1072 not used in any model		Russel 1990			
OxA-1073	3780±80	Chilbolton, Hants	Secondary burial in same chamber as skeleton dated by OxA-1072, with S-profile (FN) Beaker. Stratified above OxA-1072	Articulated skeleton male, probably in mid-40s			2470–1970		2430–2110 (94%), 2000–1970 (1%)	Russel 1990	Y	Y	
OxA-1148	4810±80	Maiden Castle inner ditch, Dorset	Trench I. Context 215 (sub-division of 140). In top of rubble layer overlying initial fine silts (Sharples 1991a, fig. 51 – skull of this skeleton is shown at the SW (left) end of the section, but is not labelled)	Articulated skeleton, child 3–4 yrs			3760–3370		3680–3490 (88%), 3470–3380 (7%)	Sharples 1991	Y		
OxA-1874	3930±80	Barrow Hills grave 919, Oxon	Grave 919. Flat grave with contracted child burial accompanied by small weak carinated Beaker, bone disc, 2 Cu rings. Poss. disturbed by burial dated by OxA-1875, but relationship uncertain	Radius & skull from articulated skeleton, child 4–5 yrs	-21.00 (estimated)		2630–2150		2460–2190 (93%), 2170–2140 (2%)	Barclay & Halpin 1999	Y	Y	

Lab. No.	Date BP	Site	Context	Sample	$\delta^{13}\text{C}$ (‰)	Weighted mean (BP)	Cal BC (95%)	Comments	Posterior density estimate (95%)	References	Articulated model	Beaker model 1	Beaker model 2
OxA-1875	3990±80	Barrow Hills grave 919, Oxon	Grave 919. Flat grave with bones of neonate placed with small amount of cremated bone from 2–3 yr old child in low carinated Beaker. Poss. disturbing burial dated by OxA-1874, but relationship uncertain	Ribs & humerus from bones of neonate	-21.00 (estimated)		2860–2280		2460–2200	Barclay & Halpin 1999	Y	Y	
OxA-1882	4650±80	Barrow Hills F5354, Oxon	F5354. In flat grave with flint flake	From articulated skeleton, child 10–12 yrs	-21.0 (estimated)		3640–3110		3540–3260 (75%), 3250–3090 (20%)	Barclay & Halpin 1999	Y		
OxA-1884	3670±80	Barrow Hills barrow 12, Oxon	Grave 605/B. Placed immediately above cremation in grave 605/A, with Food Vessel	Humerus & skull from articulated upper body, child c. 1 yr	-21.0 (estimated)		2290–1820		2150–1870 (93%), 1850–1820 (1%), 1800–1780 (1%)	Barclay & Halpin 1999	Y		
OxA-1903	3480±80	Barrow Hills pond barrow 4866, Oxon	Grave 5274. Outside pond barrow with 3 flakes, atypical chisel arrowhead, 2 knives	Long bone & skull frags from articulated skeleton, child 4–6 yrs	-21.0 (estimated)		2030–1610		2030–1610	Barclay & Halpin 1999	Y		
OxA-2321	4210±110	Flagstones, Dorchester, Dorset	Enclosure, segment 14, pit 363. Cut into primary chalk rubble fills	Articulated skeleton, child 10–12 yrs	-23.0		3090–2480		3330–3230 (3%), 3180–3160 (1%), 3120–2680 (91%)	Healy 1997	Y		
OxA-2403	4745±70	Windmill Hill outer bank, Wilts	Outer Bank V, Trench BB. Lying on minimal amount of chalk silt on base of grave cut through pre-bank soil, with a single flint flake. Sections (Whittle <i>et al.</i> 1999, fig. 70; Smith 1965a, fig. 4) suggest grave was at tail of clearly-bedded W part of bank, not necessarily covered by it. It may thus post-date digging of ditch	Human. Rib from articulated skeleton of adult male	-22.5		3660–3360		3650–3390	Whittle <i>et al.</i> 1999	Y		
OxA-3120	3680±100	Raunds barrow 5, Northants	Barrow 5, pit F47168. Pit containing animal bone inc. cattle skull, cut through at least first phase of barrow mound into underlying feature, which contained crushed, slightly dispersed tall mid carinated (W/MR) Beaker, & 5 scattered barbed & tanged arrowheads	Disarticulated tibia of large artiodactyl. Replicate of OxA-7950	-22.9	3633±38 (with OxA-7905; T <sup>+</sup> =0.3; T <sup>+</sup> (5%)=3.8; v=1)	2140–1890 (for weighted mean)	Excluded because of uncertain taphonomy: although buried after the Beaker, the disarticulated sample could already have been old		Harding & Healy 2007			

Lab. No.	Date BP	Site	Context	Sample	$\delta^{13}\text{C}$ (‰)	Weighted mean (BP)	Cal BC (95%)	Comments	Posterior density estimate (95%)	References	Articulated model	Beaker model 1	Beaker model 2
OxA-3814	3929±90	Riversdale, Cardiff	Stone cist with long necked Beaker, flint flake, bronze awl	Articulated skeleton, female <30 yrs old			2840–2140	Excluded for reasons explained in the text.		K. Brassil & S. Burrow (National Museum & Gallery of Wales) pers. comm.			
OxA-4061	4645±85	Staines Rd Farm, Shepperton, Surrey	Either on base of ring-ditch or in grave cut through initial silts but below phase D recut or secondary fills	Articulated skeleton, female 30–40 yrs	-21.0 (assumed)		3640–3100		3640–3390 (94%), 3380–3370 (1%)	Jones 2008	Y		
OxA-4290	3500±100	'Shippea Hill man', Littleport, Cambs	Found in peat during drain digging	Femur from articulated skeleton of adult male	-20.2	3523±65 (with OxA-4291; T <sup>+</sup> =0.1; T <sup>-</sup> (5%)=3.8; v=1)	2030–1680 (for weighted mean)		2030–1690 (for weighted mean)	Roberts 1998	Y		
OxA-4291	3540±85	'Shippea Hill man', Littleport, Cambs	As OxA-4290	Replicate of OxA-4290	-20.2	As OxA-4290	As OxA-4290		As OxA-4290	As OxA-4290	Y		
OxA-4355	3785±90	Barrow Hills barrow 3, Oxon	In central grave with flat riveted bronze dagger	Articulated skeleton of aging prob. male adult	-21.6		2480–1950		2450–1970	Barclay & Halpin 1999	Y		
OxA-4356	3880±90	Barrow Hills barrow 4A, Oxon	Central grave in small ring-ditch. With 2 Au 'basket' ornaments, low carinated (E) Beaker, 3 barbed & tanged arrowheads	Femur from articulated skeleton, male 25–35 yrs	-21.4		2580–2040		2450–2130 (93%), 2090–2050 (2%)	Barclay & Halpin 1999	Y	Y	
OxA-4358	3660±90	Barrow Hills barrow 17, Oxon	Pit 1. One of 2 eccentric pits within barrow ditch	Femur of articulated skeleton of adult male	-20.9		2300–1770		2150–1860 (88%), 1850–1770 (7%)	Barclay & Halpin 1999	Y		
OxA-4553	4530±120	Willington, Beds	Prone & crouched with modified red deer antler at one side of ovoid grave surrounded by a square ditch. Broken chert flake & crumbs of indeterminate pottery in the fill	Articulated skeleton of young adult female	-22.3		3640–2900		3490–2910	Dawson 1996	Y		
OxA-4886	3960±60	Stonehenge, Wilts	As BM-1582	Replicate of BM-1582, OxA-5044, -5045, -5046	-21.2	As BM-1582	As BM-1582		As BM-1582	As BM-1582	Y		
OxA-5044	3785±70	Stonehenge, Wilts	As BM-1582	Replicate of BM-1582, OxA-4886, -5045, -5046	-20.7	As BM-1582	As BM-1582		As BM-1582	As BM-1582	Y		
OxA-5045	3825±60	Stonehenge, Wilts	As BM-1582	Replicate of BM-1582, OxA-4886, -5044, -5046	-20.6	As BM-1582	As BM-1582		As BM-1582	As BM-1582	Y		

Lab. No.	Date BP	Site	Context	Sample	$\delta^{13}\text{C}$ (‰)	Weighted mean (BP)	Cal BC (95%)	Comments	Posterior density estimate (95%)	References	Articulated model	Beaker model 1	Beaker model 2
OxA-5046	3775±55	Stonchenge, Wilts	As BM-1582	Replicate of BM-1582, OxA-4886, -5044, -5045	-20.6	As BM-1582	As BM-1582		As BM-1582	As BM-1582	Y		
OxA-5543	3645±45	Raunds barrow 9, Northants	F727. Central grave, in coffin or chamber	Femur, tibia & fibula (R+L) from articulated skeleton adult male. Replicate of OxA-5544	-21.4	3688±35 (with OxA-5544; T'=2.2; T'(5%)=3.8; v=1)	2200-1950 (for weighted mean)		2140-1960 (for weighted mean)	Harding & Healy 2007	Y		
OxA-5544	3750±55	Raunds barrow 9, Northants	As OxA-5543	As OxA-5543	-21.1	As OxA-5543	As OxA-5543		As OxA-5543	As OxA-5543	Y		
OxA-5545	3690±40	Raunds barrow 9, Northants	F729. Peripheral grave within double-ditched barrow	Femur, tibia & fibula (R+L) from articulated child skeleton. Replicate of OxA-5546	-21.4	3657±30 (with OxA-5546; T'=1.5; T'(5%)=3.8; v=1)	2210-1940 (for weighted mean)		2130-1940 (for weighted mean)	Harding & Healy 2007	Y		
OxA-5546	3615±45	Raunds barrow 9, Northants	As OxA-5545	Replicate of OxA-5545	-21.1	As OxA-5545	As OxA-5545		As OxA-5545	As OxA-5545	Y		
OxA-5547	3495±40	Raunds barrow 9, Northants	F725. Peripheral grave within double-ditched barrow, so shallow as to suggest that it may have been cut through the mound	Femur, tibia, radius, ulna & humerus (R+L) from articulated skeleton, child. Replicate of OxA-5548	-21.7	3496±35 (with OxA-5548; T'=0.0; T'(5%)=3.8; v=1)	1930-1690 (for weighted mean)		1920-1730 (94%), 1710-1700 (1%, for weighted mean)	Harding & Healy 2007	Y		
OxA-5548	3500±70	Raunds barrow 9, Northants	As OxA-5547	Replicate of OxA-5547	-21.6	As OxA-5547	As OxA-5547		As OxA-5547	As OxA-5547	Y		
OxA-5549	3665±45	Raunds long barrow, Northants	F130. In grave cut into long barrow	Femur, tibia, fibula & pelvis articulated adult ?male skeleton	-20.9	As OxA-5549	2200-1910		2140-1920	Harding & Healy 2007	Y		
OxA-6173	3910±60	Lockington, Leics	F5. In pit on line of palisade surrounding barrow ditch, with 2 Au armlets, inverted lower parts of 2 rusticated Beakers of uncertain form	Traces of wooden scabbard on Cu Quimperlé type dagger. Replicate of OxA-6447	-32.0		2570-2200	Not used because of strong possibility of curation of some or all of contents of deposit.		Hughes 2000			
OxA-6447	3630±55	Lockington, Leics	As OxA-6173	Replicate of OxA-6173	-23.5		2200-1880			As OxA-6173			

Lab. No.	Date BP	Site	Context	Sample	$\delta^{13}\text{C}$ (‰)	Weighted mean (BP)	Cal BC (95%)	Comments	Posterior density estimate (95%)	References	Articulated model	Beaker model 1	Beaker model 2
OxA-7039	4550±60	Hambledon Hill main enclosure, Dorset	Segment 17, quadrant b. Grave cut into segment butt, probably when the ditch was already silted. Child buried with 2 carved chalk lumps behind head under slabs of tabular flint	R femur from articulated burial, young juvenile. Replicate of OxA-7040	-20.8	4558±43 (with OxA-7040; $T^*=0.0$ ; $T^*(5\%)=3.8$ ; $v=1$ )	3500–3100 (for weighted mean)	3520–3430 (83%), 3380–3330 (12%); for weighted mean	Mercer & Healy 2008	Y			
OxA-7040	4565±60	Hambledon Hill main enclosure, Dorset	As OxA-7039	Replicate of OxA-7039	-20.7	As OxA-7039	As OxA-7039	As OxA-7039	As OxA-7039		Y		
OxA-7044	4560±55	Hambledon Hill inner Stepleton outwork, Dorset	Segment 7, quadrant 4, layer 4. Prone in chalk rubble with leaf arrowhead in chest area	L femur of articulated older sub-adult/young adult male. Replicate of OxA-7045	-20.7	4599±41 (with OxA-7045; $T^*=1.1$ ; $T^*(5\%)=3.8$ ; $v=1$ )	3500–3130 (for weighted mean)	3520–3420 (88%), 3380–3340 (7%); for weighted mean	Mercer & Healy 2008	Y			
OxA-7045	4645±60	Hambledon Hill inner Stepleton outwork, Dorset	As OxA-7044	Replicate of OxA-7044	-20.5	As OxA-7044	As OxA-7044	As OxA-7044	As OxA-7044		Y		
OxA-7101	4815±35	Hambledon Hill inner Stepleton outwork, Dorset	Segment 9, sector 1, ditch base. In natural cleft at the outer angle of segment butt	R femur of articulated human neonate	-20.8		3660–3520	3660–3620 (26%), 3610–3520 (69%)	Mercer & Healy 2008	Y			
OxA-7768	4810±45	Hambledon Hill main enclosure, Dorset	Segment 18, quadrant 2d. Burial cut into base of shallow sub-segment, covered by flint cairn. With 3 tubular bone beads in head area, 1 made from tibia of large bird, & a flint flake in front of hands	Femur from articulated young adult male. Replicate of OxA-7769	-21.6	4803±34 (with OxA-7769; $T^*=0.0$ ; $T^*(5\%)=3.8$ ; $v=1$ )	3640–3500 (for weighted mean)	3650–3620 (20%), 3610–3520 (75%); for weighted mean	Mercer & Healy 2008	Y			
OxA-7769	4795±50	Hambledon Hill main enclosure, Dorset	As OxA-7768	Replicate of OxA-7768	-21.2	As OxA-7768	As OxA-7768	As OxA-7768	As OxA-7768		Y		
OxA-7818	4715±40	Hambledon Hill Stepleton spur, Dorset	Area 4B, F712. In pit outside Stepleton enclosure. Crouched on layer of ashy grey silt, with arc of flint nodules and Old Red Sandstone quern frag. around hips & feet; sherds at least 2 pots, struck flint, charred hazelnuts, charcoal, burnt chalks, burnt clay	R femur of articulated young adult male. Replicate of UB-4311	-20.3	4711±20 (with UB-4311; $T^*=0.0$ ; $T^*(5\%)=3.8$ ; $v=1$ )	3630–3370 (for weighted mean)	3630–3580 (36%), 3540–3490 (35%), 3460–3380 (24%); for weighted mean	Mercer & Healy 2008	Y			
OxA-7835	4855±45	Hambledon Hill inner Stepleton outwork, Dorset	Area 2A F200. Tightly crouched in ploughed-down scoop in protected chalk of inner outwork bank	R femur articulated older adult, possibly male	-20.4		3710–3530	3690–3620 (42%), 3600–3520 (53%)	Mercer & Healy 2008	Y			

Lab. No.	Date BP	Site	Context	Sample	$\delta^{13}\text{C}$ (‰)	Weighted mean (BP)	Cal BC (95%)	Comments	Posterior density estimate (95%)	References	Articulated model	Beaker model 1	Beaker model 2
OxA-7836	4695±40	Hambleton Hill Stepleton spur, Dorset	Area 1A, F70. Crouched in a pit in centre of the Stepleton enclosure	L femur of articulated older infant/young juvenile	-21.2		3640-3360		3640-3560 (29%), 3540-3380 (66%)	Mercer & Healy 2008	Y		
OxA-7849	3050±45	Hambleton Hill, Stepleton spur, Dorset	ST82 F16. In pit outside Stepleton enclosure	R femur from articulated skeleton mature/older adult male	-21.2		1430-1130		1430-1260	Mercer & Healy 2008	Y		
OxA-7899	4395±65	Lambourn long barrow, Berks	Crouched with 2 perforated, polished whelk shells at wrists. Exposed in limited excavation at head of mound in what appeared to be a rough cist within a sarsen setting on pre-mound surface.	Cranium from largely articulated skeleton, female c. 40 yrs.	-21.2		3340-2890	Prob. inserted in barrow after construction because date more recent than those for primary contexts in ditches (Schulting 2000)	3340-3210 (19%), 3190-3150 (4%), 3140-2890 (72%)	Wymer 1966; Schulting 2000	Y		
OxA-7950	3625±40	Raunds barrow 5, Northants	As OxA-3120	Replicate of OxA-3120	-21.3	As OxA-3120	As OxA-3120	As OxA-3120		As OxA-3120			
OxA-8035	4585±50	Monkton up Wimborne, Dorset	Burial of a woman & three children in grave cut into floor of large pit in which there was also a deep central shaft & chalk platform, the whole surrounded by a ring of smaller pits (Green 2000, 77-84; French <i>et al.</i> 2007, 112-21)	Human. L femur of articulated adult female	-21.2	As OxA-3120	3510-3100		3500-3420 (13%), 3410-3400 (1%), 3390-3260 (42%), 3250-3100 (39%)	French <i>et al.</i> 2007	Y		
OxA-8791	3420±45	Hermitage Farm barrow, Haddenham, Cambs	F296, context 2174. Dump of gravel primary to round barrow (Evans & Hodder 2006, 40-3, 54-8)	Bone from articulated infant skeleton	-20.0		1890-1610		1880-1620	Evans & Hodder 2006	Y		
OxA-8817	4155±45	Eton Rowing Course, Bucks	Recovered during contractor's excavations below water table in palaeochannel of Thames. No. of bones recovered suggest that body was complete when it entered the water	Substantially represented skeleton, prob. male c. 21 yrs			2890-2570	Not used because not certainly articulated		Tim Allen (Oxford Archaeology) pers. comm.			
OxA-10254	3932±35	Abbey Mains Farm, East Lothian	In stone cist with short necked Beaker & leg of pork	Articulated skeleton, prob. female 17-25 yrs			2570-2290	Deleted by ORAU. Not used		J. Lawson & Henderson 1999; J. Lawson 2001; Sheridan 2007			

Lab. No.	Date BP	Site	Context	Sample	$\delta^{13}\text{C}$ (‰)	Weighted mean (BP)	Cal BC (95%)	Comments	Posterior density estimate (95%)	References	Articulated model	Beaker model 1	Beaker model 2
OxA-11243	3932±35	Broomend of Crichtie, cist 2, Aberdeenshire	Cist 2. Stone cist containing 2 skeletons, under organic covering, with 2 short necked (N2) Beakers, the larger containing a horn spoon, 2 flint flakes	One of two articulated adult male skeletons			2570-2290	Deleted by ORAU. Not used		Davidson 1868; Sheridan 2007			
OxA-12100	3861±29	Spring Road, Abingdon, Oxon	As NZA-15665	Replicate of NZA-15665, -15866		As NZA-15665	As NZA-15665		As NZA-15665		Y		
OxA-12132	3711±28	West Heslerton grave 2BA217, N Yorks	In flat grave within hengiform enclosure & close to 2 barrows, with long necked (S1) Beaker & jet button	Articulated skeleton of adult male			2200-2020		2200-2020	Haughton & Powlesland 1999	Y	Y	Y
OxA-12282	4819±30	West Kennet long barrow, Wilts	As OxA-450	Replicate of OxA-450	-20.2	As OxA-450	As OxA-450		As OxA-450		Y		
OxA-12492	3888±36	Bestwall Quarry, Dorset	Beneath sherds of single long necked (S1) Beaker, beneath a hearthstone	Single carbonised barley grain	-23.2		2480-2210	Treated as tpq for overlying pottery	2480-2280 (92%), 2250-2230 (2%), 2220-2210 (1%)	Bayliss <i>et al.</i> 2007a	Y	Y	Y
OxA-12882	3580±130	Bestwall Quarry, Dorset	T568. Lower fill of boundary ditch	Carbonised residue on FN rusticated Beaker sherd	-27.3		2300-1610	Treated as contemporary with pottery	2290-1690	Bayliss <i>et al.</i> 2007a	Y	Y	Y
OxA-13098	3770±33	Lesmurdie, cist B, Moray	Cist B. Stone cist with short necked (N3) Beaker, 'three chips of flint' & pyrite	Articulated skeleton, prob. male 40-60 yrs			2300-2040		2290-2120 (94%), 2090-2070 (1%)	Robertson 1854; Sheridan 2007	Y	Y	Y
OxA-13213	3816±29	Fyrish, Highland	Stone cist with short necked (N4) Beaker & stone bracer	Skull from articulated adult skeleton			2400-2140		2300-2190 (87%), 2180-2140 (8%)	Sheridan 2007	Y	Y	Y
OxA-13214	3720±35	Broomend of Crichtie, cist 1, Aberdeenshire	Cist 1. In stone cist with 2 short necked (N2 and N3) Beakers, 2 flint knives, bone belt ring	Mandible from 1 of 2 articulated adult male skeletons, distinct individual to OxA-V-2166-34			2270-2020		2270-2260 (1%), 2210-2040 (94%)	Chalmers 1868; Dunwell 2007; Sheridan 2007	Y	Y	Y
OxA-13215	3605±37	Balfarg Henge, Fife	F.X1. Slab-covered pit within henge monument, with tub-like handled (SH) Beaker with incised geometric decoration & flint knife	Badly preserved skeleton of young adult ?male			2120-1880	In poor agreement with models (A=21 in model 1, A=18 in model 2)	2150-2010	Mercer 1981	Y	Y	Y
OxA-13513	3797±31	Juniper Green, Edinburgh	Stone cist with long necked (N3) Beaker	Dentine from articulated skeleton			2340-2130		2290-2140	Sheridan 2007	Y	Y	Y
OxA-13514	3806±30	West Fenton, Drem, E Lothian	Stone cist with short necked (N3) Beaker	Dentine from articulated skeleton, adolescent 10-12 yrs, all but skull badly decayed			2350-2140		2300-2140	Childe <i>et al.</i> 1944; Sheridan 2007	Y	Y	Y

Lab. No.	Date BP	Site	Context	Sample	$\delta^{13}\text{C}$ (‰)	Weighted mean (BP)	Cal BC (95%)	Comments	Posterior density estimate (95%)	References	Articulated model	Beaker model 1	Beaker model 2
OxA-13540	3877±33	Boscombe Down West 1, Wilts	Grave with individual dated by OxA-13541 & 5 low carinated (AOC) Beakers, 2 Au 'basket' ornaments, 2 stone bracers, bone pin, 3 Cu alloy knives, 16 barbed & tanged arrowheads, other struck flint	Boar tusk		2470–2200	Treated as contemporary with burial because this & date for 2nd boar's tusk from the grave are statistically consistent with that for the skeleton (T*=0.5; T*(5%)=6.0; v=2)	2450–2270 (87%), 2260–2200 (8%)	Pollard & Healy 2008; Fitzpatrick 2011		Y	Y	
OxA-13541	3895±32	Boscombe Down West 1, Wilts	Grave with 5 low carinated (AOC) Beakers, 2 Au 'basket' ornaments, 2 stone bracers, bone pin, boar tusks, 3 Cu alloy knives, 16 barbed & tanged arrowheads, other struck flint	Articulated skeleton, male 35–40 yrs		2480–2280		2450–2280 (94%), 2250–2230 (1%)	Pollard & Healy 2008; Fitzpatrick 2011		Y	Y	
OxA-13542	3955±33	Boscombe Down Lower Camp, Wilts	Grave with articulated adult male & disarticulated remains of 4 other individuals & cremated remains of child. At least 8 Beakers, inc. low carinated & S-profiled forms (AOC), 5 barbed & tanged arrowheads, other struck flint, boar tusk, bone toggle	Disarticulated human bone		2570–2340	Treated, with other disarticulated human bone, as tpq for articulated burial dated by OxA-13624 because disarticulated individuals would have died before articulated one	2570–2340	Pollard & Healy 2008; Fitzpatrick 2011		Y	Y	
OxA-13543	3822±33	Boscombe Down Lower Camp, Wilts	As OxA-13542	As OxA-13542		2460–2140	As OxA-13542	2460–2370 (10%), 2360–2190 (80%), 2180–2140 (5%)	As OxA-13542		Y	Y	
OxA-13562	3852±38	Boscombe Down West 2, Wilts	In grave with 2 Au 'basket' ornaments	Articulated skeleton, male 25–30 yrs		2470–2200		2450–2200	Pollard & Healy 2008; Fitzpatrick 2011	Y			
OxA-13598	3889±32	Boscombe Down Lower Camp, Wilts	As OxA-13542	As OxA-13542		2480–2230	As OxA-13542	2480–2280 (94%), 2250–2240 (1%)	Pollard & Healy 2008; Fitzpatrick 2011		Y	Y	
OxA-13599	3681±30	Boscombe Down Lower Camp, Wilts	As OxA-13542	As OxA-13542		2200–1960	As OxA-13542	2200–2180 (2%), 2150–1970 (93%)	As OxA-13542		Y	Y	
OxA-13623	3866±28	Boscombe Down West 1, Wilts	As OxA-13540	Boar tusk		2470–2200	As OxA-13540	2440–2270 (85%), 2260–2200 (10%)	As OxA-13540		Y	Y	
OxA-13624	3845±27	Boscombe Down Lower Camp, Wilts	As OxA-13542	Articulated skeleton, male 30–45 yrs		2470–2200		2410–2200	Pollard & Healy 2008; Fitzpatrick 2011		Y	Y	

Lab. No.	Date BP	Site	Context	Sample	$\delta^{13}\text{C}$ (‰)	Weighted mean (BP)	Cal BC (95%)	Comments	Posterior density estimate (95%)	References	Articulated model	Beaker model 1	Beaker model 2
OxA-13660	3794±26	Thurston Mains, E. Lothian	Skeleton 2. Stone cist with further skeleton, short necked (N3) Beaker & flint knife	Dentine from 1 of 2 articulated skeletons, both female < 35 yrs, distinct individual from OxA-13097			2300–2140		2290–2140	Stevenson 1940; Sheridan 2007		Y	Y
OxA-13681	3825±30	Boscombe Down Lower Camp, Wilts	As OxA-13542	Disarticulated human bone			2460–2140	As OxA-13542	2460–2370 (9%), 2360–2190 (83%), 2170–2140 (3%)	As OxA-13542		Y	Y
OxA-14722	3879±32	Sorisdale, Coll, Argyll & Bute	As BM-1413	Replicate of BM-1413		As BM-1413	As BM-1413	As BM-1413	As BM-1413	As BM-1413		Y	Y
OxA-15056	3856±29	Broomend of Crichtie, cist 2, Aberdeenshire	Cist 2. Stone cist containing 2 skeletons, under organic covering, with 2 short necked (N2) Beakers, the larger containing a horn spoon, 2 flint flakes	From either adult male or child skeleton, both articulated.			2470–2200	Considered poss. too early by Needham (2005, 195)	2320–2200	Davidson 1868; Sheridan 2007		Y	Y
OxA-15747	3814±34	Mount Farm, Berinsfield, Oxon	As HAR-4792	R tibia from articulated skeleton of adult male. Replicate of HAR-4792	-20.9±0.3	As HAR-4792	As HAR-4792		As HAR-4792	As HAR-4792	Y	Y	Y
OxA-15748	4738±35	Mount Farm, Berinsfield, Oxon	As HAR-4673	From I. femur of articulated skeleton, adult male. Replicate of HAR-4673	-20.9±0.3		3640–3370	As HAR-4673	3610–3490 (15%), 3460–3370 (80%)	As HAR-4673			Y
OxA-15785	3372±38	Mount Farm, Berinsfield, Oxon	Secondary burial within round barrow, in grave with miniature Middle Bronze Age urn	From articulated skeleton of neonate	-21±0.3		1750–1530	Low gelatin yield & low target current on AMS. Not used		Bayliss <i>et al.</i> 2008			
OxA-15786	3359±32	Mount Farm, Berinsfield, Oxon	Secondary burial in grave within round barrow	From articulated skeleton, child 8yrs	-19.8		1750–1530		1740–1600 (83%), 1590–1530 (12%)	Bayliss <i>et al.</i> 2008	Y		
OxA-16163	3625±40	Cheviot Quarry, Northumberland	F102, context 1055. Tertiary fill of pit with a little charcoal & charred hazelnut (Johnson & Waddington 2008, 115, 120)	Carbonised residue on interior of sherd from largely complete plain long-necked Beaker (Johnson & Waddington 2008, 212, illus. 4: pot 1)	-25.8		2140–1880	Treated as contemporary with pottery. Measurable carbon very low (480 micrograms)	2140–2080 (12%), 2060–1880 (83%)	Bayliss <i>et al.</i> 2008; Johnson & Waddington 2008		Y	Y

Lab. No.	Date BP	Site	Context	Sample	$\delta^{13}\text{C}$ (‰)	Weighted mean (BP)	Cal BC (95%)	Comments	Posterior density estimate (95%)	References	Articulated model	Beaker model 1	Beaker model 2
OxA-16491	3780±38	Abbey Mains Farm, East Lothian	Stone cist with short necked Beaker & a leg of pork	Articulated skeleton, prob. female 17–25 yrs. Replicate of OxA-V-2199-26		3776±25 (with OxA-V2199-26; T=0.0; T'(5%)=3.8; v=1)	2290–2130 (for weighted mean)		2290–2130 (for weighted mean)	J. Lawson & Henderson 1999; J. Lawson 2001; Sheridan 2007	Y	Y	
OxA-20184	3830±29	Kings Hill north, Cirencester, Glouce	Grave at centre of slightly oval ring ditch, with low-bellied S-profile Beaker. Cattle head & hooves in upper fill	Articulated skeleton of adult female		2460–2150			2410–2190 (93%), 2170–2150 (2%)	David Mullin (Oxford archaeology) pers. comm.	Y	Y	
OxA-20186	3718±29	Kings Hill north, Cirencester, Glouce	Apparently flat grave with incomplete long necked Beaker	Articulated skeleton of adult male		2210–2020			2200–2030	David Mullin (Oxford Archaeology) pers. comm.	Y	Y	
OxA-V-2164-39	3846±29	Skateraw, 1958 cist, E Lothian	In stone cist with short necked (N3) Beaker	Articulated adult skeleton. Replicate of SUERC-2865		3821±23 (with SUERC-2865; T=1.8; T'(5%)=3.8; v=1)	2350–2150 (for weighted mean)		2300–2190 (93%), 2170–2150 (2%; for weighted mean)	Cruden 1958	Y	Y	
OxA-V-2166-34	3835±33	Broomend of Criche, cist 1, Aberdeenshire	Cist 1. In stone cist with 2 short necked (N2 and N3) Beakers, 2 flint knives, bone belt ring	1 of 2 articulated adult male skeletons, distinct individual to OxA-13214			2470–2150		2320–2190 (90%), 2170–2140 (5%)	Chalmers 1868; Sheridan 2007	Y	Y	
OxA-V-2166-41	3743±33	Holm Mains Farm cist 1, Highland	In stone cist with S-profile (N/NR or N2) Beaker, 2 barbed & tanged arrowheads, other struck flint	Articulated skeleton, prob. male 26–35 yrs			2280–2030		2280–2250 (6%), 2230–2050 (89%)	Sheridan 2007	Y	Y	
OxA-V-2166-42	3755±32	Holm Mains Farm cist 2, Highland	Stone cist with short necked (N2/N3) Beaker	Articulated skeleton, prob. female 17–25 yrs			2290–2030		2290–2110 (90%), 2100–2060 (5%)	Sheridan 2007	Y	Y	
OxA-V-2166-44	3770±31	Upper mains, Catterline, Aberdeenshire	Stone cist with short-necked (N4) Beaker & quartzite frag.	From articulated skeleton, prob. female 36–45 yrs			2290–2040		2290–2120 (94%), 2080–2070 (1%)	Sheridan 2007	Y	Y	
OxA-V-2167-42	3826±39	Ruchlaw Mains, E Lothian	As GU-1356	Replicate of GU-1356		As GU-1356	As GU-1356		As GU-1356	As GU-1356	Y	Y	
OxA-V-2168-42	3824±32	Boatbridge Quarry cist 2, S Lanarkshire	As GU-1117	Replicate of GU-1117		As GU-1117	As GU-1117		As GU-1117	As GU-1117	Y	Y	

Lab. No.	Date BP	Site	Context	Sample	$\delta^{13}\text{C}$ (‰)	Weighted mean (BP)	Cal BC (95%)	Comments	Posterior density estimate (95%)	References	Articulated model	Beaker model 1	Beaker model 2
OxA-V-2172-14	3769±32	Park Quarry, Durris, Aberdeenshire	Cist 1. Stone cist with short-necked (N/NR or N2) Beaker, 7 pieces struck flint, perforated stone disc	Articulated skeleton, prob. male 26–35 yrs			2290–2040		2290–2120 (94%), 2090–2070 (1%)	Sheridan 2007	Y	Y	Y
OxA-V-2172-18	3715±32	Keir, Belhelvie, Aberdeenshire	Stone cist with 3 short necked (N3, N4, N4) Beakers	Articulated skeleton, prob. female 17–25 yrs			2210–2020		2270–2050	Sheridan 2007	Y	Y	Y
OxA-V-2172-19	3725±33	Manar House, Inverurie, Aberdeenshire	As GrA-29084	Replicate of GrA-29084		As GrA-29084	As GrA-29084		As GrA-29084	As GrA-29084	Y	Y	Y
OxA-V-2172-20	3677±31	Newlands Farm 1, Oyne, Aberdeenshire	Stone cist with short necked (N3) Beaker	Articulated skeleton of adult prob. male			2200–1950		2200–2170 (7%), 2150–2040 (88%)	Sheridan 2007	Y	Y	Y
OxA-V-2172-22	3910±33	Keabog cist 2, Aberdeenshire	As GU-1123	Articulated skeleton of young adult male. Replicate of GU-1123			2480–2290	As GU-1123		As GU-1123			
OxA-V-2172-23	3845±32	Sandhole, Fetterangus, Aberdeenshire	As GU-2100	Replicate of GU-2100			2470–2200	As GU-2100	2320–2190 (94%), 2170–2150 (1%)	As GU-2100	Y	Y	Y
OxA-V-2172-25	3686±32	Stoneywood cist 1, Newhills, Aberdeen	With low carinated (N2) Beaker	Articulated skeleton, prob. female 36–45 yrs			2200–1960		2200–2160 (11%), 2150–2040 (84%)	Sheridan 2007	Y	Y	Y
OxA-V-2172-26	3745±32	Fodderty, Dingwall, Highland	As BM-2514	Replicate of BM-2514		As BM-2514	As BM-2514		As BM-2514	As BM-2514	Y	Y	Y
OxA-V-2172-27	3534±31	Lochend, Highland	Stone cist with short necked (N3) Beaker & flint nodule	Articulated skeleton, prob. male 17–25 yrs			1950–1750	Excluded because in poor agreement with models		Sheridan 2007	Y	Y	Y
OxA-V-2172-31	3803±32	Slap, Turriff, Aberdeenshire	In cist with undecorated S-profile Beaker	Skeleton of 16–25 year old			2350–2130		2300–2140		Y	Y	Y
OxA-V-2199-26	3773±31	Abbey Mains Farm, East Lothian	As OxA-16491	Articulated skeleton, prob. female 17–25 yrs. Replicate of OxA-16491		As OxA-16491	As OxA-16491		As OxA-16491	As OxA-16491	Y	Y	Y
OxA-V-2199-40	3627±30	Garton Slack 163, Yorkshire, Burial 2	Grave C. Double grave, with long necked (N3) Beaker, bone pin, 3 flint flakes, polished flint knife or small axehead, scale-flaked knife	Articulated skeleton of adult			2130–1890		2130–2090 (7%), 2050–1900 (88%)	Mortimer 1905	Y	Y	Y

Lab. No.	Date BP	Site	Context	Sample	$\delta^{13}\text{C}$ (‰)	Weighted mean (BP)	Cal BC (95%)	Comments	Posterior density estimate (95%)	References	Articulated model	Beaker model 1	Beaker model 2
OxA-V-2199-44	3795±32	Aldro 116, N Yorks, Burial 3	Grave C. With 3 other burials, & with low carinated (AOC) Beaker 'east of the head'	Articulated 'mutilated' remains of small middle-aged individual'. Plan shows upper body intact			2340–2130	Clarke's drawing (1970, fig. 28) shows quite sharp carination. Mortimer's (1905, fig. 100) shows a more rounded profile	2340–2130	Mortimer 1905	Y	Y	Y
OxA-V-2228-40	3734±30	Roundway G8, Wilts	Primary burial in grave under round barrow, with low carinated (W/MR) Beaker, Cu racquet pin, Cu tanged dagger, stone bracer, barbed & tanged arrowhead	Articulated skeleton of 'an old man at least seventy'			2280–2030		2270–2260 (1%), 2210–2030 (94%)	Annable & Simpson 1964, cat. nos 59-63	Y	Y	Y
OxA-V-2228-45	3873±28	Upavon Flying School, Wilts	Flat grave with low carinated (W/MR) Beaker	Articulated skeleton of 'aged man'			2470–2210		2450–2270 (89%), 2260–2210 (6%)	Goddard 1917	Y	Y	Y
OxA-V-2228-47	3654±28	Shrewton 5k, Wilts	As BM-2525	Articulated skeleton of young adult male. Replicate of BM-2525			As BM-2525 2525		As BM-2525	As BM-2525	Y	Y	Y
OxA-V-2232-37	3871±30	Shrewton 5k, Wilts	As BM-3017	Articulated skeleton of adult male. Replicate of BM-3017			As BM-3017 3017		As BM-3017	As BM-3017	Y	Y	Y
OxA-V-2243-41	3813±30	Clinterty, Kinellar, Aberdeen	Cist with short-necked Beaker, bone belt slider, mica-schist axe-shaped stone, frag. of topaz, 2 barbed & tanged arrowheads, 6 other pieces struck flint. Some doubt as to whether all finds from grave	Skeleton of male >40 yrs			2400–2140		2300–2190 (84%), 2180–2140 (11%)		Y	Y	Y
OxA-V-2243-46	3757±29	Newlands Farm 2, Oyne, Aberdeenshire	Cist with short-necked Beaker, 2 bracers, barbed & tanged arrowhead, other struck flint	Rather decayed articulated skeleton, male 35–40yrs			2290–2040		2290–2120 (92%), 2090–2060 (3%)		Y	Y	Y
OxA-V-2243-47	3795±28	Home Farm, Uday Green, Aberdeenshire	Stone cist, with comb-impressed S-profile (N/NR) Beaker, flint knife, frag. of pegmatite	Skull of young adult male, ?19–23 yrs	-21.2		2300–2130		2290–2140	Murray & Shepherd 2007	Y	Y	Y
OxA-V-2271-34	3834±29	Hemp Knoll, Wilts	Central primary burial with short-necked (W/MR) Beaker, stone bracer, bone belt ring.	Articulated skeleton, ?male 35–45 yrs			2460–2150		2410–2190 (94%), 2170–2150 (1%)	Robertson-Mackay 1980	Y	Y	Y

Lab. No.	Date BP	Site	Context	Sample	$\delta^{13}\text{C}$ (‰)	Weighted mean (BP)	Cal BC (95%)	Comments	Posterior density estimate (95%)	References	Articulated model	Beaker model 1	Beaker model 2
OxA-V-2271-35	3935±32	Chilbolton, Hants	As OxA-1072	Dentine from partly disarticulated but substantially complete skeleton, male prob. in late 20s. Replicate of OxA-1072			2570–2300	As OxA-1072	2430–2290	As OxA-1072	Y	Y	Y
Q-764	2950±150	Ashgrove, Fife	Cist 1. Sample probably from thick deposit of black crumbly matter covering articulated adult skeleton & cist floor. With weak carinated (S4) Beaker, sheathed, horn-hilted, ivory-pommeled Cu alloy dagger, 'stick'	'Organic matter'			1520–800	Not used because unidentified sample material prohibits evaluation of result		Henshall 1964			
SRR-453	4420±130	Skateraw, 1972 cist, E Lothian	In stone cist with short-necked (N2) Beaker	Articulated adult skeleton, poss. female	-24.2		3510–2700	Not used because of poor collagen, 2 subsequent attempts at dating failed		Close-Brooks 1979; Sheridan 2007			
SRR-553	3630±90	Dalladies long barrow, Aberdeenshire	Plank in stone cist set into long barrow, covering scattered cremation & crushed weak carinated (S4) Beaker & struck flint. Beaker coarse & thick-walled, with irregular incised decoration	Charred oak plank	-27.4		2280–1740	Standard deviation increased from 90 to 125 by P. Ashmore. Treated as tpq for pot	2340–2020	Piggott 1972	Y		
SRR-687	3867±70	Boghead, Fochabers, Moray	Pit beyond edge of Neolithic mound, containing plain low carinated Beaker and FN & ?AOC sherds	Unidentified bulk charcoal sample	-25.3		2570–2130	Standard deviation increased from 70 to 110 by P. Ashmore. Treated as tpq for pottery	2560–2530 (1%), 2490–2140 (94%)	Burl 1984		Y	
SUERC-2865	3785±35	Skateraw, 1958 cist, E Lothian	As OxA-V-2164-39	R clavicle from articulated adult skeleton. Replicate of OxA-V-2164-39			As OxA-V-2164-39		As OxA-V-2164-39	As OxA-V-2164-39	Y	Y	Y
SUERC-2866	3530±35	Barns Farm, Fife	Cist 4. Stone cist in barrow with mid carinated (S4) Beaker (Shepherd 1982: fig. 17:163, described by Sheridan (2007) as Beaker/Food vessel hybrid)	L humerus of articulated skeleton, female <i>c.</i> 30 yrs			1960–1740	Excluded because in poor agreement with model.		Watkins 1982			

Lab. No.	Date BP	Site	Context	Sample	$\delta^{13}\text{C}$ (‰)	Weighted mean (BP)	Cal BC (95%)	Comments	Posterior density estimate (95%)	References	Articulated model	Beaker model 1	Beaker model 2
SUERC-4078	3755±35	Dryburn Bridge, cist 2, E Lothian	As AA-53715	R ulna of articulated adult male, 45-60 yrs. Replicate of AA-53715, GU-1408	-21.2	As GU-1408	As AA-53715		As AA-53715	As AA-53715		Y	Y
SUERC-4079	3720±35	Dryburn Bridge, cist 2, E Lothian	As AA-53716	Thoracic vertebrae of child 6-8-yrs, incomplete & disarticulated. Replicate of AA-53716, GU-1409	-21.7	As GU-1409	As GU-1409	As GU-1409	As GU-1409	As AA-53716		Y	Y
SUERC-5299	3775±35	Eweford West, E Lothian	Pit 28. With charcoal, charred hazelnut, frags of 4 Beakers: 1 low carinated (AOC), 2-3 S-profile (E Ang, FN), 1 bowl	Charred barley grains	-23.3	2300-2040	2300-2040	Treated as contemporary with pottery	2300-2120	Lelong & MacGregor 2007		Y	Y
SUERC-5309	3725±40	Eweford West, E Lothian	Described by Sheridan (2007) as in deposit on surface of reshaped long barrow with sherds from 3 Beakers, 1 of them S-profile (E Ang/FN/BW). Described in excavation report as from cremation pit 148	Charred barley grain	-23.6	2280-1980	2280-1980	Not used because of uncertainty as to context		Lelong & MacGregor 2007			
SUERC-5316	3650±35	Eweford West, E Lothian	Pit 164. Cut into Neolithic barrow, containing c. 25,000 charred grains, mainly barley, charcoal, lithics, 2 Beaker sherds	Charred barley grains	-23.6	2140-1920	2140-1920	Treated as contemporary with pottery	2200-2170 (3%), 2150-2030 (92%)	Lelong & MacGregor 2007		Y	Y

Lab. No.	Date BP	Site	Context	Sample	$\delta^{13}\text{C}$ (‰)	Weighted mean (BP)	Cal BC (95%)	Comments	Posterior density estimate (95%)	References	Articulated model	Beaker model 1	Beaker model 2
SUERC-15119	3915±40	Upper Largie, Argyll & Bute	In dark, organic deposit in base of grave without surviving skeleton, surrounded by small post-lined ring-ditch & prob. capped by cairn. With 1 low carinated & 2 low-bellied S-profile Beakers, flint knife & 'fabricator'	Single frag. <i>Corylus</i> charcoal, perhaps originally part of plank-built chamber			2550-2280	Could be close in age to burial because hazel short-lived. But no certainty it was part of chamber rather than accidental inclusion: hazel an unusual structural material. Treated as tpq for burial.	2570-2530 (3%), 2500-2280 (92%)	Sheridan 2008	Y	Y	
SUERC-15120	3900±35	Upper Largie, Argyll & Bute	One of several post-pipes 0.20-0.50 m diam. in ring-ditch surrounding grave containing sample for SUERC-15119	<i>Quercus</i> charcoal			2480-2280	But all 3 dates from Upper Largie are statistically consistent ( $T^*=0.4$ ; $T^*(5\%)=6.0$ ; $v=2$ ) & might relate to construction of grave, ring-ditch & post setting in a single event	As SUERC-15119				
SUERC-15121	3880±35	Upper Largie, Argyll & Bute	Fill of ring-ditch up to 0.40 m deep containing post-pipe which yielded sample for SUERC-15120 & surrounding grave which yielded sample for SUERC-15119	<i>Quercus</i> charcoal			2480-2200	Otherwise as SUERC-15119	As SUERC-15119				
SUERC-26172	3680±30	Shuttlesstone Plantation, Parwich, Derbyshire	Grave under round barrow with organic covering, Aylesford type flat bronze axehead, riveted bronze dagger, jet bead & 'circular flint' (now lost)	Bone from adult male	20.9		2200-1960	Tpq for post setting because, if ditch fill packed around posts, sample should not be younger than setting, but could be older. Otherwise as SUERC-15119	2140-1960	Needham <i>et al.</i> 2010	Y		

Lab. No.	Date BP	Site	Context	Sample	$\delta^{13}\text{C}$ (‰)	Weighted mean (BP)	Cal BC (95%)	Comments	Posterior density estimate (95%)	References	Articulated model	Beaker model 1	Beaker model 2
SUERC-26203	3550±35	West Overton G1, Wiltshire	In ?primary grave beneath round barrow with Willerby type flat bronze axehead, crutch-headed bronze pin, tanged bronze knife with single rivet, antler object (last 2 now lost)	Skull of elderly male	-20.9		2020-1770		2020-2000 (2%), 1980-1770 (93%)	Needham <i>et al.</i> 2010	Y		Beaker model
SWAN-17	3710±80	Crawewell West, Gwynedd	Deep oval pit with 'sherds of pottery, including domestic Beaker, flint thumb-scrapers and over 300 tiny chips from flint working'	Unidentified bulk charcoal sample			2350-1890	Treated as tpq for pottery	2400-2380 (1%), 2350-1880 (94%)	Crew 1998	Y	Y	Y
UB-450	3410±165	Tallington, Lincs	Site 16, grave 1. With Food Vessel, cockle shell frag., 2 flint flakes	Articulated skeleton, male <i>c.</i> 15 yrs			2200-1380		2110-2090 (1%), 2060-1410 (94%)	Simpson 1976	Y		
UB-3122	3709±35	Gravelly Guy, Oxon	Context 4013/12. First surviving burial in deep grave, poss. following removal of primary burial. In oak lining or coffin, with long necked (S3) Beaker, antler-pommel & horn-bilted bronze dagger, Cu alloy awl or pin, slate bracer, 'sponge-finger' whetstone, polished antler rod, flint scraper & 2 flakes. Stratified below UB-3123	R leg of articulated skeleton, male 45+ yrs			2210-1980		2270-2070 (93%), 2000-1980 (2%)	Lambrick & Allen 2004	Y	Y	Y
UB-3123	3666±35	Gravelly Guy, Oxon	Context 4013/9. Cut into fill of existing grave, with handled (SH) Beaker, Cu alloy awl, flint flake. Stratified above UB-3122	R leg of articulated skeleton, female 20-25 yrs			2190-1940		2150-1940	Lambrick & Allen 2004	Y	Y	Y
UB-3147	3504±38	Raunds barrow 1, Northants	F30499. Secondary inhumation, with bone pin	Articulated skeleton of adult male	-22.1±0.2		1940-1690		1940-1730	Harding & Healy 2007	Y		
UB-3148	3681±47	Raunds barrow 1, Northants	Grave F30426, context 30476. Primary burial in oak chamber with long necked (S3?) Beaker, jet buttons, amber belt ring, re-worked bracer, 'sponge finger' whetstone, chalk bar, cattle rib spatulae, boar tusk, flint dagger, other struck flint	Articulated skeleton of adult male	-21.0±0.2		2210-1930		2200-1940	Harding & Healy 2007	Y	Y	Y
UB-3243	3396±52	Orton Meadows OLB1, Cambs	F19, burial 26. Below barrow mound without grave	Articulated skeleton, adult <i>c.</i> 25 yrs	-21.2±0.2		1880-1530		1880-1840 (6%), 1830-1600 (82%), 1590-1530 (7%)	Mackreth forthcoming	Y		

Lab. No.	Date BP	Site	Context	Sample	$\delta^{13}\text{C}$ (‰)	Weighted mean (BP)	Cal BC (95%)	Comments	Posterior density estimate (95%)	References	Articulated model	Beaker model 1	Beaker model 2
UB-3244	3468±38	Orton Meadows OLB1, Cams	F4, burial 31. In coffin with 2nd individual. Stratified above UB-3243	Articulated skeleton, ?male <i>c.</i> 15 yrs	-23.9±0.2	1900-1680	1890-1690	As UB-3243	Y	As UB-3243	Y		
UB-3246	4741±43	Orton Meadows OLB2, Cams	F58, burial 6. Crouched on stone paving in rectangular depression in base of grave cut through possible façade trench of pre-existing 1st burial zone	Articulated skeleton of male	-20.7±0.2	3640-3370	3640-3490 (85%), 3460-3450 (2%), 3440-3380 (8%)	As UB-3243	Y				
UB-3247	3665±42	Orton Meadows OLB2, Cams	F60, burial 18. In coffin. Stratified above UB-3246, -3248 & sand below UB-3249	From articulated skeleton, male 35-40 yrs	-22.1±0.2	2200-1920	2140-1930	As UB-3243	Y				
UB-3248	4713±84	Orton Meadows OLB2, Cams	F35, burial 11. Prob. latest of 8 individuals in varying degrees of articulation placed on paving of second burial alignment, bracketed by 2 large axial post-holes in silted ditch of oval mound covering first alignment.	Articulated skeleton of male	-22.2±0.2	3660-3340	3650-3390	As UB-3243	Y				
UB-3249	3333±84	Orton Meadows OLB2, Cams	F78, burial 24. In coffin. Stratified above UB-3247	Articulated skeleton, ?female 15-17 yrs	-25.3±0.2	1880-1430	1880-1840 (3%), 1830-1790 (2%), 1780-1430 (90%)	As UB-3243	Y				
UB-3306	3844±30	Fordington Farm, Dorset	Grave 61. Flexed, head on cattle scapula, feet on cattle vertebra. Conygar Hill barbed & tanged arrowhead at hip, other cattle bones in fill. Grave cut into primary mound	L & R femora of articulated skeleton, male 23-30 yrs		2470-2200	2440-2410 (3%), 2420-2200 (92%)	Bellamy 1991	Y				
UB-3311	3608±41	Raunds barrow 6, Northants	Context 3259. Grave with long necked (S3?) Beaker, flint dagger, flint knife, flint flake, chalk lump, jet button.	Articulated skeleton of adult male	-22.3±0.2	2130-1880	2140-2080 (6%), 2060-1870 (88%), 1840-1830 (1%)	Harding & Healy 2007	Y	Harding & Healy 2007	Y	Y	
UB-4242	4738±28	Hambleton Hill inner Stepleton outwork, Dorset	Segment 7, cutting 15/19. At outer edge of the segment butt on ditch base	L femur of articulated older mature adult male	-20.8±0.2	3640-3370	3640-3490 (89%), 3430-3380 (6%)	Mercer & Healy 2008	Y	Mercer & Healy 2008	Y		
UB-4243	4679±27	Hambleton Hill outer Stepleton outwork, Dorset	Segment 3, unit 1, ditch base. Flexed in recess in angle of ditch butt, with arrowhead among ribs	R femur of articulated young adult male	-21.4±0.2	3630-3360	3630-3600 (9%), 3530-3370 (86%)	Mercer & Healy 2008	Y	Mercer & Healy 2008	Y		
UB-4311	4710±23	Hambleton Hill Stepleton spur, Dorset	As OxA-7818	Replicate of OxA-7818	-21.26±0.2	As OxA-7818	As OxA-7818	As OxA-7818	Y	As OxA-7818	Y		

Lab. No.	Date BP	Site	Context	Sample	$\delta^{13}\text{C}$ (‰)	Weighted mean (BP)	Cal BC (95%)	Comments	Posterior density estimate (95%)	References	Articulated model	Beaker model 1	Beaker model 2
Wk-10430	3728±63	Fenstanton, Cambs	Pit 46, context 45. Containing 1 sherd Peterborough Ware, sherds from 22 comb-impressed & rusticated Beakers (Chapman <i>et al.</i> 2005, fig. 4: 12–20), struck flint, bone, charred fat hen seeds and a little wheat & barley	Bulk charcoal sample including <i>Corylus/Alnus</i> , <i>Corylus/Fraxinus</i> , <i>Salix/Populus</i> , <i>Quercus</i> excluded (Chapman <i>et al.</i> 2005, 14)	-24.8±0.2		2300–1940	Treated as contemporary with pottery because all charcoal from short-lived species	2340–2320 (1%), 2310–1940 (94%)	Chapman <i>et al.</i> 2005	Y	Y	
Wk-10431	3736±62	Fenstanton, Cambs	Pit 87, context 86. Final pit in intercutting group of 7, cut into charcoal-free fill of pit 93. Containing a little Grooved Ware & sherds from <i>c.</i> 12 comb-impressed, incised and rusticated Beakers, inc. reconstructable long-necked form (Chapman <i>et al.</i> 2005, fig. 4: 5–11, 21), struck flint, animal bone, charred fat hen seeds, a little wheat & barley	Bulk charcoal sample including <i>Corylus/lnus</i> , <i>Corylus</i> , ? <i>Hedera</i> Pomoideae. ? <i>Hedera</i> & <i>Quercus</i> excluded (Chapman <i>et al.</i> 2005, 14)	-28.7±0.2		2340–1950	Treated as contemporary with pottery because all charcoal from short-lived species & because charcoal could not have derived from the charcoal-free fill of pit cut by this one (Chapman <i>et al.</i> 2005, 8)	2340–2320 (1%), 2310–1950 (94%)	Chapman <i>et al.</i> 2005	Y	Y	
Wk-17196	4897±38	West Tump, Gloucs	At back of lateral chamber, 'This skeleton appeared to be quite undisturbed ... but the femora were reversed, ie the head of one femur, with part of the pelvis attached, was close to the skull (underneath it), whilst the head of the other femur was 15 inches from the skull; with this remarkable exception, the skeleton was in proper order and in a contracted form.'	Rib from almost completely articulated skeleton, 13–17 yrs (Brickley & Thomas 2004)	-20.7±0.2		3770–3630		3700–3630 (83%), 3570–3530 (72%)	Witts 1981; Smith & Brickley 2006; Brickley & Thomas 2004	Y		
Wk-17198	4710±37	West Tump, Gloucs	Skeleton 4. Inserted into SW side of cairn.	Rib, articulated adult skeleton	-20.2±0.2		3640–3370		3640–3550 (39%), 3540–3380 (56%)	As Wk-17196	Y		
Wk-17199	4655±37	West Tump, Gloucs	Skeleton 5. Inserted into SW side of cairn between skeletons 4 and 6 & within a foot (0.30 m) of skeleton 4, crouched	Long bone shaft frag. from articulated child skeleton	-20.4±0.2		3630–3350		3630–3590 (6%), 3530–3360 (89%)	As Wk-17196	Y		
Wk-17200	4706±39	West Tump, Gloucs	Skeleton 6. Inserted into SW side of cairn close to skeletons 4 & 5	Rib frag. from articulated adult skeleton	-20.7±0.2		3640–3370		3640–3550 (37%), 3540–3380 (58%)	As Wk-17196	Y		

Lab. No.	Date BP	Site	Context	Sample	$\delta^{13}\text{C}$ (‰)	Weighted mean (BP)	Cal BC (95%)	Comments	Posterior density estimate (95%)	References	Articulated model	Beaker model 1	Beaker model 2
Wk-19377	3736±38	Lower Boscaswell, Cornwall	Context 102. Burnt mound incorporating at least 126 sherds from 22 Beakers, including long necked, ?S-profile & fragmentary rusticated vessels	Single frag. hazel charcoal	-27.5±0.2		2290–2020	Treated as contemporary with pottery because sample short-lived & derived from use of mound	2290–2020	Jones & Quinnell 2006		Y	Y
Wk-19378	3696±36	Lower Boscaswell, Cornwall	Context 112. Fill of stone-lined pit next to & probably related to mound 102, cut into larger pit	Single frag. willow charcoal	-25.3±0.2		2200–1970	Not used because not directly associated with Beaker pottery		Jones & Quinnell 2006			
Wk-19379	3685±41	Lower Boscaswell, Cornwall	As Wk-19378	Single frag. oak roundwood charcoal	-24.9±0.2		2200–1940	As Wk-19378		Jones & Quinnell 2006			
Wk-19380	3733±39	Lower Boscaswell, Cornwall	As Wk-19377	Single frag. hazel charcoal	-26.0±0.2		2280–2020	As Wk-19377	2290–2020	Jones & Quinnell 2006		Y	Y
Wk-21358	3698±34	Nancemere, Cornwall	2012. From charcoal-rich deposit in 'hearth pit' containing Beaker & possibly Trevisker sherds	Single frag. hazel charcoal			2200–1970	Treated as contemporary with pottery because a short-life sample	2200–2010 (91%), 2000–1970 (4%)	Jones & Quinnell 2006; Gossip 2005; J. Gossip pers. comm.		Y	Y

## Radiocarbon Figures

Figures 10.1, 10.2, 10.3a, 10.3e, 10.5a, 10.5j, 10.5k and 10.6 are printed in the main text.

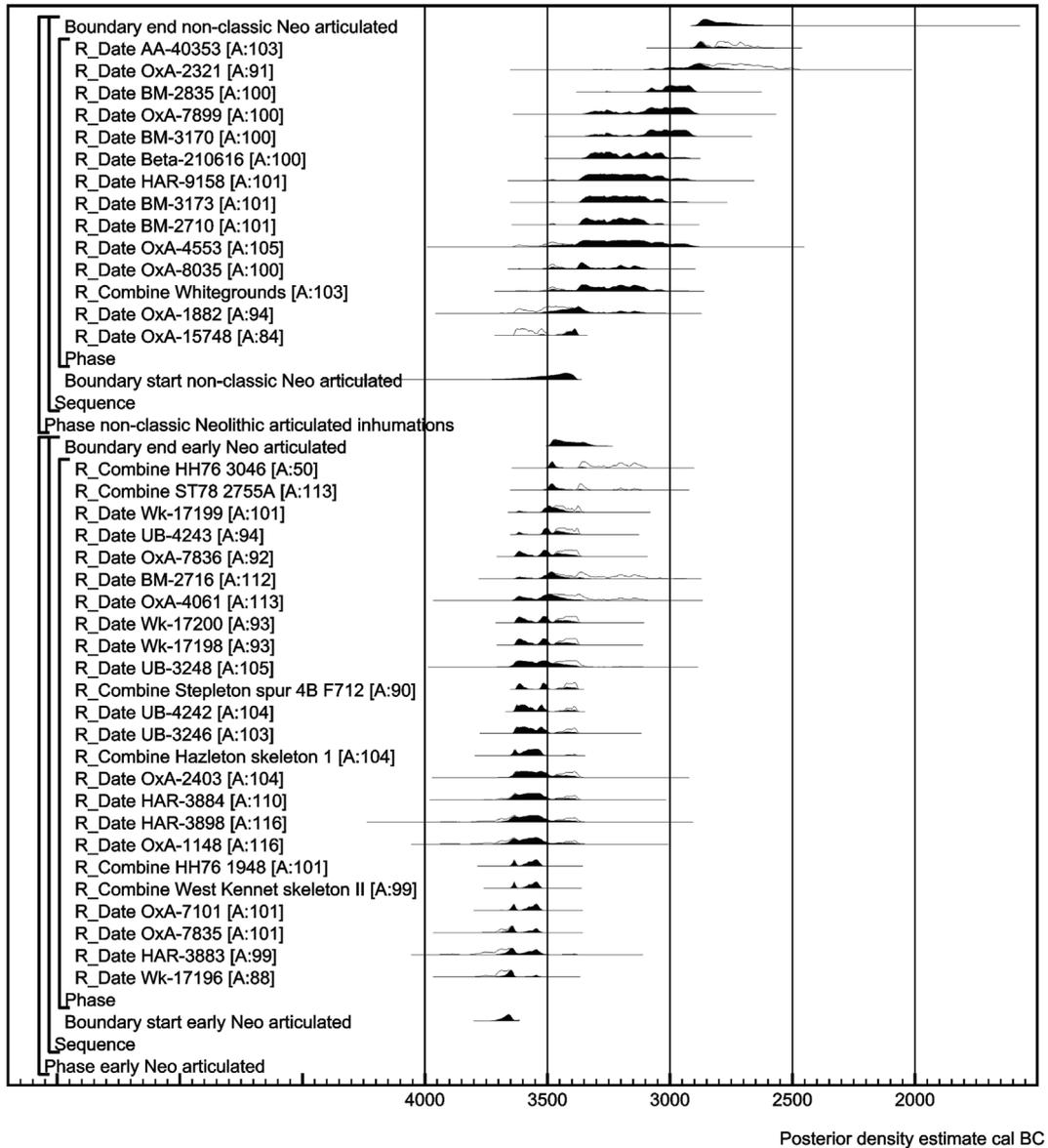


Figure 10.3b: The first and second sections of the model the overall structure of which is shown in Figure 10.3a, showing dates directly measured on Neolithic articulated inhumations from England. The individual measurements are listed in Table 10.4 ☺

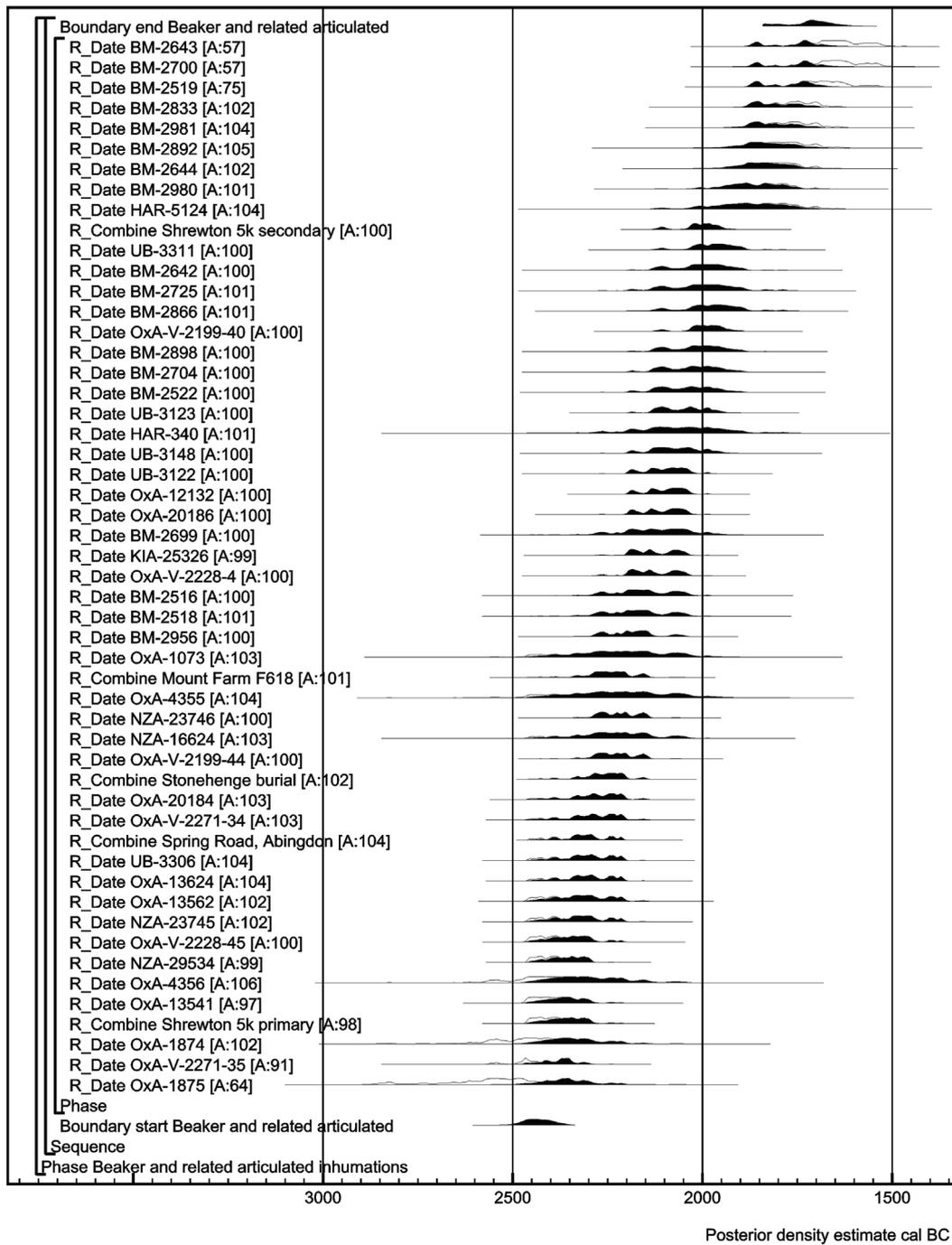


Figure 10.3c: The third section of the model the overall structure of which is shown in Figure 10.3a, showing dates directly measured on Beaker and related articulated inhumations from England. The individual measurements are listed in Table 10.4 🤖

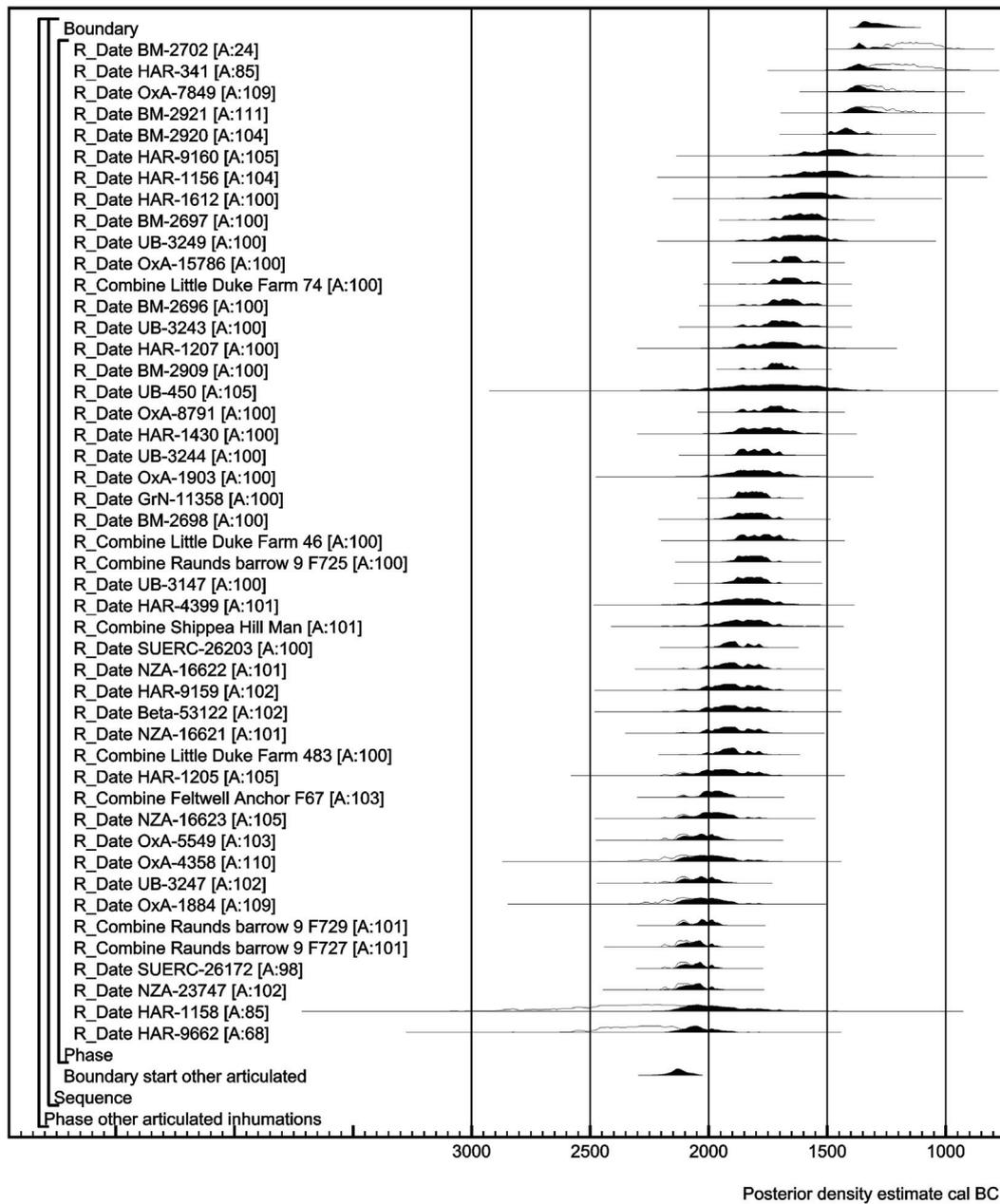


Figure 10.3d: The fourth section of the model the overall structure of which is shown in Figure 10.3a, showing dates directly measured on late third and second millennium cal BC articulated inhumations from England, other than those associated with Beakers or related artefacts. The individual measurements are listed in Table 10.4

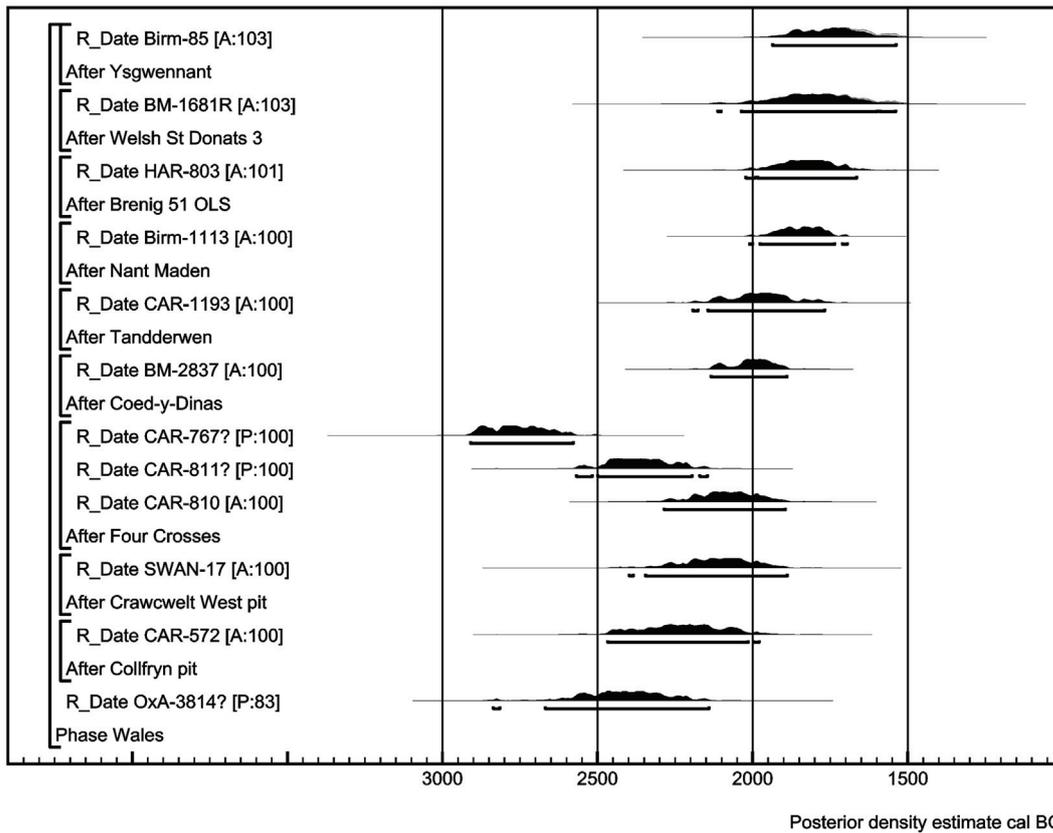


Figure 10.5b: Dates associated with Beaker pottery in Wales. The horizontal lines below the distributions represent 95% probability. The overall structure of the model is shown in Figure 10.5a and the individual measurements are listed in Table 10.4 ☹️

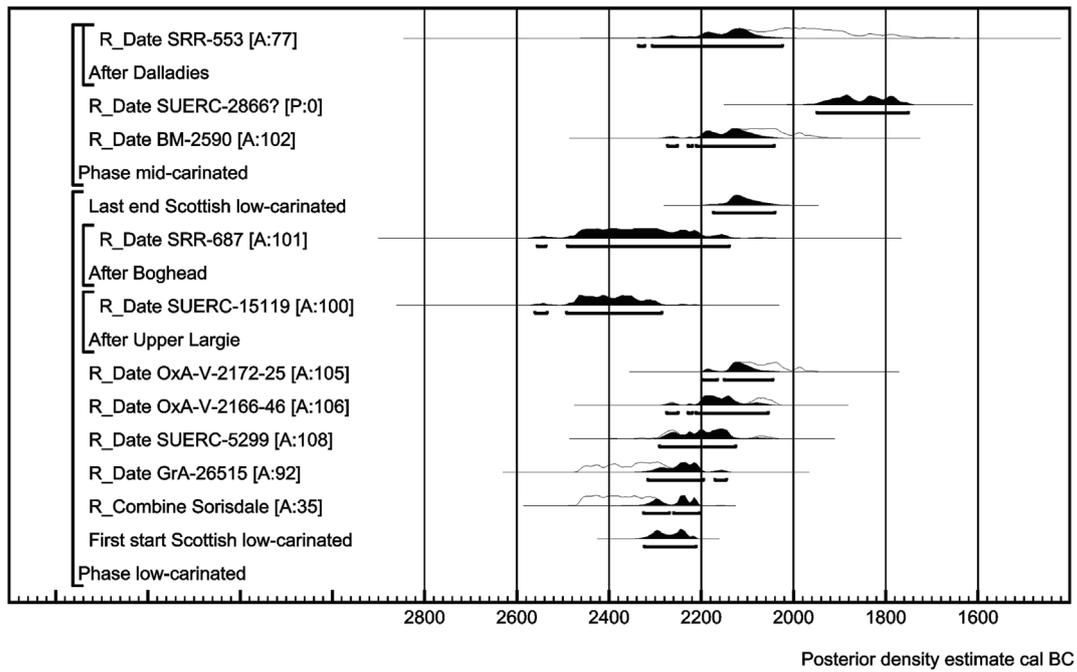


Figure 10.5c: Modelled dates for low- and mid-carinated Beaker pottery from Scotland. The horizontal lines below the distributions represent 95% probability. The overall structure of the model is shown in Figure 10.5a and the individual measurements are listed in Table 10.4 ☺

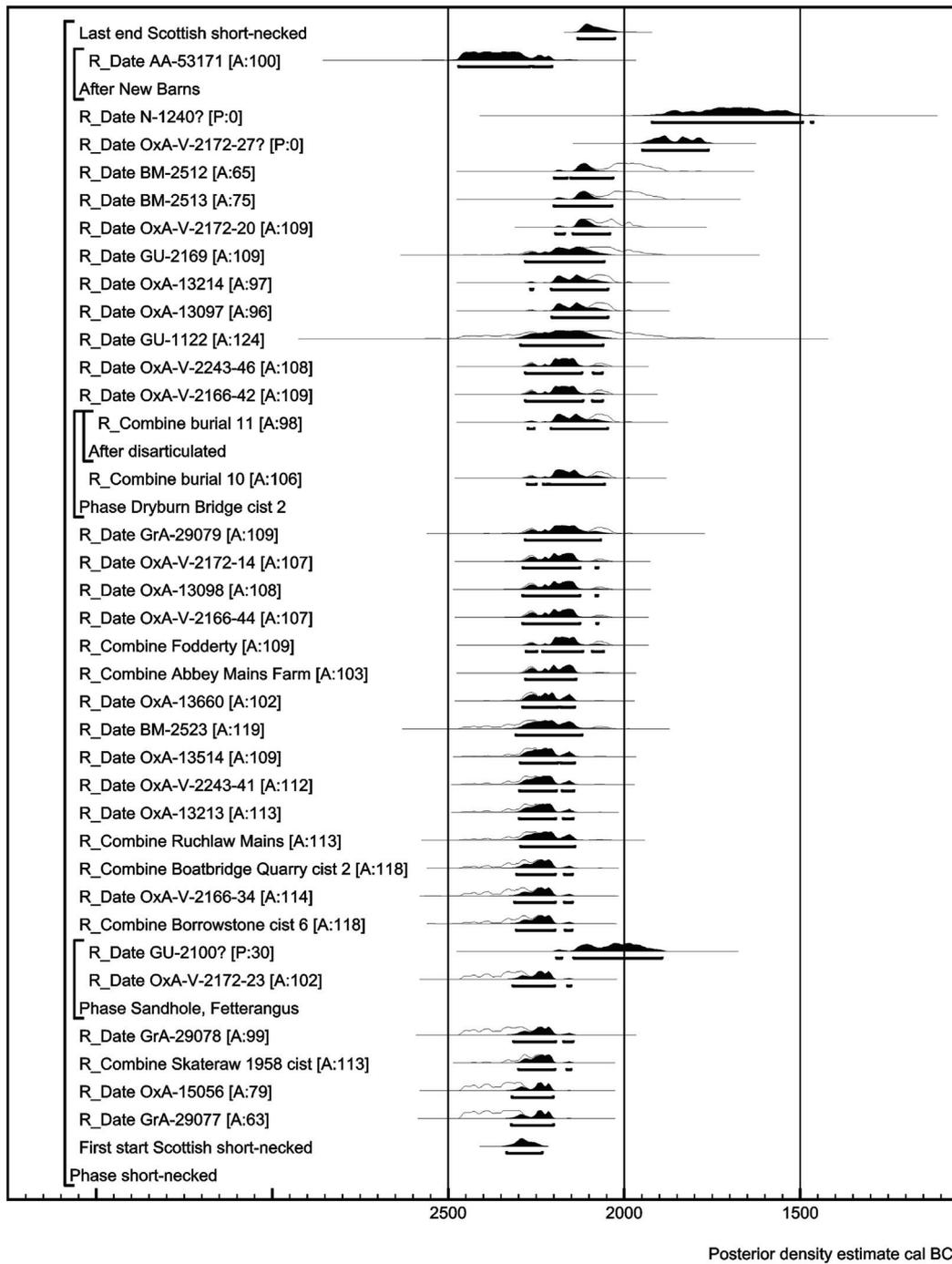


Figure 10.5d: Modelled dates for short-necked Beaker pottery from Scotland. The horizontal lines below the distributions represent 95% probability. The overall structure of the model is shown in Figure 10.5a and the individual measurements are listed in Table 10.4 ☺

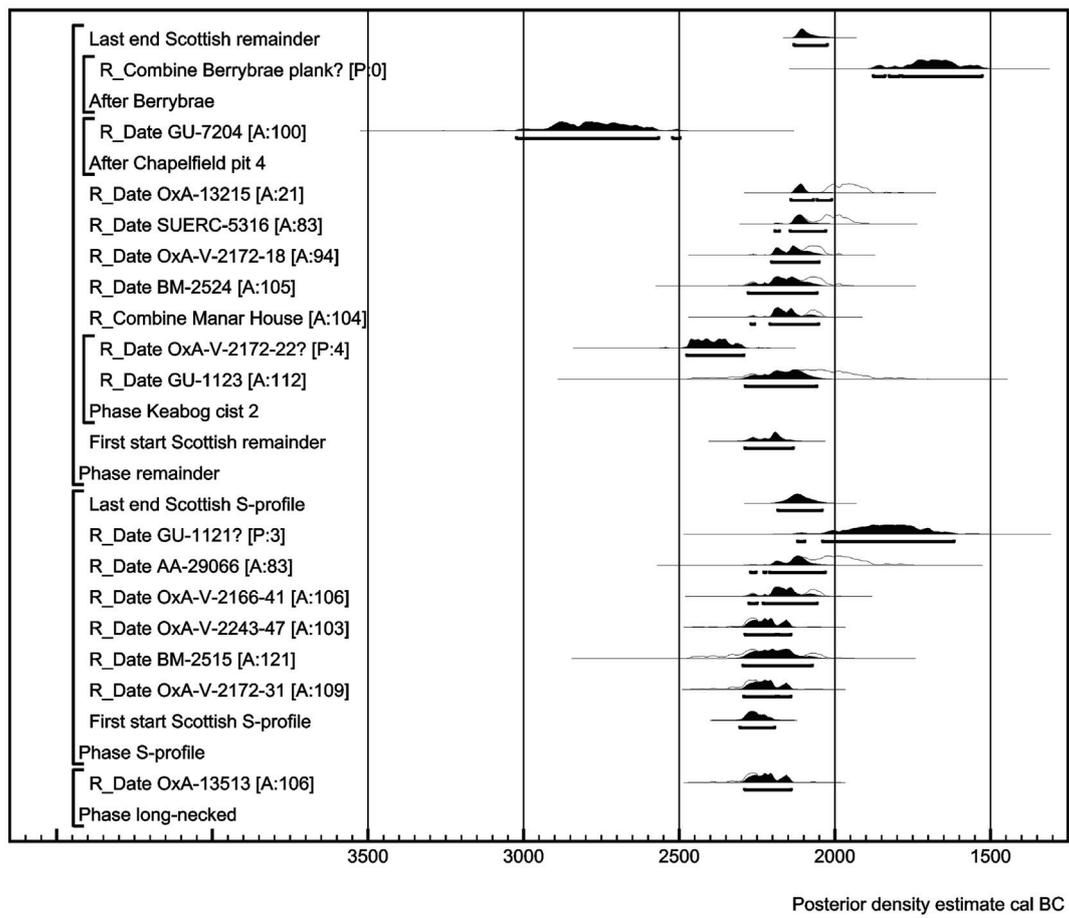


Figure 10.5e: Modelled dates for long-necked, S-profile and unclassified Beaker pottery from Scotland. The horizontal lines below the distributions represent 95% probability. The overall structure of the model is shown in Figure 10.5a and the individual measurements are listed in Table 10.4 ☺

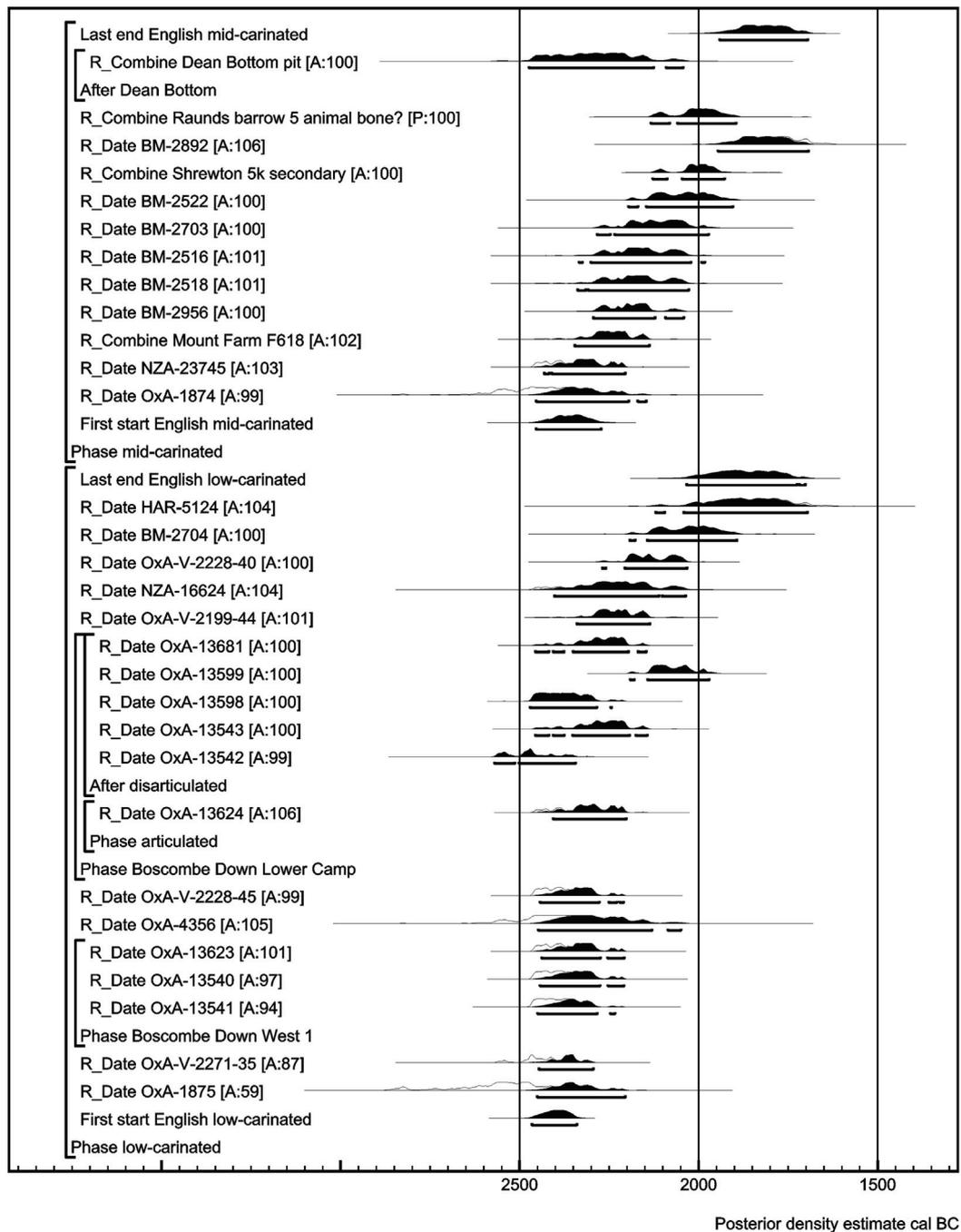


Figure 10.5f: Modelled dates for low carinated and mid-carinated Beaker pottery from England. The horizontal lines below the distributions represent 95% probability. The overall structure of the model is shown in Figure 10.5a and the individual measurements are listed in Table 10.4 ☹

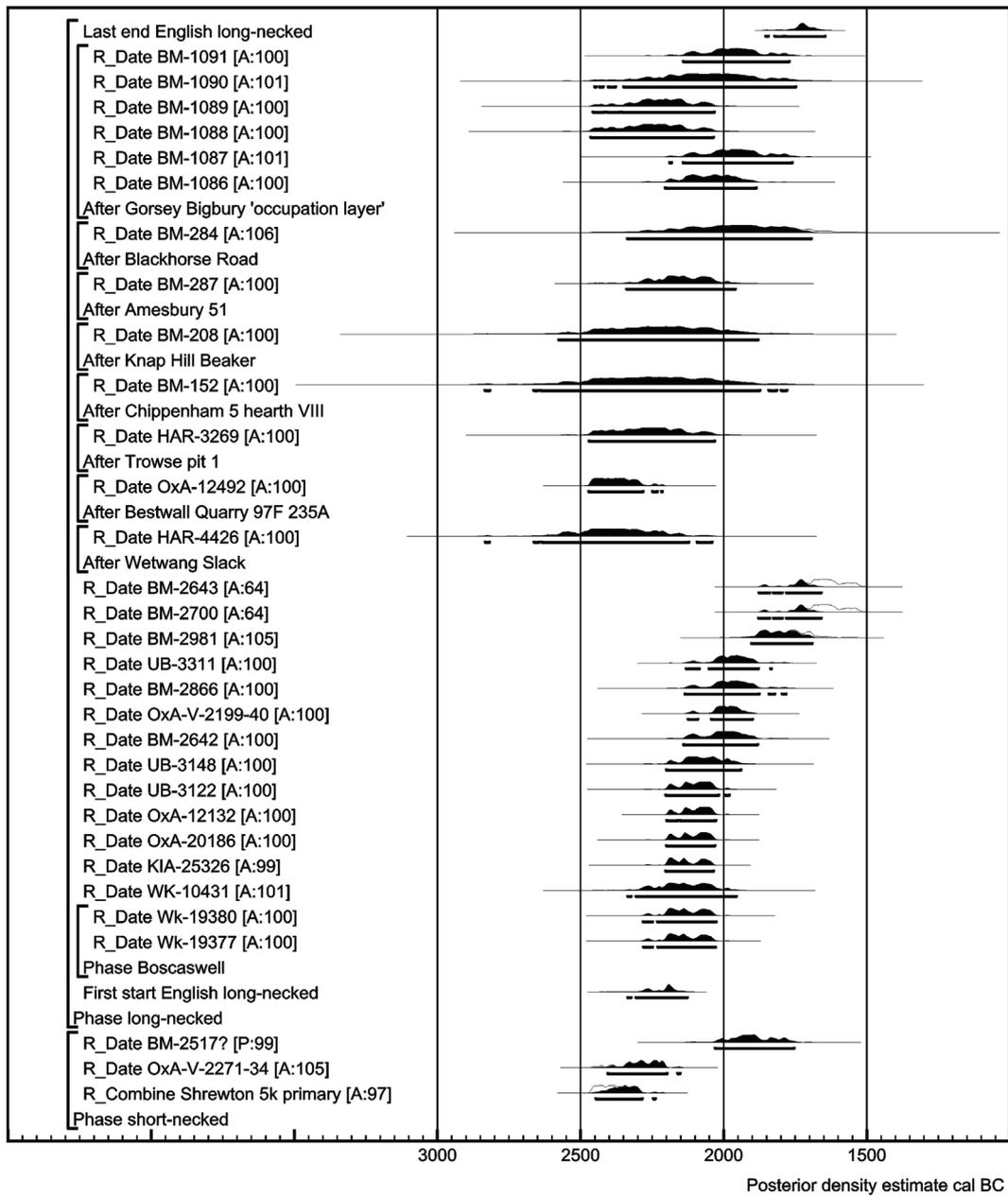


Figure 10.5g: Modelled dates for short- and long-necked Beaker pottery from England. The horizontal lines below the distributions represent 95% probability. The overall structure of the model is shown in Figure 10.5a and the individual measurements are listed in Table 10.4 ☺

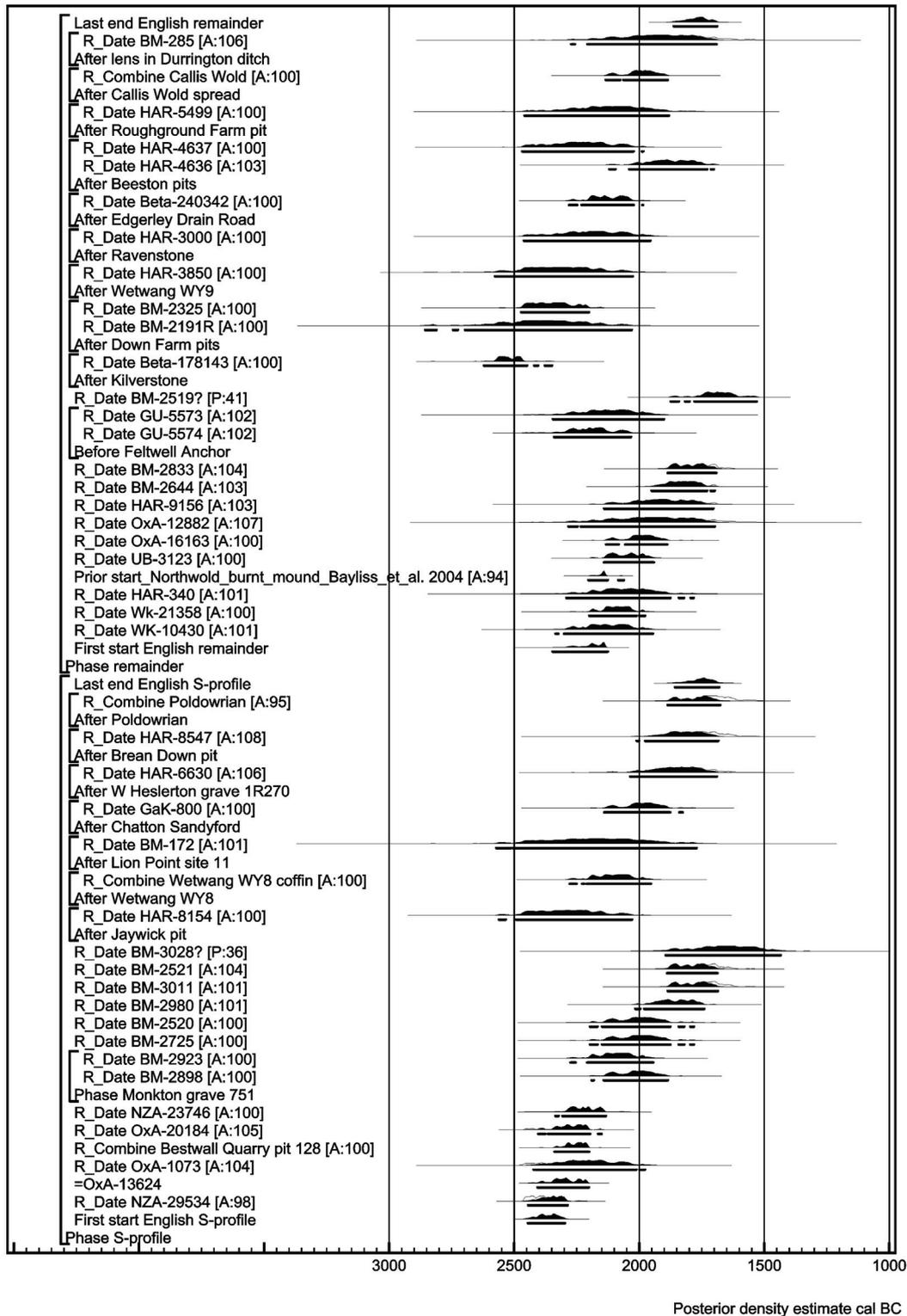


Figure 10.5h: Modelled dates for S-profile and unclassified Beaker pottery from England. The horizontal lines below the distributions represent 95% probability. The overall structure of the model is shown in Figure 10.5a and the individual measurements are listed in Table 10.4 (2)

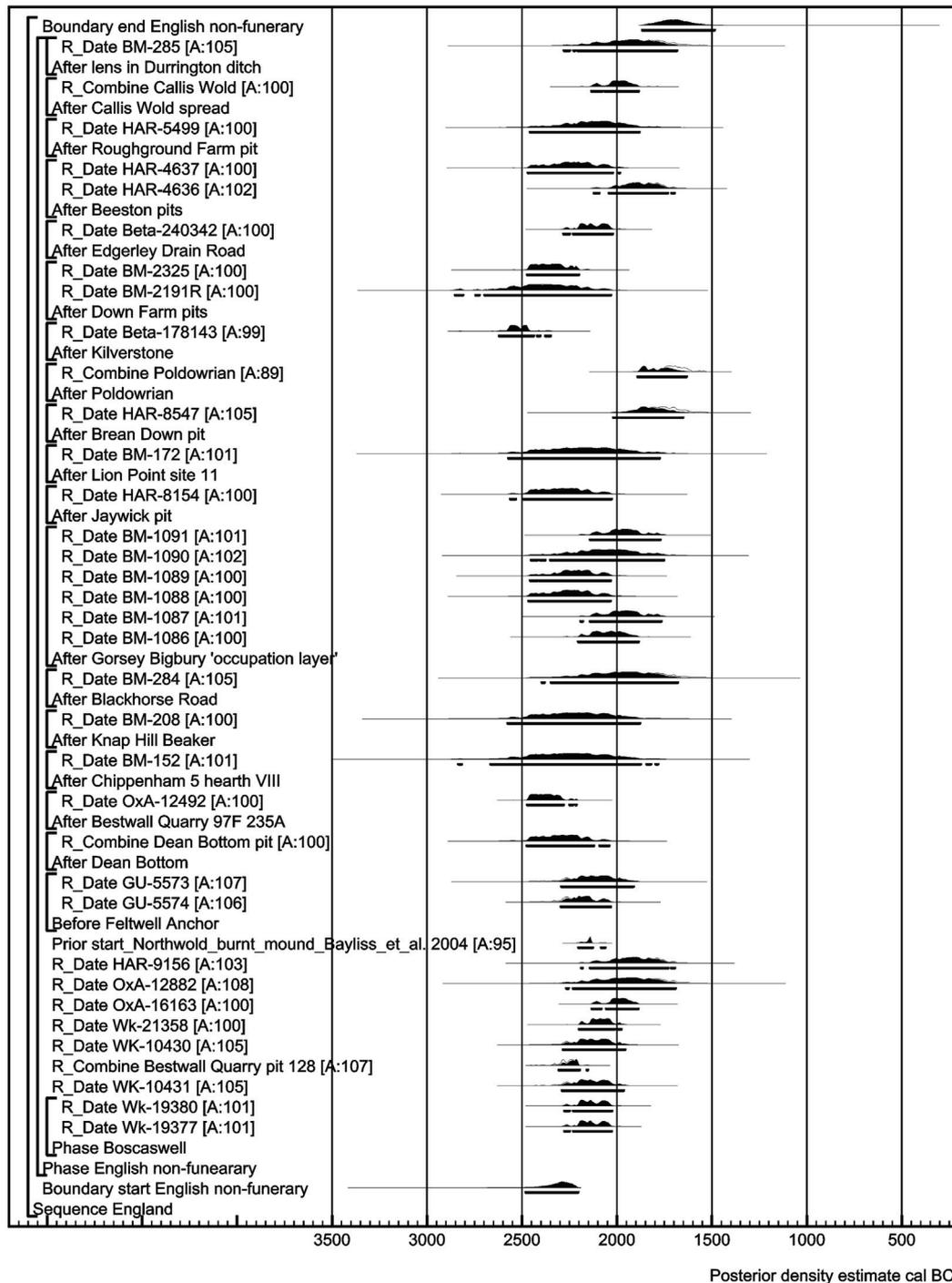


Figure 10.5i. Dates for samples associated with Beaker pottery in non-funerary contexts, drawn from the dataset shown in Figures 10.5b–5j, modelled independently. The horizontal lines below the distributions represent 95% probability. The individual measurements are listed in Table 10.4

## Bibliography for Table 10.4

- Allen, D. 1981. The excavation of a Beaker burial monument at Ravenstone, Buckinghamshire, in 1978. *Archaeological Journal* 138, 72–117
- Allen, T. 1995. *Lithics and Landscape: Archaeological Discoveries on the Thames Water Pipeline at Gatehampton Farm, Goring, Oxfordshire 1985–92*. Oxford: Oxford University Committee for Archaeology
- Allen, T.G., Darvill, T.C., Green, L.S. & Jones, M.U. 1993. *Excavations at Roughground Farm, Lechlade, Gloucestershire: a Prehistoric and Roman Landscape*. Thames Valley Landscapes: the Cotswold Water Park volume 1. Oxford: OUCA
- Allen, T. & Kamash, Z. 2008. *Saved from the Grave. Neolithic to Saxon Discoveries at Spring Road Municipal Cemetery, Abingdon, Oxfordshire, 1990–2000*. Thames Valley Landscapes Monograph 28. Oxford: Oxford Archaeology
- Ambers, J. & Bowman, S. 2003. Radiocarbon measurements from the British Museum: datelist XXVI. *Archaeometry* 45, 531–40
- Ambers, J., Bowman, S. & Garwood, P., 1999. Appendix 2: radiocarbon dates from the Abingdon causewayed enclosure. In A. Barclay and C. Halpin, *Excavations at Barrow Hills, Radley, Oxfordshire. Volume I. The Neolithic and Bronze Age Monument Complex*, 337–9. Oxford: Oxford University Committee for Archaeology for the Oxford Archaeological Unit
- Annable, F.K. & Simpson, D.D.A. 1964 *Guide Catalogue of the Neolithic and Bronze Age Collections in Devizes Museum*. Devizes: Wiltshire Archaeological and Natural History Society
- ApSimon, A.M., Musgrave, J.H., Sheldon, J., Tratman, E.K. & van Wijngaarden-Bakker, L.H. 1976. Gorsey Bigbury, Cheddar, Somerset: radiocarbon dating, human and animal bones, charcoals, archaeological reassessment. *Proceedings of the University of Bristol Spelaeological Society* 14, 155–83
- Ashbee, P. 1976. Amesbury barrow 51: excavations 1960. *Wiltshire Archaeological Magazine* 70/71, 1–60
- Ashmore, P.J. 1989. Excavation of a Beaker cist at Dornoch Nursery, Sutherland. *Proceedings of the Society of Antiquaries of Scotland* 119, 63–71
- Ashmore, P. J., Brooks, M., Mate, I. & Strong, P. 1982. A cist at Ruchlaw Mains, East Lothian (NT 616742). *Proceedings of the Society of Antiquaries of Scotland* 112, 542–8
- Atkinson, J.A. 2002. Excavation of a Neolithic occupation site at Chapelfield, Cowie, Stirling. *Proceedings of the Society of Antiquaries of Scotland* 132, 139–92
- Bamford, H.M. 1982. *Beaker Domestic Sites in the Fen Edge and East Anglia*. East Anglian Archaeology 18. Gressenhall: Norfolk Archaeological Unit
- Barber, J. 1997. *The Archaeological Investigation of a Prehistoric Landscape: Excavations on Arran 1978–1981*. Edinburgh: Scottish Trust for Archaeological Research
- Barclay, A. & Glass, H. with Parry, C. 1995. Excavations of Neolithic and Bronze Age ring ditches, Shorncliffe Quarry, Somersford Keynes, Gloucestershire. *Transactions Bristol Gloucestershire Archaeological Society* 113, 21–60
- Barclay, A. & Halpin, C. 1999. *Excavations at Barrow Hills, Radley, Oxfordshire. Volume I. The Neolithic and Bronze Age Monument Complex*. Oxford: Oxford University Committee for Archaeology on behalf of the Oxford Archaeological Unit.
- Barker, H. & Mackey, J. 1968. British Museum natural radiocarbon measurements V. *Radiocarbon* 10, 1
- Barnatt, J. & Edmonds, M. 2002. Places apart? Caves and monuments in Neolithic and earlier Bronze Age Britain. *Cambridge Archaeological Journal* 12(1), 113–29
- Barrett, J.C., Bradley, R. & Green, M. 1991. *Landscape, Monuments and Society. The Prehistory of Cranborne Chase*. Cambridge: Cambridge University Press.
- Bates, S. & Wiltshire, P.E.J. 2000. Excavation of a burnt mound at Feltwell Anchor, Norfolk, 1992. *Norfolk Archaeology* 43(3), 389–414
- Bayliss, A., Bronk Ramsey, C., Cook, G. & van der Plicht, J. 2007a. *Radiocarbon Dates from Samples Funded by English Heritage under the Aggregates Levy Sustainability Fund 2002–4*. Swindon: English Heritage
- Bayliss, A., Whittle, A. & Wysocki, M., 2007b. Talking about my generation: the date of the West Kennet long barrow. *Cambridge Archaeological Journal* 17(1, supplement), 85–101
- Bayliss, A., Cook, G., Bronk Ramsey, C., van der Plicht, J. & McCormac, G. 2008. *Radiocarbon Dates from Samples Funded by English Heritage under the Aggregates Levy Sustainability Fund 2004–7*. Swindon: English Heritage
- Bell, M. 1983. Valley sediments as evidence of prehistoric land-use on the South Downs, *Proceedings of the Prehistoric Society* 49, 119–50
- Bell, M. 1990. *Brean Down. Excavations 1983–1987*. English Heritage Archaeological Report 15. London: Historic Buildings and Monuments Commission for England
- Bellamy, P.S. 1991. The excavation of Fordington Farm Round Barrow. *Proceedings of the Dorset Natural History and Archaeological Society* 113, 107–32
- Bennett, P., Clark, P., Hicks, A., Rady, J. & Riddler, I. 2008. *At the Great Crossroads: Prehistoric, Roman and Medieval Discoveries on the Isle of Thanet 1994–1995*. Canterbury: Canterbury Archaeological Trust, Occasional Paper 4
- Boston, C. Bowater, C., Boyle, A. & Holmes, A. 2003. Excavation of a Bronze Age barrow at the proposed Centre for Gene Function, South Parks Road, Oxford, 2002. *Oxoniensia* 68, 179–200.

- Boyd, J.D. 1965. Knockenny Farm, Glamis, short cist. *Discovery and Excavation in Scotland* 1965, 3
- Brassil, K. S., Owen, W.G. & Britnell, W.J. 1991. Prehistoric and early medieval cemeteries at Tadderwen, near Denbigh, Clwyd. *Archaeological Journal* 148, 46–97
- Brewster, T. C. M. 1984. *The Excavation of Whitegrounds barrow, Burythorpe*. Wintringham: John Gett Publications
- Brickley, M. & Thomas, R. 2004. The young woman and her baby or the juvenile and their dog: reinterpreting osteological material from a Neolithic long barrow. *Archaeological Journal* 161, 1–10
- Britnell, W. J. 1982. Collfryn hill-slope enclosure, Llansantffraid Deytheur (SJ222173). *Archaeology in Wales*, 22, 17
- Brown F., Howard-Davis, C. Brennan M., Boyle, A., Evans, T., O'Connor, S., Spence, A., Heawood, R. & Lupton, A. (eds) 2007. *The Archaeology of the A1 (M) Darrington to Dishforth DBFO Road Scheme*. Oxford: Oxford Archaeology.
- Burl, H.A.W. 1984. Report on the excavation of a Neolithic mound at Boghead, Speymouth Forest, Fochabers, Moray, 1972 and 1974. *Proceedings of the Society of Antiquaries of Scotland* 114, 35–73.
- Butterworth, C.A. 1992. Excavations at Norton Bavant Borrow Pit, Wiltshire, 1987. *Wiltshire Archaeological and Natural History Magazine* 85, 1–26
- Chalmers, J.H. 1868. Notice of the discovery of a stone kist at Broomend, near Inverurie, Aberdeenshire. *Proceedings of the Society of Antiquaries of Scotland* 7, 110–14
- Chapman, A., Carlyle, S. and Leigh, D. 2005. Neolithic and Beaker pits, and a Bronze Age landscape at Fenstanton, Cambridgeshire. *Proceedings of the Cambridge Antiquarian Society* 94, 5–20
- Childe, V.G., Edwards, A. J. H., Low, A. & Macdougall, M.O. 1944. Newly discovered short cist burials with Beakers. *Proceedings of the Society of Antiquaries of Scotland* 78, 106–19
- Clarke, D.L. 1970. *Beaker Pottery of Great Britain and Ireland*. Cambridge: Cambridge University Press
- Cleal, R.M.J., Walker, K.E. & Montague, R., 1995. *Stonehenge in its Landscape. Twentieth-century Excavations*. London: English Heritage Archaeological Report 10
- Close-Brooks, J. 1979. A Beaker cist at Skateraw, East Lothian. *Transactions of the East Lothian Antiquarian & Field Naturalists' Society* 16, 1–6
- Coombs, D. 1976. Beakers from Callis Wold, Barrow 275, Humberside (an interim report). In C. Burgess & R. Miket (eds), *Settlement and Economy in the Third and Second Millennia BC*, 289–309. Oxford: British Archaeological Reports British Series 33
- Connah, G., 1965. Excavations at Knap Hill, Alton Priors. *Wiltshire Archaeological and Natural History Magazine* 60, 1–23
- Connah, G., 1969. Radiocarbon dating for Knap Hill. *Antiquity* 43, 304–5.
- Coutts, H. 1971. *Tayside before History: a Guide Catalogue of the Collection of Antiquities in Dundee Museum*. Dundee: Dundee Museum and Art Gallery Publication, Catalogue 1.
- Crew, P. 1998. Excavations at Crawcwellt West, Merioneth 1990–1998: a late prehistoric upland iron-working settlement. *Archaeology in Wales* 38, 22–35
- Crowson, A. 2004. *Hot Rocks in the Norfolk Fens: the Excavation of a Burnt Flint mound at Northwold, 1994–5*. *East Anglian Archaeology Occasional Paper* 16. Gressenhall: Archaeology and Environment Division, Norfolk Museums and Archaeology Service
- Crowson, A. & Bayliss, A. 1999. Dating a burnt mound and its Beakers at Northwold, Norfolk. In J. Evin, C. Oberlin, J.P. Daugas & J.F. Salles (eds), *Actes du 3ème Congrès Internationale «Archéologie et <sup>14</sup>C, Lyon, 6–10 Avril 1998»*, 243–8. Revue d'Archéométrie Supplément 1999; Société Préhistorique Française Mémoire 26
- Cruden, S. 1958. Skateraw, East Lothian. *Discovery and Excavation in Scotland* 1958, 39
- Davidson, C.B. 1868. Notice of further stone kists found at Broomend, near the Inverurie paper-mills. *Proceedings of the Society of Antiquaries of Scotland* 7, 115–18
- Davies, S.M., Bellamy, P.S., Heaton, M.J. & Woodward, P.J. 2002. *Excavations at Alington Avenue, Fordington, Dorchester, Dorset, 1984–87*. Dorchester: Dorset Natural History and Archaeological Society Monograph 15
- Dawson, M., 1996. Plantation Quarry, Willington: Excavations 1988–1991. *Bedfordshire Archaeology* 22, 2–49
- Day, W. with Savory, H.N. 1972. The excavation of a Bronze Age burial mound at Ysgwennant, Llansilin, Denbighshire. *Archaeologia Cambrensis* 122, 17–50
- Dent, J.S. 1983. A summary of the excavations carried out in Garton Slack and Wetwang Slack, 1964–80. *East Riding Archaeology* 7, 1–14
- Donaldson, P. 1977. The excavation of a multiple round barrow at Barnack, Cambridgeshire, 1974–1976. *Antiquaries' Journal* 57, 197–231
- Drewett, P.L., 1986. The excavation of a Neolithic oval barrow at North Marden, West Sussex, 1982. *Proceedings of the Prehistoric Society* 52, 31–52.
- Dunwell, A. 2007. *Cist Burials and an Iron Age Settlement at Dryburn Bridge, Innerwick, East Lothian*. Scottish Archaeological Internet Reports 24. [Http://www.sair.org.uk/sair24/index.html](http://www.sair.org.uk/sair24/index.html)
- Ehrenberg, M., Price, J. & Vale, V. 1982. The excavation of two Bronze Age round barrows at Welsh St Donats, South Glamorgan. *Bulletin of the Board of Celtic Studies* 29, 776–842
- Evans, C. 2009. *Fengate Revisited. Further Fen-edge Excavations, Bronze Age Fieldsystems and Settlement and the Wyman Abbott/Leeds Archives*. Cambridge Archaeological Unit Landscape Archives Series Historiography and Fieldwork 1. Cambridge: Cambridge Archaeological Unit

- Evans, C. & Hodder, I. 2006. *Marshland Communities and Cultural Landscapes. The Haddenham Project Volume 2*. Cambridge: McDonald Institute for Archaeological Research.
- Evans, J.G. 1984. Stonehenge — the environment in the late Neolithic and early Bronze Age and a Beaker-age burial. *Wiltshire Archaeological and Natural History Magazine* 78, 7–30
- Fitzpatrick, A.P. 2011. *Amesbury Archer and Boscombe Bowmen. Early Beaker burials at Boscombe Down, Amesbury, Wiltshire, Great Britain*. Salisbury: Wessex Archaeology Report 27
- Fox, C. 1923. *The Archaeology of the Cambridge Region*. Cambridge: Cambridge University Press
- French, C.A.I. 1994. *Excavation of the Deeping St Nicholas Barrow Complex, South Lincolnshire*. Heckington: Lincolnshire Archaeology and Heritage Report 1
- French, C., Lewis, H., Allen, M.J., Green, M., Scaife, R. & Gardiner, J. 2007. *Prehistoric landscape development and human impact in the upper Allen valley, Cranborne Chase, Dorset*. Cambridge: McDonald Institute for Archaeological Research
- Gardiner, J., Allen, M.J., Powell, A., Harding, P., Lawson, A.J., Loader, E., McKinley, J.I., Sheridan, A. & Stevens. C. 2007. A matter of life and death: late Neolithic, Beaker and early Bronze Age settlement and cemeteries at Thomas Hardy School, Dorchester. *Proceedings of the Dorset Natural History and Archaeological Society* 128, 17–52
- Garrow, D., Lucy, S. & Gibson, D., 2006. *Excavations at Kilverstone, Norfolk: an Episodic Landscape History*. East Anglian Archaeology Report 113. Cambridge: Cambridge Archaeological Unit
- Gibson, A. 2007. A Beaker veneer? Some evidence from the burial record. In M. Larsson & M. Parker Pearson (eds), *From Stonehenge to the Baltic. Living with Cultural Diversity in the Third Millennium BC*, 47–64. British Archaeological Reports International Series 1692. Oxford: Archaeopress
- Gibson, A. 1994. Excavations at the Sarn-y-bryn-caled cursus complex, Welshpool, Powys, and the timber circles of Great Britain and Ireland. *Proceedings of the Prehistoric Society* 60, 142–23
- Gingell, C. 1992. *The Marlborough Downs: a Later Bronze Age Landscape and its Origins*. Devizes: Wiltshire Archaeological and Natural History Society Monograph 1
- Goddard, E.H. 1917. Early Bronze Age interment at the central flying school, Upavon. *Wiltshire Archaeological and Natural History Magazine* 40, 6–7
- Gourlay, R.B. 1984. A short cist Beaker inhumation from Chealamy, Strathnaver, Sutherland. *Proceedings of the Society of Antiquaries of Scotland* 114, 567–71
- Gourlay, R.B. & Harden, G. 1985. Fodderty Farm (Fodderty p) Short cist. *Discovery and Excavation in Scotland 1985*, 23
- Gossip, I. 2005. *Nancemere, Truro, Cornwall, Stage II: Archaeological Excavation*. Client Report. Truro: Historic Environment Service, Cornwall County Council
- Green, C. & Rollo-Smith, S. 1984. The excavation of eighteen round barrows near Shrewton, Wiltshire. *Proceedings of the Prehistoric Society* 50, 255–318
- Green, H.S. 1974. Early Bronze Age territory and population in Milton Keynes, Buckinghamshire, and the Great Ouse valley. *Archaeological Journal* 131, 75–139
- Harding, J. 2003. *The Henge Monuments of the British Isles*. Stroud: Tempus
- Harding, J. & Healy, F. 2007. *The Raunds Area Project: a Neolithic and Bronze Age Landscape in Northamptonshire*. Swindon: English Heritage
- Harris, D. 1979. Poldowrian, St Keverne: a Beaker mound if the Gabbro of the Lizard peninsula. *Cornish Archaeology* 18, 13–32
- Haughton, C. & Powlesland, D. 1999. *West Heslerton. The Anglian Cemetery. The Excavation and Discussion of the Evidence*. Yedingham: the Landscape Research Centre
- Healy, F. 1982. A round barrow at Trowse: Early Bronze Age burials and medieval occupation. In P. Wade-Martins (ed.), *Trowse, Horning, Deserted Medieval Villages, King's Lynn*, 1–34. East Anglian Archaeology 14. Gressenhall: Norfolk Archaeological Unit
- Healy, F. 1997. Site 3. Flagstones. In R.J.C. Smith, F. Healy, M.J. Allen, E.L. Morris, I. Barnes, & P.J. Woodward, *Excavations along the Route of the Dorchester By-pass, Dorset*, 1986–8, 27–48. Salisbury: Wessex Archaeological Report 11
- Henshall, A., 1964. A dagger grave and other cist burials at Ashgrove, Methilhill, Fife. *Proceedings of the Society of Antiquaries of Scotland* 97, 166–79
- Hughes, G 2000 *The Lockington Gold Hoard. An Early Bronze Age Barrow Cemetery at Lockington, Leicestershire*. Oxford: Oxbow Books
- Jobey, G. 1968. Excavation of cairns at Chatton Sandyford, Northumberland. *Archaeologia Aeliana* 4th series 46, 5–150
- Johnson, B. & Waddington, C. 2008. Prehistoric and Dark Age settlement remains from Cheviot Quarry, Milfield Basin, Northumberland. *Archaeological Journal* 165, 107–264.
- Jones, A. M. & Quinnell, H. 2006. Cornish Beakers: new discoveries and perspectives. *Cornish Archaeology* 45, 31–69
- Jones, P. 2008. *A Neolithic Ring Ditch and Later Prehistoric Features at Staines Road Farm, Shepperton*. Godalming: Surrey County Archaeological Unit.
- Kinnes, I., Gibson, A., Ambers, J., Bowman, S., Leese, M. & Boast, R. 1991. Radiocarbon dating and British Beakers: the British Museum programme. *Scottish Archaeological Review* 8, 35–68

- Lambrick, G. & Allen, T. 2004. *Gravelly Guy, Stanton Harcourt: the Development of a Prehistoric and Romano-British Community*. Thames Valley Landscapes Monograph 21. Oxford: Oxford Archaeology
- Lawson, A.J. 1986. *Barrow Excavations in Norfolk, 1950–82* (E Anglian Archaeol Rep 29). Gressenhall: Norfolk Archaeological Unit
- Lawson, J.A. 2001. Haddington Mains cist. *Discovery and Excavation in Scotland* 2, 123
- Lawson, J.A. & Henderson, D. 1999, Abbey Mains Farm, Haddington. *Discovery and Excavation in Scotland 1999*, 28
- Leaf, C.S. 1934. Report on the excavation of two sites in Mildenhall Fen. *Proceedings of the Cambridge Antiquarian Society* 35, 106–27
- Leaf, C.S. 1940. Further excavations in the Bronze Age barrows at Chippenham, Cambridgeshire. *Proceedings of the Cambridge Antiquarian Society* 39, 29–68
- Lelong, O. & MacGregor, G. 2007. *The Lands of Ancient Lothian: Interpreting the Archaeology of the A1*. Edinburgh: Society of Antiquaries of Scotland.
- Lynch, F. 1986. Excavation of a kerb circle and ring cairn on Cefn Caer Euni, Merioneth. *Archaeologia Cambrensis* 135, 81–120
- Lynch, F. 1993. *Excavations in the Brenig Valley: a Mesolithic and Bronze Age Landscape in North Wales*. Bangor: Cambrian Archaeological Monograph 5
- Lynch, F. & Musson, C., 2001. A prehistoric and early medieval complex at Llandegai, near Bangor, north Wales. *Archaeologia Cambrensis* 150, 17–142
- MacGregor, G. 1996. Fox Plantation (Inch parish), prehistoric settlements excavation. *Discovery and Excavation in Scotland 1996*, 29
- McDonnell, J. (ed.) 1963. *A History of Helmsley, Rievaulx and District by Members of the Helmsley & Area Group of the Yorkshire Archaeological Society*. York: The Stonegate Press
- McGill, C. 2004. Excavations of cropmarks at Newbarns, near Inverkeilor, Angus. *Tayside and Fife Archaeological Journal* 10, 94–118
- Mackreth, D.F., forthcoming. Prehistoric burial sites and finds in Orton Meadows, Peterborough.
- Manby, T.G., Moorhouse, S. & Ottaway, P. 2003. *The Archaeology of Yorkshire : an Assessment at the Beginning of the 21st century : Papers Arising out of the Yorkshire Archaeological Resource Framework Forum Conference at Ripon, September 1998*. Leeds: Yorkshire Archaeological Society
- Martin, E.A. 1976a. The excavation of two tumuli on Waterhall Farm, Chippenham, Cambridgeshire, 1973. *Proceedings of the Cambridge Antiquarian Society* 66, 1–22
- Martin, E.A. 1976b. The excavation of a tumulus at Barrow Bottom, Risby, 1975. In S. West (ed.), *East Anglian Archaeology Report No 3*, 43–62. Ipswich: Suffolk County Council Planning Department
- Martin, E.A. & Denston, C.B. 1986. A Bronze Age multiple burial at Exning'. *Proceedings of the Suffolk Institute of Archaeology and History* 36(2), 131–4
- Meadows, J., Barclay, A. & Bayliss, A. 2007. A short passage of time: the dating of the Hazleton long cairn revisited. *Cambridge Archaeological Journal* 17(1, supplement), 45–64
- Mercer, R., 1981. The excavation of a late Neolithic henge-type enclosure at Balfarg, Markinch, Fife, Scotland, 1977–78. *Proceedings of the Society of Antiquaries of Scotland* 111, 63–171
- Mercer, R. & Healy, F. 2008. *Hambleton Hill, Dorset: Excavation and Survey of a Neolithic Monument Complex and its Surrounding Landscape*. Swindon: English Heritage
- Mortimer, J.R. 1905. *Forty Years' Researches in the British and Saxon Burial Mounds of East Yorkshire*. London: A. Brown
- Moss-Eccardt, J. 1988. Archaeological investigations in the Letchworth area, 1958–1974: Blackhorse Road, Letchworth; Norton Road, Baldock; Wilbury Hill, Letchworth. *Proceedings of the Cambridge Antiquarian Society* 77, 35–103
- Murray, D. & Ralston, I. 1997. The excavation of a square-ditched barrow and other cropmarks at Boysack Mills, Inverkeilor, Angus. *Proceedings of the Society of Antiquaries of Scotland* 127, 359–86
- Murray, H.K. & Shepherd, I.A.G. 2007. Excavation of a Beaker cist burial with meadowsweet at Home Farm, Udney Green, Aberdeenshire. *Proceedings of the Society of Antiquaries of Scotland* 137, 35–58
- Needham, S. 1996. Chronology and periodisation in the British Bronze Age. In K. Randsborg (ed.), *Absolute Chronology: Archaeological Europe 2500–500 BC*, 121–40. *Acta Archaeologica* 67
- Needham, S. 1999. Radley and the development of early metalwork in Britain. In A. Barclay & C. Halpin, *Excavations at Barrow Hills, Radley, Oxfordshire. Volume 1: the Neolithic and Bronze Age Monument Complex*, 186–92. Thames Valley Landscapes Monograph 11. Oxford: Oxford Archaeological Unit
- Needham, S. 2005. Transforming Beaker culture in North-West Europe; processes of fusion and fission. *Proceedings of the Prehistoric Society* 71, 171–217
- Needham, S., Parker Pearson, M., Tyler, A., Richards, M. & Jay, M. 2010. A first 'Wessex 1' date from Wessex. *Antiquity* 84(324), 363–73
- Perkins, D.R.J. & Gibson, A.M. 1990. A Beaker burial from Manston, near Ramsgate. *Archaeologia Cantiana* 108, 11–27
- Phillips, M. 2009. *Four Millennia of Human Activity along the A505 Baldock Bypass, Hertfordshire*. East Anglian Archaeology Report 128. Bedford: Albion Archaeology.
- Piggott, S. 1962. *The West Kennet Long Barrow: Excavations 1955–56*. London: HMSO

- Piggott, S. 1972. Excavation of the Dalladies long barrow, Fettercairn, Kincardineshire. *Proceedings of the Society of Antiquaries of Scotland* 104, 23–47
- Pitt-Rivers, A.L.F., 1888. *Excavations in Cranborne Chase near Rushmore on the Borders of Dorset and Wilts 1880–1888 Volume II*. London: Privately printed
- Pitt-Rivers, A.L.F. 1898. *Excavations in Cranborne Chase near Rushmore on the Borders of Dorset and Wilts 1893–1896 Volume IV*. Privately printed
- Pollard, J. & Healy, F. (eds) 2008. Neolithic and early Bronze Age. In C.J. Webster (ed.), *The Archaeology of South West England: South West Archaeological Research Framework and Research Agenda*, 75–101. Taunton: Somerset County Council.
- Powell, A.B. 2008. Neolithic and early Bronze Age (Area 3). In A.P. Fitzpatrick, A.B. Powell & M.J. Allen, *Archaeological Excavations on the Route of the A27 Westhampnett Bypass, West Sussex, 1992. Volume 1: Late Upper Palaeolithic-Anglo-Saxon*, 117–22. Wessex Archaeology Report 21. Salisbury: Trust for Wessex Archaeology Ltd.
- Powlesland, D. 1986. Excavations at Heslerton, North Yorkshire, 1978–82. *Archaeological Journal* 143, 53–173
- Ralston, I.B.M. 1996. Four short cists from north-east Scotland and Easter Ross. *Proceedings of the Society of Antiquaries of Scotland* 126, 121–55
- Reynolds, T. 1992. *A Buried Prehistoric Landscape at Barnack*. Cambridgeshire Archaeology Report 58. Cambridge: Cambridgeshire Archaeology
- Richards, J. 1990b. Death and the past environment. The results of work on barrows on the Berkshire Downs. *Berkshire Archaeological Journal* 73 [for 1986–90], 1–42
- Ritchie, J.N.G. & Crawford, J. 1978. Excavations at Sorisdale and Killunaig, Coll. *Proceedings of the Society of Antiquaries of Scotland* 109, 75–84.
- Roberts, J. 1998. A contextual approach to the interpretation of the early Bronze Age skeletons of the East Anglian peat fens. *Antiquity* 72(275), 188–97
- Robertson, A. 1854. Notes of the discovery of stone cists at Lesmurdie, Banffshire, containing primitive urns, &c., along with human remains. *Proceedings of the Society of Antiquaries of Scotland* 1, 205–11
- Robertson-Mackay, M.E. 1980. A 'head and hooves' burial beneath a round barrow, with other Neolithic and Bronze Age sites, on Hemp Knoll, near Avebury, Wiltshire. *Proceedings of the Prehistoric Society* 46, 123–76
- Russel, A.D. 1990. Two Beaker burials from Chilbolton, Hampshire. *Proceedings of the Prehistoric Society* 56, 153–72
- Russell, V. & Pool, P.A.S. 1964. Excavation of a menhir at Try, Gulval. *Cornish Archaeology* 3, 15–26
- Rutland, R.A. 1975. A Beaker burial at Smeeton Westerby, Leicestershire, 1975. *Transactions of the Leicestershire Archaeological and Historical Society* 50, 46–8, 75–6
- Rutland, R.A. 1976. A Beaker burial at Smeeton Westerby, Leicestershire, 1975. An addendum. *Transactions of the Leicestershire Archaeological and Historical Society* 51, 46–8
- Saville, A. 1983. Excavations at Condicote henge monument, Gloucestershire, 1977. *Transactions of the Bristol and Gloucestershire Archaeological Society* 101, 21–47
- Saville, A., 1990. *Hazleton North, Gloucestershire, 1979–82: the Excavation of a Neolithic Long Cairn of the Cotswold-Severn Group*. English Heritage Archaeological Report 13. London: Historic Buildings and Monuments Commission for England.
- Schulting R.J. 2000. New AMS dates from the Lambourn long barrow and the question of the earliest Neolithic in southern England: repacking the Neolithic package? *Oxford Journal of Archaeology* 19(1), 25–35
- Sharples, N. 1991. *Maiden Castle: Excavations and Field Survey 1985–6*. London: English Heritage
- Shepherd, I.A.G. 1982. The artefacts. In T. Watkins, The excavation of an early Bronze Age cemetery at Barns Farm, Dalgety, Fife. *Proceedings of the Society of Antiquaries of Scotland* 112, 99–113
- Shepherd, I.A.G. 1986. *Powerful Pots: Beakers in North-East Prehistory*. Aberdeen: Anthropological Museum University of Aberdeen
- Shepherd, I.A.G. 2005. Radiocarbon dates sponsored by Aberdeenshire Archaeology. *Discovery and Excavation in Scotland* 6, 184–5
- Shepherd, I.A.G. & Bruce, M.F. 1987. Two beaker burials from Keabog, Pitdrichie, near Drumlithie, Kincardine and Deeside. *Proceedings of the Society of Antiquaries of Scotland* 117, 33–40
- Shepherd, I.A.G., Shepherd, A.N. & Bruce, M.F. 1984. A Beaker burial at Mains of Balnagowan, Ardersier, Inverness District. *Proceedings of the Society of Antiquaries of Scotland* 114, 560–66
- Sheridan, A. 2007. Scottish Beaker dates: the good, the bad and the ugly. In M. Larsson & M. Parker Pearson (eds), *From Stonehenge to the Baltic. Living with Cultural Diversity in the Third Millennium BC*, 91–123. British Archaeological Reports International Series 1692. Oxford: Archaeopress.
- Sheridan, A. 2008. Upper Largie and Dutch-Scottish connections during the Beaker period. In H. Fokkens, B.J. Coles, A.L. Van Gijn, J.P. Kleijne, H.H. Ponjee & C.G. Slappendel (eds), *Between Foraging and Farming: an Extended Broad Spectrum, of Papers Presented to Leendert Louwe Kooijmans*, 247–60. *Analecta Praehistorica Leidensia* 40. Leiden: Leiden University
- Simpson, W.G. 1976. A barrow cemetery of the second millennium bc at Tallington, Lincolnshire. *Proceedings of the Prehistoric Society* 42, 215–40

- Smedley, N. 1957. Archaeology in Suffolk 1956. *Proceedings of the Suffolk Institute of Archaeology and History* 27(2), 117
- Smith, I.F., 1955. Late Beaker pottery from the Lyonesse surface and the date of the transgression. *Institute of Archaeology Annual Report* 11, 29–42
- Smith, M. & Brickley, M. 2006. The date and sequence of use of Neolithic funerary monuments: new AMS dating evidence from the Cotswold Severn region. *Oxford Journal of Archaeology* 25, 335–56.
- Smith, R.J.C., Healy, F., Allen, M.J., Morris, E.L., Barnes, I. & Woodward, P.J. 1997. *Excavations along the Route of the Dorchester By-pass, Dorset, 1986–8*. Salisbury: Wessex Archaeology
- Stevenson, R.B.K. 1940. Short cists in the Parish of Innerwick, East Lothian: (a) Thurston Mains, (b) Skateraw. *Proceedings of the Society of Antiquaries of Scotland* 74 138–45
- Thomas, A. & Holbrook, N. 1998. Excavations at the Memorial Hall, Lechlade, 1995. In A. Boyle, D. Jennings, D. Miles & S. Palmer. *The Anglo-Saxon Cemetery at Butler's Field, Lechlade, Gloucestershire. Volume 1: Prehistoric and Roman Activity and Grave Catalogue*, 282–8. Thames Valley Landscapes 10. Oxford: Oxford University Committee for Archaeology for the Oxford Archaeological Unit
- Vatcher, F. de M. & Vatcher, H. L. 1976. The excavation of a round barrow near Poor's Heath, Risby, Suffolk. *Proceedings of the Prehistoric Society* 42, 263–92
- Wainwright, G.J. & Davies, S.M. 1995. *Balksbury Camp, Hampshire: Excavations 1973 and 1981*. London: English Heritage Archaeological Report 4
- Wainwright, G. J. & Longworth, I.H., 1971. *Durrington Walls: Excavations 1966–1968*. Report of the Research Committee of the Society of Antiquaries of London 29. London: Society of Antiquaries of London.
- Warrilow, W., Owen, G. & Britnell, W. J. 1986. Eight ring-ditches at Four Crosses, Llandysilio, Powys. *Proceedings of the Prehistoric Society*, 52, 53–87
- Watkins, T. 1982. The excavation of an early Bronze Age cemetery at Barns Farm, Dalgety, Fife. *Proceedings of the Society of Antiquaries of Scotland* 112, 48–141
- Webley, D.P. 1976. How the west was won: prehistoric land-use in the Southern Marches. In G.C. Boon & J.M. Lewis (eds), *Welsh Antiquity: Essays Mainly on Prehistoric Topics Presented to H.N. Savory upon his Retirement as Keeper of Archaeology*, 19–35. Cardiff: National Museum of Wales.
- Whittle, A., Pollard, J. & Grigson, C. 1999. *The Harmony of Symbols: the Windmill Hill Causewayed Enclosure, Wiltshire*. Oxford: Oxbow Books.
- Wilkinson, T.J. & Murphy, P.L., 1995. *The Archaeology of the Essex Coast, Volume I: the Hullbridge Survey*. East Anglian Archaeology 71. Chelmsford: Essex County Council
- Witts, G.B. 1881. Description of the long barrow, called 'West Tump', in the parish of Brimpsfield, Gloucestershire. *Transactions of the Bristol and Gloucestershire Archaeological Society* 5, 201–11
- Wymer, J.J. 1966. Excavations of the Lambourn long barrow. *Berkshire Archaeological Journal* 62, 1–16
- Wymer, J.J. 1996. *Barrow Excavations in Norfolk, 1984–88*. East Anglian Archaeology 77. Gressenhall: Field Archaeology Division, Norfolk Museum Services

## The Beaker People Project: an interim report on the progress of the isotope analysis of organic skeletal material

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*This paper is intended as an interim update for the Beaker People Project. The project aims to investigate mobility, diet, environment, and subsistence for the Late Neolithic, Chalcolithic, and Early Bronze Age population of Britain using a number of research tools, but particularly isotopic analysis of bones and teeth. This paper concentrates on the organic analyses yielding carbon, nitrogen, and sulphur isotope ratio data, but also discusses the project remit and the use of strontium and oxygen ratio values to track mobility. The project is discussed in general terms, an overview of the collagen analysis results is provided, general diet at this time is discussed, and interesting facets of the carbon and sulphur data are covered. Over 250 individuals from the north of Scotland down to southern England have been investigated for this project and a site list is included. This is a major five year project, so the discussion here is necessarily limited to the situation at the date of writing (June 2009) rather than to the publication date of this volume.*

Table 15.1: List of individuals included in the Beaker People Project for isotope analysis

SK No. <sup>1</sup>	Site & burial	Curator/temporary curator	Curator reference
1	Ruchlaw Mains, East Lothian	National Museums Scotland	NMS X.unreg/RUC
2	Redden Farm, Sprouston, Scottish Borders	National Museums Scotland	NMS X.unreg/RFS
4	Blackness Castle, West Lothian	National Museums Scotland	NMS X.EE 135a
5	Kirk Park, Musselburgh, Midlothian	National Museums Scotland	NMS X.ET 64
6	Boatbridge Quarry (Cist 2), Thankerton, South Lanarkshire	National Museums Scotland	NMS X.unreg/BQT
8	Gairneybank (Cist 3), Perth & Kinross	National Museums Scotland	NMS X.unreg/GAI
9	Skateraw (Roy Ritchie, 1958), East Lothian	National Museums Scotland	NMS X.unreg/SKARR
10	Skateraw (Joanna Close-Brooks, 1972), East Lothian	National Museums Scotland	NMS X.FG 105a
12	Juniper Green, Midlothian	National Museums Scotland	NMS X.ET 33
13	Kinlaidie (Kinaldy), Kintore, Aberdeenshire	National Museums Scotland	NMS X.ET 35
14	Ardachy, Mull, Argyll & Bute	National Museums Scotland	NMS X.unreg / EUAD IB 218
15	Thurston Mains (Skeleton 1), East Lothian	National Museums Scotland	NMS X.EQ 479 sk1
16	Tormore (Machrie Moor circle 3), Arran, North Ayrshire	National Museums Scotland	NMS X.ET 54
17	Broomend of Cricchie (Cist 1, ET 4), Aberdeenshire	National Museums Scotland	NMS X.ET 4
18	Broomend of Cricchie (Cist 1, ET 5), Aberdeenshire	National Museums Scotland	NMS X.ET 5
19	Clashfarquhar (Longhillock Cottages), Aberdeenshire	National Museums Scotland	NMS X.ET 16
20	Tealing Hill, Angus	National Museums Scotland	NMS X.ET 53
21	Near the House of the Binns, West Lothian	National Museums Scotland	NMS X.ET 19
23	Birsley Quarry, Tranent, East Lothian	National Museums Scotland	NMS X.unreg / EUAD IB 205
25	Porton, Wiltshire 1902, adult burial 4	National Museums Scotland	NMS X.unreg/POR
26	Porton, Wiltshire 1902, burial 1	National Museums Scotland	NMS X.unreg/POR
27	Sorisdale, Coll, Argyll & Bute	National Museums Scotland	NMS X.unreg/SOR
28	Slap, Turriff, Aberdeenshire	National Museums Scotland	NMS X.unreg
29	Near Kelso (near Littledean Tower), Scottish Borders	National Museums Scotland	NMS X.unreg
30	Holm Mains Farm (Cist 1), Inverness, Highland	c/o Headland Archaeology	
31	Holm Mains Farm (Cist 2), Inverness, Highland	c/o Headland Archaeology	
32	Kilspindie, Aberlady, East Lothian	Marischal Museum	ABDUA 14229
33	Western Castle Hill, Boyndlicie, Aberdeenshire	Marischal Museum	ABDUA 14228
34	Carnach House, Delnies, Highland	Marischal Museum	ABDUA 14250
35	Uppermains, Catterline, Aberdeenshire	Marischal Museum	ABDUA 14793
37	Gulduthel, Highland	Marischal Museum	ABDUA 14221
38	Nether Craggie, Dunnottar, Aberdeenshire	Marischal Museum	ABDUA 14247

SK No. <sup>1</sup>	Site & burial	Curator/temporary curator	Curator reference
39	Dalmore (Cist 1), Highland	Marischal Museum	ABDUA 14233
40	Dalmore (Cist 2), Highland	Marischal Museum	ABDUA 14234
41	Park Quarry (Cist 1), Durris, Aberdeenshire	Marischal Museum	ABDUA 14752
42	Foveran, Formartine, Aberdeenshire	Marischal Museum	ABDUA 14257
43	Golspie (Cist 2), Highland	Marischal Museum	ABDUA 14757
44	Sea View Crescent, Gourdon, Aberdeenshire	Marischal Museum	ABDUA 90007
45	Keir, Belhelvie, Aberdeenshire	Marischal Museum	ABDUA 14226
46	Manar House, Inverurie, Aberdeenshire	Marischal Museum	ABDUA 14765
47	Newlands (Cist 1), Oyne, Aberdeenshire	Marischal Museum	ABDUA 14248
49	Priory Park, Kirkcaldy, Fife	Marischal Museum	ABDUA 90009
50	Pitdrichie (Cist 2), Keabog, Aberdeenshire	Marischal Museum	ABDUA 90006
51	Sandhole, Fetterangus, Aberdeenshire	Marischal Museum	ABDUA 14300
52	9 Holdings, Strathnaver, Highland	Marischal Museum	ABDUA 14251
53	Stoneywood (Cist 1), Newhills, Aberdeenshire	Marischal Museum	ABDUA 14222
54	Whitestone, Skene, Aberdeenshire	Marischal Museum	ABDUA 14220
55	Fodderty Farm, Highland	Inverness Museum	INVMG 980.11.8
56	Lochend, Highland	Inverness Museum	INVMG 978.38
58	Garrowby Wold 62, east Yorkshire	Hull & East Riding Museum	Box 6490. 203/1/3
61	Acklam Wold 124 (Burial 4), east Yorkshire	Hull & East Riding Museum	Box 9095. 201/1/0
62	Garton Slack 82 (Grave H, Sk 41), east Yorkshire	Hull & East Riding Museum	Box 6530. 203/3/4
64	Garton Slack 40 (Burial A, Skull 62), east Yorkshire	Hull & East Riding Museum	Box 6515. 203/2/4
65	Hangng Grimston 56 (Skull from Burial 3), east Yorkshire	Hull & East Riding Museum	Box 6054. 205/2/5
66	Aldro 52 (Burial 3), east Yorkshire	Hull & East Riding Museum	Box 6256. 201/1/5
67	Garton Slack 79 (Burial 1), east Yorkshire	Hull & East Riding Museum	Box 6524. 203/3/3
68	Hangng Grimston 56 (Burial 5), east Yorkshire	Hull & East Riding Museum	Box 6056. 205/2/5
69	Garrowby Wold 101 (Burial C, Skull No. 83), east Yorkshire	Hull & East Riding Museum	Box 6495. 203/1/4
70	Garrowby Wold 101 (Burial A), east Yorkshire	Hull & East Riding Museum	Box 6495. 203/1/4
71	Garrowby Wold 101 (Burial B), east Yorkshire	Hull & East Riding Museum	Box 6495. 203/1/4
72	Acklam Wold 204 (Burial 4), east Yorkshire	Hull & East Riding Museum	Box 6240. 201/1/1
73	Calais Wold 100 (Skull 89, Burial 2), east Yorkshire	Hull & East Riding Museum	Box 6363. 202/2/3
76	Painsthorpe Wold 4 (Burial 1), east Yorkshire	Hull & East Riding Museum	Box 6115. 206/2/1
77	Calais Wold 275 (Burial 3), east Yorkshire	Hull & East Riding Museum	Box 6372. 202/2/4
78	Calais Wold 275 (Burial 9), east Yorkshire	Hull & East Riding Museum	Box 6372. 202/2/4

SK No. <sup>1</sup>	Site & burial	Curator/temporary curator	Curator reference
79	Aldro 116 (Burial 6), east Yorkshire	Hull & East Riding Museum	Box 5600. 201/2/2
81	Aldro 116 (Burial 2), east Yorkshire	Hull & East Riding Museum	Box 5600. 201/2/2
83	Aldro 116 (Burial 3), east Yorkshire	Hull & East Riding Museum	Box 5600. 201/2/2
84	Garton Slack 81 (Burial 2), east Yorkshire	Hull & East Riding Museum	Box 6528. 203/3/4
85	Garton Slack C63 (Burial 4, Grave D, Skull No. 13), east Yorkshire	Hull & East Riding Museum	Box 6020. 205/1/1
88	Towthorpe 43 (Burial 1, Skull No. 66a), east Yorkshire	Hull & East Riding Museum	Box 6176. 207/1/3
89	Garrowby Wold 120 (Burial 1), east Yorkshire	Hull & East Riding Museum	Box 6235. 203/2/1
91	Aldro 53, east Yorkshire	Hull & East Riding Museum	Box 7496. 201/1/5. Bag 2
92	Garton Slack C162 (Burial 5, Skull No. 52), east Yorkshire	Hull & East Riding Museum	Box 6016. 205/1/1
93	Garton Slack C62 (Burial 2, Skull No. 54), east Yorkshire	Hull & East Riding Museum	Box 6016. 205/1/1
94	Hanging Grimston 56 (Sk. 2), east Yorkshire	Hull & East Riding Museum	Box 6053. 205/2/4
95	Aldro 175 (Burial 2), east Yorkshire	Hull & East Riding Museum	Box 5875. 201/2/4
96	Garrowby Wold 32 (Burial 4, Sk. No. 86), east Yorkshire	Hull & East Riding Museum	Box 6485. 203/1/2
97	Blanch 232 (Burial 1), east Yorkshire	Hull & East Riding Museum	Box 6307. 203/1/1
98	Garton Slack 82 (Grave F, Sk. No. 39), east Yorkshire	Hull & East Riding Museum	Box 6529. 203/3/4
99	Garton Slack 82 (Grave J, Sk. No. 40), east Yorkshire	Hull & East Riding Museum	Box 6529. 203/3/4
101	Painsthorpe Wold 200, east Yorkshire	Hull & East Riding Museum	Box 6134. 206/2/5
102	Aldro 113 (Burial 1, Sk. 50), east Yorkshire	Hull & East Riding Museum	Box 6268. 201/2/1
103	Towthorpe 72 (Burial D, Skull 67), east Yorkshire	Hull & East Riding Museum	Box 6180. 207/1/3
104	Towthorpe 72 (Burial B), east Yorkshire	Hull & East Riding Museum	Box 6180. 207/1/3
106	Garton Slack 37 (Burial 10, Sk. 5), east Yorkshire	Hull & East Riding Museum	Box 6510. 203/2/4
107	Garton Slack 37 (Burial 3, Sk. 6), east Yorkshire	Hull & East Riding Museum	Box 6510. 203/2/4
108	Garton Slack C52 (Burial 5, Sk. 20), east Yorkshire	Hull & East Riding Museum	Box 6004. 204/3/3
109	Garrowby Wold 104 (Burial 1), east Yorkshire	Hull & East Riding Museum	Box 649 (box 'b'). 203/1/4
110	Garrowby Wold 104 (Skull No. 37, Burial 2), east Yorkshire	Hull & East Riding Museum	Box 649 (box 'b'). 203/1/4
111	Garton Slack C63 (Burial 2, Sk. 14), east Yorkshire	Hull & East Riding Museum	Box 6022. 205/1/2
113	Garton Slack C52 (Burial 4, Sk. 98), east Yorkshire	Hull & East Riding Museum	Box 6001. 204/3/2
115	Aldro 52 (Sk fragmented at head of Burials 1 & 2), east Yorkshire	Hull & East Riding Museum	Box 6255. 201/1/5
116	Calais Wold 275 (Burial 7, Sk. 90), east Yorkshire	Hull & East Riding Museum	Box 6373. 202/2/4
117	Calais Wold 275 (Burial 8? Found with Burial 8 Sk. 91), east Yorkshire	Hull & East Riding Museum	Box 6373. 202/2/4
118	Calais Wold 275 (Burial 8? Found with Burial 8 Sk. 91), east Yorkshire	Hull & East Riding Museum	Box 6373. 202/2/4
119	Garton Slack 152 (Burial 3), east Yorkshire	Hull & East Riding Museum	Box 6002. 204/3/2
120	Acklam Wold 205 (Burial 6), east Yorkshire	Hull & East Riding Museum	Box 6241. 201/1/2

SK No. <sup>1</sup>	Site & burial	Curator / temporary curator	Curator reference
121	Garton Slack 75 (Burial 1, Sk. No. 25), east Yorkshire	Hull & East Riding Museum	Box 6520. 203/3/1
122	Garton Slack 75 (Burial 2, Grave 1, Sk. No. 23), east Yorkshire	Hull & East Riding Museum	Box 6520. 203/3/1
123	Garton Slack 37 (Burial 12, Sk. No. 7), east Yorkshire	Hull & East Riding Museum	Box 6508. 203/2/4
124	Garton Slack 37 (Burial 9, Sk. No. 4), east Yorkshire	Hull & East Riding Museum	Box 6508. 203/2/4
125	Acklam Wold 124 (Burial 1), east Yorkshire	Hull & East Riding Museum	Box 6233. 201/1/0
126	Acklam Wold 124 (Burial 3), east Yorkshire	Hull & East Riding Museum	Box 6233. 201/1/0
127	Painsthorpe Wold 98 (Grave c, Sk. No. 27), east Yorkshire	Hull & East Riding Museum	Box 6124. 206/2/3
128	Painsthorpe Wold 98 (Grave b, Sk. No. 28), east Yorkshire	Hull & East Riding Museum	Box 6124. 206/2/3
129	Abbey Mains Farm, East Lothian	East Lothian Museums Service	HAF 99.005
130	Roundway G8, Wiltshire	Devizes Museum	DM Cat 59-63. Attic store, Box 571
131	Roundway G9, Wiltshire	Devizes Museum	Box 418
132	Winterbourne Monkton (probably Cist 2), Wiltshire	Devizes Museum	Attic store, Box 523
133	Winterbourne Stoke G43, Wiltshire	Devizes Museum	Box 439
134	Netheravon flying school (Individual 2), Fittleton, Wiltshire	Devizes Museum	DM Cat 106 & 111. Attic store, Box 414
135	Netheravon flying school (Individual 1), Fittleton, Wiltshire	Devizes Museum	Box 414
136	Upavon flying school, Upavon, Wiltshire	Devizes Museum	DM Cat 100 & 101. Attic store, Box 423
137	Wilsford G54 (Skeleton 7), Wiltshire	Devizes Museum	Box 429
138	Wilsford G51 (Burial 1a), Wiltshire	Devizes Museum	Box 425
139	West Overton, Lockeridge (Burial 1b), Wiltshire	Devizes Museum	3006/516
140	Shrewton 5a (Interment 40 / Interment 1 on site plan), Wiltshire	Salisbury & South Wiltshire Museum	A10.4
141	Shrewton 5k (Interment 2, Pit 2), Wiltshire	Salisbury & South Wiltshire Museum	A 11.1
142	Shrewton 5c (Interment 1, adult), Wiltshire	Salisbury & South Wiltshire Museum	A10.2a
143	Shrewton 5e (Interment 2, adolescent), Wiltshire	Salisbury & South Wiltshire Museum	A10.2a
144	Shrewton G24 (Interment 5), Wiltshire	Salisbury & South Wiltshire Museum	A12.3
145	Rotherley Down flat grave, Berwick St. John, Wiltshire	Salisbury & South Wiltshire Museum	On display
146	Rushmore Park 20 (Barrow Pleck 20), Wiltshire	Salisbury & South Wiltshire Museum	On display
147	Shrewton 5k (primary burial), Wiltshire	Salisbury & South Wiltshire Museum	Box 57-8, Gayhurst 98
148	Gayhurst Quarry (Barrow 2, Context 5086), Buckinghamshire	Northamptonshire Archaeology	Box 55-6, Gayhurst 98
149	Gayhurst Quarry (Barrow 2, Context 5065), Buckinghamshire	Northamptonshire Archaeology	40.377
150	Llandow, Sutton '268' (primary burial), Vale of Glamorgan	National Museum of Wales	29.43
151	Llanharry, Vale of Glamorgan	National Museum of Wales	01.113
152	St Fagans (both mandibular 3 <sup>rd</sup> molars present), Cardiff	National Museum of Wales	01.113
153	St Fagans (both mandibular 3 <sup>rd</sup> molars unerupted), Cardiff	National Museum of Wales	01.113

SK No. <sup>1</sup>	Site & burial	Curator / temporary curator	Curator reference
154	Merthyr Mawr, Riley's Tumulus (C1), Bridgend	Swansea Museum	A.905.2.1 C1
155	Merthyr Mawr, Riley's Tumulus (C3), Bridgend	Swansea Museum	C3
156	Saltwood Tunnel (Skeleton 4552), Site SLT 99, Kent	Wessex Archaeology	Skeleton 4552
157	Saltwood Tunnel (Skeleton 4676), Site SLT 99, Kent	Wessex Archaeology	Skeleton 4676
158	Cranborne, cursus monument, Dorset	Martin Green, Down Farm	Cur 02 ("Eve")
159	Windmill Quarry, Wincanton, Somerset	Somerset County Museum	A949, boxed. Wincanton 1870
160	Wick Barrow, Stogursey, Somerset	Somerset County Museum	A941 (on display)
161	Culbone Hill, Culbone, Somerset	Somerset County Museum	A917 (on display)
162	Hemp Knoll (central inhumation), Wiltshire	British Museum	1981,0301.279
163	Barnack (Grave 28, Beaker burial), Cambridgeshire	British Museum	1975,9-1,27
164	Chilbolton (Primary burial, Context 18), Leckford Estate, Hampshire	Hampshire County Council Museums Service	A1986.1, Store 7, Box 5
165	Chilbolton (Secondary burial, Context 13), Leckford Estate, Hampshire	Hampshire County Council Museums Service	A1986.1, Store 7, Box No. 5
166	Easton Lane, Hampshire	Hampshire County Council Museums Service	A1987.14, Abox 484.83, Find 2752, Store 2a, Bay 13, Shelf D4, Box 85
167	Queen Elizabeth the Queen Mother Hospital, St Peter's Road (Skeleton 2), Margate, Kent	Trust for Thanet Archaeology	Box NAM 05/2002/SK 2 & 3
168	Queen Elizabeth the Queen Mother Hospital, St. Peter's Road (Skeleton 1), Margate, Kent	Trust for Thanet Archaeology	Box NAM 05/2002/SK 2 & 3
169	South Dumpton Down (Burial 5, Barrow 2), Broadstairs, Kent	Trust for Thanet Archaeology	Box: SDD 92/ Box 175/ B5
170	South Dumpton Down (Burial 1, Barrow 2), Broadstairs, Kent	Trust for Thanet Archaeology	Box: SDD/92/B1,B4
171	Beauforts (Skeleton 1), North Foreland Avenue, Broadstairs, Kent	Trust for Thanet Archaeology	BNF04.SK1
172	Northumberland Bottom (Context 1203), Southfleet, Kent	Oxford Archaeology	Site code: ARC WNB 98, Context 1203
173	Northumberland Bottom (Context 1070), Southfleet, Kent	Oxford Archaeology	Site code: ARC WNB 98, Context 1070
176	West Kennet Avenue (Grave by stone 25b, larger mandible fragments of adolescent), Wiltshire	Alexander Keiller Museum, Avebury	78509014, Box 3 of 3
177	West Kennet Avenue (Grave by stone 25b, smaller mandible fragment of adolescent), Wiltshire	Alexander Keiller Museum, Avebury	78509014, Box 2 of 3, from small tin labelled 'X19'1, region over B, WKA Stone 25B'
178	Ferry Fryston (Skeleton 2263), east Yorkshire	Oxford Archaeology North	Skeleton 2263
179	Ferry Fryston (Skeleton 2023), east Yorkshire	Oxford Archaeology	Skeleton 2023
180	Long Crichel G5 (Interment 1 / Int 25), Dorset	Dorset County Museum	DCM 1. Acc'n no.: 1962.8.55, Box 23
181	Long Crichel G5 (Interment 5 / Int 16), Dorset	Dorset County Museum	DCM 2. Acc'n no.: 1962.8.55, Box 15
182	Kimbury, Chalbury, Dorset	Dorset County Museum	DCM 3. Acc'n no.: 1991.2.2, Box in Bay 86B
183	Bincombe G13 (250c, Interment 1, cist burial 1), Dorset	Dorset County Museum	DCM 4. Acc'n no.: 1998.37 (2000.26?), Box 12
184	Bradford Peverell G30 (primary Beaker burial), Dorset	Dorset County Museum	DCM 5. Acc'n no.: 1884.9.92b, Box EM/277

SK No. <sup>1</sup>	Site & burial	Curator/temporary curator	Curator reference
185	Portesham G14 (secondary interment with Food Vessel), Friar Waddon, Dorset	Dorset County Museum	DCM 6. From display
186	Thomas Hardy School (Skeleton 1667, Grave 1774, Beaker burial 8), Dorset,	Dorset County Museum	DCM 7. Acc'n no.: 2006.30.3, Box 95
187	Thomas Hardy School (Skeleton 1823, Grave 1643, Beaker burial 7), Dorset,	Dorset County Museum	DCM 8. Acc'n no.: 2006.30.3, Box 97
188	Oxgene 02 (Skeleton 206, Flat grave 204 with Beaker), Oxford, Oxfordshire	Oxford Archaeology	Acc'n no.: 2002.1, Box HB.05
189	Oxgene 02 (Skeleton 115, Grave 113), Oxford, Oxfordshire	Oxford Archaeology	Acc'n no.: 2002.1, Box HB.01
190	Stakor Hill (P192), Buxton, Derbyshire	Weston Park Museum, Sheffield	J93.922 (P192), Bateman Collection, Box ARC 471, 2.7.1851
191	Wetton Hill (P142), Staffordshire	Weston Park Museum, Sheffield	J93.939 (P142), Bateman Collection, Box ARC 478, 24.5.1849
192	Waggon Low (P207), Derbyshire	Weston Park Museum, Sheffield	J93.932 (P207), Bateman Collection, Box ARC 480, 28.6.1852
195	Hay Top (P181), Monsal Dale, Derbyshire	Weston Park Museum, Sheffield	J93.911A (P181), also known as J93.1289, Bateman Collection, Box ARC 466, 23.5.1851
196	Hay Top (P183), Monsal Dale, Derbyshire	Weston Park Museum, Sheffield	J93.911 (P183), Bateman Collection, Box ARC 467, 23.5.1851
197	Monsal Dale (P187), Derbyshire	Weston Park Museum, Sheffield	J93.912 (P187), Bateman Collection, Box ARC 467, 29.5.1851
198	Green Low (P53), Alsop Moor, Derbyshire	Weston Park Museum, Sheffield	J93.909 (P53), Bateman Collection, Box ARC 465, 25.4.1845
199	Three Lows (P69), Wetton, Staffordshire	Weston Park Museum, Sheffield	J93.925 (P69), Bateman Collection, Box ARC 465, 7.6.1845
200	Bee Low (P178), Youlgrave, Derbyshire	Weston Park Museum, Sheffield	J93.944 (P178), Bateman Collection, Box ARC 460, 3.5.1851
201	Smerrill Moor (P234), 'Third barrow', Middleton	Weston Park Museum, Sheffield	J93.940 (P234), Bateman Collection, Box ARC 459, 15.6.1857
202	Middleton Moor (P103), near Arbor Low, Derbyshire	Weston Park Museum, Sheffield	J93.942 (P103), Bateman Collection, Box ARC 461, 15.3.1848
203	Smerrill Moor (P231), 'First barrow', Middleton, Derbyshire	Weston Park Museum, Sheffield	J93.923 (P231), Bateman Collection, Box ARC 464, 3.6.1857
204	Hay Top (P181), Monsal Dale, Derbyshire	Weston Park Museum, Sheffield	J93.943 (P181), Bateman Collection, Box ARC 463, May 1851
205	Galley Low (P12), Brassington, Derbyshire	Weston Park Museum, Sheffield	J93.920 (P12), Bateman Collection, Box ARC 486, 3.7.1843
206	Gotham (P100), Derbyshire	Weston Park Museum, Sheffield	J93.918 (P100), Bateman Collection, Box ARC 484, 23.8.1847
207	Gratton Hill (P77), Wetton, Staffordshire	Weston Park Museum, Sheffield	J93.913 (P77), Bateman Collection, Box ARC 485, 21.6.1845
208	Castern (P84), Staffordshire	Weston Park Museum, Sheffield	J93.915 (P84), Bateman Collection, Box ARC 483, 29.7.1846
209	Bole Hill (P235), Bakewell Moor, Derbyshire	Weston Park Museum, Sheffield	J93.934 (P235), Bateman Collection, Box ARC 481, 25.5.1859
210	Bee Low (P177), Youlgrave, Derbyshire	Weston Park Museum, Sheffield	J93.935 (P177), Bateman Collection, Box ARC 482, 3.5.1851
211	Parsley Hey (P102) (Parcelley Hay), Hartington, Derbyshire	Weston Park Museum, Sheffield	J93.945 (P102), Bateman Collection, Box ARC 457, 6.3.1848
212	Bailey Hill (P168), Hanson Grange, Derbyshire	Weston Park Museum, Sheffield	J93.946 (P168), Bateman Collection, Box ARC 457, 3.8.1850
213	Shuttlestone (P108), Parwich Moor, Derbyshire	Weston Park Museum, Sheffield	J93.948 (P108), Bateman Collection, Box ARC 456, 3.6.1848
214	Liffs Low (P22), Derbyshire	Weston Park Museum, Sheffield	J93.931 (P22), Bateman Collection, Box ARC 479, 14.7.1843
215	Mouse Low (P117), Deepdale, Staffordshire	Weston Park Museum, Sheffield	J93.914 (P117), Bateman Collection, Box DIS 67, 21.6.1848
216	Bee Low (Cist 1, Individual A, Burial 1, NE Section, Skull 1), Derbyshire	Weston Park Museum, Sheffield	1981.401, Marsden Collection, Box ARC 154
217	Hazelbadge Hills Barrow (Burial 2, Skull 1), Derbyshire	Weston Park Museum, Sheffield	J1957.29, Bagshaw Collection, Box ARC 44, 23.10.1866

SK No. <sup>1</sup>	Site & burial	Curator / temporary curator	Curator reference
218	Hazelbadge Hills Barrow (Burial 3, Skull 2), Derbyshire	Weston Park Museum, Sheffield	J1957.30, Bagshaw Collection, Box ARC 44, 23.10.1866
219	Hazelbadge Hills Barrow (Burial 6, Skull 5), Derbyshire	Weston Park Museum, Sheffield	J1957.32, Bagshaw Collection, Box ARC 44, 26.10.1866
221	Bee Low (Burial 4, Cist 2), Derbyshire	Weston Park Museum, Sheffield	1981.410, Marsden Collection, Box ARC 154
222	Bee Low (Burial 8, Southwest), Derbyshire	Weston Park Museum, Sheffield	1981.412, Marsden Collection, Box ARC 154
223	Roystone (South of cist, Skull A), Derbyshire	Weston Park Museum, Sheffield	1981.443, Marsden Collection, Box ARC 155
224	Towthorpe 273 (Duggleby Howe) (Burial 76/M), east Yorkshire	Hull and East Riding Museum	CWH 207/1/S; Box 6191
225	Thomas Hardy School (Skeleton 1526, Grave 1444), Dorset	Dorset County Museum	DCM 9. Acc'n no.: 2006.30.3, Box 94
226	Bosome Down (Skeleton 25049, Grave 25051), Wiltshire	Wessex Archaeology	Site code : 53535 (Married Quarters). Skeleton 25049. Grave 25051
227	Bosome Down (Skeleton 25217, Grave 25214), Wiltshire	Wessex Archaeology	Site code : 53535 (Married Quarters). Skeleton 25217. Grave 25214
228	Bosome Down (Skeleton 5289, Grave 5290), Wiltshire	Wessex Archaeology	Site code: BDV (Boscombe Down V) 56240.2, area 1. Skeleton 5289. Grave 5290
229	Bosome Down (Skeleton 5292, Grave 5293), Wiltshire	Wessex Archaeology	Site code: BDV (Boscombe Down V) 56240.2, area 1. Skeleton 5292. Grave 5293
230	St. Stephen's College, North Foreland (Skeleton 954, Grave 279, Primary burial, Barrow 2), Broadstairs, Kent	Trust for Thanet Archaeology	NFB 99, Skeleton 954, Grave 279
231	St. Stephen's College, North Foreland (Skeleton 2395, Grave 2394, Ditch terminal of Barrow 3), Broadstairs, Kent	Trust for Thanet Archaeology	NFB 99, Skeleton 2395, Grave 2394
232	St. Stephen's College, North Foreland (Skeleton 2001, Grave 2002, Flat grave to north of Barrow 2), Broadstairs, Kent	Trust for Thanet Archaeology	NFB 99, Skeleton 2001, Grave 2002
233	St. Stephen's College, North Foreland (Skeleton 2070, Grave 2069, Flat grave to north of Barrow 2), Broadstairs, Kent	Trust for Thanet Archaeology	NFB 99, Skeleton 2070, Grave 2069
234	St. Stephen's College, North Foreland (Grave 1232, Flat grave to north of Barrow 2, Broadstairs, Kent	Trust for Thanet Archaeology	SSC 99, evaluation excavation at NFB 99, Grave 1232
235	South Dumpton Down (Burial 6), Kent	Trust for Thanet Archaeology	SDD 92, Box 173 2/2, Burial 6
236	Monkton Road Farm (Skeleton 3015), Monkton, Kent	Canterbury Archaeological Trust	TE P3 EX07, Skeleton 3015, Plateau 3. Thanet Earth Excavations.
237	Monkton Road Farm (Skeleton 6025, Primary barrow burial), Monkton, Kent	Canterbury Archaeological Trust	TE P6 EX07, Skeleton 6025, Plateau 6. Thanet Earth Excavations.
238	Monkton Road Farm (Skeleton 4621), Monkton, Kent	Canterbury Archaeological Trust	TE P4 EX07, Skeleton 4621, Plateau 4. Thanet Earth Excavations.
239	Monkton Road Farm (Skeleton 2083), Monkton, Kent	Canterbury Archaeological Trust	TE P2 EX07, Skeleton 2083, Plateau 2. Thanet Earth Excavations.
240	Irthingborough (Skeleton 6409), Northamptonshire	English Heritage	Skeleton 6409
241	Irthingborough (Skeleton 6410), Northamptonshire	English Heritage	Skeleton 6410
242	Acklam Wold (196, round barrow), east Yorkshire	Duckworth Laboratory	EU.1.4.26. Store location: 2001/A/1. Thurnam Collection
243	Aldwinckle (Burial 1), Northamptonshire	Duckworth Laboratory	EU.1.4.97. Store location: 2001/A/1
244	Aldwinckle (Burial 2), Northamptonshire	Duckworth Laboratory	EU.1.4.98. Store location: 2001/A/1
245	Amesbury (G51/H36, Burial A), Wiltshire	Duckworth Laboratory	EU.1.4.100. Store location: 2001/A/1

SK No. <sup>1</sup>	Site & burial	Curator/temporary curator	Curator reference
246	Amesbury (G51/H36, Burial B), Wiltshire.	Duckworth Laboratory	EU.1.4.101. Store location: 2001/A/1
247	Braceborough (2), Lincolnshire	Duckworth Laboratory	EU.1.00.89. Store location: 2001/A/5
248	Braceborough (1), Lincolnshire	Duckworth Laboratory	EU.1.00.89. Store location: 2001/A/5
249	Bratton Down (T 254), Wiltshire	Duckworth Laboratory	EU.1.4.38. Store location: 2001/A/5. Thurnam Collection
250	Bilting, Kent	Duckworth Laboratory	EU.1.4.99. Store location: 2001/A/5
251	Broughton Gifford (177), Wiltshire	Duckworth Laboratory	No EU number. Store location: 2001/B/1. Thurnam Collection
252	Waterhall Farm (Grave II, disarticulated younger female), Chippenham, Cambridgeshire	Duckworth Laboratory	EU.1.4.114. Store location: 2001/B/2
253	Waterhall Farm (Grave IV), Chippenham, Cambridgeshire	Duckworth Laboratory	EU.1.4.118. Store location: 2001/B/2
254	Waterhall Farm (Grave V), Chippenham, Cambridgeshire	Duckworth Laboratory	EU.1.4.119. Store location: 2001/B/2
255	Cassington (Atkinson excavations), Oxfordshire	Duckworth Laboratory	EU.1.4.1. Store location: 2001/B/2
256	Chippenham Park (flat grave), Cambridgeshire	Duckworth Laboratory	EU.1.4.18. Store location: 2001/B/3
257	Crichel Down (Barrow 17), Dorset	Duckworth Laboratory	EU.1.4.58. Store location: 2001/B/4
258	Crichel Down (Barrow 11), Dorset	Duckworth Laboratory	EU.1.4.56. Store location: 2001/B/4
259	Eggardon (T 238), Dorset	Duckworth Laboratory	EU.1.00.40. Store location: 2001/C/2. Thurnam Collection
260	Long Ash Lane (Barrow 2, Burial 6), Frampton, Dorset	Duckworth Laboratory	EU.1.4.24. Store location: 2001/C/3
261	Goodwood (RCS 4.031), West Sussex	Duckworth Laboratory	EU.1.4.53. Store location: 2001/C/4
262	Long Ash Lane (Barrow 2, Burial 3), Frampton, Dorset	Duckworth Laboratory	EU.1.4.21. Store location: 2069/B/1
263	Long Ash Lane (Barrow 2, Burial 5), Frampton, Dorset	Duckworth Laboratory	EU.1.4.23. Store location: 2069/B/1
264	Newton Kyme (Skeleton 1), north Yorkshire	Duckworth Laboratory	EU.1.4.72. Store location: 2069/A/1
265	Normanton (2 / 36), Wiltshire	Duckworth Laboratory	EU.1.4.75. Store location: 2069/A/1
266	Normanton (C, Burial VIII), Wiltshire	Duckworth Laboratory	EU.1.4.73. Store location: 2069/A/1
267	Barrow Hills (MH 9, ring-ditch 17), Radley, Oxfordshire	Duckworth Laboratory	EU.1.4.4. Store location: 2068/A/1
268	Barrow Hills (MH 55, barrow 3), Radley, Oxfordshire	Duckworth Laboratory	EU.1.4.5. Store location: 2068/A/1
269	Barrow Hills (MH 7, barrow 15), Radley, Oxfordshire	Duckworth Laboratory	EU.1.4.6. Store location: 2068/A/2
270	Staxton (Burial 10, Sxn 57 C.IV 7), east Yorkshire	Duckworth Laboratory	EU.1.4.68. Store location: 2068/A/5
271	Staxton (Burial 4, Sxn 57 B V 3), east Yorkshire	Duckworth Laboratory	EU.1.4.69. Store location: 2068/A/5
272	Staxton (Burial 7, Sxn 57 C IV 3), east Yorkshire	Duckworth Laboratory	EU.1.4.67. Store location: 2068/A/5
273	Staxton (Burial 5), east Yorkshire	Duckworth Laboratory	EU.1.4.66. Store location: 2068/A/5
274	Staxton (Burial 11), east Yorkshire	Duckworth Laboratory	EU.1.4.65. Store location: 2068/A/5
275	Barton Hill Farm (ring ditch, Burial 1), Streatley, Bedfordshire	Duckworth Laboratory	EU.1.5.1400. Store location: 2068/B/1
276	Tallington (skeleton 2, large barrow, site 16), Lincolnshire	Duckworth Laboratory	EU.1.4.90. Store location 2068/B/1
277	Tallington (skeleton 3, large barrow, site 16), Lincolnshire	Duckworth Laboratory	EU.1.4.91. Store location: 2068/B/1

<b>SK No.1</b>	<b>Site &amp; burial</b>	<b>Curator /temporary curator</b>	<b>Curator reference</b>
278	Tallington (skeleton 1, large barrow, site 16), Lincolnshire	Duckworth Laboratory	EU.1.4.89. Store location 2068/B/1
279	Barrow near Stonehenge (Barrow 150, JT 99), Wiltshire	Duckworth Laboratory	EU.1.4.37. Store location: 2068/B/3. Thurnam Collection
280	Wilsford Down long barrow (JT 228), Wiltshire	Duckworth Laboratory	EU.1.4.48. Store location: 2068/B/5. Thurnam Collection
281	Wilsford Down long barrow (JT 229), Wiltshire	Duckworth Laboratory	EU.1.4.49. Store location: 2068/C/2. Thurnam Collection
282	Winterbourne Stoke (JT 186), Wiltshire	Duckworth Laboratory	EU.1.4.44. Store location: 2068/C/2. Thurnam Collection
283	Wilsford (JT 97), Wiltshire	Duckworth Laboratory	EU.1.4.35. Store location: 2068/C/2. Thurnam Collection
284	Winterbourne Stoke (JT 160), Wiltshire	Duckworth Laboratory	EU.1.4.43. Store location: 2068/C/3. Thurnam Collection
285	Winterbourne Stoke (JT 186b), Wiltshire	Duckworth Laboratory	EU.1.4.45. Store location: 2068/C/3. Thurnam Collection
286	Littleport, Cambridgeshire	Duckworth Laboratory	EU.1.4.8. Store location: 2068/C/3
287	Snailwell (Barrow C, Inhumation II), Cambridgeshire	Duckworth Laboratory	EU.1.4.9. Store location: 2002/B/3
288	Snailwell (Barrow G, Inhumation III), Cambridgeshire	Duckworth Laboratory	EU.1.4.12D. Store location : 2002/B/3
289	Snailwell (Barrow G, Inhumation IV), Cambridgeshire	Duckworth Laboratory	EU.1.4.10. Store location: 2002/B/3
290	Upper Hare Park, Bottisham, Cambridgeshire	Duckworth Laboratory	EU.1.4.15. Store location: 2002/A/2
291	West Overton G1 (JT 55), Kennet Hill, Wiltshire	Duckworth Laboratory	EU.1.4.28. Store location: 2069/C/4. Thurnam Collection
292	Winterbourne Monkton (JT 37), Wiltshire	Duckworth Laboratory	EU.1.5.33. Store location: 2067/B/5. Thurnam Collection
293	Winterbourne Monkton (JT 39), Wiltshire	Duckworth Laboratory	EU. 1.5.35. Store location: 2068/B/5. Thurnam Collection
294	Mount Farm (Grave F618, Skeleton 618), Berinsfield, Oxfordshire	Oxford Archaeology	Site code: BERMF77. Box says 24/25M. Grave F618, Skeleton 618
295	Boscombe Down (Skeleton 1236), Wiltshire	Wessex Archaeology	Site code: 50875. Skeleton 1236
296	Boscombe Down (Skeleton 10288, Grave 10025), Wiltshire	Wessex Archaeology	Site code: BDV (Boscombe Down V) 56240.2, area b Skeleton 10288. Grave 10025
297	Boscombe Down (Skeleton 6033, Grave 6012), Wiltshire	Wessex Archaeology	Site code: BDV (Boscombe Down V) 56240.2, area 2. Skeleton 6033. Grave 6012.
298	Boscombe Down (Skeleton 9507, Grave 9500), Wiltshire	Wessex Archaeology	Site code: BDV (Boscombe Down V) 56240.2, area c. Skeleton 9507, Grave 9500
299	Boscombe Down (Skeleton 12134), Wiltshire	Wessex Archaeology	Site code: 56244. Skeleton 12134.
300	Boscombe Down (Skeleton 25004), Wiltshire	Wessex Archaeology	Site code: 53535. Skeleton 25004
301	Boscombe Down (Skeleton 50875, the Amesbury Archer), Wiltshire	Salisbury & South Wiltshire Museum	On display. Amesbury Archer, Skeleton 50875, Boscombe III (1291)
302	Boscombe Down (25010A/25005A), Wiltshire	Wessex Archaeology	Site code: 53535. 25010A/25005A
303	Boscombe Down (25005/25005B), Wiltshire	Wessex Archaeology	Site code: 53535. 25005/25005B
304	Normanton Down (1515), Wiltshire	Wessex Archaeology	Site code: 50538. 1515
305	Acklam Wold (Crania Britannica Pl. 31), east Yorkshire	Yorkshire Museum	YORYM : 2008.169
306	Stockbridge Down (primary burial), Hampshire	Natural History Museum	SK 26. Royal College of Surgeons Collection, 4.03.3
307	Sanctuary, West Overton, Wiltshire	Natural History Museum	SK 48. Royal College of Surgeons Collection, 4.0372
308	Woodhenge Circle I (central burial), Durrington G67, Wiltshire	Natural History Museum	SK 49. Royal College of Surgeons Collection, 4.0373

SK No. <sup>1</sup>	Site & burial	Curator /temporary curator	Curator reference
309	Woodhenge (bottom of ditch), Wiltshire	Natural History Museum	SK 50. Royal College of Surgeons Collection, 4.0376
310	Amesbury (G85), Wiltshire	Natural History Museum	SK 52. Royal College of Surgeons Collection, 4.0378
311	Linch Hill (Burial II), Stanton Harcourt, Oxfordshire	Natural History Museum	SK 1790. Oxford Collection, E.11.1
312	Eynsham (No. 15), Foxley Farm, Oxfordshire	Natural History Museum	SK 2050. E.11.3/273
313	Sewell, Bedfordshire	Natural History Museum	203A
314	Bicester (63562 / 25127), Oxfordshire	Wessex Archaeology	63562 / 25127
315	Tara, Mound of the Hostages (Burial 30/IV), County Meath, Ireland	National Museum of Ireland	E716
316	Upper Largie (Cist 3), Argyll & Bute	c/o AOC Archaeology Group	KQ 97 excavated 1999
317	Garton Slack 6 (Grave I), east Yorkshire	Hull & East Riding Museum	Box 2609
318	Garton Slack 29 (Grave I, Burial D), east Yorkshire	Hull & East Riding Museum	Box 1247. Garton Slack 29. 1974, M, Grave I, Trench 6, Burial "D", 25/8/74
319	Garton Slack 29 (Coffin Burial II, BA Grave III), east Yorkshire	Hull & East Riding Museum	Box 1268 + not numbered. Garton Slack 29. Trench XI, Section Y3, Coffin Burial II, BA Grave III
320	Inchmarnock (Cist 3), Argyll & Bute	c/o Lord Smith of Kelvin	
321	Rameldry Farm, Fife	National Museums Scotland	NMS X.unreg

#### Notes:

1. The SK no. is the *Beaker People Project* individual reference number. The series shown here is not contiguous, since the list includes only those individuals for whom any isotope analysis has been undertaken. Some of the references were allocated to juveniles on which only microwear analysis has been done for the Project, and some were allocated to burials which were not subsequently sampled for isotope analysis for reasons of sample availability or preservation issues. All individuals for which some isotope data will be available have been included in this list, although not all have been analysed for the complete suite of elements, either for reasons of dating (e.g., SK 44 was dated within the Project as medieval, so that only bone collagen isotopes will be available and work on the tooth was abandoned), or for reasons of sample availability (e.g., SK 28, for which only a vertebra was available and no dental isotopes could be measured)

## The Regionality of Beakers and Bodies in the Chalcolithic of North-East Scotland

*Neil G.W. Curtis and Neil C.A. Wilkin*

*This paper discusses regional socio-cultural identities, changes and networks of interaction during the Chalcolithic (c. 2500/2400–2200/2150 cal BC) in north-east Scotland and the immediately adjacent regions of east-central Scotland and the Moray Firth area. Drawing on the findings of the Leverhulme Trust-funded Beakers and Bodies Project (Marischal Museum, University of Aberdeen), including an enlarged pool of radiocarbon dates, Bayesian modelling and a contextual approach to a range of material culture and traditions of funerary practice, it proposes several regional narratives/models in order to outline and explain the significance of chronological sequences and 'historical' events in north-east Scotland and beyond.*

Figures 16.1–9 and Appendix 16.1 are printed in the main text.

## Appendix 16.2

Figures 16.9–12 show the analysis and data from which Figures 16.1–4 are derived. Each is based on the selection of a group of artefacts with significant typological relationships, including modelled boundary start and end dates.

### 2.1 Modelled dates for Low-Carinated (‘continental-style’) Beakers and the earliest Short-Necked Beakers in eastern Scotland (Figure 16.9)

In this model the dates for those Beakers from within the study area classified as ‘Low-Carinated’, (considered to be an early style) were compared with the dates for those classified as ‘Short-necked’. The ‘Low-Carinated’ is indeed earlier, however the date ranges have a considerable overlap. The model with a Uniform boundary prior shows Newlands cist 1 with low Agreement of 25%. Using an end Sigma\_Boundary on the ‘Short-Necked’ gives the best F-Model index by a factor of three. Figure 16.1 shows the sum of Low-Carinated and the sum of Short-Necked beakers (with Sigma\_Boundary) as two diagrams on aligned scales for comparison.

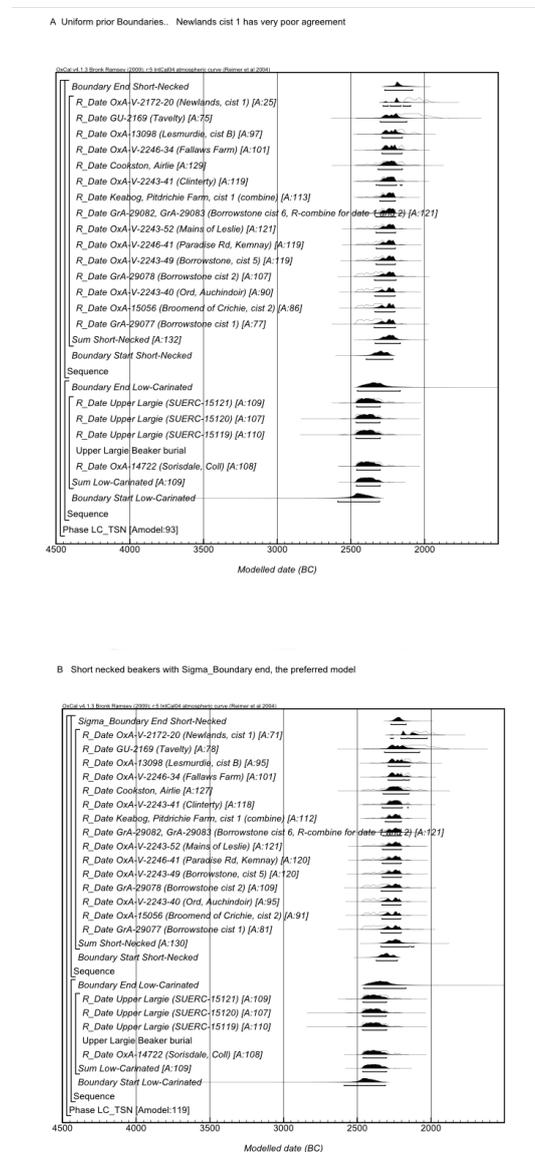


Figure 16.9: Modelled dates for Low-Carinated (‘continental-style’) Beakers and the earliest Short-Necked Beakers in eastern Scotland

## 2.2 Modelled dates for burials associated with Beakers from eastern Scotland sharing motifs with lunulae (Figure 16.10)

In these two models, the dates for those Beakers within the study area that were decorated with motifs that are related to the decoration on gold lunulae (see Appendix 16.1.4) were treated as a typological group to define a period of currency. The models include a consideration of the Migdale–Marnoch metalworking tradition. Model A uses Uniform Boundaries, while model B is modelled by use of a Sigma Boundary. Figure 16.2 shows the sum of the modelled dates in model B.

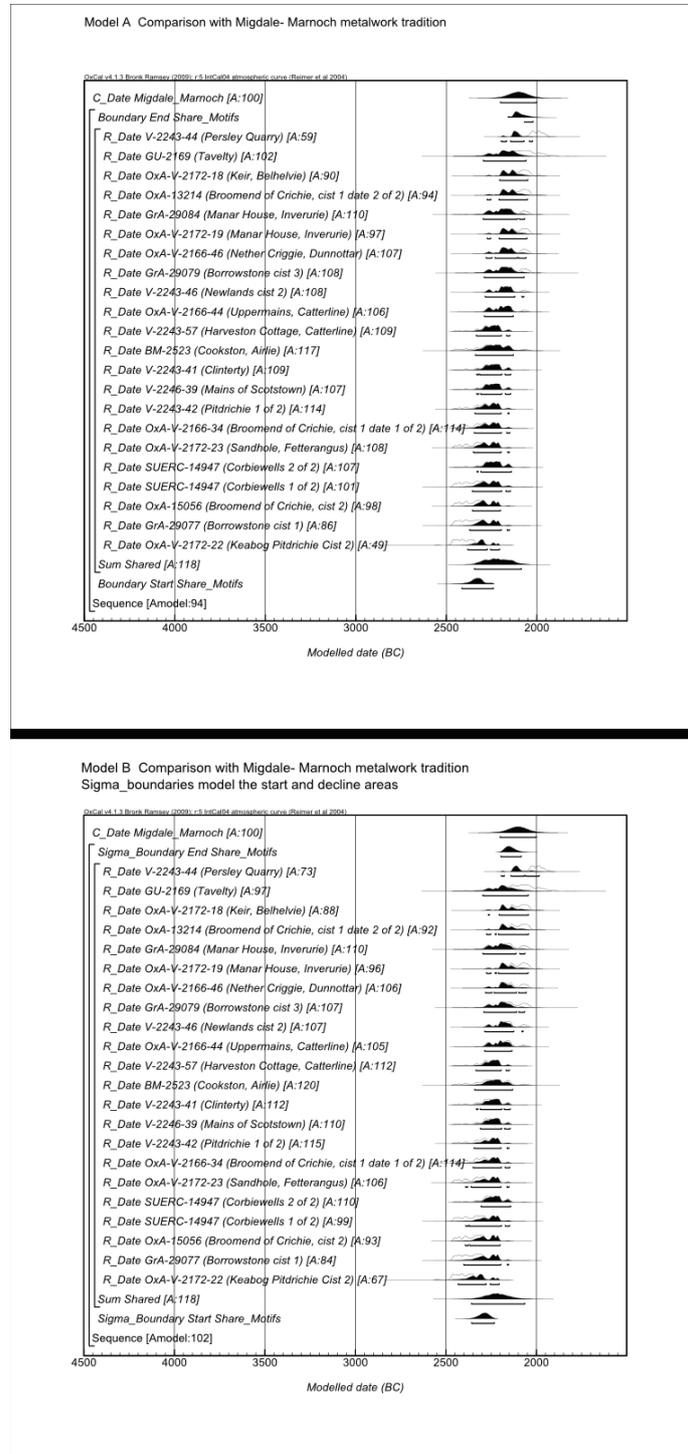


Figure 16.10: Modelled dates for burials associated with Beakers from eastern Scotland sharing motifs with lunulae

### 2.3 Modelled dates for 'Archery' burials (Figure 16.11)

In these two models, the available dates for those Beakers associated with arrowheads and/or 'wristguards' were treated as a typological group to define a period of currency of this burial practice. Note that although those associated with wristguards made from Langdale stone (Roe & Woodward 2007) are distinguished by being placed in the upper part of the diagram, this does not affect the analysis. Model A uses Uniform Boundaries, while Model B is modelled by use of a Sigma Boundary. Figure 16.3 shows the sum of the modelled dates from Model B (ie, using Sigma boundaries)

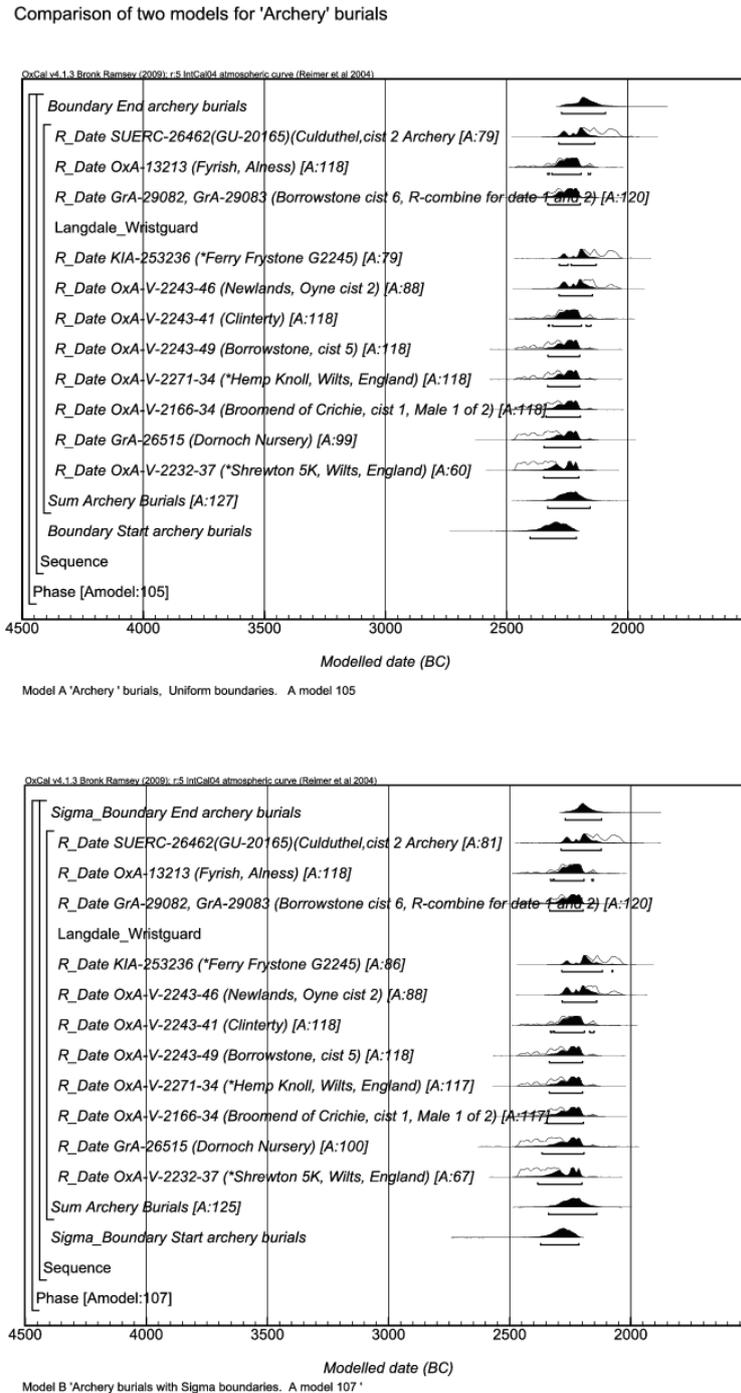


Figure 16.11: Modelled dates for 'Archery' burials

## 2.4 Modelled dates for burials associated with bronze daggers in eastern Scotland (Figure 16.12)

In this model, the dates for those burials associated with bronze daggers from within the study area were treated as a typological group to define a period of currency of this burial practice. The model uses Uniform boundaries as it was established that as the dates for all types of bronze daggers are statistically indistinguishable, a Sigma prior was not justifiable for such a short timescale. Figure 4 shows the sum of the modelled dates.

### Bibliography

Roe, F. & Woodward, A. 2007. The wristguard from Burial 2245. In F. Brown, C. Howard-Davis, M. Brennan, A. Boyle, T. Evans, S. O'Connor, A. Spence, R. Heawood & A. Lupton (eds), *The Archaeology of the A1 (M) Darrington to Dishforth DBFO Road Scheme*, 298–304. Lancaster Lancaster: Lancaster Imprints 12

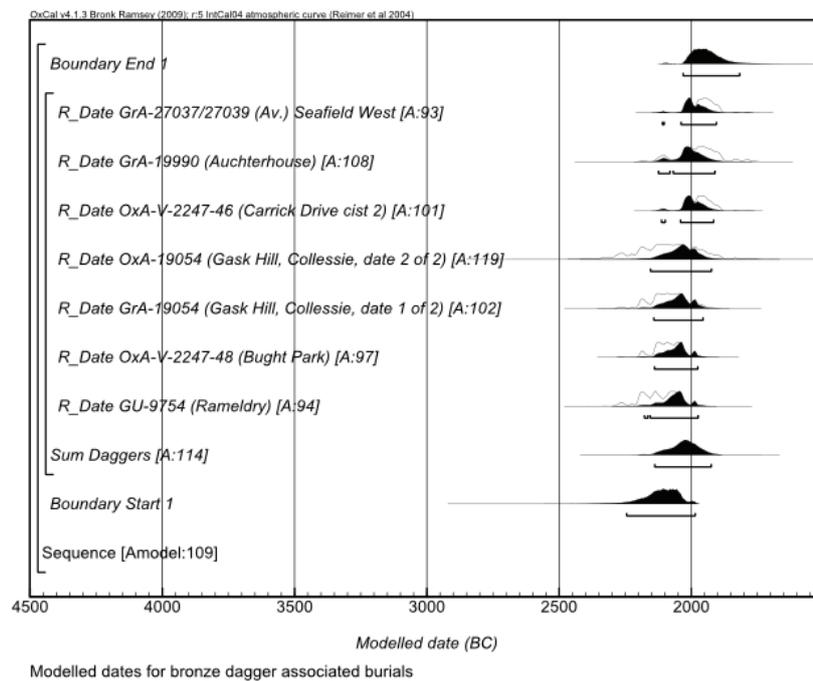


Figure 16.12: Modelled dates for burials associated with bronze daggers in eastern Scotland

## Stepping Out Together: men, women, and their Beakers in time and space

*Alexandra Shepherd*

*This paper presents the evidence for patterns of arrangement amongst the crouched inhumations of the British Chalcolithic–Early Bronze Age, principally in the two core areas of Beaker-using people in north-east Scotland and east Yorkshire. It demonstrates the predominant gender-defined burial pattern in these areas, of males on their left orientated east and females on their right orientated west, all facing south (LESM/RWSF). It subsequently looks in detail at the Beakers accompanying each burial and investigates the possibility of discernible gender-specific indicators in their style and decoration. Case studies of paired inhumations identify both conformities and variations in the observance of burial formalities and choice in the provision of accompanying pots. The paper reviews the mechanisms by which the embedded traditions of burial arrangement and Beaker styles were transmitted and maintained in a period of flux in the wider Chalcolithic sphere. The contribution seeks to highlight the existence of cohesive ideologies manifested in strict adherence to burial formalities over a wide area from the British northern east coast to central Europe; it stresses the human dimension discernible within the otherwise technologically-defined period.*



Figure 17.1 Map indicating areas covered by the two core Beaker-using areas:  
north-east Scotland and the east Yorkshire Wolds

## CASE STUDIES

### Patterns of burial gender differentiation in operation – case studies

From the review of the gender-attributable pots it was clear that the generality of pot shape (amongst pots belonging to Step3/4-5) supported the suggestion that there was a gender distinction in pot design. Focusing in on the detail of motifs did not for the most part provide mutually exclusive male or female motifs or treatments that could be ascribed to one gender only across either area. However, there was much that could be teased out to support a general sense of there being underlying male:female differentiation controls in operation. These controls appear to have existed across both core areas examined although the specific details of enforcement may have varied. To try and isolate the application of these strictures, examples of paired or associated male and female burials were examined in detail. A summary of these case studies is included in the printed text (together with Figure 17.10); the details are presented here.

### *Case studies from North-east Scotland*

#### 1. BORROWSTONE CISTS 1 AND 2 (Figs 17.11 & 17.12)

The first case study is that of the pots from the male and female burials from adjacent cists (*c.* 10 m apart) occupying their own knoll at the Borrowstone cemetery (I. Shepherd 1986, 12–13), their close physical proximity underlined by their apparent chronological contemporaneity (see dating below). The pots display intriguing similarities in decorative layout and technique but a clear distinction in shape (Fig. 17.11). The ‘male’ pot (from Borrowstone 2, the LESM burial) is tall with a pronounced S-profile and distinct neck, defined by a ‘collar’ of grooving (a feature of Clarke’s East coast Beakers); it has a wide decorated belly zone comprising narrow bands of L /R and R \L (Clarke Basic European motif 2) diagonal hatching separated by strips of vertical hatching (Clarke motif 5); the third element of the decoration is the zone of grooving with groove-filled pendant triangles close to the base (Motif 29 within Clarke’s southern group 4).



Figure 17.11: ‘His and hers’: Beakers from Borrowstone 1 (RWSF) and 2 (LESM)

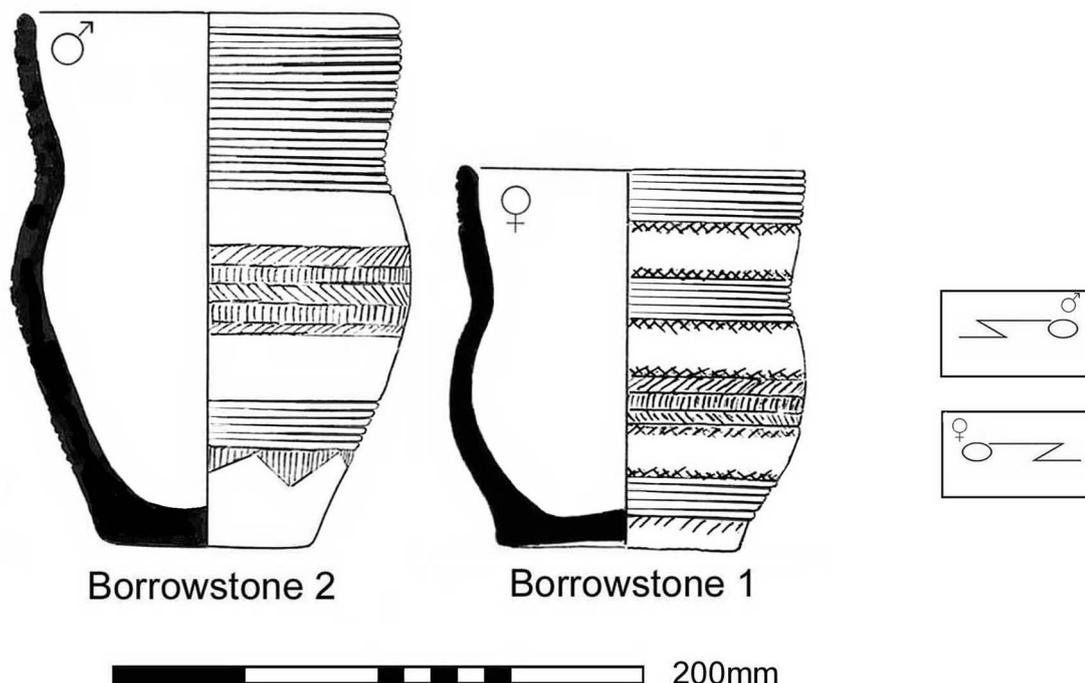


Figure 17.12: Detail of Beakers with male and female burials from cists 1 and 2 Borrowstone, Newbills, Aberdeenshire, with arrangement of burials (RWS, LES) within cists indicated (north to top of page)

The ‘female’ pot (from Borrowstone 1, an RWSF) presents the same style but with a strikingly different shape and modified design. In shape it is shorter, squatter – dumpy almost – with a vertical neck and no sinuous profile. The decoration is executed in the same style and with the same principal motifs as the male Beaker but the three zones are transformed into four: the single grooved neck zone on the male pot is divided here into two by a plain band edged with – softened indeed – by cross-hatched fringing (Clarke’s motif 14 Primary Northern British/Dutch motif group 2). Cross-hatched fringing edges the top and bottom of the belly zone which is a cut-down version of the male design, three strips of diagonal and upright hatching as opposed to Borrowstone 2’s five. The basal zone again echoes the male pot with horizontal grooves this time, in keeping with the rest of the pot, edged with fringing top and bottom – the bottom fringing a wider band replacing the male pot’s pendant triangles.

Together these two Beakers make an arresting pair. They are finely wrought, showing thought and careful production under definitive constraints which dictated a very specific treatment and representation. They demonstrate very clearly a contemporaneity of what might otherwise be distinguished – and separated – as examples of separate – consecutive – categories of Step 4 and Step 5. The radiocarbon dates place them close together within the Chalcolithic, early in the north-east Beaker development, 2460–2280 cal BC and 2440–2200 cal BC (Cist 1 female: 3865±40 BP (GrA-29077); Cist 2 male: 3845±40 BP (GrA-29078)). In this respect it is interesting that their design is executed entirely in grooved impression rather than comb- or cord-impressed form; also of note is that the incised design on both is highlighted by white infill which analysis by Margot Wright for the *Beakers and Bodies* study has shown to incorporate ground burnt bone (Curtis *et al.* 2010). Their decoration includes motifs from Clarke’s Basic, Southern and Primary Northern British/Dutch groups, emphasising – if this were needed – the wide geographical range of these motif groups.

## 2. BORROWSTONE CISTS 4, 5 AND 6 (Fig. 17.13)

This couple, as it is tempting to describe them, are later joined on the adjacent knoll along the Borrowstone ridge by a series of four more burials, Cists 3-6 (Shepherd, I. 1986, 12–13). Cist 3, a LESM male burial, was alone but some 45m from it cists 4-6 comprise a group of three, a few metres from each other, including two rich archer's burials, Cists 5 and 6 (both LESM), and a female-patterned RWS burial, Cist 4, assessed from the body stain. In contrast to the male burials with their arrowheads (Cist 5) and copper-riveted bracer, pulley ring and bow (Cist 6), the 'female' (Cist 4) was unaccompanied (apart from the ubiquitous flint flakes). As with the male:female pairing of the pots from Borrowstone 1 and 2, there appears to be a similar pairing of the pot accompanying the female-patterned burial of Cist 4 (a Step 5; Fig. 17.13) and that with the male archer in Cist 6, of which only the rim and part of the dissolved base survived (assessed as Step 4 by Ian Shepherd). They both share a similar motif repertoire, a cross-hatch (lattice) band below the rim (Clarke's motif 4 Basic European Group 1) edged with horizontal line of tooth-comb top and bottom; and panels of short verticals within running zig-zag edges (Clarke's motif 27 in Late Northern British Group 3). But the female pot has strips of small oval incisions ('ermine': Clarke's motif 6 Basic European closest) separating these bands while the male pot edges them with the elaboration of ribs, a feature also of the male pot from Cist 5 (Fig. 17.4), noted above (in the text) as associated specifically with rich archer's burials. Although the motifs unite the pots from cists 4 and 6, the treatment of the two is very different: the 'female' pot is comparatively smooth with its design incised by very fine tooth-comb; on the male pot the design is produced by the use of heavily indented larger toothcomb giving an almost sculptural, false-relief, quality. This is particularly so in the case of the plain bands which are raised up as prominent horizontal ribs by the lines of deeply incised toothcomb to either side. The remainder of the design is created by incision/stab and drag. The shape comparison – although not as dramatic a contrast – has echoes of the Cist 1 and 2 pair: a reconstruction of the Cist 6 male pot suggests a height *c.* 200–210 giving a similar taller more gracile profile than the shorter, squatter, Cist 4 'female-patterned' pot (height *c.* 185).

The Borrowstone 1 and 2 dates (Ray Kidd pers. comm., *Beakers & Bodies* Bayesian analysis) and style places them in some form of pioneering position in this area: this is discussed further in the printed text of this paper.

Interestingly the Beaker accompanying Borrowstone 3, a male LES burial, dated the latest in the cemetery (Ray Kidd pers. comm., *Beakers & Bodies* Bayesian analysis), is different again in its shape and treatment (Fig. 17.3) yet combines elements of style and decoration seen on the pots from Cists 4 and 5 on the same knoll; a tall sinuous profile, Step 4, virtually AOB (All-over-Banded), with only minor zone contraction, it displays the three major zones with small foot zone seen on the pot from Cist 4, the visible tooth-comb incision of the Cist 4 and 5 pots and versions of their motif elements. There is consequently a sense of *lineage* visible in the pots from this cemetery, an aspect discussed in the printed text. Although the Borrowstone 3 pot was accompanying a male it does not bear the pronounced ribs of Borrowstone 5 or 6 but the burial had no accompanying archer's equipment underlining the association of ribbing with those archers' pots only.

The Borrowstone cemetery thus offers intriguing comparisons of male:female burials in close association which allow some clear contrasts to be made. As previously indicated this is a rare example of an available – dated – horizontal stratigraphy within the North-east Beaker tradition of primarily individual cists, sometimes gathered within cemeteries, which contrasts with the Yorkshire situation of stratified single or multiple burials within and under barrows. There are no other examples of definitive male:female pairings or close association within a cemetery in the north-east (Lesmurdie being another possible example but the female attribution of cist A, based on the SW placement of the head is not definitive enough) but we do have examples of pairings of pots with instances of double inhumations, in themselves comparatively rare occurrences in the North-east assemblage, which present revealing comparisons.

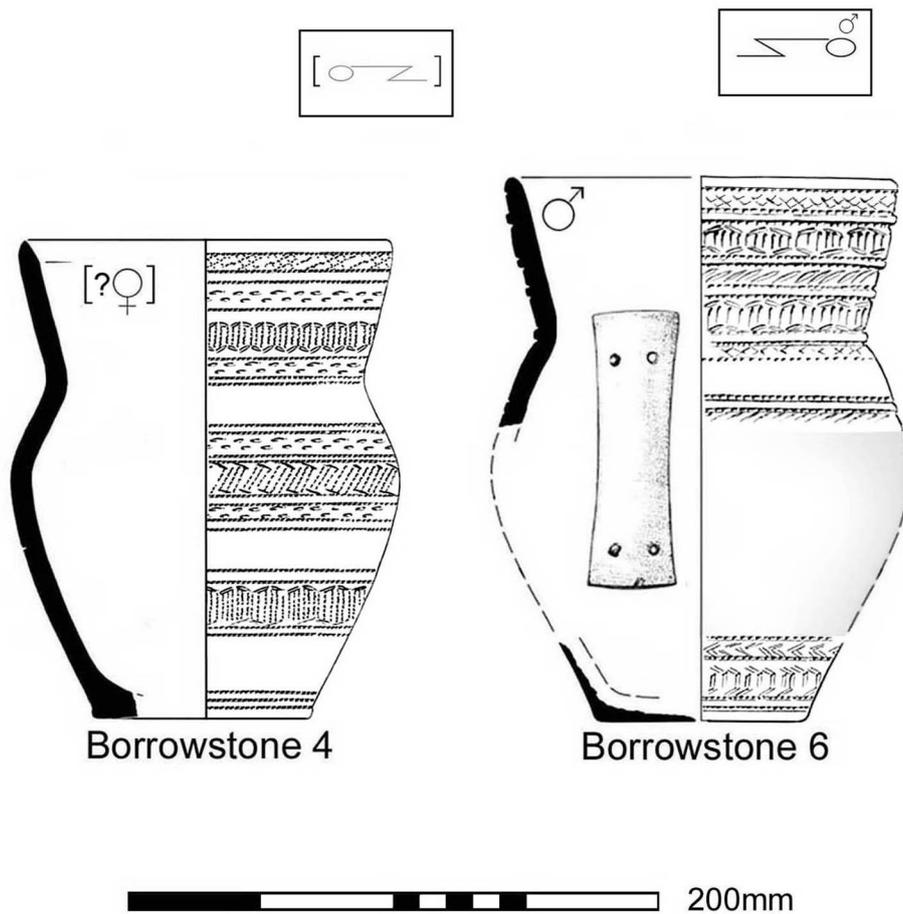


Figure 17.13: Detail of Beakers with male and female-pattern burials from cists 4 and 6 Borrowstone, Newhills, Aberdeenshire, with arrangement of burials (RWS stain, LES) within cists indicated (north to top of page)

### 3. BROOMEND OF CRICHIE CIST 2 (Fig. 17.14)

This cist at Broomend of Crichtie, Inverurie, held the inhumation of ‘a large male skeleton and an infant female skeleton with a large and small urn’ (Davidson 1867, 115; note: it is unclear why/how the infant could have been identified as female; this should be treated with caution). The accompanying pots present a pair of contrasting size and shape, like the Borrowstone 1 and 2 female and male above, and subtly differing design. The larger Beaker, placed at the back of the LES male shows a larger sinuous S profile although of comparatively broad proportions (hence presumably its Step 5 attribution although a Step 4 categorisation (*contra* I. Shepherd) is as arguable); the smaller pot, placed by the (?female) child in the NW corner of the cist, has a cup-shaped neck above a marked waist. The larger male pot is decorated with three zones comprising combinations of strips of chevrons and simple zigzags (Clarke motifs 3 and 7) with the basal zone bearing filled pendant triangles at its base (cf Borrowstone 2). The smaller (?‘female’) pot bears bands (virtually a single continuous zone of AOB) comprising alternate L/R R\L hatching (motif 2) apart from one band of lattice (motif 4) on the neck zone. It is notable that the cup-shaped neck of smaller pot is an inverse of the larger, almost fitting within the latter’s concave curve. Also of note is the decoration of simple diagonal hatching on the rim of the larger male pot (see below).

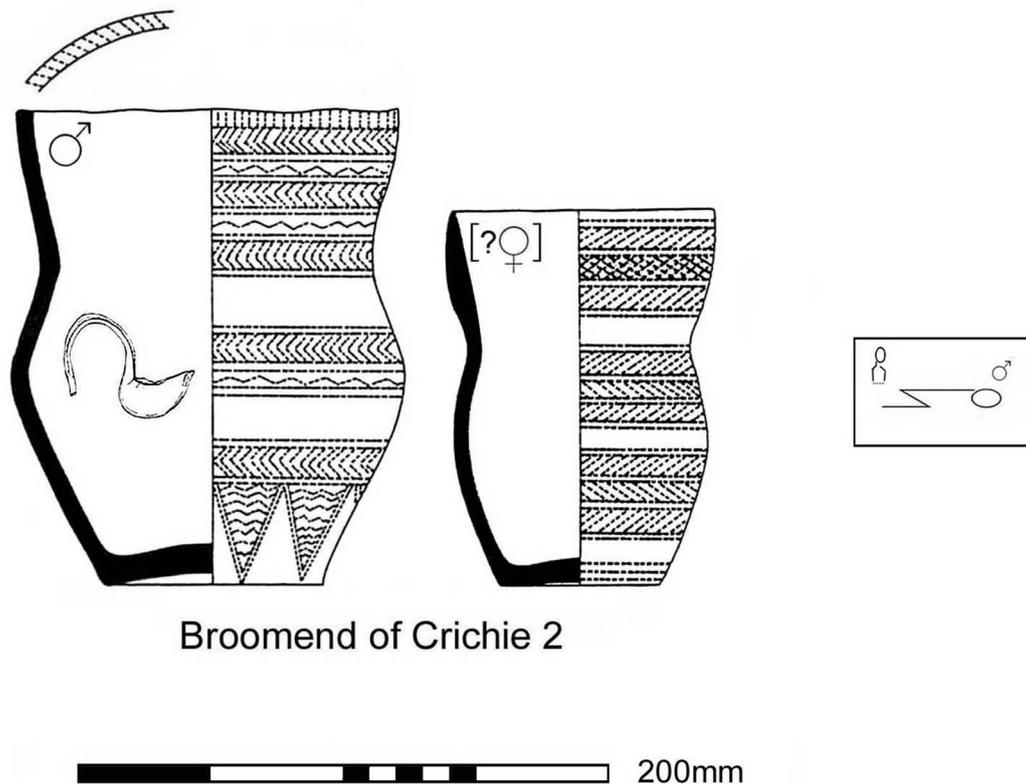


Figure 17.14: Detail of Beakers with male (LES) and ?female infant burial from cist 2 Broomend of Crichie, Aberdeenshire with arrangement of burials within cist indicated (north to top of page)

#### 4. BROOMEND OF CRICHIE CIST 1 (Fig. 17.15)

In an intriguing reflection of the pots accompanying the male and possible female child at Broomend Cist 2, those with another double burial, in this case of two adult males, also at Broomend of Crichie (Cist 1) are worthy of interest. In this case sadly no orientation details were recorded apart from the note that ‘their heads lay at either end of the cist’. As part of the prevailing E–W cist orientation (M. Hutchison, *Beakers & Bodies* Study) it is reasonable to assume orientation of these burials to the east and west; if this was indeed the case we would therefore have a double burial of two males apparently interred in opposing positions, the possible equivalent of a ‘male:female’ pattern pair. The accompanying Beakers ‘placed at the back of the neck of each body’ (Chalmers 1867, 112) comprise – as with Broomend 2 – a taller S-profile accompanied by a smaller, longer, cup-necked, pot. Again, as with Broomend cist 2, the cupped, convex, curve of the smaller pot is a reversal, or negative, of the concave top of the taller pot. In this case the motifs employed in the decoration differ considerably: the larger pot has two major metope/panelled zones of decoration (Clarke motif 37 and 38) employing vertical and horizontal bands of zigzags and chevrons together with simple verticals and edging lines. As with the larger pot at Broomend 2 it also has a band of decoration, cross-hatching, on the rim. The smaller pot has a far simpler banded decoration of simple diagonally hatched strips (Clarke motif 2) and small circular incisions (Clarke motif 8).

Here we seem to have examples of a reciprocity of shape with large and small pot pairings that present the possibility that pot distinction is representative not necessarily exclusively of a male:female distinction but possibly of a senior;junior relationship or of a male:‘female’ equivalent relationship. The pertinent point again is that each pairing combines pots that are distinguished in profile – the more sinuous contrasting the cup-shaped neck. In the case of Borrowstone 1 and 2 size and profile differ strongly but décor and style are almost as one. The sense is of motifs being a uniting factor – stressing links and continuity, while shape is being used

to underline differences in gender or status. It is of note also that one motif is a uniting factor between the two cists: bands of running chevrons (Clarke motif 13) on the neck zone of the smaller Broomend 1 and larger Broomend 2: these are not found on the neck zones of other North-east Beakers apart from the very different ribbed pot with the male from Tavelty and the pot with the female from Manar farm. Is it possible here to detect a sense of lineage in motif arrangement in the area? This is looked at in the printed text.

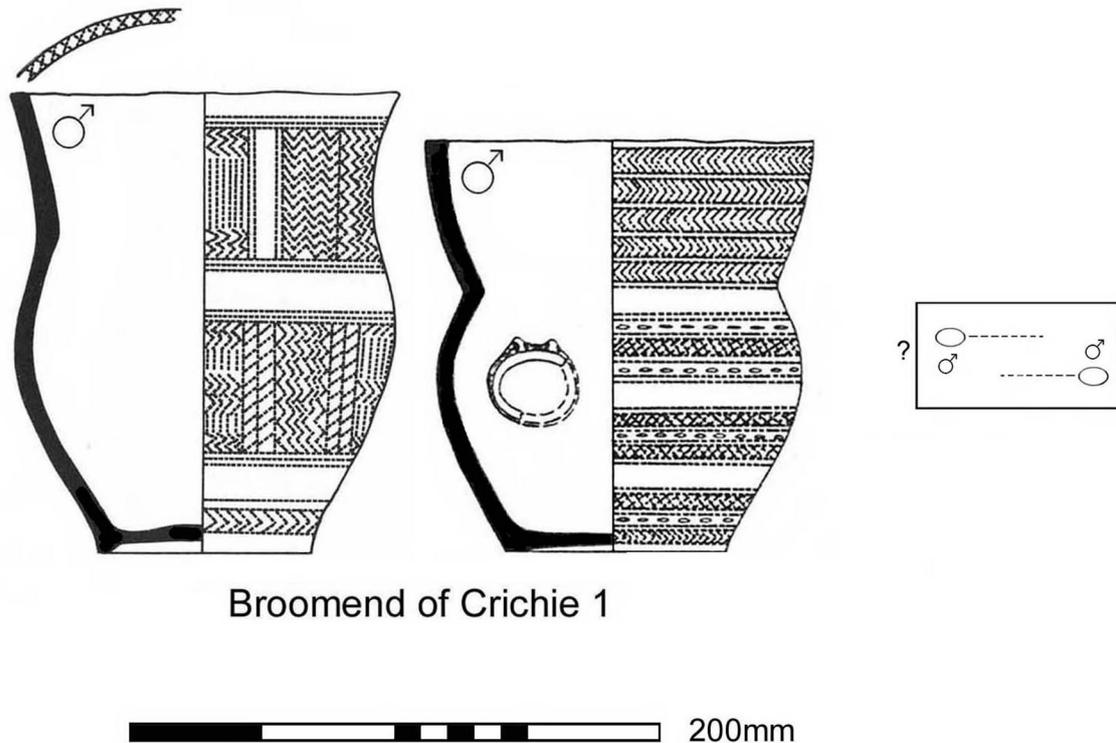


Figure 17.15: Detail of Beakers with double male burial from cist 1 Broomend of Crichie, Aberdeenshire, with implied arrangement of burials within cist ([R]WS, [L]ES) indicated (north to top of page)

The two Beakers from Broomend of Crichie 2 were designated Step 4 (I. Shepherd) and the Broomend 1 pots as two Step 5s and this does here raise the question of the difficulty of subjective decisions on which designations are made: the similar cup-shaped necks and restrained zonation of both smaller pots from Broomend 1 and 2 would suggest a similarity that should override any difference in overall size and proportion (*contra* I Shepherd), uniting them rather in a similar category.

In both pairs the comparative size of the two is striking and this size contrast is apparent in two other cists with the provision of two pots for, in this case, apparently single burials. The first at Whitehouse (Fig. 17.16; Callander 1906 [note: wrongly labelled Whitestone in Clarke (no 1507–8; 317–8) and in subsequent publications]) represents the most striking example with a shorter comparatively squatter pot (Step 4) paired with a unique tall narrow biconical – virtually cylindrical – pot which, found alone, would only be identified as a Beaker from its decoration. The second pair from Uppermill, Ardiffery (Fig. 17.16), again combines a larger classic 3-zoned (neck, belly and lower body) with a smaller, marginally cup-necked, Beaker, again, like the Broomend of Crichie 2 smaller pot, with minor zonation (tending towards AOB). The striking difference of size and shape clearly represented an important factor in observing certain rites. Allowing for the possible element of heirloom status (but see printed text for discussion of pots made for the grave), it underlines again the synchronicity of otherwise very diverse styles.

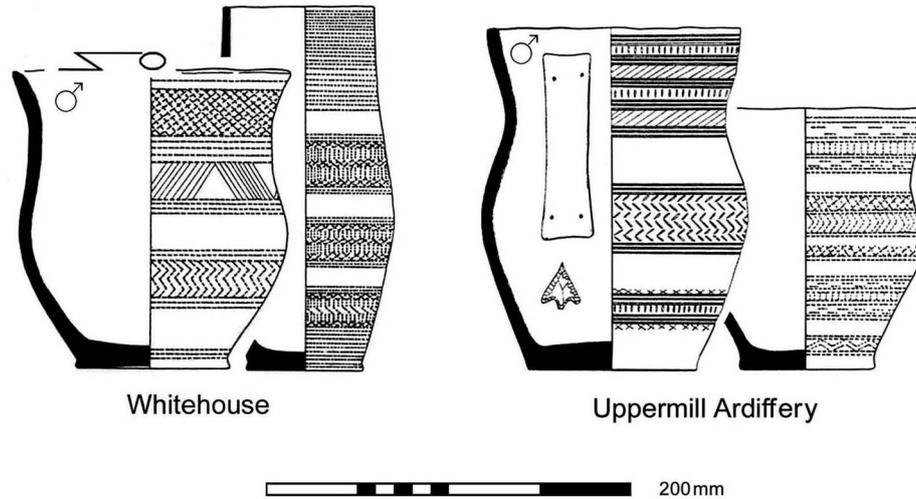


Figure 17.16: Detail of paired Beakers from single burials at Whitehouse, Skene (LESM), and Uppermill, Cruden, Ardiffery (?L--M), Aberdeenshire

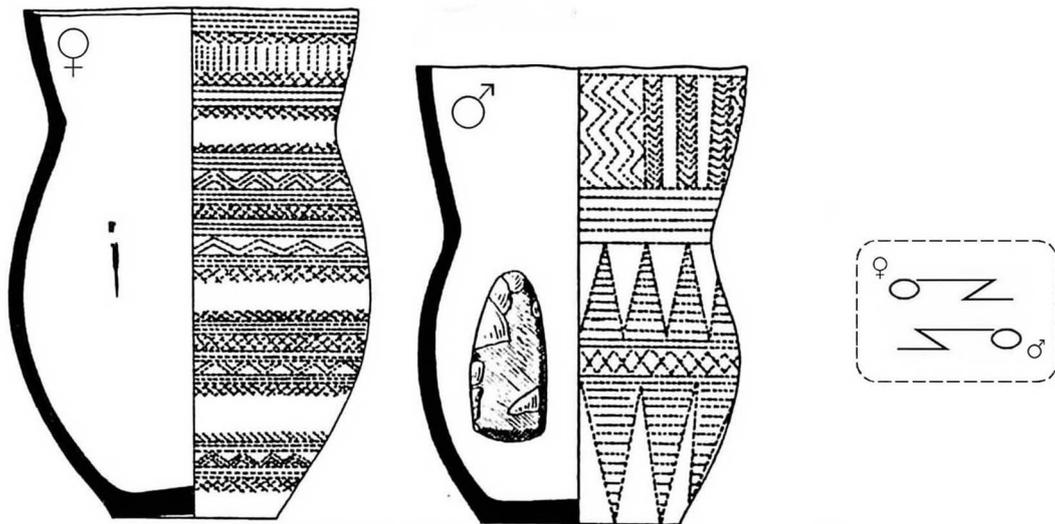
### ***Case studies from East Yorkshire***

In spite of the range of combinations and pairings present amongst the inhumations within the east Yorkshire barrows, very few provide secure sexed burials with close enough association to offer case studies of individual male:female pairs. The following examples, however, give some indication of the comparative use of shape and style in operation for delineating male:female and other paired burials.

#### **5. GARTON SLACK 163 (Fig. 17.17)**

The ‘His and Hers’ Beakers of Garton Slack 163 present an interesting pair. They represent RWS and LES burials, the female placed behind the male’s back in a ‘head to toe’ position. In this pair, the male pot accompaniment is more representative of Step 5 with a longer neck, lower belly and a tendency to squatness. By comparison, the ‘female’ pot is taller, more gracile with a shorter neck. In shape, therefore, the pots are distinguished as the North-east Scottish pairs above, although in a gender reverse of that norm. However, style and décor both exhibit classic male:female motifs. The male pot has opposed long triangles (a male pot characteristic in North-east Scotland) and a neck design of vertical bands/panels, (also principally an attribute of male pots in the North-east: Clinterty; Lesmurdie B; although note these are also found on the possible female pot from Lesmurdie A). The Garton Slack female pot has four broad zones (neck-upper belly and lower body/foot) which combine plain horizontal lines of tooth-comb, bands of zig-zag (motif 7), and cross-hatched tooth-comb (motif 4) and a neck band of vertical tooth-comb between zig-zag edging (motif 27); all four zones have cross-hatched fringing, a feature not found on any male or male-pattern pots in Yorkshire (and noted as more common on females in North-east Scotland (eg Borrowstone 1); the burial was one of two females also accompanied by an awl, an artefact type commonly associated with females in late 3rd and early 2nd millennium graves (Thomas & Ellwood 2005).

In sum, two distinctive pots of Step 4 and 5 categories with separate male and female associations thus demonstrating a clear demarcation, again indicative of a distinction rather than a developmental relationship. The importance here – as with the Broomend of Crichie examples – is the requirement of one of each type chosen for placement in grave – expressing at the same time a unity and an expressed distinction.



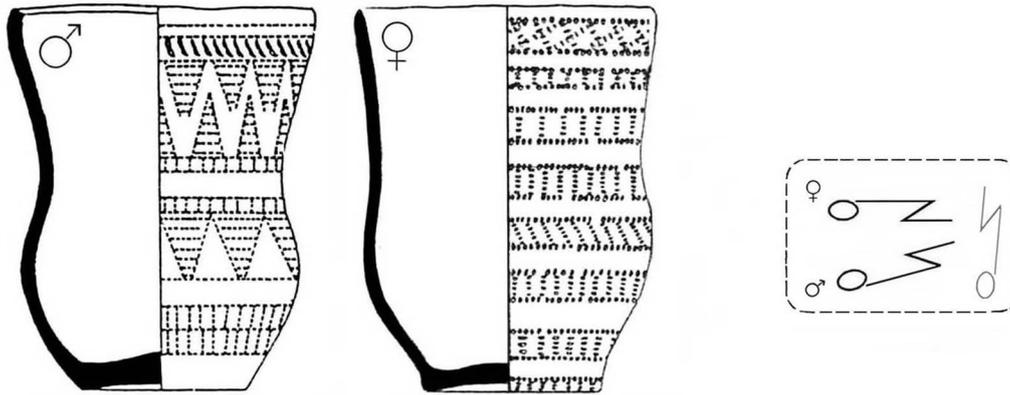
Garton Slack 163

200mm

Figure 17.17: Detail of Beakers with male and female burials (LES, RWS) from a grave beneath Garton Slack 163 barrow, East Yorkshire, with arrangement of burials within grave indicated (north to top of page)

#### 6. PAINSTHORPE WOLD 4 (Fig. 17.18)

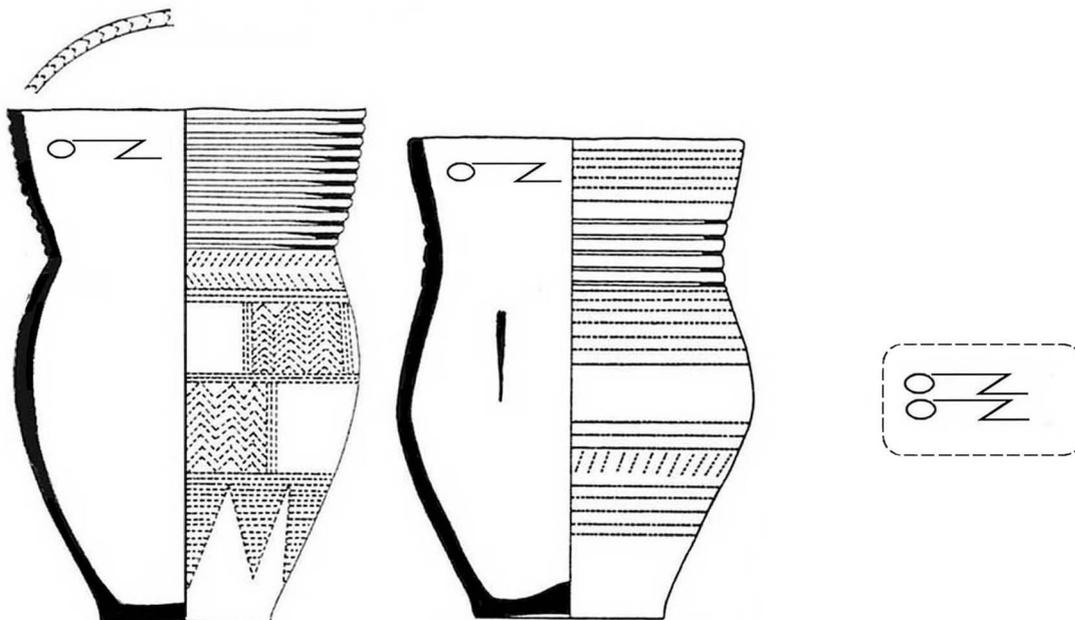
This paired burial was of a youth on his left, in this case unusually orientated west (LWN), accompanying a female RWS burial. The rare orientation of the youth to the west, combined with his L-side placement, resulted in him looking not just to the north but also, possibly more importantly, to the female. The accompanying pots were of Step 5 and Step 6; it is not absolutely certain which pot accompanied which individual but again the contrast of the pair is striking, although in this case not in size but rather in style and design. The pot which appears to have accompanied the female displayed an AOB (All-Over-Banded) design of eight simple bands of tooth-comb ladder pattern (Clarke motif 5) and a cross-hatched band (motif 4) at the top. By contrast the pot apparently with the youth has an elaborate zigzag neck (motif 32ii), a band of triangles (motif 29) on the upper belly and 2 bands of ladder pattern (motif 5) on the lower body – the only echo of the other, ?female, Step 6 pot. These Beakers combined with an unusual male burial placement suggest an arrangement outwith the mainstream pattern, possibly indicative of emerging developments diverging from – or challenging – the core tradition.



Painsthorpe Wold 4



Figure 17.18: Detail of Beakers with a paired burial (RWS, LWN) from a central grave beneath Painsthorpe Wold 4 barrow, East Yorkshire, with arrangement of burials within grave indicated (north to top of page)



Huggate and Warter Wold



Figure 17.19: Detail of Beakers with a double female-pattern burial from a central grave beneath a remnant barrow, Huggate and Warter Wold 254, East Yorkshire, with arrangement of burials within grave indicated (north to top of page)

## 7. HUGGATE AND WARTER WOLD 254 (Fig. 17.19)

This final case study is that of a burial of two adult individuals in the female RWS pattern; the sex was not stated but one was accompanied by the female attribute of a bronze [?copper] awl. The second pot was discovered in fragments and reconstructed. Again, like Broomend of Crichtie 1, two burials of apparently the same sex were accompanied by a combination of a larger and smaller pot, in this case the larger with a cup-shaped neck and the smaller a sinuously profiled example (although again both were given a Step 4 attribution (I. Shepherd). The motifs are very distinct: the smaller (associated with the burial accompanied by the awl) bore very plain and simple decoration of horizontal lines of tooth-comb only relieved by bands of grooving distinguishing the neck from the body and a single band of diagonal tooth-comb hatching between lines of tooth-comb on the lower body. The taller Beaker with its cup-shaped neck is by comparison a striking pot: a neck defined by a collar of grooving; two bands of alternating plain and decorated metopes of zig-zags in frames of plain tooth-comb; the area of the lower body to base is covered with pendant triangles infilled with tooth-comb; the running diagonal tooth-comb strokes at the base are the only motif reference or link to the smaller pot.

\* \* \*

These case studies have shown the nuances of the Beaker burial pattern, displaying and defining gender and status distinctions, in full operation. They show the core LES/RWS pattern and its concomitant pottery forms strictly adhered to in the case of such as the Borrowstone cists. However they have also demonstrated with the double burial data (from the two males at Broomend of Crichtie 1 and the youth and female at Painsthorpe Wold) that the expression of the relationship of the individuals – in particular a desire or requirement to have them face each other – could override the usual/norm of single burial formalities which would otherwise prescribe orientation in the accepted direction.

There is also some indication from these studies that the distinctions being marked are not simply those of male:female but also of male:'female', indicating that orientation together with Beaker form and style might be used to express not just a 'female' but possibly a 'subordinate' status. The Beakers examined in the male and female pairings above demonstrate that one of the pair, that usually accompanying the female, as well as differing in size and shape, is invariably of reduced elaboration and more muted pattern. Consequently, in all the pairings there is a sense of a 'senior' and 'junior', not just in size but also in style and treatment of the pot.

Although by focusing on the details of Beaker variation the original emphatic male:female distinctions of Step 4 and 5 Beakers may have been rendered less clear and persuasive, the closer focus on these pairings has made the definitive choices being made to satisfy the required observances of the formalities far more apparent. The distinction has become less that of any prescribed definitive male:female pot design – undeviating, slavishly followed – but rather of choices being made to suit specific relationships or situation. These choices are being made in shape, particularly of neck, to some extent in size and in choice and arrangement of motifs. These choices carry complex and deep-rooted significance discussed further in the printed text.

## Bibliography

- Callander, J.G. 1906. Notices of (1) two stone cists each containing two drinking-cup urns ... etc. *Proceedings of the Society of Antiquaries of Scotland* 40, 23–39
- Carlin, N. Popovic, L. Wilkin, N. & Wright, M. 2010. The moon, the bonfire and Beaker: Analysing white inlay from Beaker pottery in Aberdeenshire. *PAST* 63, 1–3
- Shepherd, I.A.G. 1986. *Powerful Pots: Beakers in north-east prehistory*. Aberdeen: Anthropological Museum, University of Aberdeen