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The Lands of Ancient Lothian

Interpreting the Archaeology of the A1

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Chapter 12

Bridge to the A1 Archive

This volume was designed to present the findings from the A1 excavations and post-excavation analyses in as holistic a way as possible, in order to give a well-rounded account of what people did at each place in the past. For this reason, the results of specialist analysis of artefacts, palaeoenvironmental remains, animal bone and human bone have been integrated into the account of the excavated archaeology as much as possible in Chapters 2 to 7, while text boxes in all of the chapters focus on certain aspects of the findings in more detail.

Given the length of the reports on specialist analysis – inclusion of which would have doubled this volume – it was not possible to include them in printed form here. They have been included in full with the Site Archive,

which has been deposited with the National Monuments Record of Scotland, held and maintained by the Royal Commission on the Ancient and Historical Monuments of Scotland.

We hope that the results of the A1 excavations will be as useful as possible to a variety of readers, including other specialists who might want to draw on the A1 material for comparisons or subject it to further analysis in the future. To that end, this chapter provides a guide to the archived specialist reports on the artefactual, palaeoenvironmental and bone assemblages from the excavations.

Table 12.2 presents the radiocarbon dates obtained from all of the excavated sites along the A1.

Table 12.1 Specialist reports deposited with the Archive, including catalogues and tables.

<i>Site</i>	<i>Report: Catalogues, tables and discussion</i>	<i>Author</i>
Pencreraig Hill	Pottery	Alison Sheridan
Pencreraig Hill	Coarse stone tools	Alison Sheridan
Pencreraig Hill	Possible stone bead: natural geological freak, possibly used as amulet	Alison Sheridan
Pencreraig Hill	Pieces presented as possible examples of worked shale: almost all natural	Alison Sheridan
Pencreraig Hill	Vitrified material, probably resulting from Early Neolithic burning of monument	Alison Sheridan
Pencreraig Hill	Burnt daub	Alison Sheridan
Pencreraig Hill	Human remains	Nicholas Marquez-Grant
Pencreraig Hill	Archaeobotanical summary report	Jennifer Miller and Susan Ramsay
Pencreraig Hill	Archaeobotanical full archive report	Jennifer Miller and Susan Ramsay
Pencreraig Hill	Micromorphology of a Neolithic long mortuary enclosure	Ian A. Simpson
Eweford West and East	Pottery: Grooved Ware from Eweford West, lower hollows area and beyond	Alison Sheridan
Eweford West and East	Beaker Pottery from Eweford	Alison Sheridan
Eweford West and East	Traditional Carinated Bowl pottery from the Area 5 Early Neolithic funerary monument	Alison Sheridan
Eweford West and East	Early Neolithic pottery from pit 2 [025] to the south-east of Eweford West	Alison Sheridan
Eweford West and East	Eweford West: Bronze Age urns from cemetery of cremated remains on periphery of cairn	Alison Sheridan

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<i>Site</i>	<i>Report: Catalogues, tables and discussion</i>	<i>Author</i>
Eweford West and East	Early Neolithic pottery from pit 1 [019] to the south of Eweford West	Alison Sheridan
Eweford West and East	Eweford West: pottery from context 109 (fill of lower hollow)	Alison Sheridan
Eweford West and East	The pottery from Eweford East	Alison Sheridan
Eweford West and East	Struck lithic artefacts	Alan Saville
Eweford West and East	Battle axehead from Pit 025, context 042 (SF 145) (Eweford West)	Alison Sheridan
Eweford West and East	Stone axehead fragments from Eweford	Alison Sheridan
Eweford West and East	Cup-marked stones from the western side of the cairn	Alison Sheridan
Eweford West and East	Coarse stone from Eweford East post and pit alignments	Dawn McLaren
Eweford West and East	Coarse stone from Eweford West	Dawn McLaren
Eweford West and East	Eweford miscellaneous metal finds	Alison Sheridan
Eweford West and East	Worked bone/antler from Eweford	Dawn McLaren
Eweford West and East	Eweford West bone bead	Alison Sheridan
Eweford West and East	Animal bone from Eweford West	Catherine Smith
Eweford West and East	Eweford human remains	Paul Duffy
Eweford West and East	Archaeobotanical summary report	Jennifer Miller and Susan Ramsay
Eweford West and East	Archaeobotanical full archive report	Jennifer Miller and Susan Ramsay
Eweford West and East	The interpretation of archaeological sediments and soils from Eweford West and Eweford East using thin section micromorphology	Jo Thomas and Ian A. Simpson
Knowes	Pottery	Alison Sheridan
Knowes	Struck lithic artefacts	Alan Saville
Knowes	Archaeobotanical summary report	Susan Ramsay and Jennifer Miller
Knowes	Archaeobotanical full archive report	Susan Ramsay and Jennifer Miller
Overhailes	Pottery	Alison Sheridan
Overhailes	Struck lithic artefacts	Alan Saville
Overhailes	Animal bone	Catherine Smith
Overhailes	Archaeobotanical summary report	Jennifer Miller and Susan Ramsay
Overhailes	Archaeobotanical full archive report	Jennifer Miller and Susan Ramsay
Howmuir	Pottery	Alison Sheridan
Howmuir	Struck lithic artefacts	Alan Saville
Howmuir	Archaeobotanical summary report	Jennifer Miller and Susan Ramsay
Howmuir	Archaeobotanical full archive report	Jennifer Miller and Susan Ramsay
Howmuir	Micromorphology of a ditch-fill section	Ian A. Simpson
South Belton	Struck lithic artefacts	Amelia Pannett
South Belton	Animal bone	Catherine Smith
South Belton	Archaeobotanical summary report	Jennifer Miller and Susan Ramsay
South Belton	Archaeobotanical full archive report	Jennifer Miller and Susan Ramsay
Biel Water	Struck lithic artefacts	Amelia Pannett
Biel Water	Animal bone	Catherine Smith
Biel Water	Archaeobotanical summary report	Jennifer Miller and Susan Ramsay
Biel Water	Archaeobotanical full archive report	Jennifer Miller and Susan Ramsay
Eweford Cottages	Coarse pottery	Ann MacSween
Eweford Cottages	Struck lithic artefacts	Amelia Pannett
Eweford Cottages	Coarse stone	Dawn McLaren and Fraser Hunter (with geological identifications by Fiona McGibbon)
Eweford Cottages	Animal bone	Catherine Smith
Eweford Cottages	Soils analysis	Ian A. Simpson
Eweford Cottages	Archaeobotanical summary report	Jennifer Miller and Susan Ramsay
Eweford Cottages	Archaeobotanical full archive report	Jennifer Miller and Susan Ramsay
Eweford Cottages	Micromorphology of a ditch-fill section	Ian A. Simpson
Phantassie	Coarse pottery	Ann MacSween

Bridge to the A1 Archive

<i>Site</i>	<i>Report: Catalogues, tables and discussion</i>	<i>Author</i>
Phantassie	The Samian sherd	Colin Wallace
Phantassie	Struck lithic artefacts	Amelia Pannett
Phantassie	Non-ferrous metalwork	Fraser Hunter
Phantassie	Iron Fraser	Hunter
Phantassie	Glass, ceramic and bone small finds	Fraser Hunter
Phantassie	Vitrified material	Dawn McLaren and Andrew Heald
Phantassie	Animal bone	Catherine Smith
Phantassie	Human remains	Paul R J Duffy and Nick Márquez-Grant
Phantassie	Archaeobotanical summary report	Analysis by Nick Márquez-Grant
Phantassie	Archaeobotanical full archive report	Jennifer Miller and Susan Ramsay
Phantassie	Interpreting anthropic-type deposits using thin section micromorphology	Jennifer Miller and Susan Ramsay
Thistly Cross	Pottery	Ian A. Simpson
Thistly Cross	Coarse stone	Ann MacSween
Thistly Cross	Coarse stone	Dawn McLaren and Fraser Hunter
Thistly Cross	Archaeobotanical report	Jennifer Miller and Susan Ramsay

Table 12.2 Radiocarbon dates from the A1 sites.

Site	Lab-code	Material	Context	Description	Years BP	CI3	1 Sigma	2 sigma
Biel Water	SUERC-8196	<i>Betula</i> charcoal	001	Fill of scoop [012], sealing (010).	2210 ± 35	-26.40	360–200 BC	390–190 BC
Biel Water	SUREC-8192	<i>Betula</i> charcoal	001	Fill of scoop [012], sealing (010).	2215 ± 35	-26.00	370–200 BC	390–190 BC
Biel Water	SUREC-8197	<i>Corylus</i> charcoal	010	Occupation layer in base of scoop [012].	2295 ± 35	-24.50	410–250 BC	410–200 BC
Eweford Cott	SUERC-8186	<i>Hordeum vulgare var vulgare</i>	101	Occupation deposit.	1925 ± 35	-23.40	AD 30–125	40 BC–AD 210
Eweford Cott	SUERC-8181	<i>Corylus</i> charcoal	103	Occupation deposit.	1925 ± 35	-26.00	AD 20–125	40 BC–AD 140
Eweford Cott	SUERC-8182	<i>Hordeum vulgare</i>	103	Occupation deposit.	985 ± 35	-20.70	40 BC–AD 55	60 BC–AD 90
Eweford Cott	SUERC-8180	<i>Hordeum vulgare s</i>	011	Fill of pit 070.	2025 ± 35	-24.00	90 BC–AD 30	160 BC–AD 60
Eweford Cott	SUERC-8176	<i>Triticum</i> sp	061	Fill of enclosure ditch B, a midden dump.	2110 ± 35	-22.40	190–50 BC	350–40 BC
Eweford Cott	SUERC-8177	<i>Prunus spinosa</i> charcoal	008	Fill of enclosure ditch A, a midden dump.	2115 ± 35	-25.40	200–50 BC	350–40 BC
Eweford Cott	SUERC-8187	<i>Betula</i> charcoal	061	Fill of enclosure ditch B, a midden dump.	2120 ± 35	-25.90	200–90 BC	350–40 BC
Eweford Cott	SUERC-8172	<i>Betula</i> charcoal	096	Fill of enclosure ditch B, a natural silting.	2225 ± 35	-26.90	370–200 BC	390–200 BC
Eweford Cott	SUERC-8178	<i>Betula</i> charcoal	037	Fill of enclosure ditch A, a natural silting.	2235 ± 35	-25.00	380–210 BC	390–200 BC
Eweford Cott	SUERC-8179	<i>Maloidaeae</i> charcoal	018	Primary fill of pit 024.	4180 ± 35	-24.90	2880–2670 BC	2890–2630 BC
Eweford East	SUERC-5344	<i>Corylus</i> charcoal	1166	Fill of post-hole 1167 in southern pit alignment.	3880 ± 35	-25.00	2460–2300 BC	2470–2200 BC
Eweford East	SUERC-5345	<i>Salix</i> charcoal	1166	Fill of post-hole 1167 in southern pit alignment.	3890 ± 40	-23.60	2460–2310 BC	2470–2230 BC
Eweford East	SUERC-5346	<i>Corylus</i> charcoal	1549	Fill of post-hole 1519 in northern pit alignment.	3910 ± 35	-27.50	2470–2340 BC	2490–2280 BC
Eweford East	SUERC-5337	<i>Corylus</i> charcoal	1478	Fill of post-hole 1479 of enclosure.	3950 ± 35	-25.50	2560–2350 BC	2570–2300 BC
Eweford East	SUERC-5336	<i>Salix</i> charcoal	1478	Fill of post-hole 1479 of enclosure.	4010 ± 35	-26.20	2570–2470 BC	2620–2460 BC
Eweford East	SUERC-5340	<i>Salix</i> charcoal	1114	Fill of post-hole 1115 in southern pit alignment.	4140 ± 35	-25.80	2870–2620 BC	2880–2580 BC
Eweford East	SUERC-5347	<i>Salix</i> charcoal	1549	Fill of post-hole 1519 in northern pit alignment.	4685 ± 40	-26.30	3520–3370 BC	3630–3360 BC
Eweford East	SUERC-5338	<i>Corylus</i> nut shell	1291	Fill of pit 1292.	4740 ± 40	-22.70	3640–3380 BC	3640–3370 BC
Eweford East	SUERC-5339	<i>Corylus</i> charcoal	1114	Fill of post-hole 1115 in southern pit alignment.	7050 ± 40	-25.90	5990–5840 BC	6000–5800 BC
Eweford West	SUERC-5287	Cremated adult femur	058	Upper fill of cist 055, overlying slabs 074.	2395 ± 40	-26.30	760–390 BC	760–390 BC
Eweford West	SUERC-5320	Cremated adult humerus	031	Cremated bone fill from Urn 1 in pit 028.	2960 ± 40	-24.70	1260–1050BC	1320–1020BC
Eweford West	SUERC-5334	Cremated longbone	156	Cremated bone in pit 157.	3000 ± 35	-21.80	1370–1130 BC	1380–1120 BC
Eweford West	SUERC-5329	Cremated adult tibia	147	Cremated bone in pit 146.	3070 ± 40	-23.80	1400–1260 BC	1430–1210 BC
Eweford West	SUERC-5350	Cremated adult femur	131	Cremated bone in pit 129.	3335 ± 35	-24.40	1690–1520 BC	1690–1520 BC
Eweford West	SUERC-5327	Cremated adult humerus	119	Cremated bone in pit 118.	3345 ± 40	-17.80	1690–1530 BC	1740–1520 BC

Table 12.2 Radiocarbon dates from the AI sites (cont).

Site	Lab-code	Material	Context	Description	Years BP	C13	1 Sigma	2 sigma
Eweford West	SUERC-5319	Cremated adult cranium	039	Cremated bone in pit 027.	3370 ± 35	-23.80	1740-1610 BC	1750-1520 BC
Eweford West	SUERC-5354	Cremated adult femur	082	Cremated bone in pit 081.	3385 ± 35	-24.40	1740-1620 BC	1750-1520 BC
Eweford West	SUERC-5328	Cremated adult vertebra	144	Cremated bone in pit 145.	3395 ± 35	-23.40	1750-1630 BC	1860-1530 BC
Eweford West	SUERC-5349	Cremated adult tibia	061	Cremated bone in pit 060.	3405 ± 40	-24.60	1750-1620 BC	1880-1530 BC
Eweford West	SUERC-5300	Cremated adult femur	071	Cremated bone in pit 073.	3420 ± 40	-22.00	1860-1630 BC	1880-1610 BC
Eweford West	SUERC-5324	Cremated adult femur	043	Cremated bone in pit 025.	3430 ± 40	-23.20	1860-1680 BC	1880-1620 BC
Eweford West	SUERC-5325	Cremated adult cranium	026	Cremated bone in pit 040.	3430 ± 40	-24.90	1860-1680 BC	1880-1620 BC
Eweford West	SUERC-5356	Cremated adult femur	168	Cremated bone in Urn 2 in pit 169.	3435 ± 40	-25.60	1860-1680 BC	1880-1620 BC
Eweford West	SUERC-5532	Cremated adult parietal	153	Cremated bone in pit 152.	3440 ± 35	-25.20	1860-1680 BC	1880-1630 BC
Eweford West	SUERC-5355	Cremated adult cranium	034	Cremated bone in Urn 4 in pit 032.	3440 ± 40	-23.60	1870-1680 BC	1880-1630 BC
Eweford West	SUERC-5304	Corylus charcoal	031	Cremated bone Urn 1 in pit 028.	3455 ± 35	-24.50	1880-1690 BC	1880-1680 BC
Eweford West	SUERC-5330	Cremated adult femur	154	Cremated bone in pit 150.	3460 ± 40	-21.00	1880-1690 BC	1890-1680 BC
Eweford West	SUERC-5326	Cremated adult femur	122	Cremated bone in pit 121.	3470 ± 35	-21.70	1880-1730 BC	1890-1680 BC
Eweford West	SUERC-8206	Cremated adult humerus	031	Cremated bone in Urn 1 in pit 028.	3465 ± 3	-23.60	1880-1730 BC	1890-1690 BC
Eweford West	SUERC-8202	Cremated adult tibia	031	Cremated bone in Urn 1 in pit 028.	3485 ± 35	-24.80	1880-1750 BC	1900-1690 BC
Eweford West	SUERC-5348	Cremated adult tibia	117	Cremated bone in pit 118.	3490 ± 40	-25.10	1880-1740 BC	1890-1690 BC
Eweford West	SUERC-5288	Cremated adult humerus	090	Deposit sealing a gravel layer 187.	3515 ± 35	-26.20	1890-1760 BC	1940-1730 BC
Eweford West	SUERC-5307	Corylus charcoal	119	Cremated bone in pit 121.	3520 ± 40	-26.30	1890-1750 BC	1950-1730 BC
Eweford West	SUERC-5305	Betula charcoal	081	Cremated bone in hollow 081.	3535 ± 35	-25.90	1920-1770 BC	1950-1740 BC
Eweford West	SUERC-5316	Hordeum vulgare var vulgare	165	Fill of pit 164.	3650 ± 35	-23.60	2130-1940 BC	2140-1910 BC
Eweford West	SUERC-5284	Hordeum vulgare var nudum	107	Fill of secondary mortuary structure.	3650 ± 40	-23.50	2130-1940 BC	2140-1890 BC
Eweford West	SUERC-5318	Human bone proximal half left ulna	N/A	In a cist which had been sealed by a capstone.	3650 ± 40	-21.30	2130-1940 BC	2140-1890 BC
Eweford West	SUERC-5295	Hordeum vulgare var vulgare	141	Fill of pit 140, sealed by cairn 024.	3675 ± 35	-22.40	2140-1970 BC	2200-1940 BC
Eweford West	SUERC-5317	Hordeum vulgare var vulgare	176	Fill of pit 175.	3680 ± 40	-24.50	2140-1970 BC	2200-1940 BC
Eweford West	SUERC-5308	Hordeum vulgare var nudum	147	Cremated bone in pit 146.	3690 ± 35	-24.90	2140-1980 BC	2200-1950 BC
Eweford West	SUERC-5314	Hordeum vulgare	156	Cremated bone in pit 157.	3695 ± 35	-24.40	2140-2030 BC	2200-1960 BC
Eweford West	SUERC-5315	Hordeum vulgare var nudum	170	Cremated bone in pit 169.	3700 ± 35	-25.50	2140-2030 BC	2200-1970 BC
Eweford West	SUERC-5309	Hordeum vulgare sl	148	Cremated bone in pit 148.	3725 ± 40	-23.60	2200-2030 BC	2280-1970 BC
Eweford West	SUERC-5310	Hordeum vulgare var nudum	151	Cremated bone in pit 150.	3730 ± 35	-23.40	2200-2030 BC	2280-1980 BC
Eweford West	SUERC-5296	Triticum dicoccum	143	Fill of pit 142, sealed by cairn 024.	3735 ± 35	-23.80	2200-2030 BC	2280-2030 BC
Eweford West	SUERC-5306	Hordeum vulgare var nudum	119	Fill of pit 118.	3740 ± 40	-24.70	2210-2030 BC	2290-1980 BC

Table 12.2 Radiocarbon dates from the A1 sites (cont).

Site	Lab-code	Material	Context	Description	Years BP	C13	1 Sigma	2 sigma
Eweford West	SUERC-5299	<i>Hordeum vulgare</i>	028	Fill of pit 028.	3775 ± 35	-23.30	2280–2130 BC	2310–2030 BC
Eweford West	SUERC-5294	<i>Corylus</i> nut shell	103	Fill of pit 101.	4275 ± 40	-25.00	2920–2876 BC	3020–2700 BC
Eweford West	SUERC-5297	<i>Corylus</i> charcoal	020	Fill of pit 019.	4800 ± 35	-24.10	3650–3530 BC	3660–3510 BC
Eweford West	SUERC-5286	<i>Alnus</i> charcoal	182	Burnt <i>in situ</i> timber in façade trench.	4950 ± 35	-26.60	3770–3660 BC	3800–3650 BC
Eweford West	SUERC-5289	<i>Corylus</i> charcoal	209	Fill of stakehole 209.	4960 ± 35	-26.70	3780–3695 BC	3890–3650 BC
Eweford West	SUERC-5298	<i>Corylus</i> charcoal	023	Fill of pit 025.	5045 ± 35	-26.70	3940–3780 BC	3960–3710 BC
Eweford West	SUERC-5290	<i>Corylus</i> charcoal	216	Fill of stakehole 216.	5055 ± 35	-25.20	3950–3790 BC	3960–3770 BC
Eweford West	SUERC-5280	Cattle radius	051	Fill of large primary pit 094.	5065 ± 35	-22.00	3950–3790 BC	3960–3780 BC
Howmuir	SUERC-7530	<i>Salix</i> charcoal	017	Fill of post-hole 016.	2650 ± 35	-26.30	835–795 BC	900–780 BC
Howmuir	SUERC-7533	<i>Corylus</i> charcoal	009	Primary fill of ditch 005.	3210 ± 35	-26.40	1505–1435 BC	1610–1410 BC
Howmuir	SUERC-7529	<i>Corylus</i> charcoal	008	Upper fill of ditch 005.	3295 ± 35	-25.10	1615–1525 BC	1680–1490 BC
Howmuir	SUERC-7534	<i>Prunoidaeae</i> charcoal	009	Primary fill of ditch 005.	3300 ± 35	-25.80	1620–1525 BC	1680–1490 BC
Howmuir	SUERC-7531	<i>Salix</i> charcoal	008	Upper fill of ditch 005.	3325 ± 35	-25.60	1670–1530 BC	1690–1510 BC
Howmuir	SUERC-7532	<i>Corylus</i> charcoal	012	Fill of post-hole 013.	3490 ± 35	-25.20	1880–1760 BC	1910–1690 BC
Knowes	SUERC-7522	<i>Betula</i> charcoal	004	Fill of pit 005.	4505 ± 35	-27.20	3340–3100 BC	3360–3090 BC
Knowes	SUERC-7524	<i>Salix</i> charcoal	025	Fill of pit 026.	4550 ± 35	-24.00	3370–3120 BC	3370–3100 BC
Knowes	SUERC-7523	<i>Salix</i> charcoal	004	Fill of pit 005.	4615 ± 35	-24.10	3500–3350 BC	3520–3190 BC
Knowes	SUERC-7525	<i>Alnus</i> charcoal	025	Fill of pit 026.	4660 ± 35	-26.30	3510–3360 BC	3620–3360 BC
Overhailes	SUERC-7515	<i>Corylus</i> charcoal	292	Fill of a slot 293.	2115 ± 35	-27.20	200–90 BC	350–40 BC
Overhailes	SUERC-7521	<i>Prunus spinosa</i> type charcoal	287	Fill of post-pit 287.	3505 ± 35	-25.70	1890–1770 BC	1930–1740 BC
Overhailes	SUERC-7520	<i>Corylus</i> charcoal	287	Fill of post-pit 287.	3785 ± 35	-27.00	2290–2140 BC	2340–2040 BC
Overhailes	SUERC-7513	<i>Corylus</i> charcoal	240	Fill of pit 241.	3785 ± 40	-25.70	2290–2140 BC	2350–2040 BC
Overhailes	SUERC-7510	<i>Maloidaeae</i> charcoal	017	Fill of pit 024.	4395 ± 35	-25.70	3090–2920 BC	3270–2900 BC
Overhailes	SUERC-7505	<i>Corylus</i> nut shell	246	Fill of pit 247.	4405 ± 35	-23.70	3090–2930 BC	3320–2910 BC
Overhailes	SUERC-7511	<i>Prunus spinosa</i> type charcoal	008	Fill of pit 007.	4425 ± 35	-26.50	3270–2930 BC	3330–2920 BC
Overhailes	SUERC-7504	<i>Corylus</i> charcoal	246	Fill of pit 247.	4440 ± 40	-25.70	3330–3010 BC	3340–2920 BC
Overhailes	SUERC-7512	<i>Corylus</i> charcoal	008	Fill of pit 007.	4450 ± 35	-27.50	3330–3020 BC	3340–2930 BC
Overhailes	SUERC-7509	<i>Corylus</i> charcoal	017	Fill of pit 024.	4455 ± 35	-25.20	3330–3020 BC	3340–3010 BC
Overhailes	SUERC-7519	<i>Salix</i> charcoal	292	Fill of slot 293.	8535 ± 40	-25.10	7590–7545 BC	7600–7525 BC
Pencreig Hill	SUERC-7665	Cremated human bone	220	Fill of enclosure trench.	2050 ± 35	-20.90	110 BC–AD 10	170 BC–AD 30
Pencreig Hill	SUERC-7655	<i>Alnus</i> charcoal	105	Fill of enclosure trench.	3835 ± 35	-25.70	2350–2200 BC	2460–2150 BC
Pencreig Hill	SUERC-7911	Cremated human bone	124	Cremation pyre.	4800 ± 50	-27.70	3650–3520 BC	3700–3380 BC

Table 12.2 Radiocarbon dates from the A1 sites (cont).

Site	Lab-code	Material	Context	Description	Years BP	C13	1 Sigma	2 sigma
Pencreraig Hill	SUERC-8001	<i>Corylus</i> charcoal	140	Fill of large corner post-hole.	4870 ± 50	-25.10	3710–3630 BC	3780–3520 BC
Pencreraig Hill	SUERC-7658	<i>Alnus</i> charcoal	118	Fill of enclosure trench.	4945 ± 35	-24.50	3770–3660 BC	3800–3650 BC
Pencreraig Hill	SUERC-7656	<i>Corylus</i> charcoal	200	Fill of slot.	4955 ± 35	-24.40	3775–3690 BC	3800–3650 BC
Pencreraig Hill	SUERC-7654	<i>Corylus</i> charcoal	105	Fill of enclosure.	4965 ± 35	-27.80	3785–3700 BC	3910–3650 BC
Pencreraig Hill	SUERC-7910	Cremated human bone	124	Cremation pyre.	4940 ± 50	-27.90	3770–3650 BC	3920–3630 BC
Pencreraig Hill	SUERC-7662	<i>Alnus</i> charcoal	113	Fill of enclosure trench.	4975 ± 35	-25.10	3790–3705 BC	3930–3650 BC
Pencreraig Hill	SUERC-7657	<i>Alnus</i> charcoal	178	Fill of corner post-hole.	5015 ± 35	-25.60	3930–3710 BC	3950–3700 BC
Pencreraig Hill	SUERC-9039	<i>Quercus</i> bark	239	Fill of pit 238.	5025 ± 35	-27.60	3795–3705 BC	3940–3660 BC
Pencreraig Hill	SUERC-9035	<i>Quercus</i> bark	170	Fill of pit 238.	5025 ± 35	-28.00	3950–3790 BC	3970–3760 BC
Pencreraig Hill	SUERC-9034	<i>Quercus</i> bark	166	Layer in the pyre.	5025 ± 35	-29.20	3790–3695 BC	3930–3650 BC
Pencreraig Hill	SUERC-9033	<i>Quercus</i> bark	124	Cremation pyre	4985 ± 35	-28.00	3795–3705 BC	3940–3660 BC
Pencreraig Hill	SUERC-7663	<i>Alnus</i> charcoal	122	Fill of scoop defined by stones 217.	5025 ± 35	-24.30	3940–3710 BC	3950–3710 BC
Phantassie Wood	SUERC-6892	<i>Corylus</i> charcoal	019	Fill of pit.	3110 ± 35	-25.10	1430–1310 BC	1460–1290 BC
Phantassie Wood	SUERC-6889	<i>Corylus</i> charcoal	011	Fill of pit.	3150 ± 35	-25.90	1490–1395 BC	1500–1310 BC
Phantassie Wood	SUERC-6891	<i>Corylus</i> charcoal	023	Fill of pit.	3840 ± 35	-25.10	2400–2200 BC	2460–2200 BC
Phantassie Wood	SUERC-6890	<i>Corylus</i> charcoal	023	Fill of pit.	3890 ± 35	-26.80	2470–2340 BC	2480–2230 BC
Phantassie Wood	SUERC-7160	Cremated adult long bone	011	Cremated bone fill of pit.	3095 ± 35	-23.00	1420–1310 BC	1440–1260 BC
Phantassie	SUERC-5625	<i>Salix</i> charcoal	361	Occupation deposit in structure 1.	1715 ± 40	-25.20	AD 250–390	AD 240–420
Phantassie	SUREC-5614	<i>Hordeum vulgare</i> var <i>vulgare</i>	033	Occupation deposit in structure 10.	1805 ± 40	-24.40	AD 130–320	AD 80–340
Phantassie	SUERC-5519	<i>Hordeum vulgare</i> sl	173	Fill of wall cut 366 for structure 1.	1860 ± 35	-26.10	AD 80–220	AD 70–250
Phantassie	SUERC-5640	<i>Hordeum vulgare</i> sl	408	Old ground surface beneath structure 9.	1860 ± 40	-23.30	AD 80–220	AD 60–320
Phantassie	SUERC-5617	<i>Corylus</i> charcoal	016	Midden deposit under structure 10.	1865 ± 35	-25.90	AD 80–220	AD 70–240
Phantassie	SUERC-5511	<i>Triticum</i>	049	Overlay upper fill of hearth pit in structure 9.	1865 ± 35	-23.30	AD 80–220	AD 70–240
Phantassie	SUERC-5499	<i>Hordeum vulgare</i> sl	224	Upper fill of subrectangular hollow in bedrock.	1895 ± 35	-23.20	AD 60–210	AD 20–230
Phantassie	SUERC-5520	<i>Betula</i> charcoal	197	Lower fill of hearth pit 331 in structure 9.	1895 ± 35	-25.00	AD 60–210	AD 20–230
Phantassie	SUERC-5521	<i>Corylus</i> charcoal	020	Midden deposit to the south of structure 1.	1895 ± 35	-26.40	AD 60–210	AD 20–230
Phantassie	SUERC-5644	<i>Hordeum vulgare</i> var <i>vulgare</i>	466	Occupation deposit under structure 1.	1895 ± 40	-22.30	AD 60–210	AD 20–240
Phantassie	SUERC-5517	<i>Prunus spinosa</i> type charcoal	242	Upper fill of subrectangular hollow in bedrock.	1900 ± 40	-26.50	AD 30–210	AD 20–240
Phantassie	SUERC-5507	<i>Corylus</i> charcoal	235	Matrix for arc of stones 246.	1905 ± 35	-29.50	AD 30–135	AD 20–220
Phantassie	SUERC-5700	<i>Hordeum vulgare</i> sl	245	Lower fill of subrectangular hollow in bedrock.	1910 ± 35	-23.30	AD 30–130	AD 20–220

Table 12.2 Radiocarbon dates from the A1 sites (cont).

Site	Lab-code	Material	Context	Description	Years BP	C13	1 Sigma	2 sigma
Phantassie	SUERC-5635	<i>Corylus</i> charcoal	435	Occupation deposit associated with structure 1.	1910 ± 40	-25.50	AD 20-140	AD 0-230
Phantassie	SUERC-5496	<i>Hordeum vulgare</i> var <i>vulgare</i>	055	Occupation material in structure 7.	1915 ± 35	-22.30	AD 30-130	AD 0-220
Phantassie	SUERC-5628	<i>Corylus</i> charcoal	409	Fill of ditch 439.	1915 ± 35	-26.90	AD 30-130	AD 0-220
Phantassie	SUERC-5526	<i>Hordeum vulgare</i> s/	171	Ground surface sealed by structure 11				
Phantassie	SUERC-5527	<i>Hordeum vulgare</i> s/	333	floor deposit 093.	1920 ± 35	-23.40	AD 30-130	AD 0-220
Phantassie	SUERC-5627	<i>Betula</i> charcoal	326	Fill of post-hole 349.	1920 ± 35	-23.10	AD 30-130	AD 0-220
Phantassie	SUERC-5626	<i>Hordeum vulgare</i> s/	411	Occupation deposit.	1920 ± 35	-26.10	AD 30-130	AD 0-220
Phantassie	SUERC-5516	<i>Hordeum vulgare</i> s/	006	Fill of post-hole 413.	1920 ± 40	-25.40	AD 25-130	AD 0-220
Phantassie	SUERC-5637	<i>Corylus</i> charcoal	150	Occupation deposit in structure 10.	1930 ± 35	-26.30	AD 25-130	20 BC-AD 210
Phantassie	SUERC-5639	<i>Corylus</i> charcoal	189	Fill of ditch 399.	1930 ± 35	-28.40	AD 25-130	20 BC-AD 210
Phantassie	SUERC-5639	<i>Prunoidaeae</i> charcoal	066	Old ground surface beneath structure 9.	1930 ± 35	-25.40	AD 25-130	20 BC-AD 210
Phantassie	SUERC-5492	<i>Hordeum vulgare</i> var <i>vulgare</i>	066	Occupation deposit in structure 8.	1935 ± 35	-23.40	AD 25-125	40 BC-AD 140
Phantassie	SUERC-5509	<i>Corylus</i> charcoal	179	Fill of post-hole 177, sealed by later floor deposit 092 in structure 11.	1935 ± 35	-28.80	AD 25-125	40 BC-AD 140
Phantassie	SUERC-5645	<i>Hordeum vulgare</i> var <i>vulgare</i>	069	Deposit between stones 068 making up rubble track.	1935 ± 35	-21.90	AD 25-125	40 BC-AD 140
Phantassie	SUERC-5497	<i>Hordeum vulgare</i> var <i>vulgare</i>	128	Midden deposit under west end of structure 10.	1940 ± 35	-22.40	AD 20-125	40 BC-AD 140
Phantassie	SUERC-5529	<i>Prunoidaeae</i> charcoal	335	Upper fill of large scoop 368.	1950 ± 35	-26.40	AD 0-120	40 BC-AD 130
Phantassie	SUERC-5486	<i>Hordeum vulgare</i> var <i>vulgare</i>	070	Occupation deposit in structure 8 paving slabs 067.	1960 ± 35	-23.60	AD 0-80	50 BC-AD 130
Phantassie	SUERC-5618	<i>Corylus</i> charcoal	020	Midden material dumped south of structure 1.	1960 ± 40	-26.80	20 BC-AD 90	50 BC-AD 130
Phantassie	SUERC-5487	<i>Hordeum vulgare</i> s/	109	Lower fill of post-hole 108.	1965 ± 35	-23.10	AD 0-80	50 BC-AD 130
Phantassie	SUERC-5522	<i>Corylus</i> charcoal	170	Midden deposit below floor 093 in structure 11.	1965 ± 35	-28.40	AD 0-80	50 BC-130 AD
Phantassie	SUERC-5616	<i>Alnus</i> charcoal	120	Midden deposit over structure 1.	1965 ± 40	-27.10	40 BC-AD 80	50 BC-AD 130
Phantassie	SUERC-5638	<i>Betula</i> charcoal	362	Occupation deposit in structure 1.	1965 ± 40	-26.10	40 BC-AD 80	50 BC-AD 130
Phantassie	SUERC-5488	<i>Corylus avellana</i> charcoal	057	Fill of post-hole 158.	1980 ± 35	-24.30	40 BC-AD 70	50 BC-AD 120
Phantassie	SUERC-5512	<i>Corylus</i> charcoal	239	Deposit sealed by wall 205 of structure 16.	1980 ± 35	-25.50	40 BC-AD 70	50 BC-AD 120
Phantassie	SUERC-5500	<i>Hordeum vulgare</i> s/	024	Occupation deposit under structure 14.	1985 ± 35	-22.60	40 BC-AD 60	60 BC-AD 120
Phantassie	SUERC-8196	<i>Corylus</i> charcoal	061	Deposit beneath wall of structure 3.	1995 ± 40	-26.80	45 BC-AD 60	100 BC-AD 130
Phantassie	SUERC-5531	<i>Hordeum vulgare</i> s/	267	Fill of pit 268 forming part of structure 5.	2000 ± 35	-22.00	45 BC-AD 55	100 BC-AD 90
Phantassie	SUERC-5508	<i>Betula</i> charcoal	120	Midden deposit over structure 1.	2005 ± 35	-26.00	45 BC-AD 55	100 BC-AD 80

Table 12.2 Radiocarbon dates from the A1 sites (cont)

Site	Lab-code	Material	Context	Description	Years BP	C13	1 Sigma	2 sigma
Phantassie	SUERC-5502	<i>Hordeum vulgare</i> sl	110	Scorched deposit in structure 2.	2010 ± 35	-23.00	45 BC-AD 50	110 BC-AD 80
Phantassie	SUERC-5629	<i>Betula</i> charcoal	423	Fill of post-hole 426, below structure 14.	2010 ± 40	-26.40	50 BC-AD 55	150 BC-AD 80
Phantassie	SUERC-5490	<i>Corylus</i> charcoal	126	Wall fill in structure 1.	2015 ± 35	-26.40	50 BC-50 AD	110 BC-AD 80
Phantassie	SUERC-5634	<i>Hordeum vulgare</i> sl	431	Old ground surface.	2015 ± 40	-21.20	60 BC-AD 60	160 BC-AD 80
Phantassie	SUERC-5501	<i>Betula</i> charcoal	163	Post-pipe in post-pit [111].	2025 ± 35	-26.20	90 BC-AD 50	160 BC-AD 70
Phantassie	SUERC-5528	<i>Malvoideae</i> charcoal	245	Lower fill of subrectangular hollow in bedrock.	2025 ± 35	-25.00	90 BC-AD 50	160 BC-AD 70
Phantassie	SUERC-5506	<i>Corylus</i> charcoal	234	Constructional deposit of structure 6.	2050 ± 35	-25.30	110 BC-AD 10	170 BC-AD 30
Phantassie	SUERC-5530	<i>Corylus</i> charcoal	256	Fill of pit 257.	2050 ± 40	-27.30	120 BC-AD 10	170 BC-AD 50
Phantassie	SUERC-5510	<i>Salix</i> charcoal	049	Latest rake-out in fire-pit in structure 9.	2060 ± 40	-26.90	160 BC-AD 0	180 BC-AD 30
Phantassie	SUERC-5518	<i>Betula</i> charcoal	308	Lower fill of hollow 132.	2070 ± 35	-25.70	160 BC-AD 0	180 BC-AD 20
Phantassie	SUERC-5630	<i>Betula</i> charcoal	116	Upper fill of hollow 132.	2070 ± 40	-24.30	160 BC-AD 0	200 BC-AD 30
Phantassie	SUERC-5636	<i>Hordeum vulgare</i> var <i>vulgare</i>	438	Fill of ditch 436.	2075 ± 40	-23.30	170-40 BC	200 BC-AD 30
Phantassie	SUERC-5620	<i>Hordeum vulgare</i> var <i>vulgare</i>	388	Occupation deposit under structure 8 paving 067.	2100 ± 40	-26.40	170-50 BC	350 BC-AD 10
Phantassie	SUERC-5498	<i>Corylus</i> charcoal	224	Upper fill of subrectangular hollow in bedrock.	2110 ± 35	-26.00	180-50 BC	350-40 BC
Phantassie	SUREC-9040	Cremented human bone	013	Scorched deposit beside boundary wall 100.	2150±40	-20.70	350-110 BC	360-50 BC
Phantassie	SUERC-7345	<i>Corylus</i> charcoal	367	Fill of post-hole 366 in structure 13.	2480 ± 40	-26.80	20 BC-AD 70	50 BC-AD 120
Phantassie	SUERC-5491	<i>Corylus</i> charcoal	223	Post-abandonment deposit over structure 6.	3610 ± 40	-27.10	2030-1890 BC	2140-1820 BC
Phantassie	SUERC-5624	<i>Corylus avellana</i> charcoal	305	Fill of pit 368.	4790 ± 40	-24.20	3650-3520 BC	3660-3380 BC
Phantassie	SUERC-5489	<i>Betula</i> charcoal	042	Fill of post-hole 121 in structure 14.	5230 ± 40	-25.50	4220-3970 BC	4230-3960 BC
South Belton	SUERC-8199	<i>Prunus spinosa</i> type charcoal	005	Secondary fill of pit 009, overlain by 004.	6085 ± 40	-25.10	750-410 BC	760-400 BC
South Belton	SUERC-8198	<i>Corylus avellana</i> charcoal	004	Upper fill of pit 009.	6085 ± 40	-25.70	5060-4930 BC	5210-4840 BC

