

ARCHAEOLOGICAL RESOURCE AUDIT DRAFT

**DRAFT ARCHAEOLOGICAL RESOURCE AUDIT FOR
CARMARTHENSHIRE, CEREDIGION AND PEMBROKESHIRE**

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ARCHAEOLOGICAL RESOURCE AUDIT
DRAFT

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ABOUT THIS REPORT

This is a **DRAFT** report on the archaeological research audit for Carmarthenshire, Pembrokeshire and Cardiganshire.

It is ordered in four parts.

Part 1 is a resource audit by period

It is broken down into the following periods:

Palaeolithic/Mesolithic
Prehistoric
Neolithic/ Early Bronze Age
Later Bronze Age/Iron Age
Roman British
Early Medieval
Medieval
Post Medieval

Each period contains several sections:

Distribution maps

at least one map showing archaeology broken down by broad class

a map showing palaeoenvironmental sites

a map showing finds from NMGW's database available through END

Table showing number of sites by broad class

Table showing number of sites by site type

Table of artefact data from NMGW's database available through END

List of key sites by type (except for the prehistoric)

Part 2 is a List of Radiocarbon Dates

1. List of dates from archaeological sites
2. List of dates from pollen sites

Part 3 is a list of palaeoenvironmental pollen and mollusc sites

Part 4 is a table of current archaeological research projects

Part 5 is a list of key references

Comments

This is a draft document and should be treated as such. It is anticipated that additional information will be fed back into it by the period working groups. In particular, the table listing current archaeological research projects requires additional data. Currently it is biased towards the authors' work organization and personal knowledge. There are several other weak areas in the audit that need strengthening:

The list of radiocarbon dates is not complete. It would be useful if members of the period working groups could supply missing data.

The audit is a little weak on artefacts. This is clearly the case for the Bronze Age. It is anticipated that members of the Neolithic/Bronze Age working group can rectify this.

The distribution maps and tables split at the Bronze Age/Iron Age interface, but the list of key sites (and the working groups) spit the Bronze Age, with the Early Bronze Age in grouped with the Neolithic and the middle and later Bronzes grouped with Iron Age.

The audit does not work as well for later periods as it does for earlier periods. This is partly because of the nature of the evidence, partly because less work has been done and partly because methods of different study techniques - there are more thematic and synthetic studies; these are difficult to integrate into the audit.

Further information can be required. For instance, the Neolithic/Bronze Age working group may find it useful to have a map just showing standing stones.

**RESOURCE AUDIT
BY
PERIOD**

PALAEOLITHIC /MESOLITHIC

NOTES ON THE PALAEOLITHIC/MESOLITHIC MAPS

Owing to the problem of scale, the group of cave sites on Caldey Island is depicted as just one symbol.

PALAEOLITHIC/MESOLITHIC - KEY SITES

Palaeolithic

Coygan Cave

Various excavations. Supported by radiocarbon dates. Environmental evidence: animal bone.

Aldhouse-Green *et al* 1995

Hoyle's Mouth, Tenby

Excavations in and around cave. Environmental evidence: animal bone.

Aldhouse-Green 1996; Savory 1973

Little Hoyle, Tenby

Excavations in and around a cave. Environmental evidence: animal bone. Radiocarbon dates.

Aldhouse-Green 1996

Nana's Cave, Caldey Island

Small-scale excavations. Environmental evidence: animal bone.

Lacaille and Grimes 1961; Van Nederveelde and Davies 1977

Ogof-y-Ychen

Excavations. Environmental evidence: animal bone. Radiocarbon date.

Lacaille and Grimes 1961

Potter's Cave, Caldey Island

Small-scale excavations

Lacaille and Grimes 1961; Van Nederveelde and Davies 1977

Priory Farm Cave

Cave excavation. Environmental evidence: animal bone. Recently reassessed by Barton and Price.

Barton and Price 1999

Small Ord Point, Caldey Island

Small-scale excavations

Davies 1977

Other key Palaeolithic texts: Green 1979; Green and Walker 1991; Lynch, Aldhouse-Green and Davies 2000

Mesolithic

Daylight Rock, Caldey Island

Excavations on open site. Environmental evidence: animal bone; molluscs Radiocarbon dates.

David 1989, 1990, 1991

Nab Head I

Excavations on open site. Environmental evidence: charcoal. Radiocarbon dates.

David 1989, 1990, 1991; Gordon -Williams 1926

Nab Head II

Excavations on open site. Environmental evidence: charcoal. Radiocarbon dates.

David 1989, 1990, 1991

Ogof-y-Ychen, Caldey Island

Excavations in cave. Environmental evidence: animal bone. Radiocarbon dates.

Potter's Cave, Caldey Island

Excavations in cave. Environmental evidence: animal bone. Radiocarbon dates.

Other key Mesolithic texts: Jacobi 1980; Lynch, Aldhouse-Green and Davies 2000

PREHISTORIC

NOTES ON THE PREHISTORIC MAPS

Most burnt mounds have been assigned to this general period, although excavated evidence suggests most are Bronze Age.

NEOLITHIC AND EARLY BRONZE AGE

NOTES ON THE NEOLITHIC MAPS

There is some overlap in monument type in this period and the BA – round barrows, stone circles, ring barrows etc.

NOTES ON THE BRONZE AGE MAPS

There is some overlap in monument type in this period and the Neolithic – round barrows, stone circles, ring barrows etc.

The only burnt mounds assigned to the BA are those with dating evidence (those excavated), the remainder are assigned to the general Prehistoric Period, although most are probably BA.

Site type platform were identified in upland surveys. These have not been tested by excavation and should more realistically put in the more general Prehistoric Period or later periods.

The place-name map shows clustering. This is due to detailed parish surveys having been carried out.

NEOLITHIC AND EARLY BRONZE AGE - KEY SITES

Neolithic/Bronze Age settlements

Clegyr Boia, St David's

Excavation of a small defended site. Structural evidence and artefacts. Environmental evidence: charcoal.

Baring Gould 1903; Williams 1952

Coygan Camp

Excavation of IA hillfort with evidence of earlier occupation. Artefacts. Environmental evidence: charcoal.

Wainwright 1967

Llanilar

Excavation of a potential Neolithic/Bronze Age settlement site. Environmental evidence: plant macrofossils.

Briggs 1997

Plas Gogerddan

Neolithic food deposit in excavation of later period site. Environmental evidence: plant macrofossils, charcoal.

Murphy 1992

Redberth

As yet unpublished excavation revealed stake-built structures supported by radiocarbon dates.

Page forthcoming

Stackpole Warren

Excavation of a house pre-dating standing stone, plus other excavated structures.

Radiocarbon dates.

Benson *et al* 1990

Chambered tombs/Neolithic burials

Carreg Samson chambered tomb

Excavation of tomb. Finds include a Neolithic bowl and flints.

Lynch 1975

Carreg Coetan chambered tomb, Newport

Unpublished excavation (Rees) of chambered tomb. Supported by radiocarbon dates.

Little Hoyle Cave

Neolithic pottery and radiocarbon date from human mandible.

Pentre Ifan chambered tomb

Excavation in and around tomb. Some artefactual evidence. Environmental evidence: charcoal

Other key Chambered tombs/burials texts: Lynch 1972, 1976

Burnt mounds**Carne burnt mound**

Excavation with radiocarbon dates of burnt mounds. Environmental evidence: plant macrofossils.
James 1986

Felin Fulbrook burnt mound

Excavation with radiocarbon date of a burnt mound. Environmental evidence: plant macrofossils.
Williams *et al* 1987

Morfa Mawr burnt mounds

Small-scale excavation of 4 mounds. Radiocarbon date of early medieval period.
Williams 1985a

Parry's Castle Farm burnt mound

Partial excavation of burnt mound with radiocarbon date and environment analyses.
Crane 2002

Plasgwyn Farm burnt mound

Partial excavation of burnt mound with radiocarbon date. Environmental evidence: charcoal.
Crane 2002

Troedrhiwgwinau burnt mound

Small-scale excavation on a burnt mound supported by radiocarbon dates. Environmental evidence: plant macrofossils; charcoal.
Caseldine and Murphy 1989

Other key burnt mound texts: Cantrill and Jones 1911

Round barrows/Bronze Age burials etc**Aber Camddwr I**

Excavation of a ring cairn. Environmental evidence: charcoal.
Hogg 1977

Aber Camddwr II

Excavation of a small cairn and associated standing stones. Environmental evidence: plant macrofossils. Supported by radiocarbon dates.
Hogg 1977; Marshall and Murphy 1991

Allt-y-Garn

Excavation of a large summit cairn with central burial.
Murphy 1995a

Croesmihangel round barrow

Salvage excavation on a barrow with several burials and urns. Environmental evidence: pollen.
Nye, Harrison and Savory 1983

Disgwlfawr round barrow

Small-scale excavations uncovered 2 ‘dug-outs’, a cremation and a Food Vessel. Supported by radiocarbon dates.
Green 1987

Ffynnon Newydd, Nantgaredig

Small-scale excavations on a henge monument.
Williams 1984

Great Pale

Excavation of a small cairn.
John and Williams 1994

Llanilar

Excavation of a Bronze Age burial site. Environmental evidence: plant macrofossils
Benson *et al* 1982, Briggs 1997

Pen-dre, Letterston barrow and embanked stone circle

Small-scale excavations
Savory 1963

Pen-y-Bont, St David's

Salvage excavation on a round barrow, unpublished

Parc Maen, Llangolman

Complete excavation of a cairn, associated standing stones and pits. Several urns. Environmental evidence: plant macrofossils; charcoal. Supported by radiocarbon dates.
Marshall and Murphy 1991

Pwll Mountain, Marros

Re-appraisal of antiquarian excavations of a ring cairn and barrow.
Ward 1977

South Hill, Talbenny

Partial excavation of barrow with Beaker burial.

Fox 1942

Other key Round barrows/Bronze Age burials/etc texts : Lynch 1979, 1980

Standing stones**Gors**

Excavation (unpublished) around a standing stone. Radiocarbon date of 3290 ± 70 bp from an associated pit.

Marshall 1985, Williams 1988

Mynydd Llangyndeyrn

Excavation of two separate standing stones, Radiocarbon date of 3090 ± 100 bp from an associated pit.

Ward 1983

Plas Gogerddan

Excavation around a standing stone with multi -period use. Environmental evidence: charcoal; soil studies.

Murphy 1992

Rhos-y-Clegyrn

Extensive excavations around a standing stone - indications of multi-period use.

Lewis 1974, 1976a

St Ishmaels

Excavation around at standing stone. Radiocarbon date of 3303 ± 70 bp from associated pit.

Williams 1989

Stackpole Warren

Extensive excavation around a standing stone, demonstrating multi -period use of site.

Environmental evidence: plant macrofossils; charcoal; molluscs

Benson *et al* 1990

Other key texts

Williams 1988

Other funerary and ritual sites

Glandy Cross

Excavation on a variety of sites supported by radiocarbon dates. Environmental evidence: plant macrofossils; animal bone; pollen; char coal.
Kirk and Williams 2000

Resources

Mining

Copa Hill, Cwmystwyth

Small-scale excavation on metal mine supported by radiocarbon dates. Environmental evidence: plant macrofossils; charcoal; wood.
Timberlake 1987, 1990a and b, 1995a, 1996a, 1998, Timber lake and Mighall 1992:
Timberlake and Switsur 1988

Llancynfelin

Small-scale excavation on metal mine supported by radiocarbon dates.
Timberlake 1992, 1995b, 1998

Nantyrarian

Small-scale excavation on metal mine supported by radiocarbon dates.
Timberlake 1995c, 1998

Tyn y fron

Small-scale excavation on metal mine supported by radiocarbon dates.
Timberlake 1996b, 1998

Pen cerrig y mwyn

Small-scale excavation on metal mine supported by a radiocarbon date indicate medieval/modern use.
Timberlake 1998, Timberlake and Craddock 1996

Stone axe production

Glandy Cross and Glyn y Fran, Preseli Hills

Surface collections associated with axe manufacture.
David and Williams 1995

Other key stone axe production texts: Clough and Cummins 1979, 1988; Darvill 1989; Shotton 1972

Other key Neolithic/Bronze Age texts: Briggs 1994; Leighton 1997; Lynch, Aldhouse-Green and Davies 2000; Savory 1980

LATE BRONZE AGE/IRON AGE

NOTES ON THE IRON AGE MAPS

There is no real distinction between the site types defended enclosure and hillfort listed under the broad class Defence and those listed under Domestic and/or Domestic/Defence.

LATE BRONZE AGE/IRON AGE – KEY SITES

Settlements - main sites

Caer Cadwgan

Partial excavation of a small hillfort. Artefacts include: Glass and amber beads, metalworking (crucibles, slag, mould), spindle whorl. Environmental evidence: plant macrofossils; pollen; soil studies; animal bone.

Austin, Bell, Burnham and Young 1987, 1984 -88; Davies 1994
(collection: University of Wales, Lampeter?)

Castell Henllys

Full excavation of a small hillfort and annexe. Important material culture assemblage: pottery, diagnostic metal artefacts (including iron involted and penannular brooches, flesh hook, spearheads, knives, sickle, bronze tankard handle), metalworking, amber bead. Environmental evidence: plant macrofossils; animal bone; charcoal.

Mytum 1985, 1986a, 1989, 1991, 1996, 1999, unpublished
(collection: NMGW 2000.45H; University of York)

Coygan Camp

Partial excavation of a small hillfort. Large and important material culture assemblage (IA & RB): pottery, diagnostic metal artefacts (including a pair of La Tene bracelets (350-250BC) possibly associated with a burial, a La Tene decorated perforated pendant and large ironwork assemblage), bone and antler artefacts, glass beads. Environmental evidence: animal bone.

Wainwright 1967; Savory 1976b; Guido 1978; Williams 1978
(collection: NMGW 67.514)

Llawhaden group of small defended enclosures

Complete excavation of Woodside Camp, Dan-y-Coed Enclosure and Drim Camp and the partial excavation of Broadway Enclosure, Holgan Camp, Pilcornswell Camp and Bodringallt Enclosure. Artefacts include: pottery (LIA & RB), glass bead (Guido Group 6), decorated spindle whorls, and a Bronze Age trunnion tool redeposited in ramparts at Broadway. Environmental evidence: plant macrofossils; charcoal; soil studies.

Williams and Mytum 1998
(collection: Scoulton Manor)

Penycoed

Complete excavation of a small defended enclosure/farmstead. Finds include: pottery, beehive querns, glass beads (Guido Class 3 & 8 LIA/ERB). Radiocarbon dates. Environmental evidence: plant macrofossils; insects.

Murphy 1985
(collection: Carmarthen Museum)

Porth y Rhaw

Partial excavation of a coastal promontory fort. Finds include: Late Bronze Age socketed axe fragment, metalworking (crucible), iron brooch pins, glass and amber beads, charred plant remains. Environmental evidence: plant macrofossils; pollen.

Crane forthcoming; Murphy 2002
(collection: Cambria Archaeology)

Walesland Rath

Complete excavation of a defended enclosure. Finds include: Pottery, metalworking (crucibles), glass beads, wooden artefacts. Environmental evidence: charcoal; wood; soil studies.

Wainwright 1971b; Savory 1976b; Guido 1978
(collection: NMGW 71.33H)

*Settlements – secondary sites***Berry Hill**

Small-scale excavation of a defended enclosure.
Mytum and Webster 1993

Brawdy Hill Fort

Partial excavation of a small inland promontory fort. Finds include: Pottery, metalworking (slag), metal artefacts.

Dark 1987, 1988, 1990

Bryn Maen Caerau

Partial excavation of a defended enclosure. Radiocarbon dates. Environmental evidence: plant macrofossils.

Williams forthcoming

Caer, Bayvil

Excavation of a small enclosure, reused in Early Medieval Period for burials.
James 1987

Castell Cogan

Small-scale excavation of a small bivallete hillfort. Finds include: Pottery (IA), iron spearhead (IA/RB).

Grealey, Jones and Little 1972; Williams 1978

Clawdd-y –Milwyr (St David's Head)

Nineteenth century partial excavation of a coastal promontory fort. Finds include glass beads and decorated spindle whorls.

Baring Gould 1899; Guido 1978; Figgis 1999
(collection: Tenby Museum)

Cwmbwyn

Partial excavation of this enclosure revealed a RB rectangular stone building. Finds include: Pottery (RB), quern (IA/RB), metal artefacts (RB), spindle whorls (IA/RB). Ward 1907; Williams 1978 (collection: NMGW 63.373)

Dale Promontory Fort

Extensive (unpublished) research excavation, followed by salvage recording. LBA amongst finds. Benson and Williams 1987; Grimes unpublished

Great Castle Head

Small-scale excavation of a coastal promontory fort. Environmental evidence: plant macrofossils; charcoal. Crane 1999

Henllan, Ceredigion

Medium area excavation of the defences and interior of this inland multivallate promontory fort. Finds include an amber bead. Environmental evidence: charcoal. Williams 1944-5; Savory 1976 (collection: NMGW 53.267)

Henllys Top Field

Small-scale excavations of a defended enclosure. Finds include: loom weight, spindle whorl, shale bracelet. Mytum and Webster 1986

Knock Rath

Excavation of a defended enclosure. Environmental evidence: pollen. Crossley 1965, 1979

Llangynog II

Extensive excavation of a small, rectilinear defended enclosure. Avent 1973, 1975

Llansteffan Castle

Section across defences. Guilbert and Schweiso 1972, Guilbert 1974

Merlin's Hill

Small-scale excavations supported by radiocarbon dates. Williams, Darke, Parry and Isaac 1988

Merryborough Camp

Small-scale excavation of a defended enclosure. Environmental evidence: pollen. Crossley 1964

Moel Trigarn

Early excavations of the interior of this multivallate hillfort at or before 1900.

Pottery (IA), iron bridle bit (?), glass beads, jet ring, decorated spindle whorls, shale armlets.

Baring Gould et al 1900; Guido 1978; Figgis 1999

(collection: Tenby Museum)

Parc Cynog, Carmathenshire

Small-scale excavations on an inland promontory fort.

de Quincey 1969

Pembrey Mountain

Partial excavation of a small defended enclosure, and survey of associated remains. Finds include: pottery (IA & RB). Environmental evidence: plant macrofossils.

Williams 1981; Figgis 1999

(collection: Carmarthen Museum 86.09)

Pen Dinas, Aberystwyth

Small-scale excavations on a large hillfort. Finds include pottery (inc. stamped

Malvernian vessel), glass bead (Meare type – Guido Class 10).

Browne and Driver 2001; Davies 1994; Driver 1998; Forde et al 1963; Guido 1978;

Peacock 1968; Savory 1976b

(collection: NMGW 47.164/194 -vessel; lost (rest of assemblage))

Pendinas Lochtyn

Small-scale excavation within a small coastal hillfort.

Scott and Murphy 1992

Strawberry Hill, Little Haven

Partial excavation in 1950s-60s (unpublished) by W F Grimes. Records in NMR.

Tower Point

Small-scale excavation of a coastal promontory fort.

Wainwright 1971a

Trelissey

Small-scale excavation of a defended enclosure.

Thomas and Walker 1959

Woodbarn Rath

Partial excavation of a defended enclosure

Vyner 1982, 1986

Possible Bronze Age burials

Cwrt, Llanfynydd

Possible burial with gold torc in urn. A penannular gold armlet 'with two balls at the ends' was apparently found in an urn under a big stone in 1876. Not certainly of Bronze Age date (possibly Ewart Park).

Wheeler 1924; Fox & Bowen 1935; Burgess 1976
(collection: lost)

Drawsdre Isaf Farm, Llanarthney

Cremation with looped socketed spearhead (Acton Park to Ewart Park). A quantity of ashes and bones were found in a limestone cave in a field called Cae -dan-y-cwarran in 1797. Textile remains included in the deposit and the spearhead was found at the bottom of the ashes.

Anon. 1893; R.C.A.H.M.W. 1917b; Fox & Bowen 1935; Burgess 1976
(collection: Carmarthen Museum No. 312)

Stackpole

Inhumation with Ewart Park Type sword. Found digging out a fox in a marsh near Stackpole in 1800. The bones of a human foot were also found, suggesting a disturbed inhumation.

Barnwell 1876; Burgess 1976; Bruck 1995
(collection: Tenby Museum - sword)

Iron Age Burials

Castle Bucket

Cremations in pits outside defended enclosure, radiocarbon date of 2340±60 bp.
Williams 1985b

Drim Camp

Cist containing a cremation outside defended enclosure.
Williams and Mytum 1998

Plas Gogerddan

Excavation of multi-period site with Iron Age inhumations and cremations, including two La Tene III brooches, accompanying crouched inhumation burial, and further possible La Tene III brooch accompanying another crouched inhumation.

Davies 1994; Murphy 1992; Savory 1992
(collection: Ceredigion Museum 1998.40.3)

Stackpole Warren

Excavation around a standing stone revealed a crouched inhumation and 3 child inhumations.

Benson *et al* 1990

Field systems

Mynydd Llangyndeyrn

Survey of possible prehistoric field systems on small area of moorland.
Ward 1989

Skomer Island

Survey of field systems and related monuments.
Evans 1990; Grimes 1951

Stackpole Warren

Excavation and survey of field system and associated sites. Radiocarbon dates.
Benson *et al* 1990

St David's Head

Survey of field systems and related monuments.
Murphy 2001

Middle and Late Bronze Age Hoards

Acton Park (1600-1400BC cal)

None

Cemmaes (Taunton) (1400-1275BC cal)

Capel Isaf, Manordeilo, Carmarthenshire (SN 659 252)

Found in 1975 under the end of a glacial erratic boulder during construction of a sewer trench. Comprises four gold armlets of sheet form and the terminal of a ribbon torc.
Benson 1975; Savory 1976a; 1977; 1980; Northover 1993; in prep; Eogan 1994
(collection: NMGW 76.7H/1-5)

Cemmaes / Penard (1400-1140BC cal)

Priory Farm Cave, Monkton (SM 979 017)

Found in Priory Farm Cave, early excavation during 1906-07. Comprises Transitional palstave, chisel, saw and twisted bracelet. Human remains may be associated.
Laws 1908; RCAHMW 1925; Grimes 1933; Savory 1958; 1980; Northover in prep
(collection: NMGW 09.18/1-3b)

Penard (1275-1140BC cal)

Tiers Cross, Milford Haven (SM 87/8 10)

Metal detector find in 1991. Some complication over precise provenance. Three gold torcs (1 flange twisted, 2 coiled wire).
Aldhouse-Green & Northover 1994; Northover in prep
(collection: NMGW 93.77H)

Wilburton (1140-1020 BC cal)

None

Ewart Park (& Blackmoor) (1020-800BC cal)

Allt Gelli Felen, Myddfai (SN 7632 2864)

Discovered during agricultural work, additional artefacts later discovered by metal detecting over the locality, all during the early 1980s. Comprises nine socketed axes (5 South Welsh type, 1 South Welsh variant, 1 ribbed, 1 Type A / Type Wallingford plain, 1 unseen).

Briggs & Benson 1986; Briggs et al 1987; Briggs & Williams 1995; Northover in prep (collection: Carmarthen Museum)

Freshwater West, Castlemartin (SR 88 99)

Metal detector find circa 1991 on the beach at Freshwater West. Comprises two South Wales Type socketed axes, one plain socketed axe, one Ewart Park sword fragment, one Carp's Tongue sword fragment, twenty three copper ingot fragments.

DAT 1991; Northover in prep
(collection: private possession)

Kidwelly (SS 409 070)

Found near Kidwelly Castle. Comprises a Late palstave and an unclassified socketed axe. Anon. 1856; Evans 1881; RCAHMW 1917; Fox & Bowen 1935; Northover in prep (collection: lost)

Pant-y-Maen, Clydai, Pembrokeshire (SN 257 326)

Found probably circa 1859 during peat cutting on west bank of Afon Pedran. Comprises swords (8 frags from Ewart Park type), spearheads (15 fragments – all diagnostic fragments from plain pegged types), chape (diminutive, tongue type), ferrules (5 of which 2 tubular and 3 with expanded foot), rings (3 now lost). Possibly another three spearheads and a sword fragment.

Jones 1861; Barnwell 1864; Evans 1881; Wheeler 1922; Sansbury 1930; Bowen 1936; Griffiths 1957; Burgess et al 1972; Colquhoun & Burgess 1988; Northover in prep. (collection: Carmarthen Museum; University of Wales, Lampeter; lost)

Llyn Fawr (800-700BC cal)

None

Uncertain date

Castle Hill, Aberystwyth (SN 579 816)

'Five bronze celts, and ancient glass bead and other antiquities' donated to the University College Museum, Aberystwyth. It is not clear whether the celts were associated.

Sansbury 1930; Northover in prep
(collection: lost)

Gilfach-goch, Llanwnda (SM 909 390)

From a cromlech. Comprises 'two spearheads laid across each other and a knob of metal suspected to have been gold'.

Fenton 1811; Barnwell 1872; Northover in prep
(collection: lost)

Tregaron (SN 68 60)

Possible hoard – though doubtful. Found circa 1850 in a peat bog. Comprised 'two celts, all bronze, and a framea or light javelin'. The association of the celts with the spearhead is not certain. It has been suggested that the objects making up the hoard are a Group I palstave, an Irish unlooped palstave and a side looped spearhead.

Anon. 1850; Evans 1937; Briggs 1994; Northover in prep.
(collection: lost)

Nevern (SN)

Possible hoard ? Unlooped single rib palstave and socketed spearhead with peg hole. The palstave might be attributed to the Acton Park phase, whereas the spearhead is likely to belong to the Penard phase or later, throwing some doubt upon their association as a hoard.

Savory 1946-7

Iron Age significant artefacts other than those from excavations

Castell Nadolig (SN 298 503)

Found circa 1829 during agricultural removal of stone heap within a hillfort. Pair of bronze spoons, decorated with La Tene scroll decoration (2nd BC-1st AD). Possibly associated with a burial.

Way 1869; Craw 1923-4; Fox 1958; Savory 1976b; Wait 1985; Murphy 1992; Davies 1994; Jope 2000.

(collection: Ashmolean Museum; NMGW replicas 22.326/2 -3)

Pen-coed-foel, Gellifaharan Farm, Llandysul (SN 425 427)

Found circa 1895 during ploughing within a small hillfort. Bronze half-collar decorated with La Tene Stage 5 scroll decoration.

Barker 1896; Fox 1958; Savory 1976b; Macgregor 1976; Davies 1994

(collection: Bristol Museum; NMGW replica 37.226)

Penbryn

Gold Corieltavian Stater (Mack 50) found before 1722. Dated to 70 -55BC.

Gibson 1722; Evans 1890; Allen 1960; Boon 1988; Davies 1994

Llanwnda, Fishguard

Found in 1826, when removing a cairn in advance of road construction. Mirror handle with possible helmet fragment. 1st century AD. Possible burial association.

Anon 1879; Boon 1980; Murphy 1992
(collection: lost)

Priory Street, Carmarthen

Silver trumpet brooch (LIA/ERB) with relief decoration and parcel gilt. Found by workmen in Priory Street, Carmarthen.
Boon & Savory 1975
(collection: Carmarthen Museum)

Priory Street, Carmarthen

Excavations in Moridunum between 1978 and 1990. Curved vessel mount or escutcheon decorated with the La Tene Stage 5 style and enamelled. Discovered in a third century AD context, but made during the first century AD. Also a blue enamelled saucepan handle with devolved La Tene motif, probably Romano-British.
James 1992
(collection: Carmarthen Museum)

Castlemartin Burrows

Found 'above an accumulation of clayey surface soil'. Glass bead necklace discovered at or before 1927, and scattered within an area of 30cm diameter. Made up of 29 blue annular beads (Guido Group 6(iva)), now dated as Iron Age or Romano-British date.
Mathias 1927
(collection: NMGW 29.370/1)

Llandovery

Found by the Rev Thomas Lawrence, in the Roman fort at Llandovery during the early nineteenth century. Silver coin of Cunobelinus (possibly Mack No. 227). Probably brought and used by the pre-Flavian Roman garrison rather than an Iron Age community.
Rees 1873; Boon 1988

Borth, Ceredigion

Alexandrian coin of Augustus. Possible evidence of pre-Roman trading relations.
Milne 1948
(collection: lost)

'Celtic Heads' (IA/RB)

Llandysul	(collection: Carmarthen Museum)
Carmarthen (2)	(collection: Carmarthen Museum)
Laugharne	(collection: Carmarthen Museum 76.3531)
Llangynog	(collection: Carmarthen Museum 88.73)
Fishguard	(collection: Scolton Manor)
Llanycrwys	(collection: private possession)
Llanfarian	(collection: private possession)

Ross 1967; Megaw 1967; Savory 1973; Williams & Delaney 1982; Brewer 1986; Figgis 1999

Middle and Late Bronze Age significant single finds

Whitesands Bay, Pembrokeshire (SM 731 266)

Small gold nugget of possible Late Bronze Age date. Metal detector find.

Green & Northover 1996

(collection: NMGW)

Llandysul (SN 42 41)

British Type penannular gold bracelet with solid body of rounded/square cross-section and elongated evenly expanded solid terminals. Late Bronze Age.

Wheeler 1925a; Bowen 1936; Briggs 1994; Eogan 1994

(collection: British Museum M W.G. 9)

Glan-rhos Farm, Llanychaiarn (SN 575 745)

Found in 1804 in a peat bog. Late Bronze Age circular shield of Yetholm Type.

Meyrick 1831; Sansbury 1930; Bowen 1936; Brailsford 1953; Coles 1962; Savory 1980; Briggs 1994

(collection: British Museum)

Llanfair Clydogau (SN 67 51)

Found in 1886 in the Nant Clywedog-ganol valley. Dirk of Middle Bronze Age date.

Davey 1891; Sansbury 1930; Bowen 1936; Savory 1980; Burgess & Gerloff 1981; Briggs 1994

(collection: NMGW 09.130)

Cynwyl Elfed

Said to have been found during ploughing. Found prior to 1913. Sword of Ewart Park Type.

R.C.A.H.M.W. 1925b; Wheeler 1925b; Fox & Bowen 1935; Savory 1980;

(collection: Private possession - NMGW (replica) 23.414)

Llanrian (SM 825 328)

Found on the seabed in 10m depth of water off Llanrian. Rapier in two pieces – Middle Bronze Age date.

unpublished

(collection: NMGW 88.121H)

Newgale Sands (SM 84 21)

Metal detector discovery during 1999-2000 – beach find. Dirk (Group II) belonging to the Acton Park or Taunton phases of the Middle Bronze Age.

Macdonald 2000

(collection: private possession)

Iron Age pottery groups

Giltar Point, Penall. (SS 125 983)	(collection: NMGW 30.185)
Grassholm Island (SM 599 092)	(collection: NMGW 91.75A/1-3)
Nanna's Cave Caldey Island (SS 146 969)	(collection: NMGW 63.335/68)
Potters Cave, Caldey Island (SS 142 971)	(collection: NMGW63.337/9-18)
All Savory 1976	
The Hoyle's Mouth, Tenby (SS 112 003)	(collection: Tenby Museum)
Savory 1973; Figgis 1999	
Darren Hillfort (SN 678 830)	(collection: Ceredigion Museum)
Driver 1996	

Other key IA pottery texts: Spencer 1983

Other key Iron Age/Late Bronze Age texts

Davies and Hogg 1994; Lynch, Aldhouse-Green and Davies 2000; Savory 1976, 1980

Iron Age quernstones key texts: *Briggs 1986a&b*

ROMANO-BRITISH

NOTES ON THE ROMANO-BRITISH MAPS

There may be a real distinction between type Defended Enclosure in broad class Defence and type Hillfort Occupation and other types in Domestic. The former perhaps being RB founded sites, the latter reuse of IA sites.

ROMANO-BRITISH - KEY SITES

Forts

Capel Bangor

Excavations in fort.
Davies 1986b

Carmarthen

Excavations in fort.
James 1992, forthcoming

Pumsaint

Excavations in and around the fort. Environmental evidence: plant macrofossils; charcoal; soil studies.
Burnham and Burnham 1986, 1990a, 1990b, 1997; Jones and Little 1973, 1974

Llandovery

Excavations in fort.
Jarrett 1962, 1963, 1970

Trawscoed

Excavation in the fort.
Davies 1984, 1985, 1986a, 1987, 1988

Towns

Carmarthen

Extensive excavations in the Roman town. Large assemblage of artefacts. Environmental evidence: charcoal.
James 1978, 1992a; 2000, forthcoming; Jones 1969, 1970

Carmarthen Amphitheatre

Excavations
Little 1971

Rural settlement

Castle Flemish

Small scale excavations in a rectilinear enclosure.
Wheeler 1923

Castell Henllys

Full excavation of a small hillfort., with RB occupation in annexe.

Mytum 1989, 1991, 1996

Coygan Camp

Excavations in small hillfort with Roman occupation
Wainwright 1967

Cwmbrwyn

Excavation of small defended enclosure with Roman rectangular stone building.
Ward 1907

Gateholm Island, Pembrokeshire

Small-scale excavation and survey indicate Roman occupation
Davies, Hague and Hogg 1971; Lethbridge and David 1930

Llawhaden group of small defended enclosures

Romano-British occupation at Dan-y-Coed, Woodside and Drim
Williams and Mytum 1998

Llys Brychan

Excavations on a Roman villa
Jarrett 1961

Penycoed

Complete excavation of a small defended enclosure/farmstead with RB occupation.
Murphy 1985

Porth y Rhaw

Partial excavation of a coastal promontory fort with RB occupation
Crane forthcoming

Trelissey

Small-scale excavation of a defended enclosure. with RB stone -built rectangular building.
Thomas and Walker 1959

Walesland Rath

Complete excavation of a defended enclosure with RB occupation.
Wainwright 1971b

Resources

Dolaucothi Gold Mine

Austin and Burnham 1984; Burnham 1990, 1997; Burnham and Burnham 1987; Boon
and Williams 1966

Survey and small-excavation of Anell leat and the Gwenlais leat

Environmental evidence: pollen. Radiocarbon dates.

Bick 1995; Burnham and Burnham 1993; Burnham, Burnham and Walker 1992; Jones, Blakey and MacPherson 1960; Jones and Maude 1990

Roads**Roman road in the Tywi valley**

Report on aerial survey.

James and James 1984; James 1991

Road west of Carmarthen

Survey, aerial photo survey and excavation at Whitland and Bryn Farm, supported by radiocarbon dates. Environmental evidence: plant macrofossils; pollen; wood; dendrochronology; insects.

James Murphy and Page 2002

Burials**Allt-y Cnap, Johnston, Carmarthen**

Recently discovered in-urned cremation with grave goods – not yet published.

Park Hall, Carmarthen

In-urned cremation, plus other possible burials.

Crane 2001

Penbryn, Ceredigion

2 burials, including in-urned cremation

Davies 1994

Other key Romano-British texts

Davies 1994; Arnold and Davies 2000

EARLY MEDIEVAL

EARLY MEDIEVAL – KEY SITES

Burials/churches

Caer, Bayvil

Numerous cist and dug graves excavated in a small Iron Age defended enclosure.
Supported by radiocarbon date.
James 1987

Llanychlwydog Church

Radiocarbon date from a cist grave. Other burials present.
Murphy 1987

St Brides

Radiocarbon dates obtained from eroding cist and over graves.
Murphy 1986

Llandysilio Church

Study of the church and parish, 500-1543
James 1997

Other burials/churches key texts: Edwards and Lane 1992; James T 1992; James H 1992b

Early Christian Monuments

Key texts: Dark 1992; Edwards forthcoming; Lewis 1976b; Nash -Williams 1950; Thomas 1994

Settlements

Carew Castle

Excavation and survey at a medieval castle with evidence of early medieval occupation.
Austin 1993, 1995a, 1995b; Campbell 1990

Coygan Camp

Excavations in small hillfort with evidence of early medieval use.
Wainwright 1967

Gateholm Island, Pembrokeshire

Small-scale excavation and survey suggests early medieval occupation
Davies, Hague and Hogg 1971; Lethbridge and David 1930

Longbury Bank

Excavations, little structural evidence, but artefacts supported by radiocarbon dates.

Environmental evidence: plant macrofossils; animal bone; molluscs.

Campbell and Lane 1993

Llawhaden Group of defended enclosures

Williams and Mytum 1998

Other key settlement texts: Arnold and Davies 2000; Edwards and Lane 1988

MEDIEVAL

NOTES ON THE MEDIEVAL MAPS

The Domestic and Civil sites map includes place-name evidence, which probably accounts for the clustering.

The Religious sites map includes holy wells and granges.

MEDIEVAL – KEY SITES

Castles/Defences

Cardigan Castle

Survey and excavation within the castle.
Murphy and O'Mahoney 1985

Carew Castle

Excavation and survey.
Austin 1993, 1995a, 1995b

Dryslwyn Castle

Partial excavation of castle. Environmental evidence: plant macrofossils; animal bone; molluscs; insects.
Capel 1990; Capel and Jessop 1996; Webster 1981, 1982; Webster and Caple 1983

Laugharne Castle

Extensive excavations within the castle. Environmental evidence: plant macrofossils; animal bone.
Avent 1978, 1979, 1988, 1992, 1993

Newcastle Emlyn

Survey and excavation.
Parry 1987

Pembroke town walls

Survey of the medieval town walls.
King and Cheshire 1982

Tenby town walls

Survey of the medieval town walls of Tenby.
Thomas 1993

Monastic sites

Haverfordwest Priory

Large-scale excavation of the priory. Not yet fully published. Environmental evidence: animal bone; molluscs.
Rees 1987

St. John's and St. Teulyddog's Priory, Carmarthen

Excavations supported by finds reports and bone analysis.
James T, 1985

Greyfriars, Carmarthen

Extensive excavations, supported by finds reports, environmental analyses and scientific dates.

James 1997

Churches/chapels**Capel Teilo, Kidwelly**

Account of small-scale excavations.

Jones 1991

Llanychlwydog Church

Excavation in and around a medieval church.

Murphy 1987

Other key churches/chapels texts: Ludlow 2000a - d

Towns**Newport, Pembrokeshire**

Excavations in a deserted part of the medieval town, supported by pottery analysis.

Environmental evidence: plant macrofossils.

Murphy 1994a

Pembroke

Small-scale excavations within the medieval town.

Lawler 1998

St Clears

Small-scale excavations on line of defences. Radiocarbon dates. Environmental evidence: pollen.

Murphy 1997

Wiston, Pembrokeshire

Excavation and survey in a deserted medieval town, supported by pottery analysis, environmental analysis and a radiocarbon date..

Murphy 1995b

Other town key texts: Soulsby 1983

Architecture/standing buildings

The King's Court, Talley

Structural analysis of a late medieval monastic hall house.

Roberts and Suggett 1999

Penallt, Kidwelly

Structural analysis of a medieval house.

Davis 1989

St Davids Bishop's Palace

Survey and structural analysis of the palace.

Turner 2000

Other key architecture/standing building texts: Smith 1988, 1994

Field systems

Marros Mountain, Carmarthenshire

Survey of a relict strip field system.

Murphy 1988

Other field system texts

Davies 1973

Resources

Bryn Cysegrfan, Llanfair Clydogau

Excavation and survey of pillow mounds and associated structures. Supported by radiocarbon dates. Environmental evidence: pollen; soil studies.

Austin 1988

Pottery Studies

Most pottery studies are contained within reports on excavations cited above – Cardigan Castle, Greyfriars Carmarthen, Newport and Wiston. A key text is Papazian and Campbell 1992. See also Brennan and Murphy 1993-4.

POST MEDIEVAL

NOTES ON THE POST MEDIEVAL MAPS

There are too many sites and too many site types to show easily on maps. Distributions tend to show where work has been carried out, rather than real site distributions.

Maps of specific site types can be produced to order.

Maritime sites includes such types as boathouse, hence the inland symbols.

Gardens and Parks maps includes common land.

POST MEDIEVAL – KEY SITES

Parks and Gardens

Aberglasney

Extensive excavations and survey of the gardens and house. Environmental evidence: animal bone; wood; dendrochronology.

Blockley forthcoming, Briggs 1999

Hafod

Various surveys and excavations, including excavation of cold bath.

Kerkham and Briggs 1991; Murphy 1999, Murphy forthcoming

Middleton Hall

Extensive excavations on the gardens at Middleton Hall. Environmental evidence: pollen.

Blockley forthcoming

Deserted settlements

Tro'r Derlwyn

Excavation of a deserted settlement on the Black Mountain, supported by radiocarbon date. Environmental evidence: plant macrofossils; pollen; soil studies.

Benson and Crane 1998

Nant Garw Valley

Survey/analysis of deserted settlements on part of Black Mountain

Ward 1995

Other key deserted settlement texts: Leighton 1997; Muckle and Williams 1992; Vaughan 1966; Ward 1991

Landscape Studies

Mynydd y Ffynnon upland survey

Survey of a tract of upland in north Ceredigion. Prehistoric and medieval sites recorded as well as post medieval.

Sambrook, and Sambrook and Hankinson 1997 – 2001

Civil War defences to 19th century defences

Carmarthen

Account of small-scale excavations on Carmarthen's Civil War defences.

James 1991

20th century defences

Rhos Llangeler Command Stop Line

Description of WW2 defences on Rhos Llangeler, and Pembrey and Burry Port.

Glover 1990

Standing buildings

Scotsborough House, Pembrokeshire

Survey of a ruined medieval and later mansion.

Davis 1990

Llettyrychen, Carmarthenshire

Structure analysis of an early modern house.

Davies 1998

Tudor Merchant's House, Tenby

Environmental analyses of a cesspit fill, plus pottery analysis. Environmental evidence: plant macrofossils; fish bone; pollen; molluscs; insects.

Murphy *et al* 1989

Other key standing building texts : Smith 1988, 1994

Resources

Morfa Bacas fish traps, River Loughor

Survey with radiocarbon dates.

Page 1997

Industrial

Charcoal-fuelled iron furnaces

Survey and historical background to the early post-med iron industries of southwest Wales.

Page and Wilson 2002

Cwmystwth metal mine

Historic account and analysis of remains at a major Ceredigion lead mine.

Hughes 1981

Dyfi Furnace

Excavation and survey on a charcoal fired iron furnace.

Dinn 1988

Frongoch metal mine

Historic account and analysis of remains at a major Ceredigion lead mine.

Bick 1986

Goginan metal mine

Historic account and analysis of remains at a major Ceredigion lead mine.

Hughes 1988

Kidwelly Tin Plate Works

Account of excavations and historical background.

Ludlow 1991

Limekilns/quarry of southeast Carmarthenshire

Survey of all sites and excavation of three kilns.

Murphy 1994b; Sambrook 1995; Manning 2000

Other industrial key texts: Bick 1974, 1983, 1988; Lewis 1988; Palmer 1988; Prichard 1985

Pottery Studies

Few studies are devoted to Post Medieval Pottery. But see Murphy and O'Mahoney 1985 and Brennan *et al* 1993-4.

LIST OF RADIOCARBON DATES

LIST OF RADIOCARBON DATES

1. LIST OF DATES FROM ARCHAEOLOGICAL SITES

Pal = Palaeolithic: Meso = Mesolithic: Neo = Neolithic: BA = Bronze Age: IA = Iron Age: RB = Romano - British: EM = Early Medieval: Med = Medieval: PM = Post Medieval: Modern

Site Lab. No.	Uncalibrated Date	Context	Period of Date
Aber Camdwr II			
CAR-997	3210±70 bp	Fill of pit beneath annexe to cairn	BA
CAR-995	2980±70 bp	Pit beneath standing stone	BA
CAR-996	2900±70 bp	Fill of pit external to cairn	BA
Brawdy Hillfort			
	2430±50 bp	Charcoal from iron-working hearths	IA
	2390±60 bp	Charcoal from iron-working hearths	IA
Bryn Cysegrfan, Llanfair Clydogau			
CAR-317	575±60 bp	Vegetation below pillow mound	Med
Bryn Maen Caerau			
CAR-1071	4820±70 bp	From feature pre-dating pre-enclosure soil	Neo - BA
CAR-1497A	3540±70 bp	Fill of pit 200	BA
CAR-1497B	3440±70 bp	Fill of pit 200	BA
CAR-1229	3180±70 bp	Pre-rampart occupation	BA
CAR-1070	2520±70 bp	Pre-rampart occupation	BA - IA
Caer Cadwgan			
CAR-969	2580±70 bp	Charcoal spread from burnt defensive gate	BA - IA
CAR-968	2360±70 bp	Charcoal spread from burnt defensive gate	IA
Caer, Bayvil			
CAR-291	1290±60 bp	From cist grave cutting Iron Age defences	EM
Carew Castle			
	1680±70 bp	Primary silt of 1 st phase defensive ditch	RB - EM
	1250±70 bp	Lower deposits of 2 nd phase defensive ditch	EM
Carmarthen – Roman town and fort			
CAR-290	1770±65 bp	Branches laid down in 1 st phase town defence ditch	RB
Carne burnt mounds			
CAR-589	3960±65 bp	From lower layer of pit associated with mound B	BA
CAR-591	3710±65 bp	From base of pit below burnt mound B	BA
CAR-292	3790±70 bp	Upper fill of pit sealed by burnt mound A	BA

CAR-496	3400±70 bp	From make-up of mound B	BA
CAR-498	3205±70 bp	From make-up of mound B	BA
CAR-497	80±90 bp	Disturbed layer associated with mound B	Modern

Carreg Coetan chambered tomb, Newport

CAR-392	4830±80 bp	Charcoal sealed by stone kerb	Neo
CAR-394	4700±80 bp	Charcoal from socket hole of chamber	Neo
CAR-391	4560±80 bp	Old ground surface sealed by mound	Neo
CAR-393	4470±80 bp	Charcoal from within mound	Neo

Castle Bucket

CAR-588	2340±60 bp	Charcoal associated with cremation	IA
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Clegyr Boia

BM-1109	2370±29 bp	Charcoal from Neolithic occupation – IA date	IA
BM-1110	1950±116 bp	Charcoal contemp with structure near fort entrance	IA - RB

Coygan Camp

NPL-132	5000±95 bp	Partly charred nutshells in pit	Neo
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Coygan Cave

BM-499	38684±2713 bp	Reindeer antler sealed below calcrete layer in cave	Pal
GrN-4400	33200±310 bp	Calcrete from top 3cm of Lower Calcrete layer	Pal
OxA-2509	24620±320 bp	Radius of woolly rhinoceros	Pal
GrN-4423	5820±65 bp	Bottom 2 cm of Upper Calcrete layer	Meso
GrN-4399	3000±35 bp	Upper Calcrete layer in cave	BA

Copa Hill, Cwmystwyth

BM-2908	3690±90 bp	<i>In-situ</i> wooden launder	BA
BM-2732	3500±50 bp	Mine spoil (in mine)	BA
BM-2812	3460±50 bp	<i>In-situ</i> fireset in mine	BA
OxA-6684	3405±70 bp	Antler hammer in mine	BA
Q-3076	3220±70 bp	Buried mine spoil (surface)	BA
Q-3078	3210±50 bp	Buried mine spoil (surface)	BA
Q-3077	2990±190 bp	buried mine spoil (surface)	BA
BM-2733	3070±50 bp	Buried turf in infill	BA
BM-2759	2850±80 bp	Infill in mine gallery	BA
BM-2780	950±50 bp	Buried turf in infill	EM - Med
BM-830	830±140 bp	Wood in backfilled shaft	EM - Med
BM-2828	40±30 bp	Timber in backfilled shaft	Modern

Dale Promontory Fort

CAR-1036	2760±60 bp	Occupation deposit sealing early defences	BA
CAR-1035	2740±70 bp	Occupation deposit sealing early defences	BA
CAR-1034	2730±70 bp	Occupation deposit sealing early defences	BA

Daylight Rock, Caldey Island

OxA-2245	9040±90 bp	Hazel nutshell fragments from fissure with lithics	Meso
OxA-2246	9030±80 bp	Hazel nutshell fragments from fissure with lithics	Meso
OxA-2247	8850±80 bp	Hazel nutshell fragments from fissure with lithics	Meso

Disgwylfa Fawr round barrow

HAR-2187	3860±70 bp	Large primary 'dug-out' in barrow	BA
HAR-2677	3300±80 bp	Small secondary 'dug-out' in barrow	BA

Dolaucothi Gold Mine

HAR-2709	2040±70 bp	From below ground water-wheel	IA - RB
SWAN-37	1890±60 bp	Built-up edge of base of 'motte'	RB
SWAN-38	2630±70 bp	Hollow close to 'motte'	BA - IA

Dolaucothi, Annell Leat

GRN-16553	1175±15 bp	Peat filling leat	EM
GRN-16720	1085±20 bp	Alkali extract from peat filling leat	EM

Felin Fulbrook burnt mound

CAR-469	3875±70 bp	Charcoal within burnt mound	BA
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Freshwater West

Q-530	5960±120 bp	Foreshore peat with associated lithics	Meso
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Glandy Cross Complex*Pantymenyn linear enclosure and pit circle*

CAR-1462	3540±70 bp	Charcoal from lower fill of central hearth	BA
CAR-1496	3530±70 bp	Charcoal from lower fill of pit	BA
CAR-1492	3450±60 bp	Charcoal from lower fill of central hearth	BA

Kensington Villa Neolithic structure

CAR-1495	5510±70 bp	Charcoal from hollow	Neo
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Yr Allor pit circle

CAR-1491	3630±70 bp	Charcoal from recut of pit	BA
CAR-1464	3460±70 bp	Charcoal from recut of pit	BA
CAR-1490	3550±70 bp	Charcoal from below Collared Urn in pit	BA

PRN 37550

CAR-1230	2830±70 bp	Charcoal from pit fill	BA
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Castell Garw enclosure

CAR-1494	2570±60 bp	Charcoal from pre-enclosure turf line	BA - IA
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Gors standing stone

CAR-957	3290±70 bp	From an close to the standing stone	BA
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Great Castle Head

BETA-135352	2610±60 bp	From post hole	BA - IA
BETA-135351	2460±30 bp	From scoop contemporaneous with primary defence	IA
BETA-135353	2100±70 bp	Burnt layer behind defensive bank	IA
BETA-135350	930±70 bp	Internal area butting retaining wall to defences	EM - Med

Great Pale round cairn

CAR-1112	3620±60 bp	Pit pre-dating cairn.	BA
CAR-1111	1060±50 bp	Pit from stone clearance S of cairn	EM

Greyfriars, Carmarthen

BETA-113169	950±60 bp	Fill of a corn-drying kiln	EM - Med
BETA-113170	940±60 bp	Fill of a corn-drying kiln	EM - Med

Little Hoyle Cave

ANU-4350	20800±900bp	Bone from Red Sandy Silt	Pal
ANU-4347	20100±1100bp	Bone from Red Sandy Silt	Pal
ANU-4348	18200±1300bp	Bone from Red Sandy Silt	Pal
ANU-4349	17050±1000bp	Bone from Red Sandy Silt	Pal
OxA-3304	4930±80 bp	Human mandible from infill of shaft or 'chimney'	Neo
OxA-3303	4660±80 bp	Human mandible from infill of shaft or 'chimney'	Neo
OxA-3306	4880±90 bp	Human mandible from infill of shaft or 'chimney'	Neo
OxA-3305	4750±75 bp	Human mandible from infill of shaft or 'chimney'	Neo

Llancynfelin Mine

BM-2916	3380±40 bp	buried mine spoil (surface)	BA
BM-2929	1000±60 bp	Vegetation over buried spoil	EM - Med

Llangynog II defended enclosure

HAR-852	1850±70 bp	Charcoal from spread of burning in interior of fort	IA- RB
HAR-853	1840±80 bp	From post-hole in interior of fort	IA -RB
HAR-851	1820±70 bp	Charcoal from spread of burning in interior of fort	IA -RB

Llansteffan Castle Iron Age fort

HAR-477	2470±70 bp	Primary post hole beneath defensive bank	IA
HAR-476	2460±70 bp	Primary silt in defensive ditch	IA
HAR-475	2450±90 bp	Gully fronting defensive bank	IA

Llanychlwydog Church

CAR-918	1060±60 bp	Skeleton in cist grave in cemetery	EM
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Llawhaden Group of Small Defended Enclosures*Woodside Camp*

CAR-679	3480±70 bp	Charcoal from pit sealed by buried soil	BA
CAR-760	2200±60 bp	Charcoal from layer in the base of rampart	IA
CAR-735	2000±70 bp	Charcoal from beneath 1 st phase of outwork bank	IA
CAR-462	1980±60 bp	Occupation contemporary with stone rampart	IA
CAR-733	1960±70 bp	Charcoal from ditch, post-dating 2 nd phase outwork	IA
CAR-678	1900±60 bp	Charcoal from pit associated with house	IA - RB
CAR-457	1870±60 bp	Occupation associated with turf rampart	IA - RB
CAR-673	1000±60 bp	Charcoal from pit cutting post ring of house	EM - Med

Dan-y-Coed Enclosure

CAR-705	2080±70 bp	Charcoal from a pre-rampart burnt mound	IA
CAR-706	2070±70 bp	Charcoal from hollow immediately pre-rampart	IA
CAR-676	2050±60 bp	Charcoal from hearth in roundhouse	IA
CAR-674	1920±60 bp	Charcoal from hearth post-dating at structure	IA - RB
CAR-734	1900±60 bp	Charcoal associated with pre-rampart features	IA - RB
CAR-665	1850±70 bp	Charcoal from rubbish outside rectangular structure	IA - RB
CAR-675	1710±60 bp	Charcoal sealed below square structure	RB
CAR-1263	1660±60 bp	Infill layer sealed beneath structure	RB
CAR-677	1650±60 bp	Charcoal in rubbish in secondary fill of ditch	RB
CAR-1265	1620±70 bp		RB
CAR-1264	1340±60 bp		EM
CAR-1262	730±60 bp	Charcoal from late pit	Med

Drim Camp

CAR-559	2410±80 bp	Gully outside enclosure	IA
CAR-560	1920±70 bp	From 4-poster set across entrance of enclosure	IA - RB
CAR-474	1900±70 bp	Hollow in interior, late stages of primary occupation	IA - RB
CAR-557	1850±60 bp	From 4-poster set across entrance of enclosure	IA -RB
CAR-473	1310±60 bp	Charcoal from post-hole of building	EM

Broadway Enclosure

CAR-493	2450±70 bp	Pre-rampart occupation	IA
CAR-465	2420±60 bp	Pre-rampart occupation	IA
CAR-401	2410±70 bp	Pre-rampart occupation	IA

Holgan Camp

CAR-763	3280±70 bp	Charcoal from pit pre-dating inner rampart	BA
CAR-761	2480±70 bp	From early occupation layer	IA
CAR-787	2280±70 bp	From early occupation layer	IA
CAR-785a	2240±65 bp	From layer representing a late phase of occupation	IA
CAR-762	2230±70 bp	From early occupation layer	IA

CAR-786	2160±70 bp	From early occupation layer	IA
CAR-785b	2140±65 bp	From layer representing a late phase of occupation	IA
Pilcornswell Camp			
CAR-400	3250±70 bp	Charcoal from pre-rampart pit	BA
CAR-464	2510±70 bp	Charcoal from burnt out timber in rampart	IA
CAR-463	2290±60 bp	Charcoal from burnt out timber in rampart	IA
CAR-399	2240±60 bp	Charcoal from burnt out timber in rampart	IA
Bodringallt Enclosure			
CAR-467	2120±60 bp	Charcoal layer in ditch, primary occupation	IA
CAR-466	2100±60 bp	Charcoal from secondary occupation in interior	IA
Longbury Bank			
BETA-52350	1560±70 bp	Base of large post hole	RB - EM
BETA-52349	1510±60 bp	Post hole on corner of structure	RB - EM
Lydstep Pig			
OxA-1412	5300±100 bp	From pig with embedded microlith	Meso - Neo
Merlin's Hill			
CAR-958	2310±60 bp	Occupation pre-dating 'secondary' rampart dumps	IA
CAR-959	2100±70 bp	Occupation pre-dating 'secondary' rampart dumps	IA
Morfa Bacas fish traps, River Loughor			
SWAN-239	290±60 bp	Wooden stake from trap	PM
SWAN-240	140±60 bp	Wooden stake from trap	PM - Modern
Morfa Mawr burnt mounds			
CAR-458	1180±60 bp	From make-up of burnt mound	EM
Mynydd Llangyndeyrn standing stones			
BIRM-950	3090±100 bp	From pit close to a standing stone	BA
Nab Head I			
OxA-1495	9210±80 bp	Hazel nutshell fragments associated with lithics	Meso
OxA-1496	9110±80 bp	Hazel nutshell fragments associated with lithics	Meso
Nab Head II			
OxA-1497	8070±80 bp	Charcoal associated with lithic assemblage	Meso
OxA-860	7360±90 bp	Charcoal from shallow pit in lithic scatter	Meso
OxA-1498	4950±80 bp	Charcoal associated with lithic assemblage	Meso
OxA-861	?????	Charcoal from dense lithic scatter	

Nantyerarian Mine

BM-2930	3470±60 bp	Buried mine spoil	BA
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Narberth Castle cemetery

UB-4784	843±38 bp	Human bone from cemetery at castle	EM - Med
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Ogof-y-Ychen, Caldey Island

BIRM-340	22350±620 bp	Rhinoceros scapula, associated with lithic artefacts	Pal
OxA-2574	7020±100 bp	Human mandible	Meso

Parc Maen, Llangolman

CAR-570	3550±70 bp	Charcoal-filled pit below kerb of cairn	BA
CAR-495	3490±80 bp	Fill of a BA urn	BA
CAR-567	3330±70 bp	Charcoal spread external to cairn	BA
CAR-494	3280±70 bp	Charcoal-filled pit external to cairn	BA
CAR-568	3240±70 bp	Charcoal-filled pit below charcoal spread	BA
CAR-569	3180±60 bp	Charcoal-filled pit external to cairn	BA

Parry's Castle Farm burnt mound

BETA-159459	3750±80 bp	Charcoal from burnt mound	BA
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Pembrey Mountain

CAR-105	2285±45 bp	Carbonised grain from pre-rampart occupation	IA
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Pen cerrig y mwyn Mine

BETA-120591	1080±60 bp	<i>In-situ</i> fireset	EM
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Pendinas Lochdyn

CAR-1341	2800±70 bp	Isolated post-hole	BA
CAR-1340	1750±60 bp	Charcoal, wood, from in situ post	RB

Penycoed

CAR-768	2110±60 bp	From drain leading from roundhouse	IA
CAR-769	2025±60 bp	From interior palisade trench	IA
CAR-711	2005±60 bp	From post hole	IA
CAR-712	1975±60 bp	Layer at base of defensive ditch	IA
CAR-732	1715±60 bp	From drain around small roundhouse	IA - RB
CAR-555	900±65 bp	From layer over defensive bank	EM - Med

Plas Gogerddan

CAR-994	4700±70 bp	From pit with food deposit	Neo
CAR-993	2950±70 bp	From small pit close to standing stone	BA
CAR-1073	2770±60 bp	From pit cut by ring-ditch	BA
CAR-1072	2150±60 bp	From cremation in fill of ring-ditch	IA
CAR-1045	1580±60 bp	Coffin stain	RB - EM

Plasgwyn Farm burnt mound

BETA-159460	3660±70 bp	Charcoal from pit associated with burnt mound	BA
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Porth y Rhaw

SWAN-101	2470±70 bp	Hearth within defensive bank	IA
BETA-124342	2430±60 bp	Hearth within defensive bank	IA
BETA-124341	2420±80 bp	Cut to rear of defensive bank	IA
BETA-124344	2320±90 bp	Roundhouse gully	IA
BETA-124345	2170±70 bp	Upper fill of internal gully	IA
BETA-124343	1720±70 bp	Occupation deposit within stone-built roundhouse	RB

Redberth

BETA-10158	4965±57 bp	Charcoal from the fill of a post hole	Neo
BETA-10159	4791±57 bp	Charcoal from the fill of a post hole	Neo
BETA-10153	4656±67 bp	Charcoal from the secondary fill of a linear pit	Neo
BETA-10156	4553±62 bp	Charcoal from a spread of burnt material	Neo
BETA-10157	4024±68 bp	Charcoal from the fill of a small pit, by roundhouse	Neo
BETA-10154	3761±56 bp	Charcoal from the fill of a post hole	Neo - BA
BETA-10155	377±57 bp	Charcoal from the fill of a linear pit	PM

Rhos-y-Clegyrn

HAR-1139	160±80 bp	Charcaol from pit close to standing stone	PM - Modern
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Roman road west of Carmarthen, Whitland excavation

BETA-841787	2100±80 bp	Timber from immediate pre-drain road	IA
BETA-841788	2030±80 bp	Timber from immediate pre-drain road	IA

St Brides Cist Cemetery

CAR-917	1000±70 bp	Femur from cist grave	EM
CAR-931	150±60 bp	Bone from dug grave	PM - Modern

St Clears medieval town

CAR-1343	1630±60 bp	Buried soil beneath town's defensive bank	RB - EM
CAR-1344	1040±60 bp	Charcoal incorporated in town's defensive bank	EM
CAR-1342	900±60 bp	Buried soil beneath town's defensive bank	EM - Med
CAR-1345	840± 60 bp	Buried soil beneath town's defensive bank	EM - Med

St Ishmaels standing stone

CAR-315	3305±70 bp	Secondary pit fill	BA
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St. John's and St. Teulyddog's Priory, Carmarthen

CAR-288	1215±60 bp	Ditch beneath medieval cemetery	EM
CAR-289	870±60 bp	Limekiln associated with early phase of church	EM - Med

Stackpole Warren

CAR-475	3570±70 bp	Roundhouse destruction - pre-standing stone	BA
CAR-100	3350±70 bp	Roundhouse destruction - pre-standing stone	BA
CAR-476	3130±70 bp	Cremation	BA
CAR-101	2890±70 bp	Cremation	BA
CAR-845	2770±60 bp	From settlement enclosure Site G	BA
CAR-843	2710±70 bp	From settlement enclosure Site G	BA
CAR-145	2350±70 bp	From ditch of linear earthwork	IA
CAR-103	2240±60 bp	Animal bone from structure Site B	IA
CAR-104	2110±60 bp	Human bone – burial	IA
CAR-102	2060±60 bp	Animal bone from Site A	IA
CAR-144	2040±70 bp	Charcoal from above shell midden Site H	IA

Troedrhiwgwinau

CAR-1046	3270±70 bp	Charcoal from close to base of burnt mound	BA
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Tro'r Derlwyn

BETA-122921	270±60 bp	Make-up layer below 'floor' of building	PM
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Tyn y fron Mine

BETA-120592	3640±50 bp	Buried mine spoil	BA
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Walesland Rath

NPL-245	2160±90 bp	Layer stratified between Phase 1 and 2 banks	IA
NPL-244	2035±90 bp	Ash layer with crucible, on top of primary ditch silt	IA

Wiston medieval town

CAR-1441	1150±70 bp	From large pit in a burgage plot	EM - Med
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Woodbarn Rath

CAR-825	2100±60 bp	Carbonised branches in rampart extension	IA
CAR-826	2060±60 bp	Deposit incorporated in rampart extension	IA

2. LIST OF RADIOCARBON DATES FROM PALAEOENVIRONMENTAL SITES

The dates listed below are largely from pollen columns but a few dates are from deposits for which there is no associated pollen evidence (*). Depth given are cm unless otherwise indicated. All dates in years BP.

Aberaeron

Base of cliff	I-3120	11260±160
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Aberayron offshore core ZZ27

~-20.50	8740±110
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Abermawr

800	OxA-1411	7640±150
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613	OxA-1377	5520±150
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422-437	OxA-1115	4500±70
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Banc Nant Rhys

Base of primary pedogenic peat	3870±50
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Base of secondary pedogenic peat	4050±50
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Base of climatic peat	4170±50
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Borth Bog

690-698	SRR-5637	6155±45
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652-660	SRR-5636	5660±45
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592-600	SRR-5635	5460±45
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548-556	SRR-5634	5355±50
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280-288	SRR-5633	3080±35
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Under 0.9m alluvium	SRR-377	1100±50
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and 0.3 m silty peat	SRR-378	1200±50
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<i>Juncus</i> peat	Q-712	2900±110
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Borth 1 Pine

Growth rings

0-20	GU-703	5167±42
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21-30	GU-704	5249±36
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31-40	GU-705	5277±37
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41-50	GU-706	5540±37
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51-60	GU-707	5240±36
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61-70	GU-708	5314±40
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71-80	GU-709	5124±36
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81-90	GU-90	5174±84
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Borth 4 Oak

-15 - +10	GU-742	3917±84
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11-30	GU-743	3781±95
31-40	GU-744	3783±58
41-50	GU-745	4027±35
51-60	GU-746	3798±36
61-70	GU-747	3832±31
71-80	GU-748	3705±37
81-90	GU-749	3751±61
91-100	GU-750	3835±29
101-110	GU-751	3838±46
111-120	GU-752	3856±33
121-130	GU-753	3812±31
131-140	GU-754	3828±32

Borth 6

1-10	GU-719	4419±49
11-22	GU-720	4284±47
23-40	GU-721	4029±104
41-69	GU-722	4052±35
70-80	GU-723	4219±46
81-90	GU-724	3958±36
91-100	GU-725	3825±69
101-112	GU-726	3762±54
113-120	GU-727	3968±40
121-130	GU-728	3872±42
131-140	GU-729	4190±37
141-150	GU-730	3960±46
151-160	GU-731	3738±43
161-170	GU-732	4120±45
171-180	GU-733	4189±87
181-190	GU-734	3961±47
191-200	GU-735	4006±33
201-210	GU-736	3984±60
211-220	GU-737	3999±26
221-230	GU-738	4198±44
231-240	GU-739	4034±45
241-250	GU-740	4068±45
251-270	GU-741	3957±64

Bryn Farm, Llanddewi Velfrey

2-4	SWAN-132	5350±80
10-12	SWAN-131	4580±80
19-21	SWAN-130	4160±80
41-43	SWAN-229	2760±70

Bryn Mawr

414-416	AA-29007	8870±75
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373-375	AA-29006	8680±70
325-327	AA-29005	6630±95
293-295	AA-29004	6230±170
225-227	AA-29003	4835±55
181-183	AA-29902	4135±65
93-95	AA-29001	2415±50
37-39	AA-29000	1290±45

Bryniau Pica

458-460	AA-28998	9245±70
420-422	AA-27636	9135±65
302-304	AA-28999	6125±60
234-236	AA-27634	5070±55
100-102	AA-27633	3100±45
32-34	AA-27632	1965±45

Carmarthen Eastern Bypass

138	Beta-107881	1140±50
109	Beta-86593	1060±50
57	Beta-107880	860±60
14	Beta-86592	1000±50

Carmel Woods

402	OxA-3831	9285±95
370	OxA-3830	5135±70
255	OxA-3829	4740±65
90	OxA-3828	3790±60

Carningli

50-51		2030±80
32-33		1230±80
12-13		720±80

Castlemartin Corse, Freshwater

420-430	CAR-1143	4140±80
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Cefn Gwenffwrdd

GWA

CAR-19	3465±70
CAR-71	2855±50
CAR-39	2730±65
CAR-73	2030±45
CAR-74	1900±45
CAR-75	725±40
CAR-76	0±35

GWB	
CAR-40	5485±80
CAR-41	4985±75
CAR-7	3845±80
CAR-42	3720±70
CAR-43	2135±65
CAR-44	375±55

GWC	
CAR-99	9665±120
CAR-98	9070±120
CAR-97	
CAR-96	6815±85
CAR-95	5865±80
CAR-94	5490±80
CAR-45	4930±85
CAR-20	3335±80
CAR-93	2580±60

Cilgwyn		
418	GU-1328	10090±240

Clarach		
Borehole 1		
11220±1600		
10100±250		
9030±160		
-160 cm OD	5740±80	
-127 cm OD	HAR-300	5170±90
-108 cm OD	5130±100	
-35 cm OD	4410±80	
+58 cm OD	3790±80	
+138 cm OD	2560±80	
+193 cm OD	1140±80	

Borehole 2	
8760±80	(8780±80
7960±80	7960±80
7240±80	7300±80
6970±80	6820±80)

Borehole 3	
13303±127	
11489±106	
9708±85	

9089±79
8685±77

Wood frags	HAR-1128	5770±100
Oak -mean date from 30 analyses		5404

Pine	NPL-113	5970±90
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Peat -2.0 m OD	Birm-229	10100±250
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Cleddau Bog 42	SRR-2093	3340±80
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CledlynM*		
W6 Bed 4 boreholes A-D	Birm-485	a) 8980±450 b) 9550±290
W6 Bed 5 boreholes A+B	Birm-486	a) 9760±230 b) 9420±190

Cledlyn U		
W5 bottom 5 cm bed 4, boreholes a+b	Birm-488	a) 9630±240 b) 10060±380
W5 bottom 5cm bed 4, boreholes C+D	Birm-489	a) 10160±260 b) 1080±320

Cledlyn W		
2.90-2.95hole W + 3.025-3.075 hole W2	Birm-368	9380±340
2.87-2.92	Birm-369	8910±290
2.74-2.795	Birm-367	9020±400

CletwrK*		
3.55-3.59	Birm-389	8260±300
3.5-3.56	Birm-388	10170±220

Copa Hill, Cymystwyth CH1		
163-167	GrN-17014	2385±35

CH2		
133-134	GrN-17636	3470±35
105-106	GrN-17635	2395±35

Dinas Valley

1085-1096	GU-1267	11700±250
1055-1065	GU-1275	11100±140
990-1010	GU-996	7125±220
790-805	GU-995	6375±110
610-630	GU-994	9720±160
435-450	GU-993	4400±80
322-350	GU-992	3575±70
215-230	GU-991	2690±75
100-130	GU-990	1950±75

Dolaeron

100	SRR-2095	2620±170
55	SRR-2094	1090±90

Dolau-duon

468	GU-1327	9605±90
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Figyn Blaen Brefi

432-434	AA-27631	8380±60
384-386	AA-27630	7280±60
338-340	AA-27629	6180±60
264-266	AA-27628	4970±55
142-144	AA-27627	3275±50
96-98	SRR-6187	2450±45
14-16	SRR-6186	815±40

Freshwater West

4-7	Q-530	5960±120
-2.0 m OD		

Glaslyn

Base of peat	I-4928	3870±100
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Glaslyn 2

Base of primary pedogenic peat		2740±50
Base of secondary pedogenic peat		2700±50
Base of climatic peat		2640±50

Glaslyn Lake

Core C		
966.5-987.5	SRR-3938	8900±65
894.5-909.5	SRR-3937	6570±60
801.5-814.5	SRR-3936	4300±60
770.5-783.5	OxA-3004	3540±140

Hendre Fach

Basal	GU-1393	10145±195
Basal		9410±125
124	GU-1415	8670±85

Llanllwch

Q-459	3178±100	
Q-458	3230±110	

80	SWAN-148	3710±70
76	SWAN-94	3000±60
34	SWAN-93	1730±60

Llannerch

105	SRR-2087	2810±90
58	SRR-2086	510±180

Lydstep

79	OxA-1378	6150±120
pig	OxA-1412	5300±100

Machynys, Llanelli

-1.883to-1.923	Beta-139984	3790±70
-1.283 to -1.330	Beta-139983	3730±70
-0.583 to -0.633	Beta-139982	2870±70

Marros

145-148	CAR-1117	5300±80
55-56	CAR-1116	4640±70

Newquay Trawling Grounds

-26.55to	Birm-400	8740±110
-26.60 m altitude		

Pen-y-bont, Newport, Pembrokeshire

185	CAR-1142	3650±80
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Newport

237	Beta-163489	4630±50
44	Beta-163488	950±40

Newport Sands*

-1.6m OD	HAR-78	6370±150
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Pen Rhiw-Wen

N

CAR-66	4825±55
CAR-85	4930±60
CAR-84	4855±75
CAR-83	1223±60
CAR-64	705±60

M

CAR-14	5740±100
CAR-13	5705±80
CAR-12	4770±70
CAR-11	4245±70
CAR-10	3330±60

L

CAR-18	5825±65
CAR-17	4720±75
CAR-16	2340±65
CAR-15	1150±50

H

CAR-26	3375±70
CAR-25	2965±75
CAR-24	2745±65
CAR-23	2095±70
CAR-22	1245±55
CAR-21	775±55

K

CAR-38	5445±70
CAR-37	4800±85
CAR-36	3860±85
CAR-35	3130±60
CAR-34	2055±65
CAR-33	530±75

CAR-32	3150±85
CAR-31	2665±65
CAR-30	2395±45
CAR-29	985±70
CAR-28	885±65

Teifi Lakes

Pinewood	Q-394	5261±120
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Tregaron

413-416 Q930	10250±220	
404-406 Q931	9747±220	
398-400 Q932	9550±200	
390-392 Q933	9303±190	
354-356 Q934	8285±150	
348-350 Q935	8152±150	
248-250 Q936	7128±180	
242-244 Q937	6991±180	
236-238 Q938	6978±140	
228-230 Q939	6526±110	
214-216 Q940	5979±100	
172-174 Q941	5110±70	
167-169 Q942	4990±70	
163-165 Q943	4893±70	
152-154 Q944	4715±55	
144-146 Q945	4695±52	
86-88	Q946	3336±50
62-64	Q947	2922±50
82-84	Q596	????
67.5-68.25	Q389	3029±110
in		2879±110
66-66.75 Q388	2669±111	
in.		2624±111
25-26 in.	Q391	1477±90
18-19 in Q390	768±90	
	Q75	760±70
TSE		
562-570 SRR-5644	6775±50	
536-544	SRR-5643	6480±45
338-346	SRR-5642	4035±45
71	CAMS-60858	2090±40
54	CAMS-60859	1820±40
37	CAMS-60857	1610±40
20	CAMS-64375	820±40
TWA2		
146	CAM-66648	1910±40
115	CAM-66649	1700±40
97	CAM-66650	1540±40
54	CAM-66651	1060±40
30	CAM-66652	900±40

Tro'r Derlwyn Quarter Bach

42.5-43.5	Beta-136983	350±80
36.5-37.5	Beta-136982	1320±80

Ty-Rhyg

60	SRR-2092	950±160
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Waunwelw

105	SRR-2091	5290±350
80	SRR-2090	5580±160
52	SRR-2089	6580±190
25	SRR-2088	1980±150

Whitesands Bay

25-30	CAR-1176	5250±80
auroch	CAR-1183	4540±70

Whitland Bypass

1		
99-100	Beta-98684	4700±70
14-16	Beta-98683	2130±70
0-2	Beta-98682	1030±60
2		
108-110	Beta-98687	4080±70
70-72	Beta-98686	2570±70
4-6	Beta-98685	1970±70

Ynys Tachwedd

31.39-30.78	SRR-2504	9870±100
-28.62 to -28.01m OD		
27.17-26.75	SRR-2503	9710±50
-24.40--23.98 m OD		

Ystwyth Forest

Charcoal Q-814	2133±110 BP
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Ynslas

Birch wood	Q-380	6026±135
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Ynslas Sector of Borth Bog

1		
-25 cm OD	5150±90	
+27 cm OD	4700±70	

+112 cm OD 3740±70

4

+100 cm OD 3050±70

+180 cm OD 1510±70

Yynyslas Pine

-10-+10	GU-711	5106±48
0-10	GU-712	4935±89
11-20	GU-713	5009±52
21-30	GU-714	4974±39
31-40	GU-715	4956±45
41-50	GU-716	5035±46
51-60	GU-717	4924±40
61-70	GU-718	4930±48

Yynyslas 1 Replicate Analyses

GU-669	4825±52
GU-670	5012±41
GU-671	4904±39
GU-672	5004±39
GU-673	4819±45
GU-674	5003±37
GU-675	4823±42
GU-676	4791±40
GU-677	4752±33
GU-678	4930±37
GU-679	4873±33
GU-680	4765±35
GU-681	4863±36
GU-682	4899±34
GU-683	4770±37
GU-684	4866±35
GU-685	4747±42
GU-686	4887±30
GU-687	4771±35
GU-688	4968±29
GU-689	4788±28
GU-690	4933±29
GU-691	4839±28
GU-692	4739±33

LIST OF POLLEN AND MOLLUCS SITES

LIST OF POLLEN SITES: DYFED

NB A number of sites have other associated environmental analyses, e.g. plant macrofossils, diatoms, foraminifera etc

Aber Camddwr II
Aberaeron - 14C
Abermad Pingo
Abermawr - 14C
Aberystwyth
Anell and Gwenlais Leats nr Doaucothi
Banc Nant Rhys - 14C
Bedd yr Franc
Blaen yr Esgair
Bluestones
Borth Bog -14C
Bryn Cysegrfan
Bryn Farm, Llanddewi Velfrey - 14c
Bryn Gawr
Bryn Mawr -14C
Bryniau Pica - 14C
Bwlch Owen
Caer Cadwgan, Caer Morrice
Carmarthen Eastern Bypass (2 sites) - 14C
Carmel Woods - 14C
Carningli -14C
Castlemartin Corse, Freshwater -14C
Cefn Brwynog
Cefn Gwenffwrdd - 14C
Cil Maenllwyd
Cilgwyn - 14C
Clarach 14C
Clarach Bog
Cleddau Bog - 14C
Cledlyn U - 14C
Cledlyn W - 14C
Cletwr I
Copa Hill, Cymystwyth
Cors Carmel (Carmel Bog)
Croesfihangel
Cwmllynfell
Cymystwyth
Dinas Valley - 14C
Dolaeron - 14C
Dolau-duon - 14C
Elan Valley
Esgryn Bottom
Felin Fulbrook
Ffair Rhos
Figyn Blaen Brefi-14C
Freshwater West - 14C
Glaslyn - 14C
Glaslyn Lake - 14C
Goodwin's Row, Glandy Cross
Gors Fawr
Great Castle Head
Gwarllyn

Gwbert
Hafod Ithel; Pwll yr Ych
Hafod Tydfil
Hendre Fach - 14C
Knock Rath; Holmes Ring
Llangeitho
Llangurig
Llanllwch - 14C
Llannerch - 14C
Llyn Berwyn
Llyn Eiddwen
Llyn Gynon
Llyn Hir
Lodge Farm Ring Ditch
Lydstep - 14C
Machynys, Llanelli - 14C
Maesgoleu
Marros -14C
Merryborough Camp; Castle Park
Moelfryn
Nanteos
National Botanical Garden, Middleton Hall
Newquay Trawling Grounds -14C
Newgale
Pen-y-bont, Newport, Pembrokeshire - 14C
Pen Rhiw-Wen (6 sites) - 14C*
Pen y Bryn
Penbont
Penrhyncoch
Penycoed
Plynlimon
Porth y Rhaw
Pumlumon 2
Pumpsaint
Rhos-y-Clegyrn
Roman Marching Camp
Teifi Lakes - 14C
Tenby
Towy Valley UTV4
Tregaron South East Bog -14C
Tregaron West Bog - 14C
Tregaron - 14C
Troedrhiwgwinau
Tro'r Derlwyn Quarter Bach - 14C
Ty-Rhyg - 14C
Waunwelw - 14C
West Angle Bay
Whitesands Bay - 14C
Whitland Bypass (5 sites) - 14C
Ynys Tachwedd - 14C
Ynyslas
Ystwyth Forest -14C

LIST OF MOLLUSC SITES: DYFED

Bwlch Owen
Caldey
Caldey, Nanna's Cave
Carmarthen Priory
Clegyr Boia
CoyganCamp
Daylight Rock
Dryslwyn Castle
Freshwater West
Greyfriars, Carmarthen
Haverfordwest Priory
Longbury Bank
Ogof Morfran
St Mary and St Thomas the Martyr
Stackpole Warren
Tenby
Ynyslas

CURRENT RESEARCH PROJECTS

CURRENT RESEARCH PROJECTS AND RECENTLY COMPLETED PROJECTS
Long completed projects and/or published projects are not included

D Austin	Department of Archaeology University of Wales Lampeter, Lampeter, Ceredigion SA48 7ED	Carew Castle Archaeological Project Excavation at Carew Castle and landscape survey. Project undertaken in 1990s. Unpublished
G Wainwright T Darvill	March Pres, Pontfaen, Nr. Fishguard, Pembrokeshire SA65 9TT wainwright@bstone.demon.co.uk Archaeology and Historic Environment Group, School of Conservation Sciences, Bournemouth University, Fern Barrow, Poole, Dorest BH1 5BB tdarvil@bournemouth.ac.uk	SPACES: Strumble-Preseli Ancient Communities and Environment Study Research of sites/landscapes 4000 BC to 2000 BC of part of north Pembrokeshire. First main phase of fieldwork planned for 2002 -03.
H Mytum	Department of Archaeology, University of York, The King's Manor, York YO1 2EP	Castell Henllys Hillfort Excavation Excavation of a medium-sized hillfort and of other iron age sites in the area. Continuing project, now in its 21 st year. Unpublished
H Mytum	Department of Archaeology, University of York, The King's Manor, York YO1 2EP	North Pembrokeshire Historic Settlements Project Excavation of several historic abandoned settlements of differing status. Continuing in 2002 with the excavation of Henllys Farm. Unpublished.
H Mytum	Department of Archaeology, University of York, The King's Manor, York YO1 2EP	Pembrokeshire Graveyard Survey Survey of graveyards, mostly across N Pembrokeshire. Intermittent survey since the early 1980s. Some results published in a variety of journals.
D Austin and A Fleming	Department of Archaeology University of Wales Lampeter, Lampeter, Ceredigion SA48 7ED	Headwaters of Wales Project Landscape survey, historical survey and excavation. Ongoing project.

K Murphy	Cambria Archaeology, The Shire Hall, Carmarthen Street, Llandeilo, Carmarthenshire SA19 6AF ken@acadat.com	Historic Landscape Characterisation Characterisation of landscapes on the Register of Landscapes of Outstanding Historic Interest in Wales, and Register of Landscapes of Special Historic Interest in Wales. Ongoing Registers of landscapes published – Cadw 1998 and 2001 Results of characterisation to date posted on www.acadat.com website
R Avent	Cadw: Welsh Historic Monuments Cathays Park Cardiff CF10 3NQ Richard.Avent@Wales.GSI.Gov.uk	
R Kelly	Countryside Council for Wales Plas Penrhos Ffordd Penrhos Bangor Gwynedd LL57 2LG	
P Sambrook	Cambria Archaeology, The Shire Hall, Carmarthen Street, Llandeilo, Carmarthenshire SA19 6AF Paul@acadat.com	Deserted Rural Settlement Assessment Rapid ground survey and historical survey of medieval and post-medieval settlement sites. Report forthcoming in a pan-Wales monograph.
N Cooke	Cambria Archaeology, The Shire Hall, Carmarthen Street, Llandeilo, Carmarthenshire SA19 6AF Nikki@acadat.com	Funerary and Ritual Sites Assessment Rapid survey of all known sites in Carmarthenshire, Ceredigion and Pembrokeshire. 3 rd year of a 5-6 year project. Including pollen analysis from selected sites. Unpublished.
A Caseldine	Department of Archaeology School of Social Sciences University of Wales Lampeter Ceredigion SA48 7ED a.caseldine@lamp	
N Ludlow	Cambria Archaeology, The Shire Hall, Carmarthen Street, Llandeilo, Carmarthenshire SA19 6AF Neil@acadat.com	Early Medieval Ecclesiastical Sites Historic and rapid ground survey of evidence of early medieval ecclesiastical sites in Carmarthenshire, Ceredigion and Pembrokeshire. 2 nd year of a 3 year project.
G Hughes	Cambria Archaeology, The Shire Hall, Carmarthen Street, Llandeilo, Carmarthenshire SA19 6AF Gwilym@acadat.com	Coastal Forts of Pembrokeshire Survey of all Iron Age promontory forts and selective excavation. Project in planning stages.

E Whittle	Cadw: Welsh Historic Monuments, Crown Building, Cathays Park, Cardiff CF10 3NQ	Parks and Gardens Historic and rapid ground survey of parks and gardens in Carmarthenshire, Ceredigion and Pembrokeshire. In press as <i>Register of Landscapes of Special Historic Interest in Wales: Part 1: Parks and Gardens: Dyfed</i>
S Briggs	RCAHMW Plas Crug Aberystwyth Ceredigion SY23 1NJ Stephen.briggs@rcahmw.	Parklands and Gardens Compilation of a database of parklands and gardens across Wales. Complete
T Driver	RCAHMW Plas Crug Aberystwyth Ceredigion SY23 1NJ toby.driver@rcahmw.org.uk	Landscape, Settlement and Society in Iron Age north Ceredigion Survey review mostly based on old and current aerial photography. Work in progress towards a PhD.
T Driver	RCAHMW Plas Crug Aberystwyth Ceredigion SY23 1NJ toby.driver@rcahmw.org.uk	Aerial Survey Identification and photography of sites of all periods across Wales. Ongoing project. Results incorporated into database and/or published.
D Leighton	RCAHMW Plas Crug Aberystwyth Ceredigion SY23 1NJ	Upland Initiative Rapid survey of the Welsh uplands to located sites of all periods. Work carried out by RCAHMW staff and contractors. Ongoing. Results to date to be published in monograph. Results entered into database.
V Cummings A Whittle	School of History and Archaeology PO BOX 909, Cardiff University, CF10 3XU CummingsVM@Cardiff.ac.uk Whittle@Cardiff.ac.uk	Megaliths in the Neolithic landscapes of Wales Investigation of the landscape setting of megalithic monuments in SE and SW Wales using a variety of techniques including GIS. Ongoing. Monograph to published in 2003.
E Plunkett-Dillon	Archaeologists' Office Wales The National Trust 8A The Science Park Aberystwyth SY23 3AH GAREPD@grpwse.ntrust.org.uk	Dolaucothi Gold Mines Long term research project on the gold mines, involving survey and excavation. Undertaken by NT staff and specialist contractors. Ongoing

J Macve	The Hafod Trust Hafod Estate Office Hafod Old Mansion Hafod Pontrhydygroes Ceredigion	Hafod Survey, excavation and historical research into a late 18 th and early 19 th century picturesque landscape created by Thomas Johnes. Ongoing Some results published or in grey literature.
M Norman	The Hafod Trust c/o Coed Glan Tawe Esgairdawe Llandeilo Carmarthenshire SA19 7RT	
P Sambrook	Cambria Archaeology, The Shire Hall, Carmarthen Street, Llandeilo, Carmarthenshire SA19 6AF paul@acadat.com	Mynydd y Ffynnon upland survey Upland survey and landscape analysis of a large upland area of north Ceredigion. Grey literature reports produced (Sambrook, and Sambrook and Hankinson 1997 – 2001), and a published report is forthcoming. Completed
R Hankinson	Clwyd-Powys Archaeological Trust 7a Church Street Welshpool Powys SY21 7DL	
P Hughes	Department of Geography University of Southampton Highfield Southampton SO17 1BJ	Late Holocene mire development and conservation of the intact raised peatlands of Cors Caron and Cors Fochno: palaeoecological approach using high resolution macrofossil analysis PhD studentship - completing 2003
M. Macklin P Brewer T Coulthard	Institute of Geography and Earth Sciences, University of Wales, Aberystwyth SY23 3DB	Historical river channel change in Wales GIS database of all major Welsh rivers down to their tidal limits. Funded by EAW & CCW to which a PhD project is also linked. Ongoing project - completion 2002.
M. Macklin P Brewer T Coulthard	Institute of Geography and Earth Sciences, University of Wales, Aberystwyth SY23 3DB	Modelling and evaluating flood risk in Wales A 3 year project funded by NAW, EAW, CCW & BGS that will start August/September 2002. River basins that will be investigated are the Dee, Teifi, Dyfi & upper Severn. This includes a radiocarbon dating programme of Holocene alluvial sediments funded by the BGS.

M. Macklin P Brewer T Coulthard	Institute of Geography and Earth Sciences, University ofWales, Aberystwyth SY23 3DB	Erosion & sedimentation in the Tywi Funded by ACC. Work complete & final report due August 2002.
M. Macklin P Brewer T Coulthard	Institute of Geography and Earth Sciences, University ofWales, Aberystwyth SY23 3DB	The impact of metal mining on river systems & flood plain vegetation in the Rheidol & Ystwyth valleys Funded by CCW. Completion 2003.

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**ARCHAEOLOGICAL RESOURCE AUDIT
DRAFT**

REPORT NUMBER 2002/51

JUNE 2002

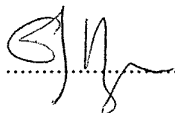
This report has been prepared by K Murphy and J Hall

Position Principal Archaeological Officer and SMR Officer

Signature  Date 27 June 2002

This report has been checked and approved by G Hughes on behalf of Cambria Archaeology,
Dyfed Archaeological Trust Ltd.

Position Trust Director

Signature  Date 27/6/02

As part of our desire to provide a quality service we would welcome any comments you may have
on the content or presentation of this report

ROMANO-BRITISH

NOTES ON THE ROMANO-BRITISH MAPS

There may be a real distinction between type Defended Enclosure in broad class Defence and type Hillfort Occupation and other types in Domestic. The former perhaps being RB founded sites, the latter reuse of IA sites.

ROMANO-BRITISH - KEY SITES

Forts

Capel Bangor

Excavations in fort.
Davies 1986b

Carmarthen

Excavations in fort.
James 1992, forthcoming

Pumsaint

Excavations in and around the fort. Environmental evidence: plant macrofossils; charcoal; soil studies.
Burnham and Burnham 1986, 1990a, 1990b, 1997; Jones and Little 1973, 1974

Llandovery

Excavations in fort.
Jarrett 1962, 1963, 1970

Trawscoed

Excavation in the fort.
Davies 1984, 1985, 1986a, 1987, 1988

Towns

Carmarthen

Extensive excavations in the Roman town. Large assemblage of artefacts. Environmental evidence: charcoal.
James 1978, 1992a; 2000, forthcoming; Jones 1969, 1970

Carmarthen Amphitheatre

Excavations
Little 1971

Rural settlement

Castle Flemish

Small scale excavations in a rectilinear enclosure.
Wheeler 1923

Castell Henllys

Full excavation of a small hillfort., with RB occupation in annexe.

Mytum 1989, 1991, 1996

Coygan Camp

Excavations in small hillfort with Roman occupation
Wainwright 1967

Cwmbrwyn

Excavation of small defended enclosure with Roman rectangular stone building.
Ward 1907

Gateholm Island, Pembrokeshire

Small-scale excavation and survey indicate Roman occupation
Davies, Hague and Hogg 1971; Lethbridge and David 1930

Llawhaden group of small defended enclosures

Romano-British occupation at Dan-y-Coed, Woodside and Drim
Williams and Mytum 1998

Llys Brychan

Excavations on a Roman villa
Jarrett 1961

Penycoed

Complete excavation of a small defended enclosure/farmstead with RB occupation.
Murphy 1985

Porth y Rhaw

Partial excavation of a coastal promontory fort with RB occupation
Crane forthcoming

Trelissey

Small-scale excavation of a defended enclosure. with RB stone-built rectangular building.
Thomas and Walker 1959

Walesland Rath

Complete excavation of a defended enclosure with RB occupation.
Wainwright 1971b

Resources

Dolaucothi Gold Mine

Austin and Burnham 1984; Burnham 1990, 1997; Burnham and Burnham 1987; Boon
and Williams 1966

Survey and small-excavation of Annell leat and the Gwenlais leat

Environmental evidence: pollen. Radiocarbon dates.

Bick 1995; Burnham and Burnham 1993; Burnham, Burnham and Walker 1992; Jones, Blakey and MacPherson 1960; Jones and Maude 1990

Roads

Roman road in the Tywi valley

Report on aerial survey.

James and James 1984; James 1991

Road west of Carmarthen

Survey, aerial photo survey and excavation at Whitland and Bryn Farm, supported by radiocarbon dates. Environmental evidence: plant macrofossils; pollen; wood; dendrochronology; insects.

James Murphy and Page 2002

Burials

Allt-y Cnap, Johnston, Carmarthen

Recently discovered in-urned cremation with grave goods – not yet published.

Park Hall, Carmarthen

In-urned cremation, plus other possible burials.

Crane 2001

Penbryn, Ceredigion

2 burials, including in-urned cremation

Davies 1994

Other key Romano-British texts

Davies 1994; Arnold and Davies 2000

EARLY MEDIEVAL

EARLY MEDIEVAL – KEY SITES

Burials/churches

Caer, Bayvil

Numerous cist and dug graves excavated in a small Iron Age defended enclosure.
Supported by radiocarbon date.
James 1987

Llanychlwydog Church

Radiocarbon date from a cist grave. Other burials present.
Murphy 1987

St Brides

Radiocarbon dates obtained from eroding cist and over graves.
Murphy 1986

Llandysilio Church

Study of the church and parish, 500-1543
James 1997

Other burials/churches key texts: Edwards and Lane 1992; James T 1992; James H 1992b

Early Christian Monuments

Key texts: Dark 1992; Edwards forthcoming; Lewis 1976b; Nash -Williams 1950; Thomas 1994

Settlements

Carew Castle

Excavation and survey at a medieval castle with evidence of early medieval occupation.
Austin 1993, 1995a, 1995b; Campbell 1990

Coygan Camp

Excavations in small hillfort with evidence of early medieval use.
Wainwright 1967

Gateholm Island, Pembrokeshire

Small-scale excavation and survey suggests early medieval occupation
Davies, Hague and Hogg 1971; Lethbridge and David 1930

Longbury Bank

Excavations, little structural evidence, but artefacts supported by radiocarbon dates.

Environmental evidence: plant macrofossils; animal bone; molluscs.

Campbell and Lane 1993

Llawhaden Group of defended enclosures

Williams and Mytum 1998

Other key settlement texts: Arnold and Davies 2000; Edwards and Lane 1988

NEOLITHIC AND EARLY BRONZE AGE

NOTES ON THE NEOLITHIC MAPS

There is some overlap in monument type in this period and the BA – round barrows, stone circles, ring barrows etc.

NOTES ON THE BRONZE AGE MAPS

There is some overlap in monument type in this period and the Neolithic – round barrows, stone circles, ring barrows etc.

The only burnt mounds assigned to the BA are those with dating evidence (those excavated), the remainder are assigned to the general Prehistoric Period, although most are probably BA.

Site type platform were identified in upland surveys. These have not been tested by excavation and should more realistically put in the more general Prehistoric Period or later periods.

The place-name map shows clustering. This is due to detailed parish surveys having been carried out.

NEOLITHIC AND EARLY BRONZE AGE - KEY SITES

Neolithic/Bronze Age settlements

Clegyr Boia, St David's

Excavation of a small defended site. Structural evidence and artefacts. Environmental evidence: charcoal.

Baring Gould 1903; Williams 1952

Coygan Camp

Excavation of IA hillfort with evidence of earlier occupation. Artefacts. Environmental evidence: charcoal.

Wainwright 1967

Llanilar

Excavation of a potential Neolithic/Bronze Age settlement site. Environmental evidence: plant macrofossils.

Briggs 1997

Plas Gogerddan

Neolithic food deposit in excavation of later period site. Environmental evidence: plant macrofossils, charcoal.

Murphy 1992

Redberth

As yet unpublished excavation revealed stake-built structures supported by radiocarbon dates.

Page forthcoming

Stackpole Warren

Excavation of a house pre-dating standing stone, plus other excavated structures.

Radiocarbon dates.

Benson *et al* 1990

Chambered tombs/Neolithic burials

Carreg Samson chambered tomb

Excavation of tomb. Finds include a Neolithic bowl and flints.

Lynch 1975

Carreg Coetan chambered tomb, Newport

Unpublished excavation (Rees) of chambered tomb. Supported by radiocarbon dates.

Little Hoyle Cave

Neolithic pottery and radiocarbon date from human mandible.

Pentre Ifan chambered tomb

Excavation in and around tomb. Some artefactual evidence. Environmental evidence: charcoal

Other key Chambered tombs/burials texts: Lynch 1972, 1976

Burnt mounds

Carne burnt mound

Excavation with radiocarbon dates of burnt mounds. Environmental evidence: plant macrofossils.
James 1986

Felin Fulbrook burnt mound

Excavation with radiocarbon date of a burnt mound. Environmental evidence: plant macrofossils.
Williams *et al* 1987

Morfa Mawr burnt mounds

Small-scale excavation of 4 mounds. Radiocarbon date of early medieval period.
Williams 1985a

Parry's Castle Farm burnt mound

Partial excavation of burnt mound with radiocarbon date and environment analyses.
Crane 2002

Plasgwyn Farm burnt mound

Partial excavation of burnt mound with radiocarbon date. Environmental evidence: charcoal.
Crane 2002

Troedrhiwgwinau burnt mound

Small-scale excavation on a burnt mound supported by radiocarbon dates. Environmental evidence: plant macrofossils; charcoal.
Caseldine and Murphy 1989

Other key burnt mound texts: Cantrill and Jones 1911

Round barrows/Bronze Age burials etc

Aber Camddwr I

Excavation of a ring cairn. Environmental evidence: charcoal.
Hogg 1977

Aber Camddwr II

Excavation of a small cairn and associated standing stones. Environmental evidence: plant macrofossils. Supported by radiocarbon dates.

Hogg 1977; Marshall and Murphy 1991

Allt-y-Garn

Excavation of a large summit cairn with central burial.

Murphy 1995a

Croesmihangel round barrow

Salvage excavation on a barrow with several burials and urns. Environmental evidence: pollen.

Nye, Harrison and Savory 1983

Disgwlfawr round barrow

Small-scale excavations uncovered 2 'dug-outs', a cremation and a Food Vessel.

Supported by radiocarbon dates.

Green 1987

Ffynnon Newydd, Nantgaredig

Small-scale excavations on a henge monument.

Williams 1984

Great Pale

Excavation of a small cairn.

John and Williams 1994

Llanilar

Excavation of a Bronze Age burial site. Environmental evidence: plant macrofossils

Benson *et al* 1982, Briggs 1997

Pen-dre, Letterston barrow and embanked stone circle

Small-scale excavations

Savory 1963

Pen-y-Bont, St David's

Salvage excavation on a round barrow, unpublished

Parc Maen, Llangolman

Complete excavation of a cairn, associated standing stones and pits. Several urns.

Environmental evidence: plant macrofossils; charcoal. Supported by radiocarbon dates.

Marshall and Murphy 1991

Pwll Mountain, Marros

Re-appraisal of antiquarian excavations of a ring cairn and barrow.

Ward 1977

South Hill, Talbenny

Partial excavation of barrow with Beaker burial.

Fox 1942

Other key Round barrows/Bronze Age burials/etc texts : Lynch 1979, 1980

Standing stones**Gors**

Excavation (unpublished) around a standing stone. Radiocarbon date of 3290 ± 70 bp from an associated pit.

Marshall 1985, Williams 1988

Mynydd Llangyndeyrn

Excavation of two separate standing stones, Radiocarbon date of 3090 ± 100 bp from an associated pit.

Ward 1983

Plas Gogerddan

Excavation around a standing stone with multi -period use. Environmental evidence: charcoal; soil studies.

Murphy 1992

Rhos-y-Clegyrn

Extensive excavations around a standing stone - indications of multi-period use.

Lewis 1974, 1976a

St Ishmaels

Excavation around at standing stone. Radiocarbon date of 3303 ± 70 bp from associated pit.

Williams 1989

Stackpole Warren

Extensive excavation around a standing stone, demonstrating multi -period use of site.

Environmental evidence: plant macrofossils; charcoal; molluscs

Benson *et al* 1990

Other key texts

Williams 1988

Other funerary and ritual sites

Glandy Cross

Excavation on a variety of sites supported by radiocarbon dates. Environmental evidence: plant macrofossils; animal bone; pollen; char coal.

Kirk and Williams 2000

Resources

Mining

Copa Hill, Cwmystwyth

Small-scale excavation on metal mine supported by radiocarbon dates. Environmental evidence: plant macrofossils; charcoal; wood.

Timberlake 1987, 1990a and b; 1995a, 1996a, 1998, Timber lake and Mighall 1992:

Timberlake and Switsur 1988

Llancynfelin

Small-scale excavation on metal mine supported by radiocarbon dates.

Timberlake 1992, 1995b, 1998

Nantyrarian

Small-scale excavation on metal mine supported by radiocarbon dates.

Timberlake 1995c, 1998

Tyn y fron

Small-scale excavation on metal mine supported by radiocarbon dates.

Timberlake 1996b, 1998

Pen cerrig y mwyn

Small-scale excavation on metal mine supported by a radiocarbon date indicate medieval/modern use.

Timberlake 1998, Timberlake and Craddock 1996

Stone axe production

Glandy Cross and Glyn y Fran, Preseli Hills

Surface collections associated with axe manufacture.

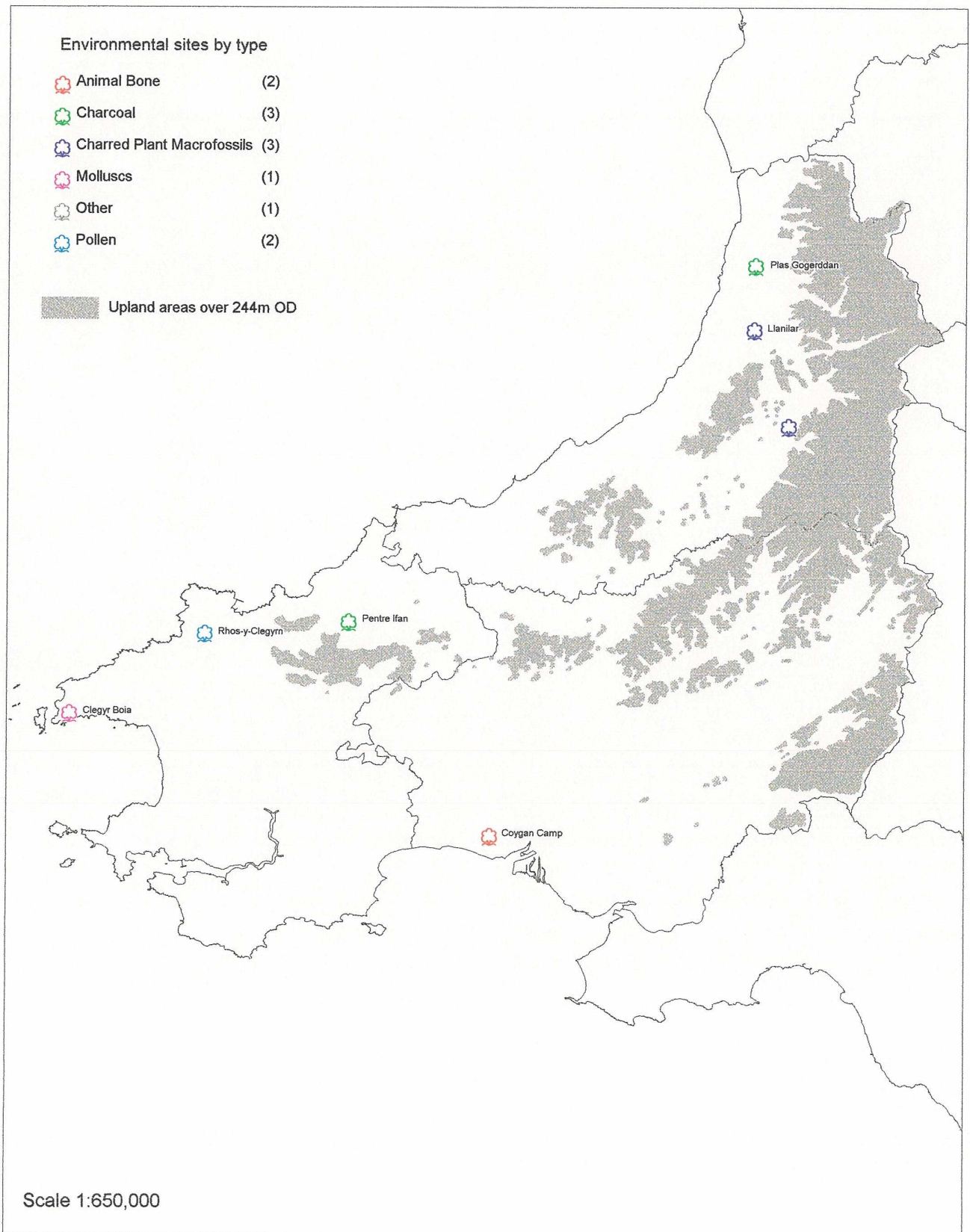
David and Williams 1995

Other key stone axe production texts : Clough and Cummins 1979, 1988; Darvill 1989; Shotton 1972

Other key Neolithic/Bronze Age texts: Briggs 1994; Leighton 1997; Lynch, Aldhouse-Green and Davies 2000; Savory 1980

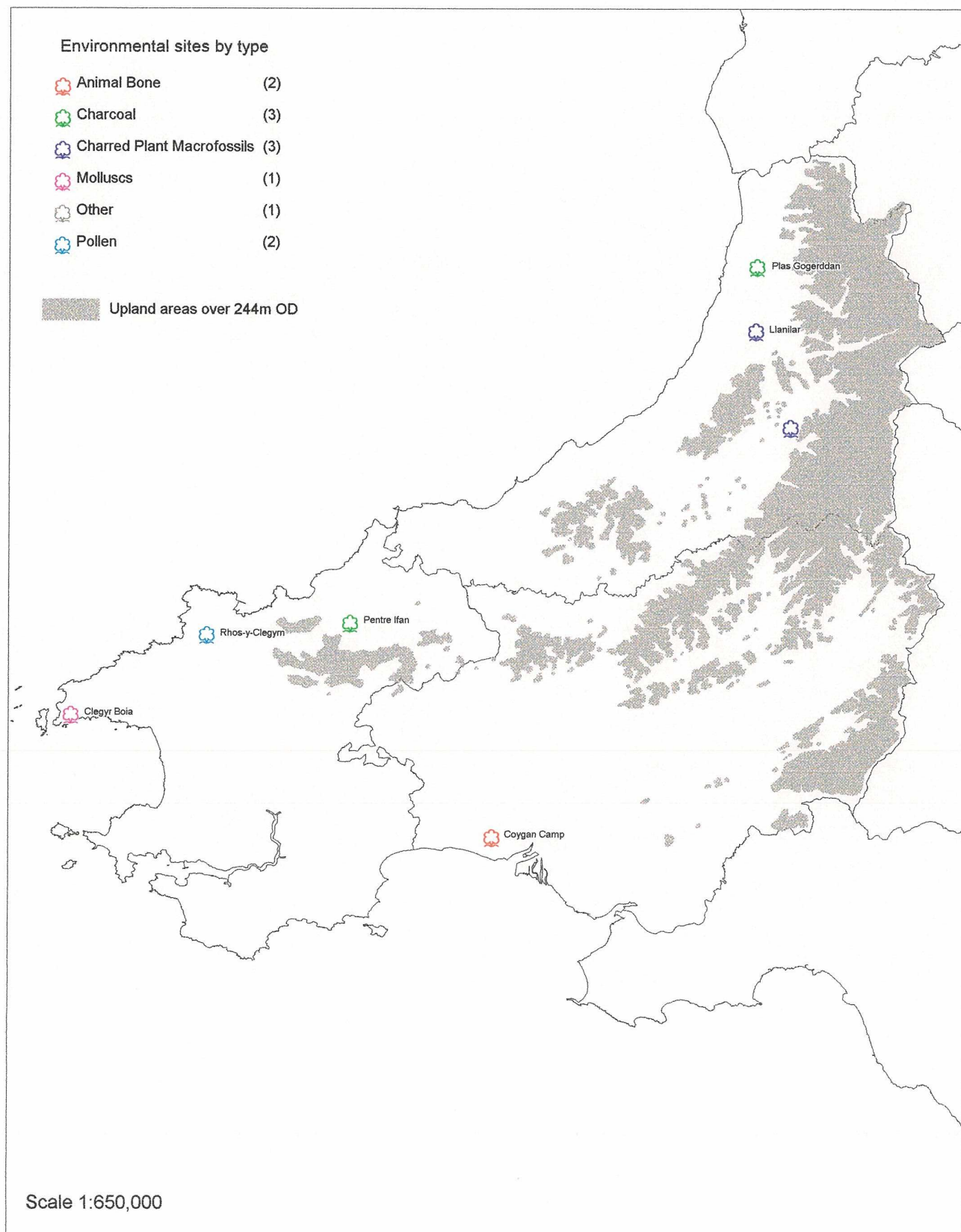
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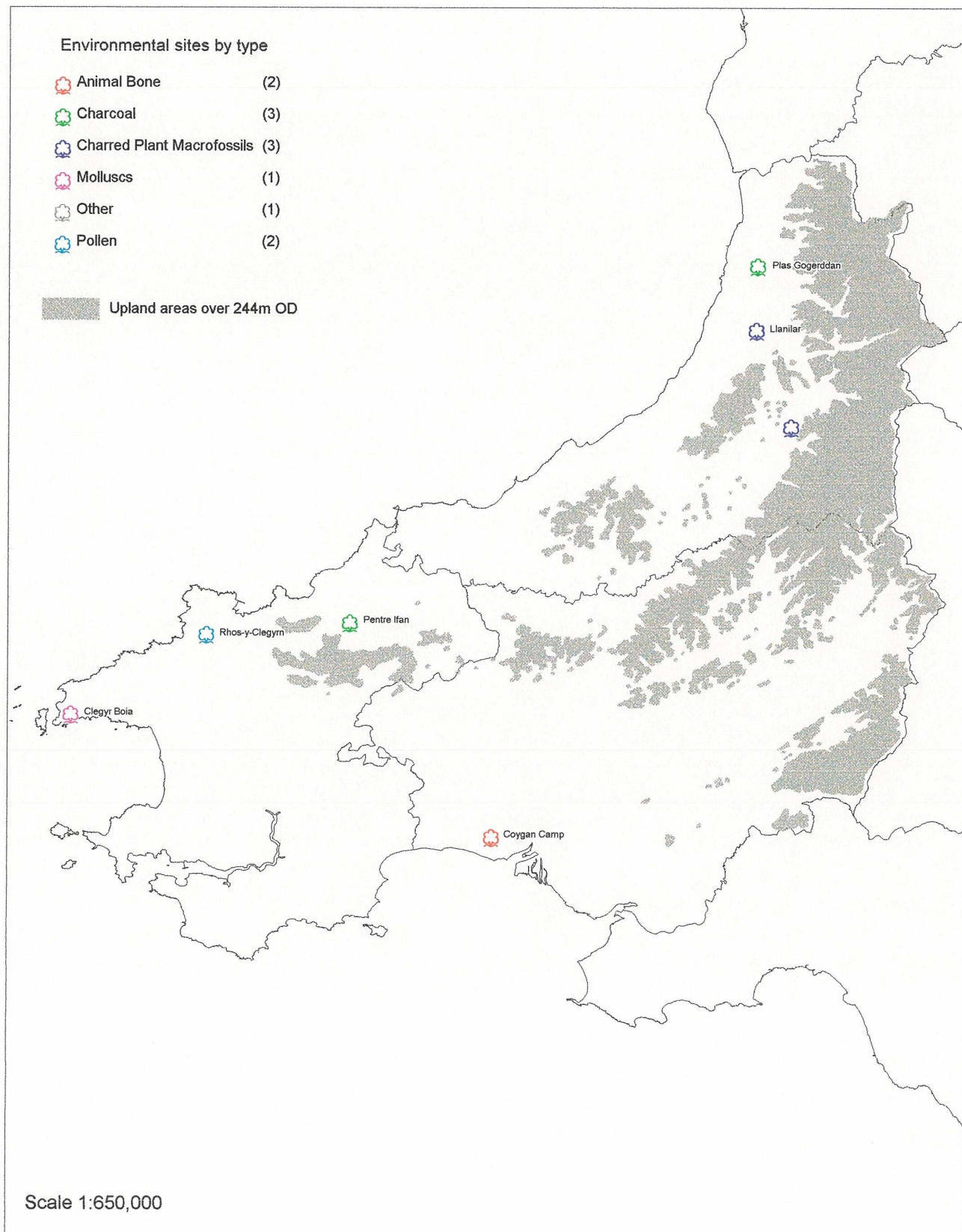
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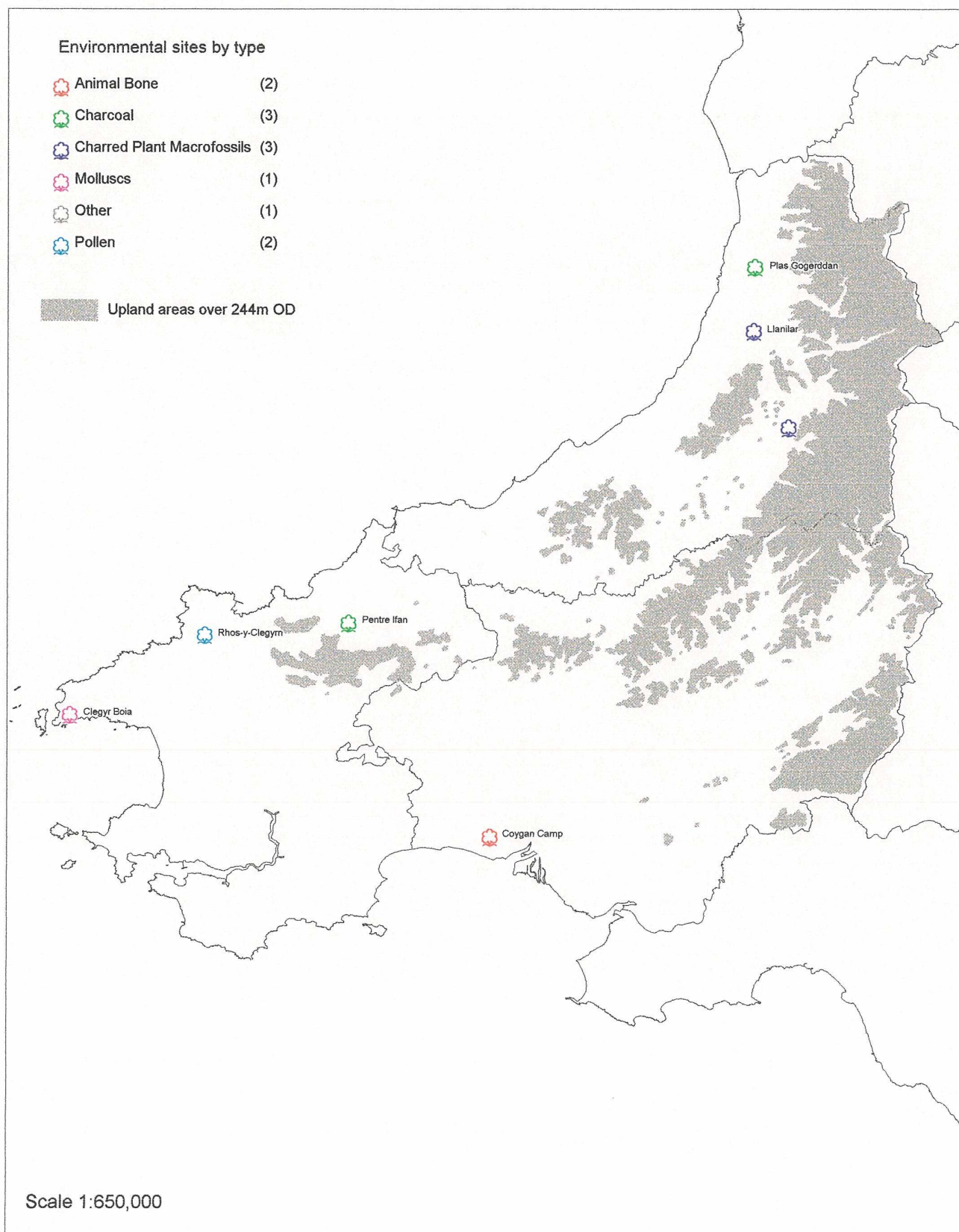
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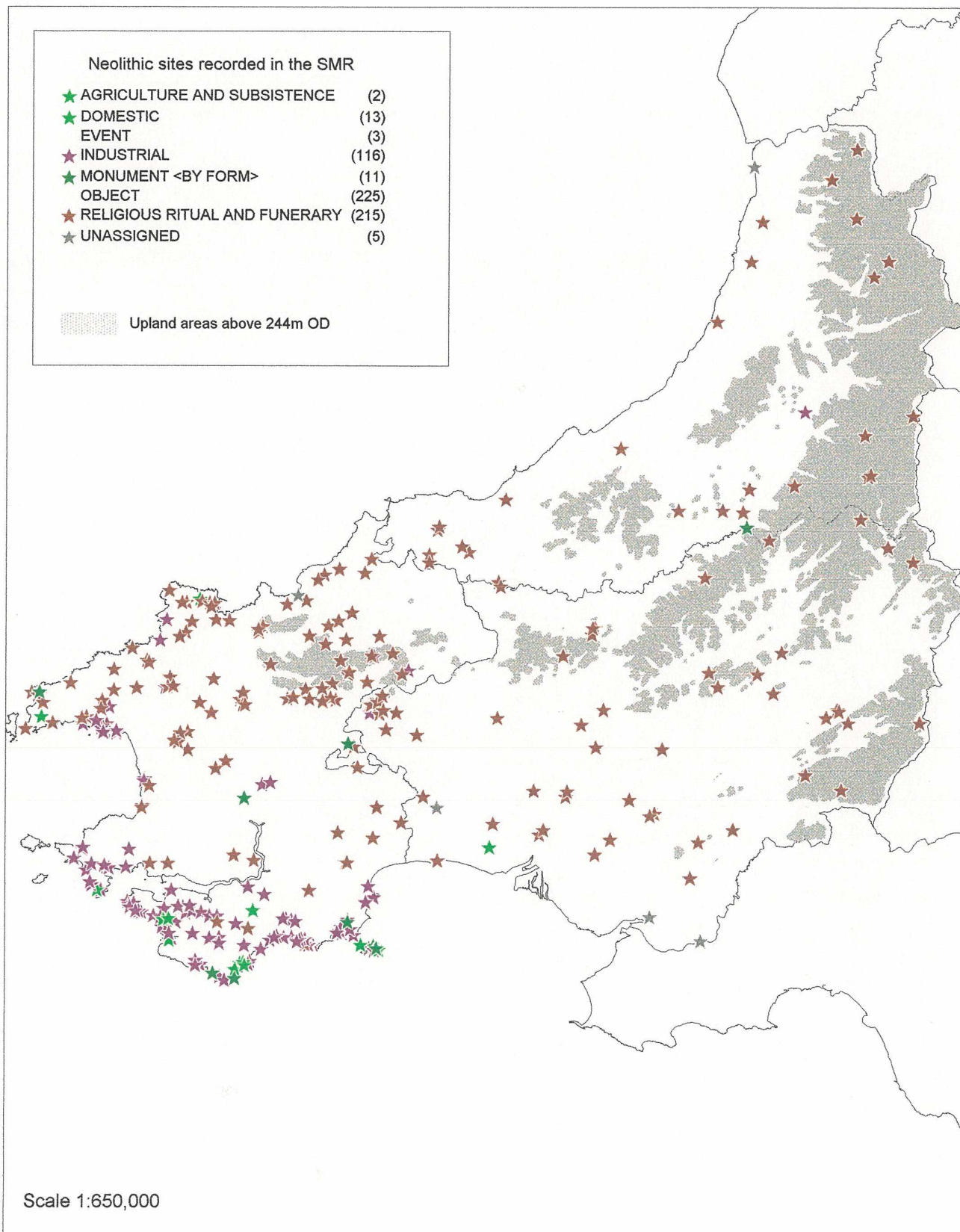
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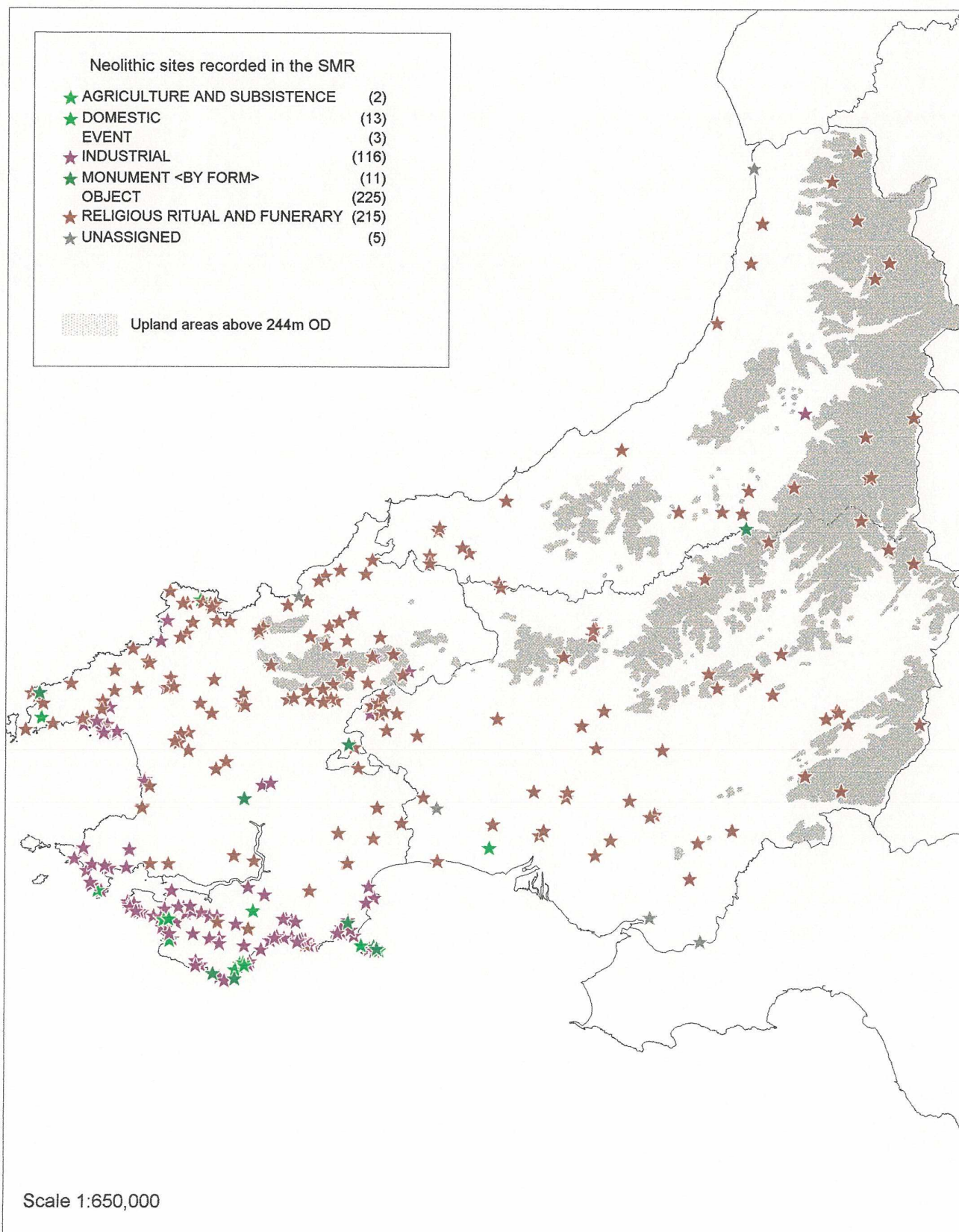
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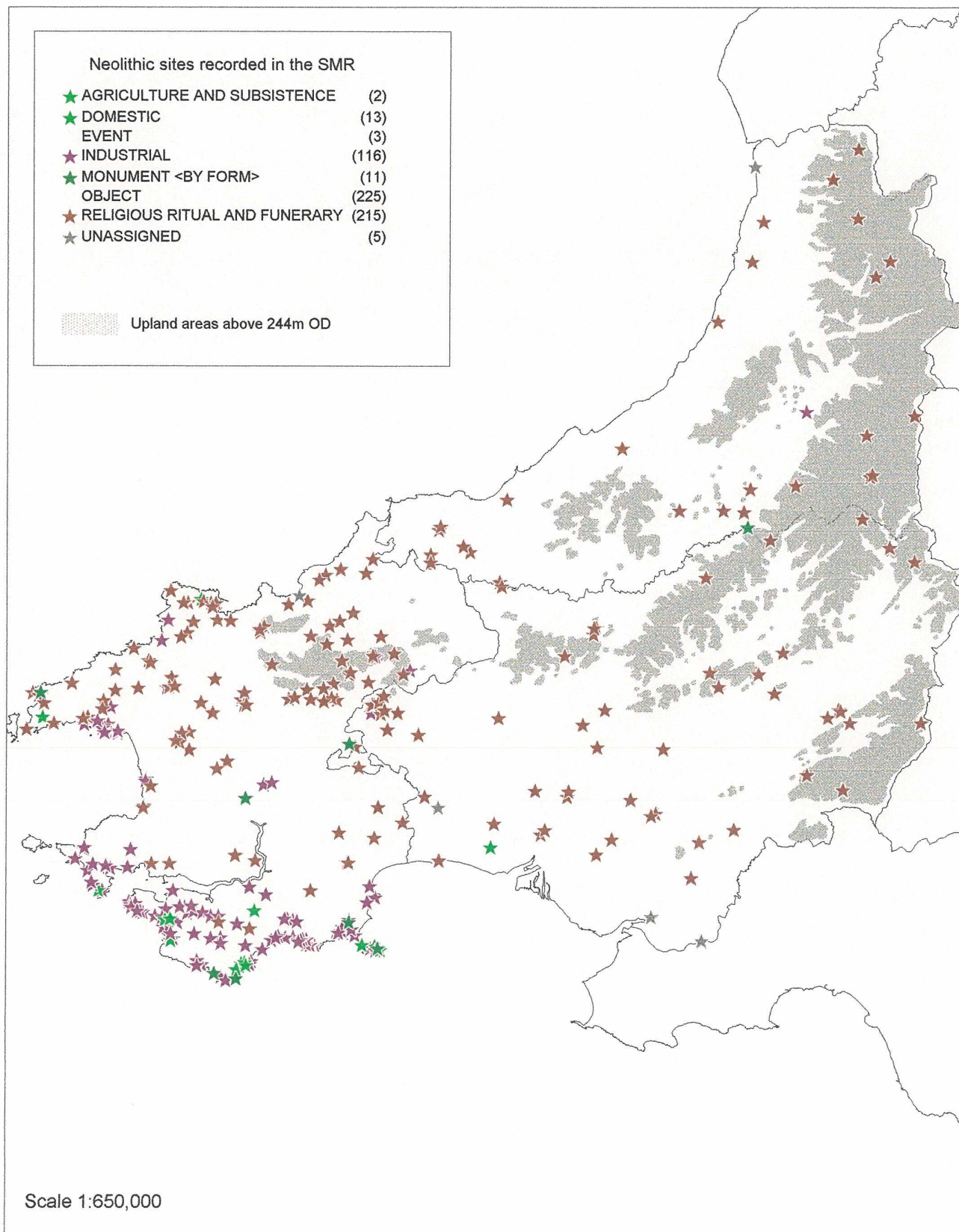
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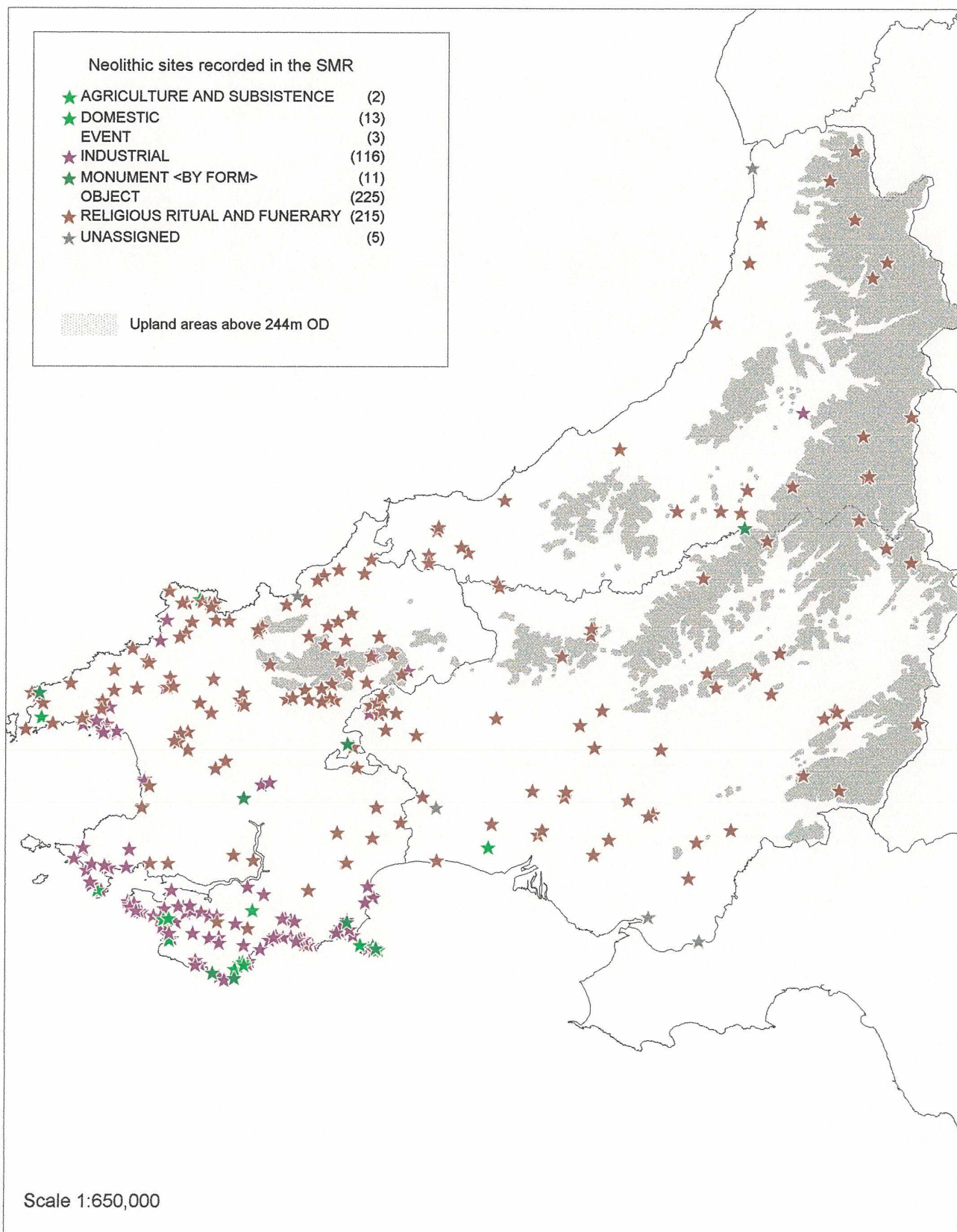
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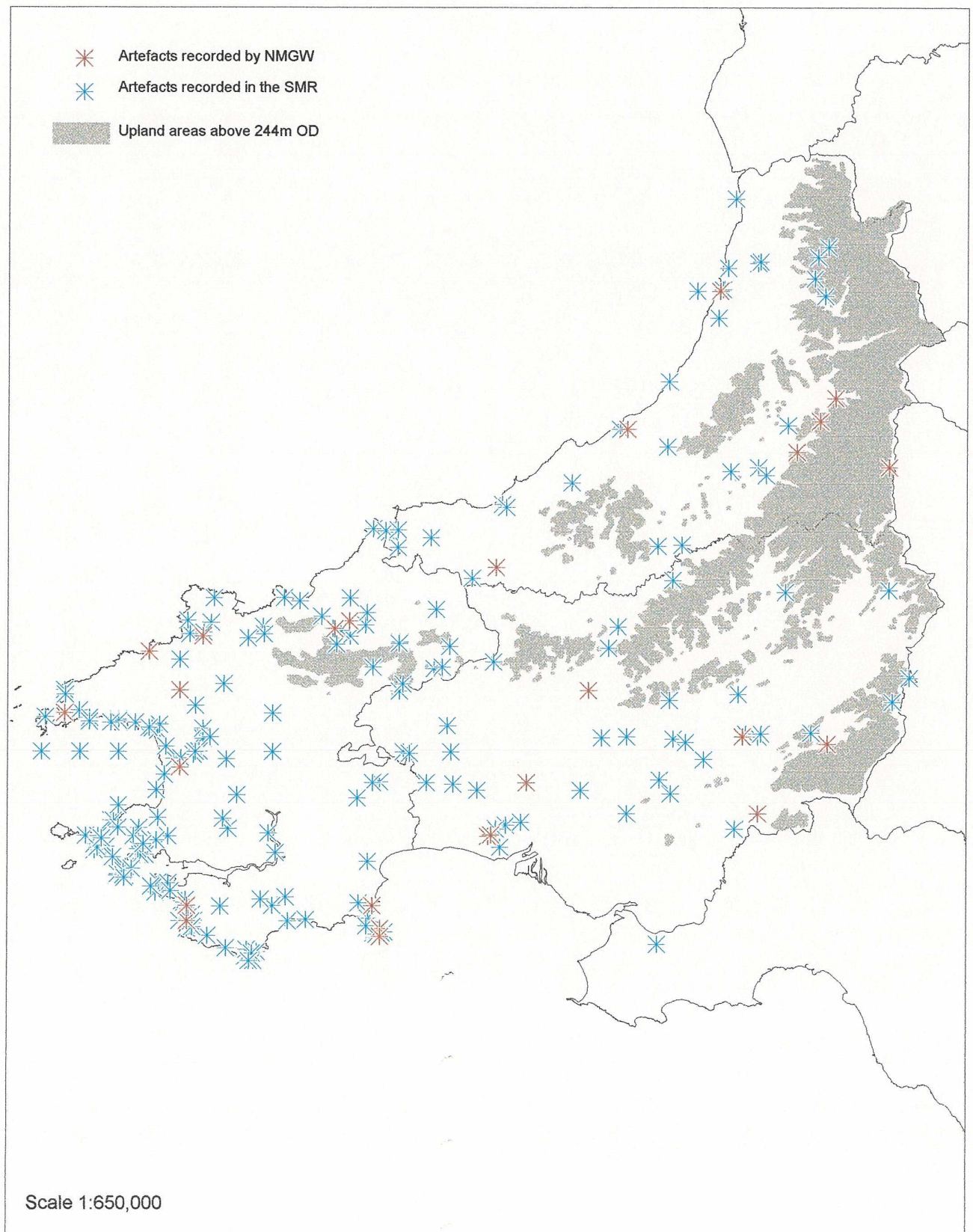
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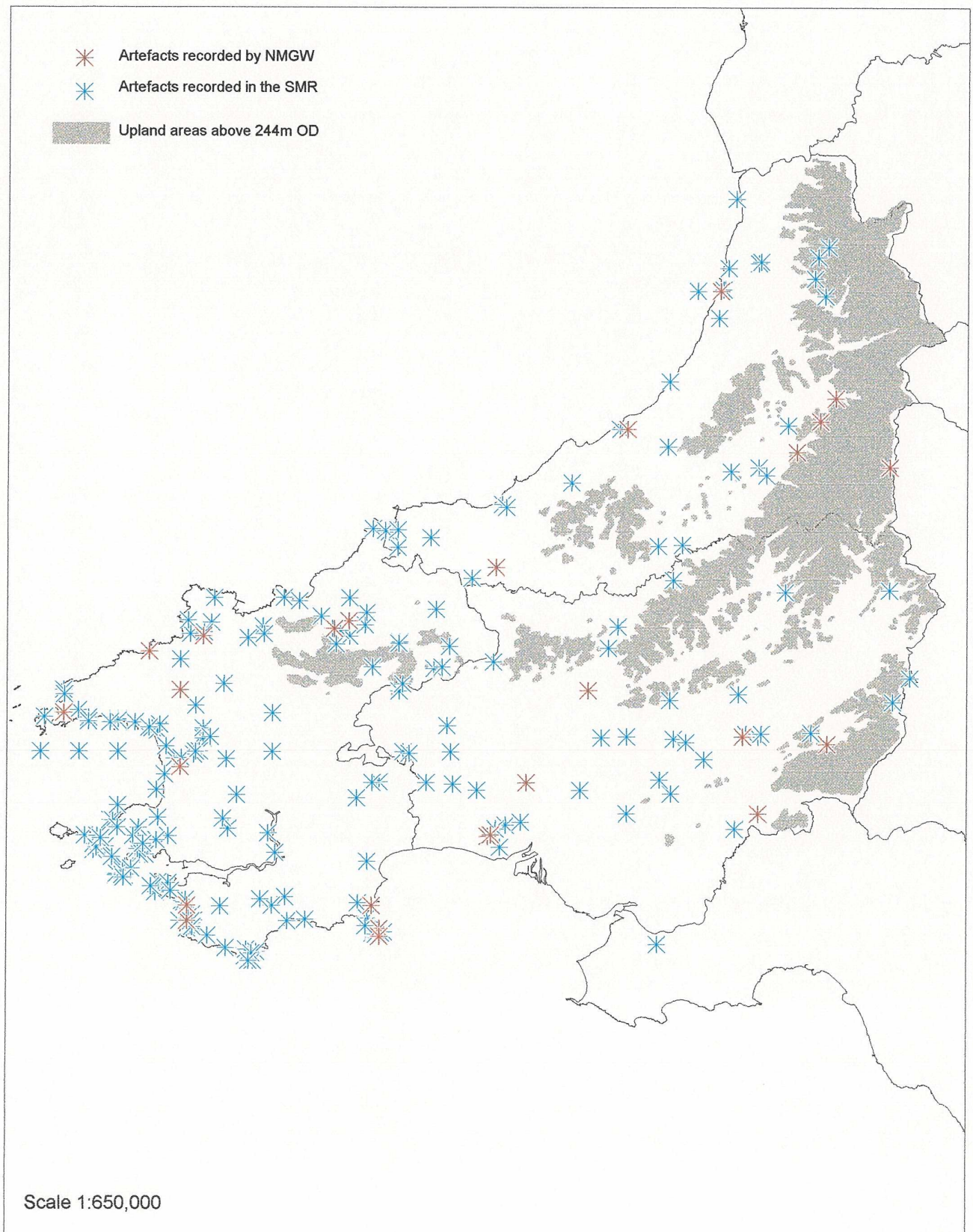
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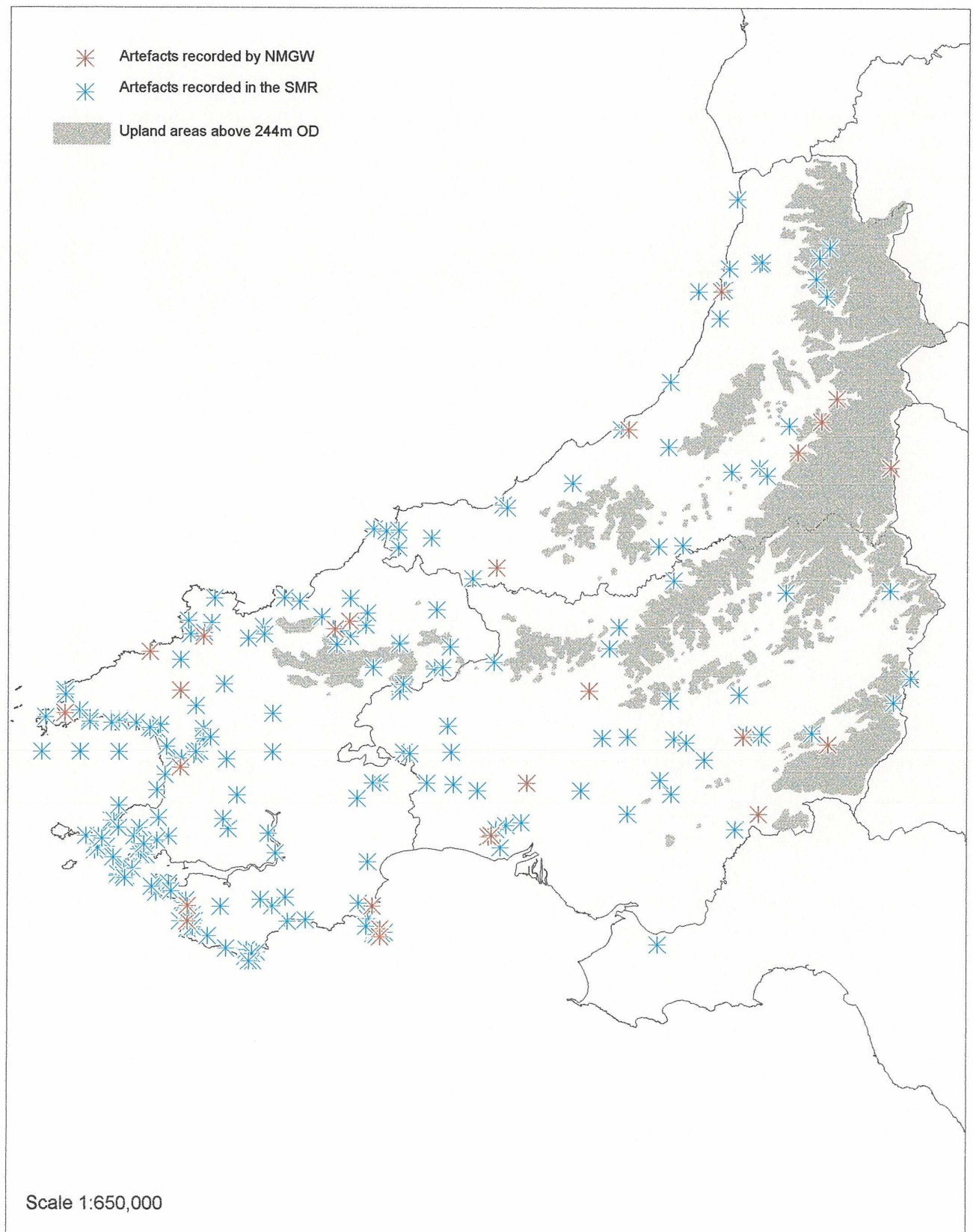
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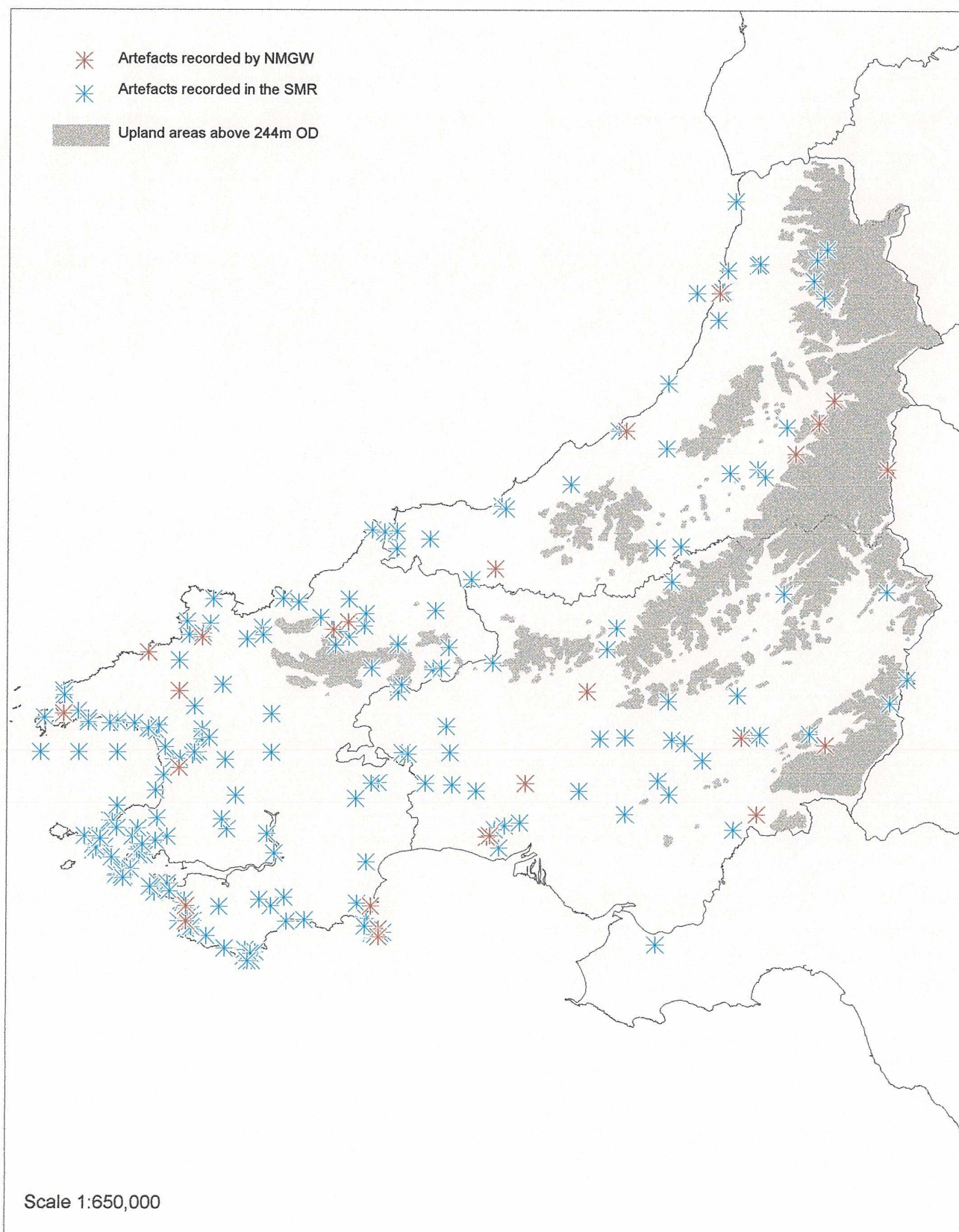
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Neolithic



Resource Audit 2002

Neolithic



Sites and Monuments Record

AGRICULTURE AND SUBSISTENCE

AGRICULTURAL CLEARANCE	2
CAIRNFIELD	4
CAIRNFIELD;MOUND GROUP	1
CLEARANCE CAIRN	155
CLEARANCE CAIRN;MOUND GROUP	1
FIELD SYSTEM	2

DOMESTIC

BURNT MOUND	10
HUT CIRCLE	1
OCCUPATION SITE	1
OPEN SETTLEMENT	4
PLATFORM	50
PLATFORM;LONGHOUSE	1
SETTLEMENT	3

EVENT

PROJECT RECORD	2
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INDUSTRIAL

FLINTWORKING FLOOR	2
METAL MINE	1

MONUMENT <BY FORM>

BOUNDARY STONE	1
CAIRN	29
CAVE	4
ENCLOSURE	3
FEATURE	1
MOUND GROUP	2
NATURAL FEATURE	1
PLATFORM	2
RING DITCH	1
STANDING STONE;BOUNDARY STONE	1

OBJECT

FINDS	210
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Sites and Monuments Record

RELIGIOUS RITUAL AND FUNERARY

ROUND BARROW PAIR	1
BARROW CEMETERY	10
BARROW CEMETERY-LINEAR	1
CAIRN	5
CAIRNFIELD	3
CHAMBERED TOMB	1
CIST	12
CIST GRAVE CEMETERY	6
CREMATION	12
CREMATION CEMETERY	2
CUP MARKED STONE	3
HENGE	4
HENGIFORM MONUMENT	1
INHUMATION	4
MEGALITHIC STRUCTURE	3
MOTTE;ROUND BARROW	1
PREHISTORIC MONUMENT COMPLEX	6
RING BARROW	40
RING CAIRN	4
RITUAL COMPLEX	1
ROUND BARROW	641
ROUND BARROW CEMETERY	6
ROUND BARROW CEMETERY-LINEAR	3
ROUND BARROW GROUP	8
ROUND BARROW GROUP-LINEAR	2
ROUND BARROW PAIR	12
ROUND BARROW;CIST	2
ROUND BARROW;NATURAL FEATURE	2
ROUND BARROW;RING BARROW	3
ROUND BARROW;RING CAIRN	1
ROUND BARROW;STANDING STONE	1
SCOOP GRAVE	43
STANDING STONE	221
STANDING STONE PAIR	3
STANDING STONE;RITUAL COMPLEX	1
STONE CIRCLE	13

Sites and Monuments Record

STONE PAIR	12
STONE ROW	4
WELL;ROUND BARROW	1

UNASSIGNED

BANK (EARTHWORK)	1
DELETED	1
DITCH	2
EARTHWORK	1
HOARD	6
PIT	1
PLATFORM	1
UNKNOWN	2
WALL	1

Total number of Bronze Age Sites
recorded in the SMR

1610

Artefact data from NMGW

			FLINT	
	hammerstone	1		1
	saddle quern	11	arrowhead	1
	sample	1	barbed and tanged arrowhead	5
	shield	5	flake	3
		1	knife	3
		19	plano convex knife	2
ANTLER			retouched blade	1
	unidentified object	1	retouched debitage	1
		1	scraper	10
				27
BONE			GOLD	
	human remains undetermined	4	bar torc	1
		4	bracelet	5
			torc	2
BRONZE				8
	axehead	1	GRITSTONE	
	blade	1	socketed chisel mould	1
	flat axe	2		1
	palstave	4		
	socketed axe	3	IGNEOUS ROCK	
		11	hammerstone	1
CHARCOAL				1
	sample	15	IRON	
		15	unidentified object	1
COPPER				1
	flat axe	1	LEAD	
	halberd	1	sample	1
		2		1
COPPER ALLOY			OPHITIC OLIVINE DOLERITE	
	bracelet	1	battle axe	1
	chisel	1		1
	dagger	1	OPHITIC OLIVINE GABBRO	
	dirk	1	battle axe	1
	flat axe	2		1
	looped palstave	1	PICRITE	
	palstave	2	axe hammer	1
	saw	1		1
	side looped socketed spearhead	2	PLASTER	
	spearhead	1	palstave	1
	unidentified object	1		1
		14	PLASTER OF PARIS	
DIABASE			miniature vessel	1
	axe hammer	1		1
		1	POTTERY	
ELECTROTYPE			base sherd	1
	flat axe	1	beaker	5
		1	body sherd	17
FELSPATHIC GRIT			bone fragments	1
	hammerstone	3	cinerary urn	8
	vessel lid	2	collared urn	14
		5	encrusted urn	1
FELSPATHIC SANDSTONE			food vessel	4
	hammerstone	1	miniature vessel	5
		1		

potsherd	26
rim sherd	1
vessel	1
	84
QUARTZ PORPHYRY	
hammerstone	1
	1
QUARTZ-GRIT	
hammerstone	3
	3
QUARTZITE	
hammerstone	2
	2
RHYOLITE	
scraper	1
	1
RHYOLITIC ASH	
retouched flake	3
	3
SANDSTONE	
burnisher	1
hammerstone	17
saddle quern	3
	21
SHALE	
unidentified object	1
	1
SLATE	
utilised object	1
	1
SOIL	
sample	24
	24
STONE	
axe hammer	1
flake	12
hammerstone	115
mortar	1
sample	9
utilised object	1
	139
VOLCANIC TUFF	
hammerstone	1
	1

Cadw funded Environmental Database

ANIMAL BONE	4
CHARCOAL	12
CHARRED PLANT MACROFOSSILS	8
MOLLUSCS	2
OTHER	1
POLLEN	8
SOIL	1
WATERLOGGED PLANT MACROFOSS	3
 Total number of environmental sites for the Bronze Age	 39

Sites and Monuments Record

AGRICULTURE AND SUBSISTENCE

STONE CIRCLE?;CLEARANCE CAIRN?	1
STONE CIRCLE?;FIELD SYSTEM	1

DOMESTIC

MIDDEN?	1
OCCUPATION SITE	8
OCCUPATION SITE?	2
SETTLEMENT	2

EVENT

PROJECT RECORD	3
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INDUSTRIAL

FLINTWORKING FLOOR	103
FLINTWORKING FLOOR?	8
STONE AXE FACTORY	2
STONE AXE FACTORY;QUARRY	1
STONE AXE FACTORY?	2

MONUMENT <BY FORM>

CAVE	7
ENCLOSURE	2
FEATURE	1
STONE CIRCLE?;STANDING STONE?	1

OBJECT

FINDS	225
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RELIGIOUS RITUAL AND FUNERARY

CHAMBERED TOMB	59
CHAMBERED TOMB CEMETERY	3
CHAMBERED TOMB CEMETERY?	1
CHAMBERED TOMB CEMETERY?;PILLOW MOUND?	1
CHAMBERED TOMB?	54
CHAMBERED TOMB?;HUT?	1
CHAMBERED TOMB?;LONG BARROW?	1
CHAMBERED TOMB?;MEGALITHIC STRUCTURE	1
CHAMBERED TOMB?;NATURAL FEATURE?	1

Sites and Monuments Record

CHAMBERED TOMB?;QUARRY WASTE?;NATURAL F	1
CHAMBERED TOMB?;ROUND BARROW?	3
CHAMBERED TOMB?;STANDING STONE;STONE GRO	1
CHAMBERED TOMB?;STANDING STONE?	7
CHAMBERED TOMB?;STANDING STONE?;NATURAL I	1
CHAMBERED TOMB?;STONE PAIR?	4
COVE?;CHAMBERED TOMB?	1
CUP MARKED STONE	1
CURSUS?	1
HENGE	4
HENGE?	4
HENGE?;HILLFORT?	3
HENGE?;SETTLEMENT?	2
HENGE?;VALLUM ENCLOSURE?	1
HENGIFORM MONUMENT	1
LONG BARROW	1
LONG BARROW?	7
MEGALITHIC STRUCTURE	3
MEGALITHIC STRUCTURE?	1
PIT CIRCLE	1
PREHISTORIC MONUMENT COMPLEX	3
RING BARROW	1
RITUAL MONUMENT?	1
STANDING STONE	1
STANDING STONE PAIR	3
STANDING STONE?;CHAMBERED TOMB?	1
STONE CIRCLE	13
STONE CIRCLE?	16
STONE CIRCLE?;COVE?	1
STONE CIRCLE?;LONG BARROW?	1
STONE CIRCLE?;MEGALITHIC STRUCTURE?	1
STONE CIRCLE?;RING BARROW?	1
STONE CIRCLE?;ROUND BARROW?	2
UNASSIGNED	
CAIRNFIELD	1
PEAT SHELF EXPOSURE	1
SUBMERGED FOREST	3

Sites and Monuments Record

Total number of Neolithic Sites
recorded in the SMR

590

Artefact data from NMGW

blade	1		367
	1	OCHRE	1
ADINOLE			1
adze sharpening flake	1		
blade	4	QUARTZ	1
core	1	chip	1
flake	2		1
	8	RHYOLITE	
BONE		adze	1
	1		1
animal remains indetermina	1	SANDSTONE	
bead	1	bevelled pebble	1
Human remains	1		1
mandible	1	SEDIMENT	1
metacarpal	1		1
patella	2		
phalange	1		
tooth	1	SHELL	2
	10	shell	2
CHARCOAL		STONE	1
sample	1		1
	1	bevelled pebble	1
CHERT		blade	3
blade	3		
core	3		
crescent	1	TOOTH	1
knapping debitage	2		1
microburin	1		
microlith	6		1
	16		
FLINT			
adze	1		
awl	4		
backed blade	1		
blade	56		
blade core	12		
burin	6		
chip	2		
core	39		
core rejuvenation flake	2		
denticulate blade	1		
flake	12		
knapping debitage	4		
knife	1		
leaf shaped arrowhead	1		
microburin	19		
microlith	109		
mPche de foret	9		
retouched blade	3		
retouched debitage	3		
retouched flake	2		
retouched point	1		
scraper	76		
truncated blade	2		
utilised object	1		

Cadw funded Environmental Database

ANIMAL BONE	8
CHARCOAL	1
MOLLUSCS	4
POLLEN	2
SOIL	2

Total number of environmental sites for the Neolithic period	17
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Sites and Monuments Record

MONUMENT <BY FORM>

CAVE	11
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UNASSIGNED

RAISED BEACH	2
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Total number of Palaeolithic Sites
recorded in the SMR

13

Sites and Monuments Record

MONUMENT <BY FORM>

CAVE	11
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UNASSIGNED

RAISED BEACH	2
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Total number of Palaeolithic Sites recorded in the SMR	13
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Sites and Monuments Record

MONUMENT <BY FORM>

CAVE	11
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UNASSIGNED

RAISED BEACH	2
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Total number of Palaeolithic Sites
recorded in the SMR

13

Artefact data from NMGW

	3	lunate (right)	1
blade	1	magnum (left)	1
chip	1	mandible	22
flake	1	mandible (left)	11
		mandible (right)	10
	6	mandibular ramus	4
ADINOLE		maxilla	3
backed blade	1	maxilla (left)	5
blade	5	maxilla (right)	6
chip	10	metacarpal	18
flake	14	metacarpal (left)	3
retouched blade	3	metacarpal (right)	3
scraper	1	metacarpal II left	1
	34	metacarpal II right	3
		metacarpal III left	2
ANTLER		metacarpal III right	3
antler	80	metacarpal IV left	1
	80	metacarpal IV right	1
BONE		metapodial	42
animal remains indetermina	507	metatarsal	9
animal remains undetermine	241	metatarsal (right)	1
antler	1	metatarsal III right	1
astragalus	38	metatarsal IV right	1
astragalus (left)	7	metatarsal V right	3
astragalus (right)	4	navicular	1
atlas	4	navicular (left)	1
axis	2	navicular-cuboid (left)	1
beak	1	parietal	1
calcaneum	29	patella	3
calcaneum (left)	5	pelvis	16
calcaneum (right)	1	pelvis (left)	3
carpal	3	pelvis (right)	4
carpometacarpal	4	phalange	72
carpometacarpal (right)	2	pisiform	2
caudal vertebra	2	podial	22
cervical	2	premaxilla	2
clavicle	1	premolar	1
coprolite	1	radius	20
coracoid (left)	5	radius (left)	19
coracoid (right)	5	radius (right)	8
cranium	11	rib	18
cuboid	1	sacrum	3
cubo-navicular	1	scaphoid (right)	1
cuneiform	3	scapholunar	4
cuneiform (left)	2	scapholunar (left)	1
cuneiform (right)	1	scapholunar (right)	2
femur	12	scapula	16
femur (left)	15	scapula (left)	5
femur (right)	13	scapula (right)	3
fibula	1	second phalange	9
first phalange	20	second phalange (left)	1
first phalange (left)	5	second phalange (right)	4
first phalange (right)	5	sesamoid	2
frontal bone	1	sternum	3
humerus	30	tarsal	6
humerus (left)	17	tarsometatarsus (left)	1
humerus (right)	23	tarsometatarsus (right)	3
ilium	2	third phalange	9
ilium (left)	4	thoracic	1
lumbar	6	tibia	22
lunar	1	tibia (left)	13
		tibia (right)	6
		tibiotarsus	3

tibiotarsus (right)	3		
tooth	1		1
ulna	10	SHELL	
ulna (left)	6	bead	1
ulna (right)	8		1
unciform (right)	1	SOIL	
vertebra	38	sample	1
	1573		1
CHARCOAL		STONE	
sample	1		2
	1	flake	1
CHERT			3
backed blade	1	TOOTH	
blade	1	animal remains indetermina	1
chip	1	animal remains undetermine	1
flake	3	canine	190
	6	deciduous tooth	1
COPROLITE		first molar	1
coprolite	86	fourth left premolar	3
	86	fourth right premolar	5
DIORITE		incisor	93
handaxe	1	lower 1st left molar	26
	1	lower 1st molar	68
FLINT		lower 1st right molar	18
	1	lower 2nd left molar	4
awl	1	lower 2nd left premolar	6
backed blade	28	lower 2nd molar	1
blade	108	lower 2nd premolar	1
burin	5	lower 2nd right incisor	1
burin spall	6	lower 2nd right molar	9
chip	26	lower 2nd right premolar	9
core	2	lower 3rd incisor	3
core rejuvenation flake	2	lower 3rd left molar	9
crested blade	1	lower 3rd left premolar	11
flake	36	lower 3rd molar	3
knapping debitage	5	lower 3rd premolar	7
microburin	1	lower 3rd right incisor	9
penknife point	4	lower 3rd right molar	8
point	5	lower 3rd right premolar	7
retouched blade	5	lower 4th left premolar	16
retouched flake	1	lower 4th premolar	76
scraper	5	lower 4th right premolar	16
utilised object	1	lower left canine	12
	243	lower left incisor	6
IVORY		lower left molar	6
tusk	18	lower left premolar	8
	18	lower molar	69
PLASTER OF PARIS		lower premolar	1
flake	1	lower right canine	12
handaxe	1	lower right incisor	1
retouched blade	1	lower right molar	6
	3	lower right premolar	2
RESIN		mandible	49
blade	1	mandible (left)	9
burin	2	mandible (right)	9
flake	2	maxilla	23
	5	maxilla (left)	1
RHYOLITE		maxilla (right)	1
handaxe	1	molar	458
		premolar	9
		second left premolar	1
		second premolar	35
		third left premolar	2
		third premolar	92

third premolar (right)	5
tooth	187
upper 1st left incisor	1
upper 1st left molar	15
upper 1st molar	3
upper 1st premolar	1
upper 1st right incisor	3
upper 1st right molar	21
upper 1st right premolar	1
upper 2nd left incisor	2
upper 2nd left molar	3
upper 2nd left premolar	12
upper 2nd molar	4
upper 2nd right incisor	3
upper 2nd right molar	5
upper 2nd right premolar	10
upper 3rd incisor	63
upper 3rd left incisor	4
upper 3rd left molar	6
upper 3rd left premolar	25
upper 3rd molar	4
upper 3rd right incisor	1
upper 3rd right molar	15
upper 3rd right premolar	34
upper 4th left premolar	9
upper 4th right premolar	12
upper left canine	8
upper left premolar	8
upper molar	85
upper right canine	9
upper right premolar	7

1981

Artefact data from NMGW

	3	lunate (right)	1
blade	1	magnum (left)	1
chip	1	mandible	22
flake	1	mandible (left)	11
		mandible (right)	10
	6	mandibular ramus	4
ADINOLE		maxilla	3
backed blade	1	maxilla (left)	5
blade	5	maxilla (right)	6
chip	10	metacarpal	18
flake	14	metacarpal (left)	3
retouched blade	3	metacarpal (right)	3
scraper	1	metacarpal II left	1
	34	metacarpal II right	3
ANTLER		metacarpal III left	2
antler	80	metacarpal III right	3
	80	metacarpal IV left	1
BONE		metacarpal IV right	1
animal remains indetermina	507	metapodial	42
animal remains undetermine	241	metatarsal	9
antler	1	metatarsal (right)	1
astragalus	38	metatarsal III right	1
astragalus (left)	7	metatarsal IV right	1
astragalus (right)	4	metatarsal V right	3
atlas	4	navicular	1
axis	2	navicular (left)	1
beak	1	navicular-cuboid (left)	1
calcaneum	29	parietal	1
calcaneum (left)	5	patella	3
calcaneum (right)	1	pelvis	16
carpal	3	pelvis (left)	3
carpometacarpal	4	pelvis (right)	4
carpometacarpal (right)	2	phalange	72
caudal vertebra	2	pisiform	2
cervical	2	podial	22
clavicle	1	premaxilla	2
coprolite	1	premolar	1
coracoid (left)	5	radius	20
coracoid (right)	5	radius (left)	19
cranium	11	radius (right)	8
cuboid	1	rib	18
cubo-navicular	1	sacrum	3
cuneiform	3	scaphoid (right)	1
cuneiform (left)	2	scapholunar	4
cuneiform (right)	1	scapholunar (left)	1
femur	12	scapholunar (right)	2
femur (left)	15	scapula	16
femur (right)	13	scapula (left)	5
fibula	1	scapula (right)	3
first phalange	20	second phalange	9
first phalange (left)	5	second phalange (left)	1
first phalange (right)	5	second phalange (right)	4
frontal bone	1	sesamoid	2
humerus	30	sternum	3
humerus (left)	17	tarsal	6
humerus (right)	23	tarsometatarsus (left)	1
ilium	2	tarsometatarsus (right)	3
ilium (left)	4	third phalange	9
lumbar	6	thoracic	1
lunar	1	tibia	22
		tibia (left)	13
		tibia (right)	6
		tibiotarsus	3

tibiotarsus (right)	3		
tooth	1		1
ulna	10	SHELL	
ulna (left)	6	bead	1
ulna (right)	8		1
unciform (right)	1	SOIL	
vertebra	38	sample	1
	1573		1
CHARCOAL		STONE	
sample	1		2
	1	flake	1
CHERT			3
backed blade	1	TOOTH	
blade	1	animal remains indetermina	1
chip	1	animal remains undetermine	1
flake	3	canine	190
	6	deciduous tooth	1
COPROLITE		first molar	1
coprolite	86	fourth left premolar	3
	86	fourth right premolar	5
DIORITE		incisor	93
handaxe	1	lower 1st left molar	26
	1	lower 1st molar	68
FLINT		lower 1st right molar	18
	1	lower 2nd left molar	4
awl	1	lower 2nd left premolar	6
backed blade	28	lower 2nd molar	1
blade	108	lower 2nd premolar	1
burin	5	lower 2nd right incisor	1
burin spall	6	lower 2nd right molar	9
chip	26	lower 2nd right premolar	9
core	2	lower 3rd incisor	3
core rejuvenation flake	2	lower 3rd left molar	9
crested blade	1	lower 3rd left premolar	11
flake	36	lower 3rd molar	3
knapping debitage	5	lower 3rd premolar	7
microburin	1	lower 3rd right incisor	9
penknife point	4	lower 3rd right molar	8
point	5	lower 3rd right premolar	7
retouched blade	5	lower 4th left premolar	16
retouched flake	1	lower 4th premolar	76
scraper	5	lower 4th right premolar	16
utilised object	1	lower left canine	12
	243	lower left incisor	6
IVORY		lower left molar	6
tusk	18	lower left premolar	8
	18	lower molar	69
PLASTER OF PARIS		lower premolar	1
flake	1	lower right canine	12
handaxe	1	lower right incisor	1
retouched blade	1	lower right molar	6
	3	lower right premolar	2
RESIN		mandible	49
blade	1	mandible (left)	9
burin	2	mandible (right)	9
flake	2	maxilla	23
	5	maxilla (left)	1
RHYOLITE		maxilla (right)	1
handaxe	1	molar	458
		premolar	9
		second left premolar	1
		second premolar	35
		third left premolar	2
		third premolar	92

third premolar (right)	5
tooth	187
upper 1st left incisor	1
upper 1st left molar	15
upper 1st molar	3
upper 1st premolar	1
upper 1st right incisor	3
upper 1st right molar	21
upper 1st right premolar	1
upper 2nd left incisor	2
upper 2nd left molar	3
upper 2nd left premolar	12
upper 2nd molar	4
upper 2nd right incisor	3
upper 2nd right molar	5
upper 2nd right premolar	10
upper 3rd incisor	63
upper 3rd left incisor	4
upper 3rd left molar	6
upper 3rd left premolar	25
upper 3rd molar	4
upper 3rd right incisor	1
upper 3rd right molar	15
upper 3rd right premolar	34
upper 4th left premolar	9
upper 4th right premolar	12
upper left canine	8
upper left premolar	8
upper molar	85
upper right canine	9
upper right premolar	7

1981

Artefact data from NMGW

	3	lunate (right)	1
blade	1	magnum (left)	1
chip	1	mandible	22
flake	1	mandible (left)	11
		mandible (right)	10
	6	mandibular ramus	4
ADINOLE		maxilla	3
backed blade	1	maxilla (left)	5
blade	5	maxilla (right)	6
chip	10	metacarpal	18
flake	14	metacarpal (left)	3
retouched blade	3	metacarpal (right)	3
scraper	1	metacarpal II left	1
	34	metacarpal II right	3
		metacarpal III left	2
ANTLER		metacarpal III right	3
antler	80	metacarpal IV left	1
	80	metacarpal IV right	1
BONE		metapodial	42
animal remains indetermina	507	metatarsal	9
animal remains undetermine	241	metatarsal (right)	1
antler	1	metatarsal III right	1
astragalus	38	metatarsal IV right	1
astragalus (left)	7	metatarsal V right	3
astragalus (right)	4	navicular	1
atlas	4	navicular (left)	1
axis	2	navicular-cuboid (left)	1
beak	1	parietal	1
calcaneum	29	patella	3
calcaneum (left)	5	pelvis	16
calcaneum (right)	1	pelvis (left)	3
carpal	3	pelvis (right)	4
carpometacarpal	4	phalange	72
carpometacarpal (right)	2	pisiform	2
caudal vertebra	2	podial	22
cervical	2	premaxilla	2
clavicle	1	premolar	1
coprolite	1	radius	20
coracoid (left)	5	radius (left)	19
coracoid (right)	5	radius (right)	8
cranium	11	rib	18
cuboid	1	sacrum	3
cubo-navicular	1	scaphoid (right)	1
cuneiform	3	scapholunar	4
cuneiform (left)	2	scapholunar (left)	1
cuneiform (right)	1	scapholunar (right)	2
femur	12	scapula	16
femur (left)	15	scapula (left)	5
femur (right)	13	scapula (right)	3
fibula	1	second phalange	9
first phalange	20	second phalange (left)	1
first phalange (left)	5	second phalange (right)	4
first phalange (right)	5	sesamoid	2
frontal bone	1	sternum	3
humerus	30	tarsal	6
humerus (left)	17	tarsometatarsus (left)	1
humerus (right)	23	tarsometatarsus (right)	3
ilium	2	third phalange	9
ilium (left)	4	thoracic	1
lumbar	6	tibia	22
lunar	1	tibia (left)	13
		tibia (right)	6
		tibiotarsus	3

tibiotarsus (right)	3		
tooth	1		1
ulna	10	SHELL	
ulna (left)	6	bead	1
ulna (right)	8		1
unciform (right)	1	SOIL	
vertebra	38	sample	1
	1573		1
CHARCOAL		STONE	
sample	1		2
	1	flake	1
CHERT			3
backed blade	1	TOOTH	
blade	1	animal remains indetermina	1
chip	1	animal remains undetermine	1
flake	3	canine	190
	6	deciduous tooth	1
COPROLITE		first molar	1
coprolite	86	fourth left premolar	3
	86	fourth right premolar	5
DIORITE		incisor	93
handaxe	1	lower 1st left molar	26
	1	lower 1st molar	68
FLINT		lower 1st right molar	18
	1	lower 2nd left molar	4
awl	1	lower 2nd left premolar	6
backed blade	28	lower 2nd molar	1
blade	108	lower 2nd premolar	1
burin	5	lower 2nd right incisor	1
burin spall	6	lower 2nd right molar	9
chip	26	lower 2nd right premolar	9
core	2	lower 3rd incisor	3
core rejuvenation flake	2	lower 3rd left molar	9
crested blade	1	lower 3rd left premolar	11
flake	36	lower 3rd molar	3
knapping debitage	5	lower 3rd premolar	7
microburin	1	lower 3rd right incisor	9
penknife point	4	lower 3rd right molar	8
point	5	lower 3rd right premolar	7
retouched blade	5	lower 4th left premolar	16
retouched flake	1	lower 4th premolar	76
scraper	5	lower 4th right premolar	16
utilised object	1	lower left canine	12
	243	lower left incisor	6
IVORY		lower left molar	6
tusk	18	lower left premolar	8
	18	lower molar	69
PLASTER OF PARIS		lower premolar	1
flake	1	lower right canine	12
handaxe	1	lower right incisor	1
retouched blade	1	lower right molar	6
	3	lower right premolar	2
RESIN		mandible	49
blade	1	mandible (left)	9
burin	2	mandible (right)	9
flake	2	maxilla	23
	5	maxilla (left)	1
RHYOLITE		maxilla (right)	1
handaxe	1	molar	458
		premolar	9
		second left premolar	1
		second premolar	35
		third left premolar	2
		third premolar	92

third premolar (right)	5
tooth	187
upper 1st left incisor	1
upper 1st left molar	15
upper 1st molar	3
upper 1st premolar	1
upper 1st right incisor	3
upper 1st right molar	21
upper 1st right premolar	1
upper 2nd left incisor	2
upper 2nd left molar	3
upper 2nd left premolar	12
upper 2nd molar	4
upper 2nd right incisor	3
upper 2nd right molar	5
upper 2nd right premolar	10
upper 3rd incisor	63
upper 3rd left incisor	4
upper 3rd left molar	6
upper 3rd left premolar	25
upper 3rd molar	4
upper 3rd right incisor	1
upper 3rd right molar	15
upper 3rd right premolar	34
upper 4th left premolar	9
upper 4th right premolar	12
upper left canine	8
upper left premolar	8
upper molar	85
upper right canine	9
upper right premolar	7

1981

Cadw funded Environmental Database

ANIMAL BONE	10
MOLLUSCS	1
POLLEN	2
SEDIMENT	1

Total number of environmental sites for the palaeolithic period	14
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Cadw funded Environmental Database

ANIMAL BONE	10
MOLLUSCS	1
POLLEN	2
SEDIMENT	1

Total number of environmental sites for the palaeolithic period	14
--	----

Cadw funded Environmental Database

ANIMAL BONE	10
MOLLUSCS	1
POLLEN	2
SEDIMENT	1

Total number of environmental sites for the palaeolithic period	14
--	----

Sites and Monuments Record

DOMESTIC

OCCUPATION SITE	11
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EVENT

PROJECT RECORD	1
----------------	---

INDUSTRIAL

FLINTWORKING FLOOR	128
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FLINTWORKING FLOOR?	7
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MONUMENT <BY FORM>

CAVE	6
------	---

OBJECT

FINDS	138
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UNASSIGNED

PEAT SHELF EXPOSURE	3
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SUBMERGED FOREST	2
------------------	---

Total number of Mesolithic Sites recorded in the SMR	296
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Sites and Monuments Record

DOMESTIC

OCCUPATION SITE	11
-----------------	----

EVENT

PROJECT RECORD	1
----------------	---

INDUSTRIAL

FLINTWORKING FLOOR	128
--------------------	-----

FLINTWORKING FLOOR?	7
---------------------	---

MONUMENT <BY FORM>

CAVE	6
------	---

OBJECT

FINDS	138
-------	-----

UNASSIGNED

PEAT SHELF EXPOSURE	3
---------------------	---

SUBMERGED FOREST	2
------------------	---

Total number of Mesolithic Sites recorded in the SMR	296
---	-----

Sites and Monuments Record

DOMESTIC

OCCUPATION SITE	11
-----------------	----

EVENT

PROJECT RECORD	1
----------------	---

INDUSTRIAL

FLINTWORKING FLOOR	128
--------------------	-----

FLINTWORKING FLOOR?	7
---------------------	---

MONUMENT <BY FORM>

CAVE	6
------	---

OBJECT

FINDS	138
-------	-----

UNASSIGNED

PEAT SHELF EXPOSURE	3
---------------------	---

SUBMERGED FOREST	2
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Total number of Mesolithic Sites recorded in the SMR	296
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Artefact data from NMGW

blade	1	OCHRE	1
	1		1
ADINOLE		QUARTZ	
adze sharpening flake	1	chip	1
blade	4		1
core	1	RHYOLITE	
flake	2	adze	1
	8		1
BONE		SANDSTONE	
animal remains indetermina	1	bevelled pebble	1
bead	1		1
Human remains	1	SEDIMENT	
mandible	1		1
metacarpal	1		1
patella	2	SHELL	
phalange	1	shell	2
tooth	1		2
	10	STONE	
CHARCOAL			1
sample	1	bevelled pebble	1
	1	blade	1
CHERT			3
blade	3	TOOTH	
core	3		1
crescent	1		1
knapping debitage	2		
microburin	1		
microlith	6		
	16		
FLINT			
adze	1		
awl	4		
backed blade	1		
blade	56		
blade core	12		
burin	6		
chip	2		
core	39		
core rejuvenation flake	2		
denticulate blade	1		
flake	12		
knapping debitage	4		
knife	1		
leaf shaped arrowhead	1		
microburin	19		
microlith	109		
mPche de foret	9		
retouched blade	3		
retouched debitage	3		
retouched flake	2		
retouched point	1		
scraper	76		
truncated blade	2		
utilised object	1		
	367		

Artefact data from NMGW

blade	1	OCHRE	1
	1		1
ADINOLE		QUARTZ	
adze sharpening flake	1	chip	1
blade	4		1
core	1	RHYOLITE	
flake	2	adze	1
	8		1
BONE		SANDSTONE	
	1	bevelled pebble	1
animal remains indetermina	1		1
bead	1	SEDIMENT	
Human remains	1		1
mandible	1		1
metacarpal	1	SHELL	
patella	2	shell	2
phalange	1		2
tooth	1		
	10	STONE	
CHARCOAL			1
sample	1	bevelled pebble	1
	1	blade	1
CHERT			3
blade	3	TOOTH	
core	3		1
crescent	1		1
knapping debitage	2		
microburin	1		
microlith	6		
	16		
FLINT			
adze	1		
awl	4		
backed blade	1		
blade	56		
blade core	12		
burin	6		
chip	2		
core	39		
core rejuvenation flake	2		
denticulate blade	1		
flake	12		
knapping debitage	4		
knife	1		
leaf shaped arrowhead	1		
microburin	19		
microlith	109		
mPche de foret	9		
retouched blade	3		
retouched debitage	3		
retouched flake	2		
retouched point	1		
scraper	76		
truncated blade	2		
utilised object	1		

367

Artefact data from NMGW

blade	1	OCHRE	1
	1		1
ADINOLE		QUARTZ	
adze sharpening flake	1	chip	1
blade	4		1
core	1	RHYOLITE	
flake	2	adze	1
	8		1
BONE		SANDSTONE	
	1	bevelled pebble	1
animal remains indetermina	1		1
bead	1	SEDIMENT	
Human remains	1		1
mandible	1		1
metacarpal	1	SHELL	
patella	2	shell	2
phalange	1		2
tooth	1		
	10	STONE	
CHARCOAL			1
sample	1	bevelled pebble	1
	1	blade	1
CHERT			3
blade	3	TOOTH	
core	3		1
crescent	1		1
knapping debitage	2		
microburin	1		
microlith	6		
	16		
FLINT			
adze	1		
awl	4		
backed blade	1		
blade	56		
blade core	12		
burin	6		
chip	2		
core	39		
core rejuvenation flake	2		
denticulate blade	1		
flake	12		
knapping debitage	4		
knife	1		
leaf shaped arrowhead	1		
microburin	19		
microlith	109		
mPche de foret	9		
retouched blade	3		
retouched debitage	3		
retouched flake	2		
retouched point	1		
scraper	76		
truncated blade	2		
utilised object	1		
	367		

Cadw funded Environmental Database

ANIMAL BONE	8
CHARCOAL	1
MOLLUSCS	4
POLLEN	2
SOIL	2

Total number of environmental sites for the Mesolithic period	17
--	----

Cadw funded Environmental Database

ANIMAL BONE	8
CHARCOAL	1
MOLLUSCS	4
POLLEN	2
SOIL	2

Total number of environmental sites for the Mesolithic period	17
--	----

Cadw funded Environmental Database

ANIMAL BONE	8
CHARCOAL	1
MOLLUSCS	4
POLLEN	2
SOIL	2

Total number of environmental sites for the Mesolithic period	17
--	----

Prehist x 5.

Neo ERA x 2.

LBA IA x 3

EM x 2

R-B x 2.

Med. x 3

Post Med x 3

Cadw funded Environmental Database

ANIMAL BONE	1
CHARCOAL	1
CHARRED PLANT MACROFOSSILS	2
SOIL	1

Total number of environmental sites for the Prehistoric period	5
---	---

Artefact data from NMGW

COPPER ALLOY

balance	1
pendant	1
ring pin	1
sheet	1
vessel foot	1

5

FIRED CLAY

floor tile	144
------------	-----

144

GOLD

coin	1
finger ring	1

2

IRON

nail	3
------	---

3

LEAD

syringe	1
---------	---

1

LEAD ALLOY

ampulla	1
---------	---

1

POTTERY

handle	1
potsherd	22

23

SILICONE RUBBER

seal impression	3
-----------------	---

3

SILVER

coin	3
pin	1

4

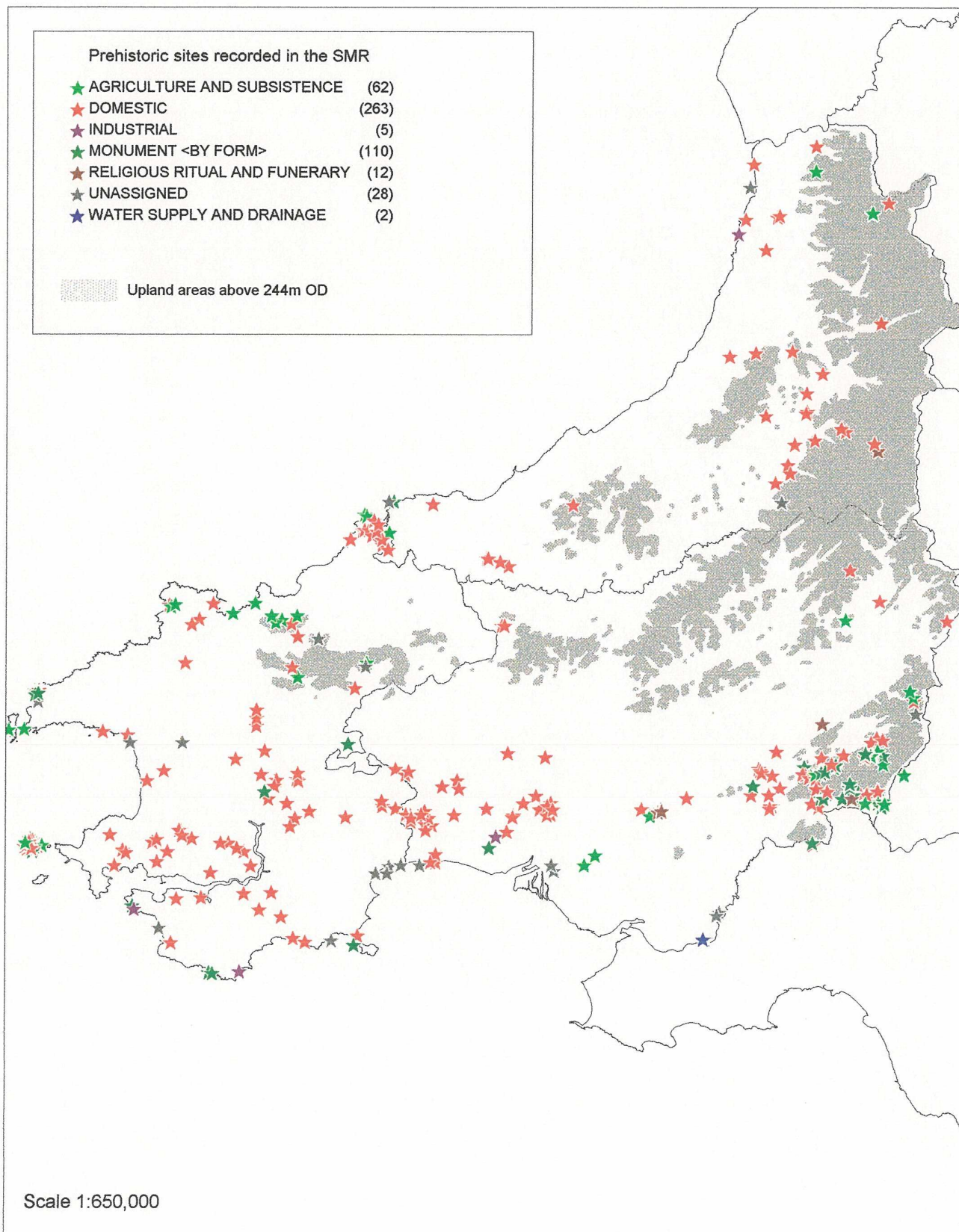
STONE

spindle whorl	1
---------------	---

1

Resource Audit 2002

Prehistoric



Resource Audit 2002

Prehistoric

