

# Babbacombe Bay, Devon

**Record ID** 453

**Authors**

Callow, W, Baker, M. and Hassall, G.

**Year**

1966

**Location description**

Off Teignmouth

**Deposit location**

50deg31'30"N Lat, 3deg25'00" W Long  
[converted SX 99593 70493]

**Deposit description**

Peat layer 5 cm thick underlying 74 cm of estuarine clay and 100 cm of sand.

**Deposit stratigraphy**

**Associated artefacts**

**Early work**

**Sample method**

Offshore core

**Depth of deposit**

**14C ages available**

Yes

**Notes**

Collected 1964 and submitted by RH Clarke, University of Bristol. Pollen analysis suggests start of Zone VIa.

## 14C details

**ID** 321

**Laboratory code** NPL-86

<b>Sample location</b>	<b>Depth of sample</b>	<b>Dated sample description</b>
[SX 99593 70493] [converted]	c. -78 ft OD [c. 23.77 m OD]	Peat.
<b>Age (uncal)</b>	<b>Age (cal)</b>	<b>Delta 13C</b>
8580 +830/-755	6630 BC	

### Notes

Sample apparently underlain by a (terrestrial) soil i.e. suggesting onset of brackish conditions.

### Bibliographic reference

Callow, W, Baker, M. and Hassall, G. 1966 'National Physical Laboratory Radiocarbon measurements IV', Radiocarbon, 8, 340-347.

# Babbacombe Bay, Devon

**Record ID** 461

**Authors**

Clarke, R.

**Year**

1970

**Location description**

Off Teignmouth.

**Deposit location**

**Deposit description**

Peat bed.

**Deposit stratigraphy**

**Associated artefacts**

**Early work**

**Sample method**

**Depth of deposit**

**<sup>14</sup>C ages available**

Yes

**Notes**

**Subsite details**

**ID** 100

**Location**

**Depth**

173-178 cm depth. [Sea bed: c.11 fathoms below chart zero (-6ft OD)]

**Description**

Core 2 (offshore). Black, fissile, in situ peat bed containing fragmentary, humified plant remains. Saltmarsh deposit. Sharp upper contact with mud. Gradual lower transition with organic mud. Mud had high tree pollen.

## 14C details

ID 329

Laboratory code NPL-86

**Sample location**

**Depth of sample**

**Dated sample description**

-23.8 m OD

**Age (uncal)**

**Age (cal)**

**Delta 13C**

8580 +830/-755 years BP  
Core 2.

## Bibliographic reference

Clarke, R. 1970 'Quaternary sediments off south-east Devon', Quarterly Journal of the Geological Society of London, 125, 277-318.

# Bantham Sands, Devon

**Record ID** 660

## **Authors**

Massey, A, Gehrels, W.R, Charman, D, Milne, G, Peltier, W.R, Lambeck, K. and Selby, K.

## **Year**

2008

## **Location description**

Behind dune system

## **Deposit location**

## **Deposit description**

Wood and peat dominate in uppermost sediments.

## **Deposit stratigraphy**

The peat layer rests on clay and silt, which is on top of fractured slates. Core BA-97-2 - the peat layer is capped by windblown fine sand from dunes.

## **Associated artefacts**

## **Early work**

Sample method. Coring

## **Depth of deposit**

## **<sup>14</sup>C ages available**

No

## **Notes**

## **Subsite details**

**ID** 268

## **Location**

[SZ 66428 43574 from map]

## **Depth**

Peat layer from c. +0.5 to +4 m OD [from core log]

## **Description**

Core BA-97-1

**ID** 269

**Location**

[SZ 66431 43630 from map]

**Depth**

Peat layer from c. -0.5 to +1 m OD [from core log]

**Description**

Core BA-97-2

**Bibliographic reference**

Massey, A, Gehrels, W.R, Charman, D, Milne, G, Peltier, W.R, Lambeck, K. and Selby, K. 2008 'Relative sea-level change and postglacial isostatic adjustment along the coast of south Devon, United Kingdom', *Journal of Quaternary Science*, 23(5), 415-433.

# Barnstaple Bay, Devon

Record ID 313

## Authors

Ellis, H.

## Year

1867a/1866

## Location description

## Deposit location

## Deposit description

## Deposit stratigraphy

## Associated artefacts

Elephants' tusks and deer's antlers often dredged up by fishermen in the bay.

## Early work

## Sample method

## Depth of deposit

## 14C ages available

No

## Notes

## Bibliographic reference

Ellis, H. 1867a/1866 'On a flint-find in a submerged forest of Barnstaple Bay, near Westward Ho!', Report and Transactions of the Devonshire Association, 1, 80-81.

# Beesands, Devon

Record ID 445

## Authors

Harkness, D. and Wilson, H.

## Year

1979

## Location description

Landward side of high water level.

## Deposit location

## Deposit description

Compacted Phragmites peat c. 0.3 m thick.

## Deposit stratigraphy

Peat rests on silty clay, and is overlain by c.10m shingle.

## Associated artefacts

## Early work

## Sample method

Borehole.

## Depth of deposit

## <sup>14</sup>C ages available

Yes

## Notes

Collected 1973 and submitted by MWL Blackley, NERC Unit Coastal Sedimentation, Somerset.

## <sup>14</sup>C details

ID 309

Laboratory code SRR-164

## Sample location

SX 821 410

## Depth of sample

-4.32 m OD

## Dated sample description

Upper 10 cm of peat deposit.

## Age (uncal)

4300 ± 50

## Age (cal)

-27.3

## Delta <sup>13</sup>C

## Notes

Borehole 4.

ID 310

Laboratory code SRR-165



**Sample location**

SX 821 410

**Depth of sample**

-4.62 m OD

**Dated sample description**

Basal 10 cm of peat deposit.

**Age (uncal)**

4770 ± 50

**Age (cal)**

-27.1

**Delta 13C****Notes**

Borehole 4.

**Bibliographic reference**

Harkness, D. and Wilson, H. 1979 'Scottish Universities Research and Reactor Centre radiocarbon measurements III', Radiocarbon, 21, 203-256.

# Blackpool Beach (Devon), Devon

Record ID 444

## Authors

Harkness, D. and Wilson, H.

## Year

1979

## Location description

Deposit description. Remains of woodland in intertidal zone.

## Deposit location

SX 855 478. Deposit stratigraphy

## Associated artefacts

## Early work

## Sample method

## Depth of deposit

Between +1 to -1 m OD.

## <sup>14</sup>C ages available

Yes

## Notes

Collected 1974 and submitted by H Osmaston, University of Bristol.

## <sup>14</sup>C details

ID 308

Laboratory code SRR-318

## Sample location

SX 855 478

## Depth of sample

Between +1 to -1 m OD.  
wood of in situ tree stump.

## Dated sample description

Isolated cellulose fraction  
from

## Age (uncal)

2540 ± 70

## Age (cal)

-26.1

## Delta 13C

## Notes

Tree stump embedded in clay and overlain by marine gravels.

## Bibliographic reference

Harkness, D. and Wilson, H. 1979 'Scottish Universities Research and Reactor Centre radiocarbon measurements III', Radiocarbon, 21, 203-256.

# Broadsands, Devon

**Record ID** 463

**Authors**

Clarke, R.

**Year**

1970

**Location description**

**Deposit location**

SX 896 576

**Deposit description**

2 ft [0.61 m] of peat with occasional sand layers and wood fragments, outcrops on the foreshore. It overlies at least 3 ft [0.91 m] of pebbly sand containing abundant plant debris.

**Deposit stratigraphy**

**Associated artefacts**

Maybe pollen Zone VII.

**Early work**

**Sample method**

**Depth of deposit**

-5 ft OD [-1.52 m OD] = 2-3 cm below top of peat bed (pollen sample).

**<sup>14</sup>C ages available**

No

**Notes**

Peat B

**Bibliographic reference**

Clarke, R. 1970 'Quaternary sediments off south-east Devon', Quarterly Journal of the Geological Society of London, 125, 277-318.

# France Wood Marsh, Devon

Record ID 440

## Authors

Harkness, D. and Wilson, H.

## Year

1979

## Location description

## Deposit location

## Deposit description

Coarse brown peat at 1.2 m in borehole.

## Deposit stratigraphy

## Associated artefacts

## Early work

## Sample method

## Depth of deposit

## <sup>14</sup>C ages available

Yes

## Notes

Present marsh surface at 3.21 m OD. Collected 1974 by C Morey. Submitted by MWL Blackley.

## 14C details

ID 303

Laboratory code SRR-491

### Sample location

SX 819 440 from horizon  
3.35m thick, overlain by  
0.85m surface deposits.

### Depth of sample

+2.0 m OD

### Dated sample description

Coarse brown peat. Sample

### Age (uncal)

1540 ± 40

### Age (cal)

-29.2

### Delta 13C

## Notes

Borehole 50. Sample is from infill of small valley formerly open to the sea.

## Bibliographic reference

Harkness, D. and Wilson, H. 1979 'Scottish Universities Research and Reactor Centre radiocarbon measurements III', Radiocarbon, 21, 203-256.

# Goodrington Sands, Devon

Record ID 462

## Authors

Clarke, R.

## Year

1970

## Location description

## Deposit location

SX 894 596

## Deposit description

Beneath 2 ft [0.61 m] of beach shingle, 1ft 6" [0.46 m] of sedge peat overlies at least 3 ft [0.91 m] of pebbly sand which contains large amounts of plant debris.

## Deposit stratigraphy

## Associated artefacts

Roman artefacts found below the peat by Pidgeon (1885). Pollen Zone VIII.

## Early work

## Sample method

## Depth of deposit

0 ft OD = 2-3 cm below top of peat bed (pollen sample).

## <sup>14</sup>C ages available

No

## Notes

Peat A

## Bibliographic reference

Clarke, R. 1970 'Quaternary sediments off south-east Devon', Quarterly Journal of the Geological Society of London, 125, 277-318.

# Hallsands, Devon

Record ID 446

## Authors

Harkness, D. and Wilson, H.

## Year

1979

## Location description

## Deposit location

## Deposit description

Compacted peat (unknown thickness) with wood fragments in offshore borehole.

## Deposit stratigraphy

Peat overlain by c.1.2m blue clay and mixture of sands, silts and clays.

## Associated artefacts

## Early work

## Sample method

Vibrocore 70VC.

## Depth of deposit

## <sup>14</sup>C ages available

Yes

## Notes

Collected 1973 and submitted by MWL Blackley.

## <sup>14</sup>C details

ID 311

Laboratory code SRR-237

## Sample location

SX 825 390 deposit.

## Depth of sample

-16 to -17 m OD

## Dated sample description

Uppermost 10 cm of peat

## Age (uncal)

8110 ± 60

## Age (cal)

-27.9

## Delta <sup>13</sup>C

## Notes

## Bibliographic reference

Harkness, D. and Wilson, H. 1979 'Scottish Universities Research and Reactor Centre radiocarbon measurements III', Radiocarbon, 21, 203-256

# Inner Hope, Devon

Record ID 309

## Authors

ADS

## Year

NONE

## Location description

## Deposit location

SX 6754 3972

## Deposit description

Apparently submerged forest.

## Deposit stratigraphy

## Associated artefacts

Foundations of 'rough buildings', worked flint and slag.

## Early work

## Sample method

## Depth of deposit

8 ft [2.44 m] below high water.

## <sup>14</sup>C ages available

No

## Notes

Record NMR\_NATINV-440930 in ADS.

## Bibliographic reference

ADS NONE 'Archaeology Dataservice', <http://ads.ahds.ac.uk/>.



## near Salcombe, Devon

Record ID 647

### Authors

White, W.

### Year

1850

### Location description

In two coves at the haven mouth between Bolt Head and Salcombe

### Deposit location

[c. SX 730 370]

### Deposit description

Submerged forest containing perfect hazel leaves and nuts.

### Deposit stratigraphy

Under sand.

### Associated artefacts

### Early work

### Sample method

### Depth of deposit

At a depth of 2-3 feet [0.61 to 0.91 m].

### <sup>14</sup>C ages available

No

### Notes

### Bibliographic reference

White, W. 1850 'Malborough' in 'History, Gazeteer and Directory of Devonshire', (eds), , Transcribed by T. Partridge, Genuki website.

# North Hallsands, Devon

Record ID 447

## Authors

Harkness, D. and Wilson, H.

## Year

1979

## Location description

## Deposit location

## Deposit description

Peat overlain by marine shingle.

## Deposit stratigraphy

## Associated artefacts

## Early work

## Sample method

SX 818 389

## Depth of deposit

c. -1 m OD.

## <sup>14</sup>C ages available

Yes

## Notes

Collected 1974 and submitted by MWL Blackley. Peat accumulated in coastal brackish lagoon enclosed from the sea by a shingle barrier.

## <sup>14</sup>C details

ID 312

Laboratory code SRR-317

## Sample location

SX 818 389

## Depth of sample

c.-1 m OD

## Dated sample description

Peat.

## Age (uncal)

1680 ± 50

## Age (cal)

-29.3

## Delta 13C

## Notes

## Bibliographic reference

Harkness, D. and Wilson, H. 1979 'Scottish Universities Research and Reactor Centre radiocarbon measurements III', Radiocarbon, 21, 203-256.

# Northam Beach, Devon

Record ID 388

## Authors

Ellis, H.

## Year

1867b

## Location description

## Deposit location

## Deposit description

Submerged forest.

## Deposit stratigraphy

## Associated artefacts

Bones and teeth of mammalia, within the peat, with flint flakes, cores and numerous comminuted shells (mainly oyster: *Ostrea edulis* and cockle: *Cordium edule*). Oyster shell deposit up to 2ft thick. Probably deer remains.

## Early work

## Sample method

## Depth of deposit

Exposed at or near low water mark.

## <sup>14</sup>C ages available

No

## Notes

Covering sand was washed away, exposing oyster shell deposit, mixed with bones. NB nearby Braunton Burrows [now sand dune] used to be forest-covered.

## Bibliographic reference

Ellis, H. 1867b 'On some mammalian bones and teeth, found in the submerged forest at Northam', Report and Transactions of the Devonshire Association, 2, 162-163.

# off Teignmouth, Devon

Record ID 277

## Authors

Callow, W, Baker, M. and Hassall, G.

## Year

1966

## Location description

## Deposit location

## Deposit description

Peat.

## Deposit stratigraphy

## Associated artefacts

## Early work

## Sample method

## Depth of deposit

Peat recovered from -23.8 m OD.

## <sup>14</sup>C ages available

Yes

## Notes

Callow et al (1966) (pg341) referred to in Hawkins (1971).

## <sup>14</sup>C details

ID 172

Laboratory code NPL-86

## Sample location

## Depth of sample

-23.8 m OD

## Dated sample description

## Age (uncal)

8580 ± 800

## Age (cal)

## Delta 13C

## Notes

## Bibliographic reference

Callow, W, Baker, M. and Hassall, G. 1966 'National Physical Laboratory Radiocarbon measurements IV', Radiocarbon, 8, 340-347.

# off Torquay, Devon

**Record ID** 276

**Authors**

Clarke, R.

**Year**

1966

**Location description**

**Deposit location**

**Deposit description**

Six deep submarine peat bands.

**Deposit stratigraphy**

**Associated artefacts**

**Early work**

**Sample method**

**Depth of deposit**

Deepest peat band at -42.7 m OD; other peat bands between -39.36 to -16.8 m OD.

**<sup>14</sup>C ages available**

No

**Notes**

Deepest peat : pollen zones IV and V; other peats: within pollen zone VI. Referred to in Hawkins (1971).

**Bibliographic reference**

Clarke, R. 1966 'The sea bed off south east Devon', Unpublished PhD thesis, University of Bristol.

# Sidmouth, Devon

**Record ID** 291

**Authors**

Lang, W.

**Year**

1926

**Location description**

**Deposit location**

**Deposit description**

Submerged forest.

**Deposit stratigraphy**

**Associated artefacts**

Mammoth teeth.

**Early work**

**Sample method**

**Depth of deposit**

**14C ages available**

No

**Notes**

Mentioned in Lang (1926); Godwin (1943).

**Bibliographic reference**

Lang, W. 1926 'The submerged forest at the mouth of the river Char and the history of that river', Proceedings of the Geologists Association, 37(2), 197-210.

# Sidmouth, Devon

**Record ID** 292

**Authors**

ADS

**Year**

NONE

**Location description**

**Deposit location**

SY 1244 8713

**Deposit description**

Submarine forest on beach.

**Deposit stratigraphy**

**Associated artefacts**

Roman coins found within the forest in 19th century. Mammoth teeth also noted.

**Early work**

**Sample method**

**Depth of deposit**

**14C ages available**

No

**Notes**

Record NMR\_NATINV-448986 in ADS.

**Bibliographic reference**

ADS NONE 'Archaeology Dataservice', <http://ads.ahds.ac.uk/>.

# Slapton Ley, Devon

Record ID 441

## Authors

Harkness, D. and Wilson, H.

## Year

1979

## Location description

## Deposit location

SX 823 439

## Deposit description

## Deposit stratigraphy

## Associated artefacts

## Early work

## Sample method

## Depth of deposit

## 14C ages available

Yes

## Notes

Borehole passes through lake, 1.7m water column with base at 2.71m OD. Collected 1974 by C Morey and submitted by MWL Blackley. Samples represent top and base of old coastal lagoon infill. Also Morey (1983).

## 14C details

ID 304

Laboratory code SRR-492

## Sample location

SX 823 439

## Depth of sample

-0.19 m OD

## Dated sample description

Dark brown silty peat.

## Age (uncal)

1810 ± 40

## Age (cal)

-29.6

## Delta 13C

## Notes

Borehole L53b.



<b>ID</b>	<b>305</b>	<b>SRR-493</b>
<b>Sample location</b>	<b>Depth of sample</b>	<b>Dated sample description</b>
SX 823 439	-1.79 m OD	Dark brown silty peat.
<b>Age (uncal)</b>	<b>Age (cal)</b>	<b>Delta 13C</b>
2890 ± 50	-28.3	

### Notes

Borehole L53b.

### Bibliographic reference

Harkness, D. and Wilson, H. 1979 'Scottish Universities Research and Reactor Centre radiocarbon measurements III', Radiocarbon, 21, 203-256

# Stonehouse Creek, Devon

<b>Record ID</b>	<b>179</b>
<b>Authors</b>	<b>Year</b>
Walker, K. and Fry, J.	2000
<b>Location description</b>	<b>Deposit location</b>
<b>Deposit description</b>	<b>Deposit stratigraphy</b>
Peaty deposits.	
<b>Associated artefacts</b>	<b>Early work</b>
	<b>Sample method</b>
<b>Depth of deposit</b>	<b>14C ages available</b>
	No

## Notes

## Subsite details

**ID** 41

<b>Location</b>	<b>Depth</b>
SX 461 544	-4.69 m OD

## Description

Peaty deposit. Geotechnical borehole (core GB28). Suggested Mesolithic-Neolithic. Referred to in Walker and Fry (2000) Pg 48.

**ID** 42

**Location**

SX 461 544

**Depth**

Top facies between -1 and -3 m OD

**Description**

Boreholes on land. Peat layer along transect, max. 1.8 m thick (in BH3, 4 and 5). Above silty clay alluvial deposits, below made-ground. One hazel nut at -10.5 m OD in BH6.

**Bibliographic reference**

Walker, K. and Fry, J. 2000 'Part 2: Investigations in the Stonehouse Peninsula' in 'Resurgam! Archaeology at Stonehouse, Mount Batten and Mount Wise regeneration areas, Plymouth. Plymouth Archaeology Occasional Publication No.5', (eds) Gardiner, J

# Thurlestone Sands, Devon

**Record ID** 308

**Authors**

ADS

**Year**

NONE

**Location description**

**Deposit location**

SX 674 417

**Deposit description**

Submarine forest.

**Deposit stratigraphy**

**Associated artefacts**

Dug out canoe, Mesolithic tranchet axe, perforated pebble macehead nearby.

**Early work**

First identified in 1866, and uncovered by storms in 1923

Depth of deposit

**Sample method**

14C ages available

**No**

**Notes**

Record NMR\_NATINV-441056 in ADS.

**Bibliographic reference**

ADS NONE 'Archaeology Dataservice', <http://ads.ahds.ac.uk/>.

# Topsham, Devon

Record ID 548

## Authors

Heyworth, A. and Kidson, C.

## Year

1982

## Location description

## Deposit location

SX 962 880

## Deposit description

## Deposit stratigraphy

## Associated artefacts

## Early work

Depth of deposit

## Sample method

14C ages available

Yes

## Notes

Referred to in Heyworth and Kidson (1982).

## 14C details

ID 377

Laboratory code Birm-534

## Sample location

SX 962 880

## Depth of sample

-3.06 m OD

## Dated sample description

## Age (uncal)

3300 ± 120

## Age (cal)

## Delta 13C

## Notes

**ID** 378

**Laboratory code** Birm-533

**Sample location**

SX 962 880

**Depth of sample**

-3.66 m OD

**Dated sample description**

**Age (uncal)**

3910 ± 130

**Age (cal)**

**Delta 13C**

**Notes**

**ID** 379

**Laboratory code** Birm-600

**Sample location**

SX 963 883

**Depth of sample**

-4.1 m OD

**Dated sample description**

**Age (uncal)**

3990 ± 120

**Age (cal)**

**Delta 13C**

**Notes**

**Bibliographic reference**

Heyworth, A. and Kidson, C. 1982 'Sea-level changes in south-west England and Wales', Proceedings of the Geologists Association, 93, 91-111.

# Tor Bay, Devon

**Record ID** 408

**Authors**

Murray, J.

**Year**

1879

**Location description**

**Deposit location**

**Deposit description**

Mention of submerged forest.

**Deposit stratigraphy**

**Associated artefacts**

**Early work**

**Sample method**

**Depth of deposit**

**14C ages available**

No

**Notes**

**Bibliographic reference**

Murray, J. 1879 'A handbook for travellers in Devonshire', 9th edition.

# Torre Abbey, Devon

**Record ID** 205

**Authors**

ADS

**Year**

NONE

**Location description**

Torre Abbey Sands

**Deposit location**

SX 911 636

**Deposit description**

Submerged forest.

**Deposit stratigraphy**

**Associated artefacts**

Neolithic unpolished flint axe found in 1883 by HW Watson

**Early work**

**Sample method**

**Depth of deposit**

**14C ages available**

No

**Notes**

record NMR\_NATINV-447596 in ADS

**Bibliographic reference**

ADS NONE 'Archaeology Dataservice', <http://ads.ahds.ac.uk/>.



# Torre Abbey Meadows, Devon

Record ID 316

## Authors

Jukes-Browne, A.

## Year

1911

## Location description

## Deposit location

## Deposit description

Offshore, exposed submerged forest and freshwater peat deposits.

## Deposit stratigraphy

## Associated artefacts

## Early work

## Sample method

## Depth of deposit

## <sup>14</sup>C ages available

No

## Notes

Also Perkins (1971).

## Bibliographic reference

Jukes-Browne, A. 1911 'The making of Torbay', Report and Transactions of the Devonshire Association for the Advancement of Science, 39, 103-136.

# Westward Ho!, Devon

Record ID 169

## Authors

Edmonds, E, Williams, B. and Taylor, R.

## Year

1979

## Location description

## Deposit location

## Deposit description

Drowned forest - oak, birch, hazel, alder, elder, bramble, dogwood and other herbs. Peat rested on bluish, grey sticky clay.

## Deposit stratigraphy

## Associated artefacts

Bones of red deer, ox, boar, wolf, horse, sheep, goat, pig, dog, man. Mesolithic flints.

## Early work

First identified Ussher (July 1878)

## Depth of deposit

## Sample method

## 14C ages available

No

## Notes

Referred to as forest submerged by postglacial sea level rise - peat had formed during Flandrian transgression [sic] (Godwin, 1956).

## Bibliographic reference

Edmonds, E, Williams, B. and Taylor, R. 1979 'Geology of Bideford and Lundy Island', Memoirs of the Geological Survey, GB, sheets 292, with 275, 276, 291 and part of 308,

# Westward Ho!, Devon

Record ID 170

## Authors

ADS

## Year

NONE

## Location description

## Deposit location

SS 4286 2942

## Deposit description

Blue clay layer containing fragments of submerged forest.

## Deposit stratigraphy

## Associated artefacts

At the southern end of Westward Ho! beach, underneath the clay was midden containing Mesolithic microliths. 1800s also found stake lines on the beach, one of which had associated split bones and flints.

## Early work

surveyed and excavated between 1925-1939

## Sample method

## Depth of deposit

## 14C ages available

No

## Notes

6,000-6,500 years BP (C14 ages) (midden deposit); 5,700 years BP (overlying plots). Further excavation and survey in 1980 identified the site as one of the earliest Mesolithic middens in NW Europe. Record NMR\_NATINV-33063 in ADS.

## Bibliographic reference

ADS NONE 'Archaeology Dataservice', <http://ads.ahds.ac.uk/>.

# Westward Ho!, Devon

Record ID 171

## Authors

Balaam, N, Bell, M, David, A, Levitan, B, Macphail, R, Robinson, M. and Scaife, R

## Year

1987

## Location description

## Deposit location

## Deposit description

Oak, elm and hazel woodland. Willow carr nearby.

## Deposit stratigraphy

## Associated artefacts

## Early work

## Mesolithic midden

## Sample method

## Depth of deposit

## 14C ages available

No

## Notes

c. 5900-4900 cal BC

## Bibliographic reference

Balaam, N, Bell, M, David, A, Levitan, B, Macphail, R, Robinson, M. and Scaife, R. 1987 'Prehistoric and Romano-British sites at Westward Ho!, Devon: archaeological and palaeoenvironmental surveys 1983 and 1984' in 'Studies in palaeoeconomy and environment in south-west England. BAR British Series 181', (eds) Balaam, N, Levitan, B. and Straker, V, 163-264, Oxford: British Archaeological Reports.

# Westward Ho!, Devon

Record ID 305

## Authors

Balaam, N, Bell, M, David, A, Levitan, B, Macphail, R, Robinson, M. and Scaife, R.

## Year

1987

## Location description

## Deposit location

SS 42939 29493 (midden)

## Deposit description

## Deposit stratigraphy

## Associated artefacts

Midden.

## Early work

## Sample method

## Depth of deposit

## 14C ages available

Yes

## Notes

## Subsite details

ID 97

## Location

Description Area 1 - extensive peat surface ("inner peat").

## Depth

ID 98

## Location

## Depth

Midway between high and low water spring tides.

## Description

Area 2

**ID 99**

**Location**

**Depth**

Nearest to low water spring tide.

**Description**

Area 3 - "outer peat".

**14C details**

**ID 209**

**Laboratory code** HAR-6440

**Sample location**

SS 4335 2977 Area

**Depth of sample**

0 m OD 1

**Dated sample description**

Wood of Corylus stake from line of close-set stakes.

**Age (uncal)**

1600 ± 80 BP

**Age (cal)**

**Delta 13C**

**Notes**

**ID 210**

**Laboratory code** HAR-6513

**Sample location**

SS 4337 2984 Area

**Depth of sample**

0 m OD 1channel.

**Dated sample description**

Bone from group of animal bones from fill of old estuarine

**Age (uncal)**

1560 ± 80 BP

**Age (cal)**

**Delta 13C**

**Notes**

**ID** 211

**Laboratory code** HAR-5642

<b>Sample location</b>	<b>Depth of sample</b>	<b>Dated sample description</b>
SS 4305 2952 Areas 2 & 3	-1.0 m OD	Two Corylus stakes from row of stakes.
<b>Age (uncal)</b>	<b>Age (cal)</b>	<b>Delta 13C</b>
4840 ± 70 BP		

**Notes**

**ID** 212

**Laboratory code** HAR-6363

<b>Sample location</b>	<b>Depth of sample</b>	<b>Dated sample description</b>
SS 42976 29495	XXXXX Areas 2 & 3	Top 3 cm of peat where sealed beneath upper "blue clay".
<b>Age (uncal)</b>	<b>Age (cal)</b>	<b>Delta 13C</b>
5190 ± 80 BP		

**Notes**

**ID** 213

**Laboratory code** HAR-5640

<b>Sample location</b>	<b>Depth of sample</b>	<b>Dated sample description</b>
SS 42938 29494	-2.1 m OD Areas 2 & 3	Top 2 cm of peat immediately overlying the midden.
<b>Age (uncal)</b>	<b>Age (cal)</b>	<b>Delta 13C</b>
5200 ± 120 BP		

**Notes**

**ID** 214

**Laboratory code** HAR-5631

**Sample location**

SS 42960 29487  
Areas 2 & 3

**Depth of sample**

-2.0 m OD

**Dated sample description**

SS 42960 29487  
Quercus lying on the  
surface of the peat

**Age (uncal)**

6100 ± 100 BP

**Age (cal)**

**Delta 13C**

**Notes**

**ID** 215

**Laboratory code** HAR-5630

**Sample location**

SS 42945 29494  
Areas 2 & 3

**Depth of sample**

-2.0 m OD

**Dated sample description**

Tree stool, Salix, on the  
surface of the peat

**Age (uncal)**

5630 ± 80 BP

**Age (cal)**

**Delta 13C**

**Notes**

**ID** 216

**Laboratory code** HAR-5641

**Sample location**

SS 42938 29494  
Areas 2 & 3

**Depth of sample**

-2.2 m OD

**Dated sample description**

Base of peat immediately  
overlying the midden.

**Age (uncal)**

5740 ± 100 BP

**Age (cal)**

**Delta 13C**

**Notes**



**ID 217**

**Laboratory code HAR-5632**

**Sample location**

SS 42938 29494

**Depth of sample**

-2.3 m OD

**Dated sample description**

Charcoal from combined samples from upper part of midden.

**Age (uncal)**

6100 ± 200 BP

**Age (cal)**

**Delta 13C**

**Notes**

**ID 218**

**Laboratory code HAR-5645**

**Sample location**

SS 42938 29494

**Depth of sample**

-2.4 m OD

**Dated sample description**

Charcoal from combined samples from the lower part of midden.

**Age (uncal)**

6320 ± 90 BP

**Age (cal)**

**Delta 13C**

**Notes**

**ID 219**

**Laboratory code HAR-6215**

**Sample location**

SS 42957 29491

**Depth of sample**

-2.5 m OD

**Dated sample description**

Charcoal from upper 10 cm of lower clay.

**Age (uncal)**

6250 ± 110

**Age (cal)**

**Delta 13C**

**Notes**

ID 220

Laboratory code HAR-5644

**Sample location**

SS 42938 29494

**Depth of sample**

-2.5 m OD

**Dated sample description**

Charcoal from upper 10 cm of lower clay.

**Age (uncal)**

6770 ± 120

**Age (cal)**

**Delta 13C**

**Notes**

ID 221

Laboratory code HAR-5643

**Sample location**

SS 42971 29500

**Depth of sample**

-2.5 m OD

**Dated sample description**

Gulley cut into lower blue clay.

**Age (uncal)**

8180 ± 150

**Age (cal)**

**Delta 13C**

**Notes**

Age too early, so discount.

**Bibliographic reference**

Balaam, N, Bell, M, David, A, Levitan, B, Macphail, R, Robinson, M. and Scaife, R. 1987 'Prehistoric and Romano-British sites at Westward Ho!, Devon: archaeological and palaeoenvironmental surveys 1983 and 1984' in 'Studies in palaeoeconomy and environment in south-west England. BAR British Series 181', (eds) Balaam, N, Levitan, B. and Straker, V, 163-264, Oxford: British Archaeological Reports.

# Westward Ho!, Devon

Record ID 306

## Authors

Churchill, D.

## Year

1965

## Location description

## Deposit location

51deg 2'30" N Lat, 4deg 13'  
50" W Long [SS 43646 29350 converted]

## Deposit description

Kitchen midden overlying estuarine clay.  
All overlain by oak fen-wood peat one foot  
thick. In places, thin clay layer overlies  
midden deposit.

## Deposit stratigraphy

## Associated artefacts

Midden base is -8 ft OD [-2.44 m OD],  
containing Mesolithic flints (Sauveterrian)  
and intertidal mollusca.

## Early work

## Sample method

## Depth of deposit

Peat at -0.7 ft [0.21 m] OD.

## <sup>14</sup>C ages available

Yes

## Notes

Peat layer found to contain *Suaeda maritima* and *Atriplex patula* seeds i.e. saltmarsh (Reid, 1913). Also, Churchill, in Godwin and Willis (1964).

## 14C details

**ID** 222

**Laboratory code** Q-672

**Sample location**

**Depth of sample**

**Dated sample description**

-2.1 m OD

Top 3" [7.62 cm] of the 8"  
[20.32 cm]-thick peat band.

**Age (uncal)**

6585 ± 130 BP

**Age (cal)**

4635 ± 130 BC

**Delta 13C**

## Notes

Godwin and Willis (1964) (pg 126).

## Bibliographic reference

Churchill, D. 1965 'The displacement of deposits formed at sea-level 6,500 years ago in southern Britain', *Quaternaria*, 7, 239-249.

# Westward Ho!, Devon

Record ID 307

## Authors

Jacobi, R.

## Year

1979

## Location description

## Deposit location

## Deposit description

## Deposit stratigraphy

## Associated artefacts

## Early work

## Sample method

## Depth of deposit

## 14C ages available

Yes

## Notes

Referred to in Balaam et al (1987).

## 14C details

ID 223

Laboratory code Q-1212

## Sample location

## Depth of sample

## Dated sample description

Bone from midden.

## Age (uncal)

6810 ± 140

## Age (cal)

4860 ± 140 BC

## Delta 13C

## Notes

**ID** 224

**Laboratory code** Q-1211

**Sample location**

**Depth of sample**

**Dated sample description**

Charcoal adjacent to  
midden.

**Age (uncal)**

6955 ± 140

**Age (cal)**

5005 ± 140 BC

**Delta 13C**

**Notes**

**Bibliographic reference**

Jacobi, R. 1979 'Early Flandrian hunters in the south-west', Proceedings of the Devon Archaeological Society, 37, 48-93

# Westward Ho!, Devon

Record ID 314

## Authors

Ellis, H.

## Year

1867a/1866

## Location description

On the outside of the southern end of Northam Pebble Ridge

## Deposit location

## Deposit description

Submerged forest bed, on top of angular fragments of carbonaceous grit pebbles (layer a few inches thick), on top of blue mud. Extends 200 yards [182.88 m] along ridge, probably under the ridge into Northam Marsh.

## Deposit stratigraphy

## Associated artefacts

Broken flints, flint flakes, flint implements found in submerged forest - found within forest deposit of prostrate boughs + trunks of birch/alder/oak trees + roots, nuts and acorns.

## Early work

## Depth of deposit

Forest height is at about mean sea level. Flints were found halfway between pebble ridge and low water mark, at 1-8" [2.54 to 20.32 cm] deep.

## Sample method

## 14C ages available

No

## Notes

## Bibliographic reference

Ellis, H. 1867a/1866 'On a flint-find in a submerged forest of Barnstaple Bay, near Westward Ho!', Report and Transactions of the Devonshire Association, 1, 80-81.

# Westward Ho!, Devon

Record ID 317

## Authors

Churchill, D. and Wymer, J.

## Year

1965

## Location description

## Deposit location

## Deposit description

Peat on bluish grey sandy clay (containing pollen), on top of sterile blue clay (no organics). Peat patches between pebble ridge and low water mark.

## Deposit stratigraphy

## Associated artefacts

Flints found (Ellis, 1866). Wooden stakes found by Hall. Red deer antler found by Worth (1934).

## Early work

First identified de la Beche (1839).

## Sample method

## Depth of deposit

## <sup>14</sup>C ages available

Yes

## Notes

Considered sea level to be 4-6m below present at time of peat formation.



## 14C details

ID 225

Laboratory code Q-672

**Sample location**

**Depth of sample**

**Dated sample description**

Wood from top of peat.

**Age (uncal)**

**Age (cal)**

**Delta 13C**

6585 ± 130 BP

### Notes

Areas 2 & 3

### Bibliographic reference

Churchill, D. and Wymer, J. 1965 'The kitchen midden site at Westward Ho!, Devon, England: ecology, age and relation to changes in land and sea level', Proceedings of the Prehistoric Society, 31, 74-84.

# Westward Ho!, Devon

**Record ID**

**318**

**Authors**

Jacobi, R.

**Year**

1975

**Location description**

**Deposit location**

**Deposit description**

**Deposit stratigraphy**

**Associated artefacts**

**Early work**

**Sample method**

**Depth of deposit**

**14C ages available**

Yes

## Notes

Referred to in Balaam et al (1987).

## 14C details

**ID 226**

**Laboratory code Q-1249**

**Sample location**

**Depth of sample**

Wood from peat.

**Dated sample description**

**Age (uncal)**

6680 ± 120 BP

**Age (cal)**

**Delta 13C**

## Notes

Areas 2 & 3.

## Bibliographic reference

Jacobi, R. 1975 'Aspects of the postglacial archaeology of England and Wales', Unpublished PhD thesis, University of Cambridge.

# Westward Ho!, Devon

Record ID 319

## Authors

Welin, E, Engstrand, L. and Vaczy, S.

## Year

1972

## Location description

## Deposit location

ST 4319 2958

## Deposit description

Peat bed exposed by exceptional storms in March 1970.

## Deposit stratigraphy

## Associated artefacts

## Early work

## Sample method

## Depth of deposit

## <sup>14</sup>C ages available

Yes

## Notes

Collected and submitted by BJ Williams (Institute of Geological Sciences).

## <sup>14</sup>C details

ID 227

Laboratory code IGS-C14/42

## Sample location

ST 4319 2958

## Depth of sample

2 m below high water mark.

## Dated sample description

Wood from roots within peat.

## Age (uncal)

4995 ± 105 BP

## Age (cal)

3045 BC

## Delta 13C

## Notes

Areas 2 & 3. Peat bed 0.6 m thick.

## Bibliographic reference

Welin, E, Engstrand, L. and Vaczy, S. 1972 'Institute of Geological Sciences radiocarbon dates III', Radiocarbon, 14, 331.

# Westward Ho!, Devon

Record ID 320

## Authors

Hall, T.

## Year

1866

## Location description

At the south end of the beach

## Deposit location

## Deposit description

70-80 large tree stumps in the peat were excavated, seen to be growing in situ. Mainly oak, with some pine and fir.

## Deposit stratigraphy

2 ft 6" sand, on blue clay, on Forest and peat bed 4 ft thick (stumps of trees, flint flakes, acorns, hazel nuts, tree rootlets). On blue clay, on reddish clay 3 ft, on Head.

## Associated artefacts

Jan 1865 - found abundant flint flakes and cores, and kitchen midden. Also, pointed stakes, and abundant bones (mostly deer, some ox, roe deer, wild boar, goat, wolf).

## Early work

## Sample method

Exposure in Winter of 1863-64.

## Depth of deposit

Extended from the base of the pebble ridge, to below low tide.

## <sup>14</sup>C ages available

No

## Notes

Manuscript of talk [same talk?] is held in the Athenaeum, Barnstaple (Rogers, 1946).

## Bibliographic reference

Hall, T. 1866 'The geology of north Devon - a lecture to the Exeter Naturalists' Club at Westward Ho! in 1865', Privately printed, London.

# Westward Ho!, Devon

**Record ID**

321

**Authors**

Welin, E, Engstrand, L. and Vaczy, S.

**Year**

1972

**Location description****Deposit location**

SS 4319 2958

**Deposit description**

Expanse of grey to brown silty and sandy peat (36x20 m) revealed during a storm. Between 0.45-0.61 m thick. On pebble bed at least 0.3 m thick.

**Deposit stratigraphy****Associated artefacts****Early work****Depth of deposit**

Peat base was 2.74 m below high water mark.

**Sample method****<sup>14</sup>C ages available**

Yes

**Notes**

Williams' submitted radiocarbon ages.

<b>14C details</b>		
<b>ID</b> 228		<b>Laboratory code</b>
<b>Sample location</b>	<b>Depth of sample</b>	<b>Dated sample description</b>
	2 m below high water mark	Wood from roots in situ in peat bed 0.6 m thick.
<b>Age (uncal)</b>	<b>Age (cal)</b>	<b>Delta 13C</b>
4995 ± 105 years BP		
<b>Notes</b>		
wood fragments from peat bed exposed by exceptional storms in March 1970 on beach. Part of submerged forest drowned by Flandrian transgression.		
<b>ID</b> 229		<b>Laboratory code</b>
<b>Sample location</b>	<b>Depth of sample</b>	<b>Dated sample description</b>
	SS 4319 2958	Peat
<b>Age (uncal)</b>	<b>Age (cal)</b>	<b>Delta 13C</b>
3075 ± 100 years BP		
<b>Notes</b>		
Probably contaminated.		
<b>Bibliographic reference</b>		
Welin, E, Engstrand, L. and Vaczy, S. 1972 'Institute of Geological Sciences radiocarbon dates III', Radiocarbon, 14, 331.		

# Westward Ho!, Devon

Record ID 322

## Authors

Bate, C.

## Year

1866

## Location description

## Deposit location

## Deposit description

Section through Braunton Northam burrows showed bed of clay containing roots and trunks of trees and flint flakes. Clay overlain by beach sand and underlain by pebble boulders.

## Deposit stratigraphy

## Associated artefacts

## Early work

## Sample method

## Depth of deposit

## 14C ages available

No

## Notes

## Bibliographic reference

Bate, C. 1866 'An attempt to approximate the date of the flint flakes of Devon and Cornwall', Rep and Trans Devon Assoc, 1, 128-136.

# Westward Ho!, Devon

Record ID 355

## Authors

Rogers, E.

## Year

1946

## Location description

## Deposit location

## Deposit description

Outer and inner peat-bed remnants identified on seaward-sloping blue clay surface. Seaward peat lies on shelly calcareous mud, with thin clay layers in places.

## Deposit stratigraphy

## Associated artefacts

Numerous split bones, teeth, flint flakes and cores within calcareous mud layer. Mesolithic microlith flints.

## Early work

## Sample method

## Depth of deposit

## 14C ages available

No

## Notes

Rogers (1946) is seen as most definitive description of the deposits. Referred to in Churchill and Wymer (1965).

## Bibliographic reference

Rogers, E. 1946 'The raised beach, submerged forest and kitchen midden of Westward Ho! and the submerged stone row of Yelland', Proceedings of the Devon Archaeological Exploration Society, 3, 109-135



# Westward Ho!, Devon

Record ID 422

## Authors

Rogers, E.

## Year

1946

## Location description

## Deposit location

## Deposit description

Inner and outer peat on the shore.

## Deposit stratigraphy

## Associated artefacts

Midden 4" [10.16 cm] thick.

## Early work

Submerged forest mentioned by Risdon (1605) - on finding an oak tree 30 ft long below Braunton Burrows.

## Sample method

## Depth of deposit

## 14C ages available

No

## Notes

## Bibliographic reference

Rogers, E. 1946 'The raised beach, submerged forest and kitchen midden of Westward Ho! and the submerged stone row of Yelland', Proceedings of the Devon Archaeological Exploration Society, 3, 109-135.

# Westward Ho!, Devon

Record ID 423

## Authors

Rogers, I.

## Year

1908

## Location description

## Deposit location

## Deposit description

Submerged forest area reduced compared to Townsend Hall's estimates. Found seeds in the peat of *Ranunculus* ssp, *Viola*, *Alnus*, *Corylus*, *Callitriche*, *Cornus*, *Rumex*, *Urtica*, *Quercus*, *Lychnis*, *Atriplex*, *Carex* ssp. Plus others i.e. brackish marsh.

## Deposit stratigraphy

## Associated artefacts

Also, abundant brackish mollusc *Hydrobia Ulvae*. Midden contains oyster, mussel and limpet shells, plus flint flakes and cores. Also numerous rodent teeth. Yelland Sone Row nearby [SS 492 328 from map].

## Early work

## Sample method

## Depth of deposit

## <sup>14</sup>C ages available

No

## Notes

Referred to in Rogers (1946).

## Bibliographic reference

Rogers, I. 1908 'On the submerged forest at Westward Ho! Bideford Bay', Reports of the Devonshire Association for the advancement of Science, 40, 249-259.

# Yelland, Devon

**Record ID** 354

**Authors**

Rogers, E.

**Year**

1946

**Location description**

**Deposit location**

[c. SS 489 328]

**Deposit description**

Outer and inner peat-bed remnants identified on seaward-sloping blue clay surface. Seaward peat lies on shelly calcareous mud, with thin clay layers in places.

**Deposit stratigraphy**

**Associated artefacts**

Numerous split bones, teeth, flint flakes and cores within calcareous mud layer. Mesolithic, Neolithic and Bronze Age flints.

**Early work**

**Sample method**

**Depth of deposit**

**14C ages available**

No

**Notes**

Rogers (1946) is seen as most definitive description of the deposits. Referred to in Churchill and Wymer (1965).

**Bibliographic reference**

Rogers, E. 1946 'The raised beach, submerged forest and kitchen midden of Westward Ho! and the submerged stone row of Yelland', Proceedings of the Devon Archaeological Exploration Society, 3, 109-135.

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