

Durham coast, County Durham

Record ID 265

Authors

Howes, R.

Year

1864

Location Descriptions

Deposit Location

Deposit Description

Beds of peat and submarine forests with fossil remains of oak, alder, mountain-birch and hazel.

Deposit stratigraphy

Associated artefacts

Horns of Cervus alces and Cervus elaphus, Bos primigenius etc.

Early work

Sample method

Depth of deposit

14C Ages available

No

Notes

Bibliographic reference

Howes, R. 1864 'On the glaciation of the counties of Durham and Northumberland', Transactions of the North of England Institute of Mining and Mechanical Engineers, XIII May.

Hartlepool Bay, County Durham

Record ID 261

Authors

Waughman, M., Donaldson, M., Innes, J. and Tooley,

Year

2005

Location Descriptions

[Seaton Carew?]

Deposit Location

NZ 520 315

Deposit Description

Submerged forest (SSSI).

Deposit stratigraphy

Associated artefacts

Skeleton of Neolithic man (burial with flints and vegetative covering). Wooden stakes, worked flints, wattle hurdling (part of fish trap?).

Early work

Sample method

Most recent excavation due to sea defence works.

Depth of deposit

¹⁴C Ages available

No

Notes

3600 BC (wattle hurdling).

Bibliographic reference

Waughman, M., Donaldson, M., Innes, J. and Tooley, 2005 'Archaeology and environment of submerged landscapes in Hartlepool Bay, England. Tees Archaeology Monograph Series, Volume 2.', Tees Archaeology, Hartlepool.

Hartlepool Bay, County Durham

Record ID 263

Authors

Trechmann, C.

Year

1936

Location Descriptions

North Sands to Long Scar

Deposit Location

Deposit Description

Discontinuous submerged forest, up to a mile wide; generally 1.5-2 ft [0.46-0.61 m] thick. 17 ft [5.18 m] thick in Hartlepool dock area.

Deposit stratigraphy

Associated artefacts

Howse (1889) says that the mammoth tusk found in West Hartlepool dock excavations was probably from the glacial deposits. Specimen now lost.

Early work

Sample method

Depth of deposit

Base of deposit varies between -35 to +12 ft OD [-10.67 to +3.66 m OD].

¹⁴C Ages available

No

Notes

ID 46

Location

NZ 504 354

Depth

Description

Most northerly peat outcrop record - 2 ft [0.61 m] of lignite-like clay lying on boulder clay beneath dune and beach deposits. Bore.

ID 219

Location

Hartlepool Bay

Depth

Description

South of the docks where the submerged forest deposit passes under Hartlepool Bay, dredgers bring up peat, tree stumps, trunks and hazel nuts.

Bibliographic reference

ID 220

Location

Parton Rocks

Depth

[c. NZ 519 350]

Description

Forest bed said to have been seen at very low tide c.1896. Site 6.

ID 221

Location

West Hartlepool Gas Works

Depth

[c. NZ 512 337]

Description

Excavation for timber ponds (1890) revealed large tree stumps in submerged forest, with stag antlers. Site 3.

ID 222

Location

Warren Cement Works

Depth

[c. NZ 515 344]

Description

Borehole in 1888. Peat 8' [2.44 m] thick, overlain by 22' [6.71 m] blown sand. Resting on red boulder clay. Site 4.

ID 223

Location

West Hartlepool

Depth

Description

Only current exposure, < 1/3 mile [0.54 km] long, between Burn Sewer and Bridge Street outlet. Peat < 2' [0.61 m] thick

ID 224

Location

[c.NZ 518 320]

Depth

Rather above half-tide mark.

Description

Site 1. Flints within peat bed and molluscs (land and freshwater) collected from marl below peat bed intertidal exposure. On blue clay, then on red boulder clay.

ID 225

Location

North Sands [c. NZ 509 353]

Depth

14' [4.27 m] below high tide mark.

Description

1935 drain excavation. Very compressed peat (2' [0.61 m] thick) (like lignite) on shore, under 12' [3.66 m] sand and shingle, and on top of blue clay. Peat contained birch, hazel, equisetum, iris. Site 5

Bibliographic reference.

Trechmann, C. 1936 'Mesolithic flints from the submerged forest at West Hartlepool', Proceedings of the Prehistoric Society, 2(2), 161-168.

Hartlepool Bay, County Durham

Record ID 469

Authors

Gaunt, G. and Tooley, M.

Year

1974

Location Descriptions

West Hartlepool

Deposit Location

Deposit Description

Deposit stratigraphy

Associated artefacts

Early work

Sample method

Depth of deposit

¹⁴C Ages available

Yes

Notes

ID 332

Laboratory code Hv3459

Sample location

[NZ 52191 31386]
[converted]

Depth of sample

-0.34 m OD

Dated sample description

Phragmites peat

Age (uncal)

5240 ± 70

Age (cal)

Delta 13C

Notes

ID 333

Laboratory code Hv4712

Sample location

[NZ 51754 31999]
[converted]

Depth of sample

-1.95 m OD

Dated sample description

Gyttja

Age (uncal)

5285 ± 120

Age (cal)

Delta 13C

Notes

Bibliographic reference

Gaunt, G. and Tooley, M. 1974 'Flandrian sea-level changes in the Humber Estuary and adjacent areas', Bulletin of the Geological Survey of Great Britain, 48, 25-40.

Hartlepool Bay, County Durham

Record ID 604

Authors

Barker, H. and Mackay, J.

Year

1961

Location Descriptions

West Hartlepool

Deposit Location

54deg41'N 01deg13'W [converted NZ 50497 32325]

Deposit Description

Submerged forest - bed of peat and trees - intertidal.

Deposit stratigraphy

Overlies hard stony boulder clay.

Associated artefacts

Antler from peat bed on shore. Other associated Mesolithic flakes (most northerly occurrence of coastal peat bed with implements).

Early work

Sample method

Depth of deposit

14C Ages available

Yes

Notes

Collected and submitted by C Trechmann. Peat deposit continues offshore to North Sea moorlog.

ID 458

Laboratory code BM-80

Sample location	Depth of sample	Dated sample description
	54deg41'N 01deg13'W [converted NZ 50497 32325]	Light coloured intermediate zone.

Age (uncal)

Age (cal)

Delta 13C

8700 ± 180

Notes

Antler.

ID 459

Laboratory code BM-81

Sample location	Depth of sample	Dated sample description
	54deg41'N 01deg13'W [converted NZ 50497 32325]	Dark outer layer.

Age (uncal)

Age (cal)

Delta 13C

8680 ± 180

Notes

Antler.

ID 460

Laboratory code BM-83

Sample location	Depth of sample	Dated sample description
	54deg41'N 01deg13'W [converted NZ 50497 32325]	Spongy central zone.

Age (uncal)

Age (cal)

Delta 13C

8110 ± 180

Notes

Antler. Thought to be contaminated.

ID 461

Laboratory code BM-90

Sample location

Depth of sample

Dated sample description

54deg41'N 01deg13'W
[converted NZ 50497
32325]

Spongy central zone.

Age (uncal)

Age (cal)

Delta 13C

8100 ± 180

Notes

Antler. Thought to be contaminated.

Bibliographic reference

Barker, H. and Mackay, J. 1961 'British Museum natural radiocarbon measurements III. Sample Description C. Great Britain BM-80. West Hartlepool submerged forest', Radiocarbon, 3, 41-42.

Long Scar, County Durham

Record ID 214

Authors

Smith, D. and Francis, E.

Year

1967

Location Descriptions

Deposit Location

[c. NZ 529 314]

Deposit Description

Most southerly [?] peat record, 1.5-2.5 ft [0.46-0.76 m] thick.

Deposit stratigraphy

Associated artefacts

Early work

Sample method

Depth of deposit

-7ft OD [-2.13 m OD]

¹⁴C Ages available

No

Notes

Bibliographic reference

Smith, D. and Francis, E. 1967 'Geology of the country between Durham and West Hartlepool (explanation of one-inch geological sheet 27, new series)', Memoirs of the Geological Survey, London, .

Palliser Works, County Durham

Record ID 262

Authors

Trechmann, C.

Year

1942

Location Descriptions

Deposit Location

NZ 5061 3525

Deposit Description

Peat 1.75 ft [0.53 m] thick, overlain by 51 ft [15.54 m] of beach and dune deposits.

Deposit stratigraphy

Associated artefacts

Early work

Sample method

Bore

Depth of deposit

¹⁴C Ages available

No

Notes

Referred to in Smith and Francis (1954)

Bibliographic reference

Trechmann, C. 1942 'Borings in the Permian and coal measures around Hartlepool', Proceedings of the Yorkshire Geological Society, 24, 313-327.

Seaton Carew, County Durham

Record ID 257

Authors

Buglass, J.

Year

1994

Location Descriptions

Deposit Location

Deposit Description

Extensive peat and drowned forest; former marsh and carr; large tree trunks, hazelnut shells, twigs, reeds.

Deposit stratigraphy

Associated artefacts

Wattle screen/panel exposed and excavated from the site. Possibly hazel; 3.4x0.8 m. Possible fish trap/weir. (Previous finds: flints, wood, bone, male skeleton from region).

Early work

Sample method

Exposed in recent storms.

Depth of deposit

14C Ages available

No

Notes

c. 4200-5000 years BP (peat date from sea-level study).

Bibliographic reference

Buglass, J. 1994 'A neolithic fish weir in Cleveland?', Nautical Archaeology Newsletter, Autumn, 4.

Seaton Carew, County Durham

Record ID 258

Authors

Wessex Archaeology

Year

2004c

Location Descriptions

Deposit Location

Deposit Description

Submerged forest - remains of fens and birch and alder forest in peat bed.

Deposit stratigraphy

Associated artefacts

Early work

Sample method

Excavated in 1990 by C.C.A. prior to construction of sea defences.

Depth of deposit

14C Ages available

No

Notes

Referred to in Wessex Archaeology (2004c) [Document publicly available online]. Monument UID 11000; Tees SMR no. 1603.

Bibliographic reference

Wessex Archaeology 2004c 'Artefacts from the sea, year two report revised, ref. 51541.06'.

Seaton Carew, County Durham

Record ID 260

Authors

Tooley, M.

Year

1978

Location Descriptions

Deposit Location

Deposit Description

"Hartlepool submerged forest"

Deposit stratigraphy

Neolithic skeleton excavated in 1972.

Associated artefacts

Early work

Sample method

Depth of deposit

14C Ages available

No

Notes

Bibliographic reference

Tooley (1978) referred to in Daniels (2000). Tooley, M. 1978 'The history of Hartlepool Bay', International Journal of Nautical Archaeology, 7.1, 71-74.

Seaton Carew, County Durham

Record ID 452

Authors

Daniels, R.

Year

2000

Location Descriptions

Hartlepool Submerged Forest

Deposit Location

Deposit Description

Deposit stratigraphy

Associated artefacts

Red deer with wooden point among its ribs.

Early work

Sample method

Depth of deposit

14C Ages available

Yes

Notes

ID 319

Laboratory code GU-5435

Sample location

Depth of sample

Dated sample description

Wattle panel - part of fish trap.

Age (uncal)

4890

Age (cal)

Delta 13C

Notes

From former palaeo-channel.

ID 320

Laboratory code GU-5436

Sample location	Depth of sample	Dated sample description
	Wattle panel - part of fish trap.	
Age (uncal)	Age (cal)	Delta 13C

Notes

From former palaeo-channel.

Bibliographic reference

Daniels, R. 2000 'The archaeology of coastal landscapes: the Cleveland experience' in 'The rising tide: archaeology and coastal landscapes', (ed.s) Aberg, A. and Lewis, C., 23-28, Oxbow Books, Oxford.

Seaton Carew, County Durham

Record ID 479

Authors

NMR

Year

NONE

Location Descriptions

Deposit Location

NZ 521 313 (locality)

Deposit Description

Submarine forest and exposed peat bed.

Deposit stratigraphy

Associated artefacts

Mesolithic flint working site. Flints found at junction between peat and underlying boulder clay.

Early work

Sample method

Depth of deposit

14C Ages available

No

Notes

NMR no. NZ 53 SW 34 (874093)

Bibliographic reference

NMR NONE 'National Monuments Record'

Seaton Carew, County Durham

Record ID 674

Authors

Walker, T.

Year

Nov 2008

Location Descriptions

South end of the sea-front, near the old fairground car park.

Deposit Location

[c. NZ 5287 2936]

Deposit Description

Exposure of intertidal "petrified" forest seen stretching out to sea on 27 November 2008.

Deposit stratigraphy

Associated artefacts

Early work

Sample method

Depth of deposit

14C Ages available

No

Notes

Bibliographic reference

Walker, T. Nov 2008 'Seeing the wood for the seas!', Hartlepool Mail, .

Seaton Snook Point, County Durham

Record ID 610

Authors

Howse, R.

Year

1861

Location Descriptions

North of Tees Estuary, 3 miles [4.82 km]
SW of Hartlepool

Deposit Location

[c. NZ 542 284]

Deposit Description

Deposit stratigraphy

Associated artefacts

Two antlers of Irish deer or elk were washed up before 1860, apparently from a section of forest bed subsequently submerged or sand covered.

Early work

Sample method

Depth of deposit

14C Ages available

No

Notes

Bibliographic reference

Howse, R. 1861 ", Transactions of the Tyneside Naturalists' Field Club, V(II), 115

.

Sunderland (near), County Durham

Record ID 607

Authors

Fowler, A.

Year

1936

Location Descriptions

Deposit Location

Deposit Description

Submerged forest bed occasionally seen off Durham coast.

Deposit stratigraphy

Associated artefacts

Early work

Sample method

Depth of deposit

14C Ages available

No

Notes

Bibliographic reference

Fowler, A. 1936 'Geology of Country around Rothbury, Amble and Ashington', Memoir of the Geological Survey of England and Wales, , 135.

The Slake (now the docks), County Durham

Record ID 215

Authors

Cameron, A.

Year

1878

Location Descriptions

Deposit Location

[c. NZ 51400 34160]

Deposit Description

Soft peat (8' [2.44 m] thick) containing numerous native trees, stumps and leaves matted together. Part of submarine forest. Greatest circumference 12 ft [3.66 m]. 18-20 ft [5.49-6.10 m] long.

Deposit stratigraphy

Underlying the peat is thin bed of blue clay (1'10" thick). Under that is boulder clay (10' thick).

Associated artefacts

Horns of ruminants, and the fruit of the trees.

Early work

Sample method

Depth of deposit

¹⁴C Ages available

No

Notes

After hurricanes, the peat can be traced as far along the shore as Seaton Carew.

Bibliographic reference

Cameron, A. 1878 'Notes on some peat deposits at Kildale and West Hartlepool', Geological Magazine, 5, 351-352.

Whitburn, County Durham

Record ID 605

Authors

Mellars, P.

Year

1970

Location Descriptions

Deposit Location

Deposit Description

Deposit stratigraphy

Associated artefacts

Deer antler harpoon of 'Obanian' affinities found on shore near Whitburn.

Early work

Sample method

Depth of deposit

¹⁴C Ages available

No

Notes

Not clear if washed up from submerged peats or out of eroding cliff. Thought to be the former, given excellent preservation.

Bibliographic reference

Mellars, P. 1970 'An antler harpoon head of "Obanian" affinities from Whitburn, County Durham', *Archaeologia Aeliana*, Series 4, XLVIII, 337-346.

Whitburn Bay, County Durham

Record ID 603

Authors

Trechmann, C.

Year

1936

Location Descriptions

Between Seaburn and Whitburn

Deposit Location

[c. NZ 408 606]

Deposit Description

Submerged peat and forest deposit extending for about 2/3 mile [c. 0.5 km]. In places it's over 6' [1.83 m] thick. Contains fragments of birch bark, hazel nuts and charcoal.

Deposit stratigraphy

Rests on boulder clay.

Associated artefacts

Also contains red deer antler.

Early work

Sample method

Depth of deposit

Observed at low tide. Only exceptionally seen.

¹⁴C Ages available

No

Notes

Referred to in Mellars (1970). Also see Trechmann 1832 and 1947, and Woolacott 1897.

Bibliographic reference

Trechmann, C. 1936 'Mesolithic flints from the submerged forest at West Hartlepool', Proceedings of the Prehistoric Society, 2(2), 161-168.

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