

# Allonby, Cumbria

Record ID 528

## Authors

Tooley, M.

## Year

1985b

## Location description

## Deposit location

## Deposit description

## Deposit stratigraphy

## Associated artefacts

## Early work

## Sample method

## Depth of deposit

## 14C ages available

No

## Notes

Moor log.

## Bibliographic reference

Tooley, M. 1985b 'Sea level changes and coastal morphology in North-west England' in 'The Geomorphology of North-west England', (ed.s) Johnson, R., 94-121, Manchester: Manchester University Press.

# Annas Mouth, Cumbria

Record ID 527

## Authors

Tooley, M.

## Year

1985b

## Location description

## Deposit location

SD 0768 8841

## Deposit description

## Deposit stratigraphy

## Associated artefacts

## Early work

## Sample method

## Depth of deposit

+6.6 m OD

## 14C ages available

No

## Notes

## Bibliographic reference

Tooley, M. 1985b 'Sea level changes and coastal morphology in North-west England' in 'The Geomorphology of North-west England', (ed.s) Johnson, R., 94-121, Manchester: Manchester University Press.

# Barrow Harbour, Cumbria

Record ID 406

## Authors

Kendall, W.

## Year

1900

## Location description

## Deposit location

[c. SD 217 653 - middle of harbour]

## Deposit description

Buried peats. Hard, consolidated, dry, laminated deposit overlain by marine clays, silts and sands. Valves of intertidal mollusc (*Scrobularia*) and vertebrae of whales in silty clay overlying the peat.

## Deposit stratigraphy

## Associated artefacts

## Early work

## Sample method

## Depth of deposit

## 14C ages available

No

## Notes

Referred to in Tooley (1974).

## Bibliographic reference

Kendall, W. 1900 'Submerged peat mosses, forest remains and post-glacial deposits in Barrow Harbour', Transactions of the Barrow Naturalists' Field Club, 3(2), 55-63.

# Beckfoot, Cumbria

Record ID 646

## Authors

Bullen Consultants Ltd

## Year

1998 Nov

## Location description

120 m seaward of high water mark.

## Deposit location

[c. NY 08521 49769]

## Deposit description

An exposure of forest soil, containing peat and recognisable organic fragments. Normally 50-100 m long. Trends NE-SW.

## Deposit stratigraphy

Rests on what is thought to be ancient beach deposits.

## Associated artefacts

## Early work

## Sample method

## Depth of deposit

## 14C ages available

No

## Notes

Pg 12. Dated to 8000 BC. [RIGS site]

## Bibliographic reference

Bullen Consultants Ltd 1998 Nov 'Shoreline Management Plan: St Bees Head to River Sark. Data collection, analysis, interpretation and objective setting. Volume III: Supporting information (ref. 96M477/2/C)'.

# Drigg, Cumbria

Record ID 526

## Authors

Tooley, M.

## Year

1985b

## Location description

## Deposit location

SD 0472 9854

## Deposit description

Intertidal submerged forest.

## Deposit stratigraphy

## Associated artefacts

## Early work

## Sample method

## Depth of deposit

-1, +7 m OD; and -2, +7 m OD

## 14C ages available

No

## Notes

Kettle hole deposit - on beach. Limnic and terrestrial deposit - in cliff.

## Bibliographic reference

Tooley, M. 1985b 'Sea level changes and coastal morphology in North-west England' in 'The Geomorphology of North-west England', (ed.s) Johnson, R., 94-121, Manchester: Manchester University Press.

# Furness coast, Cumbria

Record ID 248

## Authors

Ashton, W.

## Year

1920

## Location description

Places along coast

## Deposit location

## Deposit description

Prehistoric forest.

## Deposit stratigraphy

## Associated artefacts

## Early work

## Sample method

## Depth of deposit

## 14C ages available

No

## Notes

## Bibliographic reference

Ashton, W. 1920 'Evolution of a coastline', London.

# Glasson, Cumbria

Record ID 529

## Authors

Tooley, M.

## Year

1985b

## Location description

## Deposit location

## Deposit description

## Deposit stratigraphy

## Associated artefacts

## Early work

## Sample method

## Depth of deposit

## 14C ages available

No

## Notes

**Kettle hole deposit.**

## Bibliographic reference

Tooley, M. 1985b 'Sea level changes and coastal morphology in North-west England' in 'The Geomorphology of North-west England', (ed.s) Johnson, R., 94-121, Manchester: Manchester University Press.

# Glasson, Cumbria

Record ID 611

## Authors

Chapman, W.

## Year

1823

## Location description

1/2 mile NW of Glasson, extending into Kirklands.

## Deposit location

[c.NY 244 613]

## Deposit description

Oak wood retrieved from a subterranean forest. Prostrate trees, fallen in northerly direction. Some in situ tree boles. Some >4' [1.22 m] girth.

## Deposit stratigraphy

Embedded in soft blue clay.

## Associated artefacts

Lies 3-4' [0.91-1.22 m] below wall foundations built by Severus.

## Early work

## Sample method

Cut through during canal excavation.

## Depth of deposit

A little below level of high tide. (8-10' [2.44 to 3.05 m] below ground surface).

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

No

## Notes

Mentions generically, tree remains in peat on shores around Britain at or below level of spring tide low water.

## Bibliographic reference

Chapman, W. 1823 'Account of some antiquities presented to the Society by William Chapman Esq, civil engineer, communicated by him to the secretaries', *Archaeologia Aeliana*, Series 1, 2, 115-119.



# Leven Estuary, Cumbria

Record ID 407

## Authors

Tooley, M.

## Year

1974

## Location description

## Deposit location

## Deposit description

Peat beds ranging in height from -11.13 to -16.40 m OD. Hard, consolidated, dry, laminated peat deposit overlain by marine clays, silts and sands. Biogenic sediment overlain by pebble beds or sand containing either *Cerastoderma edule* or *mytilus edulis*.

## Deposit stratigraphy

## Associated artefacts

## Early work

## Sample method

## Depth of deposit

## 14C ages available

Yes

## Notes

Survey carried out by Sir Alexander Gibb and Partners for the Water Resources Board. Referred to in Tooley (1974) - see for borehole strats and locations (Fig 5)

## Subsite details

ID 92

## Location

North western corner of Bay.

## Depth

c. -15 m OD

## Description

Borehole A1.

**ID** 93

**Location**

North western corner of Bay.

**Depth**

c. -10 m OD

**Description**

Borehole B1

.

**ID** 94

**Location**

North western corner of Bay.

**Depth**

c. -15 m OD

**Description**

Borehole C8

.

**ID** 95

**Location**

North western corner of Bay.

**Depth**

c. -17 m OD

**Description**

Borehole A5

.

**ID** 96

**Location**

North western corner of Bay.

**Depth**

c. -15 m OD

**Description**

Borehole C7.

## 14C details

**ID** 278

**Laboratory code** Hv3362

**Sample location**

**Depth of sample**

**Dated sample description**

c. -10 m OD

**Age (uncal)**

**Age (cal)**

**Delta 13C**

7995 ± 80

### Notes

Borehole B1. Contains evidence of rising freshwater table (pollen -aquatic taxa replaced by saltmarsh)

.

**ID** 279

**Laboratory code** Hv3356

**Sample location**

**Depth of sample**

**Dated sample description**

c. -15 m OD

**Age (uncal)**

**Age (cal)**

**Delta 13C**

8685 ± 175

### Notes

Borehole C8

.

**ID** 280

**Laboratory code** Hv3361

**Sample location**

**Depth of sample**

**Dated sample description**

c. -17 m OD

**Age (uncal)**

**Age (cal)**

**Delta 13C**

8740 ± 65

**Notes**

Borehole A5. Contains evidence of rising freshwater table (pollen -aquatic taxa replaced by saltmarsh).

**ID** 281**Laboratory code** Hv3360**Sample location****Depth of sample****Dated sample description**

c. -15 m OD

**Age (uncal)****Age (cal)****Delta 13C**

7725 ± 95

**Notes**

Borehole C7.

**Bibliographic reference**

Tooley, M. 1974 'Sea level changes during the last 9000 years in northwest England', Geographical Journal, 140, 18-42.

# Milnthorpe, Cumbria

**Record ID** 356

**Authors**

Ashton, W.

**Year**

1920

**Location description**

Between Milnthorpe and the sands

**Deposit location**

**Deposit description**

Prehistoric forest.

**Deposit stratigraphy**

**Associated artefacts**

**Early work**

**Sample method**

**Depth of deposit**

**14C ages available**

No

**Notes**

**Bibliographic reference**

Ashton, W. 1920 'Evolution of a coastline', London.

# Morecambe Bay, Cumbria/Lancashire

Record ID 253

## Authors

Bell, M.

## Year

1997

## Location description

North of Morecambe Bay

## Deposit location

## Deposit description

Submerged forests.

## Deposit stratigraphy

## Associated artefacts

## Early work

## Sample method

## Depth of deposit

Exposed in intertidal area.

## 14C ages available

No

## Notes

7400-5700 BC

## Bibliographic reference

Bell, M. 1997 'Environmental archaeology in the coastal zone' in 'England's coastal heritage. A survey for English Heritage and the RCHME', (ed.s) Fulford, M., Champion, T. and Long, A., 56-73, English Heritage. Archaeological report 15.

# Morecambe Bay, Cumbria/Lancashire

Record ID 347

## Authors

Crofton, A.

## Year

1876

## Location description

Shore between Heysham and Morecambe.

## Deposit location

## Deposit description

Lumps of hard peat, wood and antlers of red deer washed up.

## Deposit stratigraphy

## Associated artefacts

## Early work

## Sample method

## Depth of deposit

## 14C ages available

No

## Notes

Referred to in Brandon et al (1998).

## Bibliographic reference

Crofton, A. 1876 'Drift, peat etc. of Heysman [Heysham], Morecambe Bay', Transactions of the Manchester Geological Society, 14, 152-154.

# Morecambe Bay, Cumbria/Lancashire

Record ID 404

## Authors

Tooley, M.

## Year

1974

## Location description

## Deposit location

## Deposit description

Peat beds ranging in height from -11.13 to -16.40 m OD. Hard, consolidated, dry, laminated peat deposit overlain by marine clays, silts and sands. Biogenic sediment overlain by pebble beds or sand containing either *Cerastoderma edule* or *mytilus edulis*.

## Deposit stratigraphy

## Associated artefacts

Biogenic sediment - pollen analysed.

## Early work

## Sample method

Transect of boreholes across the bay, for the Morecambe Bay Barrage feasibility survey.

## Depth of deposit

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

Yes

## Notes

Survey carried out by Sir Alexander Gibb and Partners for the Water Resources Board. Referred to in Tooley (1974) - see for borehole strats and locations (Fig 4).

## Subsite details

ID 87

## Location

Western edge of Bay.

## Depth

c. -14 m OD



**Description**

Borehole C1

.

**ID** 88

**Location**

Western edge of Bay.

**Depth**

c. -15 m OD

**Description**

Borehole A1

.

**ID** 89

**Location**

Middle of Bay.

**Depth**

Layers at c.-15, -17, -28, -41, -43 m OD

**Description**

Borehole C3.

**ID** 90

**Location**

Eastern edge of Bay.

**Depth**

c. -15 m OD

**Description**

Borehole C5

.

**ID** 91

**Location**

Eastern edge of Bay.

**Depth**

c. -16 m OD

**Description**

Borehole C6

.

## 14C details

ID 277

Laboratory code Hv3462

**Sample location**

**Depth of sample**

**Dated sample description**

Eastern edge of Bay.

c. -16 m OD

**Age (uncal)**

**Age (cal)**

**Delta 13C**

8330 ± 125

## Notes

Borehole C6. Contains evidence of rising freshwater table (pollen -aquatic taxa replaced by saltmarsh).

## Bibliographic reference

Tooley, M. 1974 'Sea level changes during the last 9000 years in northwest England', Geographical Journal, 140, 18-42.

# Ravenglass, Cumbria

Record ID 530

## Authors

Tooley, M.

## Year

1985b

## Location description

Harbour

## Deposit location

## Deposit description

## Deposit stratigraphy

## Associated artefacts

## Early work

## Sample method

## Depth of deposit

## 14C ages available

No

## Notes

Kettle hole deposit.

## Bibliographic reference

Tooley, M. 1985b 'Sea level changes and coastal morphology in North-west England' in 'The Geomorphology of North-west England', (ed.s) Johnson, R., 94-121, Manchester: Manchester University Press.

# Solway Firth, Cumbria

Record ID 359

## Authors

Chapman, W.

## Year

1823

## Location description

Between Glasson and Kirklands

## Deposit location

## Deposit description

Sunken forest of the Solway' in intertidal zone.

## Deposit stratigraphy

## Associated artefacts

## Early work

Found between 1812-1832 during Carlisle Canal excavation.

Sample method

## Depth of deposit

## 14C ages available

No

## Notes

Chapman (1832 p117). Also, Daniels (1978 p341), Hodgkinson et al. (2000).

## Bibliographic reference

Chapman, W. 1823 'Account of some antiquities presented to the Society by William Chapman Esq, civil engineer, communicated by him to the secretaries', *Archaeologia Aeliana*, Series 1, 2, 115-119.

# St Bees, Cumbria

Record ID 218

## Authors

Pickering, R.

## Year

1878

## Location description

Nearly opposite Sea Mill

## Deposit location

## Deposit description

Submarine (in situ) forest on sea shore. Extends 600 yards [548.64 m], between high and low water mark, dipping seaward. Width varies 40-70 yards [36.58-64.00 m]. Thickness varies 2'-5'6" [0.61- m].

## Deposit stratigraphy

On blue clay layer 1' thick or on red clay. Upright tree roots - oak, alder, birch, fir willow and hazel.

## Associated artefacts

## Early work

## Sample method

## Depth of deposit

## 14C ages available

No

## Notes

## Bibliographic reference

Pickering, R. 1878 'Submerged Forest at St. Bees ', Transactions of the Cumberland Association for the Advancement of Literature and Science, 109.

# St Bees, Cumbria

Record ID 219

## Authors

Pickering, R.

## Year

1878

## Location description

Near Sea Cote

## Deposit location

## Deposit description

Peat patches, usually sand covered.

## Deposit stratigraphy

## Associated artefacts

## Early work

## Sample method

## Depth of deposit

## 14C ages available

No

## Notes

## Bibliographic reference

Pickering, R. 1878 'Submerged Forest at St. Bees ', Transactions of the Cumberland Association for the Advancement of Literature and Science, 109.

# Tarn Bay, Cumbria

Record ID 531

## Authors

Tooley, M.

## Year

1985b

## Location description

## Deposit location

SD 0795 9090

## Deposit description

Intertidal organic sediments.

## Deposit stratigraphy

## Associated artefacts

## Early work

## Sample method

## Depth of deposit

+0.9 m OD

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

No

## Notes

Perimarine deposit.

## Bibliographic reference

Tooley, M. 1985b 'Sea level changes and coastal morphology in North-west England' in 'The Geomorphology of North-west England', (ed.s) Johnson, R., 94-121, Manchester: Manchester University Press.

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