

between Leman and Ower Bank, North Sea

Record ID 342

Authors

Godwin, H. and Godwin, M.

Year

1933

Location description

Deposit location

Deposit description

Peat lumps (moorlog) trawled up.

Deposit stratigraphy

Associated artefacts

Barbed bone weapon tip embedded in a lump of peat (early Boreal), 25 miles (40 km) from coast in 19-20 fathoms (6 [sic] m) water [36 m]. This original peat not kept.

Early work

Sample method

Samples trawled up by Colinda in 1931 and 1932.

Depth of deposit

¹⁴C ages available

No

Notes

[Also: Tool c. 11740 ± 150BP (Housely, 1991) (Mesolithic); peat 8500 years BP; Smith and Bonsall (1991); Barton (1999); Coles (1998)].

Subsite details

ID 275

Location

Depth

Description

Moorlog samples retrieved from near harpoon discovery site. Pollen analysis carried out (Godwin & Godwin and Erdtman) suggests pre Boreal age.

ID 276

Location

From between the two north buoys of the Leman and Ower.

Depth

Description

Moorlog sample retrieved by trawler 'Colinda'

Bibliographic reference

Godwin, H. and Godwin, M. 1933 'British Maglemose harpoon sites', *Antiquity*, 7, 36-48.

between Leman and Ower Bank, North Sea

Record ID 449

Authors

Godwin, H. and Willis, E.

Year

1959

Location description

Deposit location

53deg10'N Lat, 2deg0'E Long [TG 67320 70789 converted]

Deposit description

Peat bed.

Deposit stratigraphy

Associated artefacts

Mesolithic barbed point embedded in the peat.

Early work

Sample method

Dredging.

Depth of deposit

Water depth of 120 ft [36.6 m].

14C ages available

Yes

Notes

14C details

ID 317

Laboratory code Q-105

Sample location

[TG 67320 70789]
[converted]

Depth of sample

Dredged. (-90 ft OD) -37 m
water depth

Dated sample description

Peat.

Age (uncal)

8422 ± 170 [?8425]

Age (cal)

n/a

Delta 13C

Notes

Also see Godwin (1960).

Bibliographic reference

Godwin, H. and Willis, E. 1959 'Cambridge University Natural Radiocarbon Measurements I', Radiocarbon, 1, 63-75.

between Leman and Ower Bank, North Sea

Record ID 464

Authors

Bonsall, C. and Smith, C.

Year

1989

Location description

Deposit location

Deposit description

Deposit stratigraphy

Associated artefacts

Antler/bone

Early work

Sample method

Depth of deposit

14C ages available

Yes

Notes

(see Archaeometry 27/28/29/31).

14C details

ID 330

Laboratory code OxA-1950

Sample location

53degN 2degE
[converted TG
68356 52263]

Depth of sample

Antler/bone (barbed point)

Dated sample description

Age (uncal)

11740 ± 150

Age (cal)

-21.0

Delta 13C

Notes

Bibliographic reference

Bonsall, C. and Smith, C. 1989 'Late Palaeolithic and Mesolithic bone and antler artefacts from Britain: first reaction to accelerator dates', *Mesolithic Miscellany*, 10, 33-38.

between Leman and Ower Bank, North Sea

Record ID 560

Authors

Burkitt, M.

Year

1932

Location description

25 miles from the Norfolk coast.

Deposit location

Deposit description

Moorlog.

Deposit stratigraphy

Associated artefacts

Maglemose-type harpoon dredged up by The Colinda, skipper PE Lockwood. Now at Norwich Castle Museum.

Early work

Sample method

Depth of deposit

14C ages available

No

Notes

Bibliographic reference

Burkitt, M. 1932 'A Maglemose harpoon dredged up recently from the North Sea', *Man*, 32, 118.

Brown Bank, North Sea

Record ID 100

Authors

Verhart, L.

Year

1995

Location description

Deposit location

Deposit description

35 km-long, narrow ridge, 19 m under water. Unsure if former beach barrier, spit or barrier island. Along the ridge, deep gullies cut into clay and peat layers

Deposit stratigraphy

Associated artefacts

Unworked animal bones, oldest of which are Weichselian. Mesolithic worked bones and stone also found (dated typologically), mainly by fishermen. Also, evidence of dog gnawing

Early work

Sample method

Depth of deposit

14C ages available

No

Notes

Refers to occupied North Sea as 'North Sea Plain'. [NB Brown Bank is Dutch territory].

Bibliographic reference

Verhart, L. 1995 'Fishing for the Mesolithic. The North Sea: a submerged Mesolithic landscape' in 'Man and sea in the Mesolithic', (ed.s) Fischer, A., 291-302.

Dogger Bank, North Sea

Record ID 78

Authors

Coles, B.

Year

1998

Location description

Deposit location

Deposit description

Peat remains - birch, willow and hazel

Deposit stratigraphy

Associated artefacts

Mineralised animal bones; antler/bone artefact

Early work

Sample method

Depth of deposit

14C ages available

Yes

Notes

14C details

ID 32

Laboratory code

Sample location

Depth of sample

Dated sample description

Bone artefact

Age (uncal)

Age (cal)

Delta 13C

c. 6050 cal. BC

Notes

Bibliographic reference

Coles, B. 1998 'Doggerland; a speculative survey', Proceedings of the Prehistoric Society, 64, 45-81.

Dogger Bank, North Sea

Record ID 79

Authors

Hansen, J.

Year

1981

Location description

Eastern Dogger Bank

Deposit location

Deposit description

Tree stumps

Deposit stratigraphy

Associated artefacts

Early work

Sample method

Seismic survey

Depth of deposit

40-50 m depth

¹⁴C ages available

No

Notes

Bibliographic reference

Hansen, J. 1981 'Naturgasprojektet og de marinarkæologiske forundersøgelser: en forundersøgelse udført af Fredningsstyrelsen i samarbejde med Nationalmuseets Skibshistorisk laboratorium', Copenhagen: Fredningsstyrelsen.

Dogger Bank, North Sea

Record ID 80

Authors

Shennan, I., Lambeck, K., Horton, B.,
Innes, J., L

Year

2000a

Location description

Deposit location

[c. OY 220 902, from map]

Deposit description

Thin silt peat layer (4 cm thick), formed
under saltmarsh conditions during
relatively slow marine transgression.

Deposit stratigraphy

Peat is on top of diamicton, and under 4 m
of sand silt.

Associated artefacts

Early work

Sample method

Geotechnical core 55/+02/213VE (sand
and gravel extraction)

Depth of deposit

-31.06 m OD (top of peat layer)

¹⁴C ages available

Yes

Notes

[See page 303 and Table 1]. Wessex Archaeology (2003c) is a related report for Area 466,
NW Doggerbank.

14C details

ID 33

Laboratory code AA22662

Sample location	Depth of sample	Dated sample description
[c. OY 220 902, from map]	-31.06 m OD	Top of peat layer.
Age (uncal)	Age (cal)	Delta 13C
8140 ± 50/55 14C years BP	-26.63	

Notes

Core 55/+02/213VE. Positive sea level tendency. Reliable sea-level index point. [Different errors reported in table and text].

Bibliographic reference

Shennan, I., Lambeck, K., Horton, B., Innes, J., L 2000a 'Modelling western North Sea palaeogeographies and tidal changes during the Holocene' in 'Holocene land-ocean interaction and environmental change around the North Sea', (ed.s) Shennan, I. and Andrews, J., 299-319, The Geological Society Special Publication No. 166.

Dogger Bank, North Sea

Record ID 81

Authors

Whitehead, H. and Goodchild, H.

Year

1909

Location description

Deposit location

Deposit description

Moorlog peat deposit retrieved by fishermen.

Deposit stratigraphy

Associated artefacts

Early work

Sample method

Depth of deposit

14C ages available

No

Notes

Bibliographic reference

Whitehead, H. and Goodchild, H. 1909 'Some notes on "moorlog", a peaty deposit from the Dogger Bank in the North Sea', Essex Naturalist, 16, 51-60.

Dogger Bank, North Sea

Record ID 82

Authors

Louwe Kooijmans, L.

Year

(1970-71)

Location description

Deposit location

Deposit description

Peat and moorlog deposits.

Deposit stratigraphy

Associated artefacts

Descriptions of numerous implements.

Early work

Sample method

Depth of deposit

14C ages available

No

Notes

[Peat deposits plotted on Figure 18 - sites taken from Clark (1936), Vermeer-Louman (1934) and Oele (1971)].

Bibliographic reference

Louwe Kooijmans, L. (1970-71) 'Mesolithic bone and antler implements from the North Sea and from the Netherlands', Ber. Rijksdienst oudheidk. Bodemonderz., 20/21, 27-73+plates.

Dogger Bank, North Sea

Record ID 84

Authors

Behre, K. and Menke, B.

Year

1969

Location description

SE of Dogger Bank.

Deposit location

Deposit description

Peat deposits 9500-9000 year - Late Preboreal.

Deposit stratigraphy

Associated artefacts

Early work

Sample method

Bored.

Depth of deposit

-46 m water depth.

¹⁴C ages available

No

Notes

Behre and Menke (1969) referred to in Fitch et al. (2005)

Bibliographic reference

Behre, K. and Menke, B. 1969 'Pollenanalytische Untersuchungen an einem Bohrkern der südlichen Doggerbank', Beiträge zur Meereskunde, 24/25, 123-129.

Dogger Bank, North Sea

Record ID 651

Authors

Veenstra, H.

Year

1965

Location description

Southeastern margin of Dogger Bank.

Deposit location

Deposit description

Peat.

Deposit stratigraphy

Associated artefacts

Early work

Sample method

Depth of deposit

14C ages available

Yes

Notes

14C age is from Jelgersma (1961). Subsequent accumulation rates are calculated as an average of 0.3 mm/year.

14C details

ID 504

Laboratory code

Sample location

Depth of sample

39 m

Dated sample description

Age (uncal)

9300 14C years BP

Age (cal)

Delta 13C

Notes

Preboreal

Bibliographic reference

Veenstra, H. 1965 'Geology of the Dogger Bank area, North Sea', Marine Geology, 3(4), 245-262.

Flemish Bight, North Sea

Record ID 103

Authors

Flemming, N.

Year

2002

Location description

Deposit location

52-53degN, 2-4degE (whole sheet area)

Deposit description

Basal peat in Elbow Formation. Contains coastal bivalve *Spisula subtruncata*. Holocene.

Deposit stratigraphy

Associated artefacts

Early work

Sample method

Depth of deposit

¹⁴C ages available

No

Notes

BGS sediment maps

Bibliographic reference

Flemming, N. 2002 'The scope of strategic environmental assessment of North Sea areas SEA3 and SEA2 in regard to prehistoric archaeological remains', Department of Trade and Industry, London.

Frigg Island, North Sea

Record ID 102

Authors

Long, D., Wickham-Jones, C. and Ruckley, N.

Year

1986

Location description

Deposit location

Deposit description

Frigg Island, thought to be inundated about 12,000 years ago (Blystad, 1989). Context indicates late glacial age.

Deposit stratigraphy

Associated artefacts

Small, retouched flake considered to be anthropogenic

Early work

Sample method

Depth of deposit

14C ages available

No

Notes

Bibliographic reference

Long, D., Wickham-Jones, C. and Ruckley, N. 1986 'A flint artefact from the northern North Sea' in 'Studies in the Upper Palaeolithic of Britain and northwest Europe', (ed.s) Roe, D., 55-62, BAR International Series, Oxford.

Indefatigable, North Sea

Record ID 104

Authors

Flemming, N.

Year

2002

Location description

Deposit location

53-54deg N, 2-4degE (whole sheet area)

Deposit description

Elbow Formation (early Holocene clay and peat) 5-20 m thick mapped in SE half of BGS sheet. Holocene.

Deposit stratigraphy

Associated artefacts

Early work

Sample method

Depth of deposit

14C ages available

No

Notes

BGS sediment maps

Bibliographic reference

Flemming, N. 2002 'The scope of strategic environmental assessment of North Sea areas SEA3 and SEA2 in regard to prehistoric archaeological remains', Department of Trade and Industry, London.

Leman Bank, North Sea

Record ID 90

Authors

Shennan, I., Lambeck, K., Horton, B.,
Innes, J., L

Year

2000a

Location description

Deposit location

53.33533, 1.74333 [TG 49191 88610
converted]

Deposit description

Core 53/+01/1567

Deposit stratigraphy

Associated artefacts

Early work

Sample method

Depth of deposit

¹⁴C ages available

Yes

Notes

LOIS core.

14C details

ID 38

Laboratory code AA23946

Sample location	Depth of sample	Dated sample description
53.33533, 1.74333 [TG 49191 88610 converted]	-32.77 m OD	

Age (uncal)	Age (cal)	Delta 13C
8775 ± 70 14C years BP	-28.88	

Notes

Core 53/+01/1567. Positive sea-level indicator.

Bibliographic reference

Shennan, I., Lambeck, K., Horton, B., Innes, J., L 2000a 'Modelling western North Sea palaeogeographies and tidal changes during the Holocene' in 'Holocene land-ocean interaction and environmental change around the North Sea', (ed.s) Shennan, I. and Andrews, J., 299-319, The Geological Society Special Publication No. 166.

Leman Bank, North Sea

Record ID 650

Authors

Godwin, H.

Year

1960

Location description

Deposit location

Deposit description

Peat.

Deposit stratigraphy

Associated artefacts

Early work

Sample method

Depth of deposit

¹⁴C ages available

Yes

Notes

[Referred to in Lambeck, 1995].

¹⁴C details

ID 503

Laboratory code

Sample location

Depth of sample

Dated sample description

Age (uncal)

Age (cal)

Delta 13C

8400 years BP

Notes

Bibliographic reference

Godwin, H. 1960 'Radiocarbon dating and Quaternary history in Britain', Proceedings of the Royal Society of London, Series B, 153, 287-320.

Noah's woods, North Sea

Record ID 101

Authors

Reid, C.

Year

1913

Location description

Deposit location

Deposit description

Reference to peat and wood findings indicating that the North Sea was once dry land.

Deposit stratigraphy

Associated artefacts

Early work

Sample method

Depth of deposit

14C ages available

No

Notes

Bibliographic reference

Reid, C. 1913 'Submerged forests', Cambridge: Cambridge University Press.

North Sea, North Sea

Record ID 508

Authors

Godwin, H.

Year

1943

Location description

Deposit location

Deposit description

Moorlog deposits - pollen analysis done on samples.

Deposit stratigraphy

Associated artefacts

Early work

Sample method

Depth of deposit

¹⁴C ages available

No

Notes

(Various authors).

Subsite details

ID 129

Location

55deg10'N 4deg20'E [OT 03128 04142 converted]

Depth

22 fathoms [40.23 m]

Description

Erdtman

ID 130

Location

54deg50'N 4deg24'E [OY 11834 67618 converted]

Depth

29 fathoms [53.04 m]

Description

Erdtman

ID 131

Location

55deg32' N 4deg27'E [OT 06757 45533 converted]

Depth

18 fathoms [32.92 m]

Description

Erdtman

ID 132

Location

54deg50'N 4deg35'E [OY 22515 68613 converted]

Depth

22 fathoms [40.23 m]

Description

Erdtman

ID 133

Location

54deg46'N 4deg0'E [OX 85761 57839 converted]

Depth

28 fathoms [51.21 m]

Description

Erdtman

ID 134

Location

55deg0'N 4deg38'E [OY 23958 87418 converted]

Depth

23 fathoms [42.06 m]

Description

Erdtman

ID 135

Location

53deg19'N 2degE [TG 67320 70789 converted]

Depth

19 fathoms [34.75 m]

Description

Erdtman (x2)

ID 136

Location

53deg19'N 2degE [TG 67320 70789 converted]

Depth

19 fathoms [34.75 m]

Description

H and ME Godwin (x4)

ID 137

Location

56deg25'N 5deg55'E [OO 87766 53073 converted]

Depth

21 fathoms [38.40 m]

Description

Vermeer-Louman (x3)

ID 138

Location

56deg25'N 5deg55'E [OO 87766 53073 converted]

Depth

21 fathoms [38.40 m]

Description

Vermeer-Louman

ID 139

Location

Unknown

Depth

Unknown

Description

Vermeer-Louman

ID 140

Location

Shore pebble

Depth

Unknown

Description

H Godwin

Bibliographic reference

Godwin, H. 1943 'Coastal peat beds of the British Isles and North Sea', *Journal of Ecology*, 31, 199-247.

North Sea, North Sea

Record ID 519

Authors

Jarke, J.

Year

1956

Location description

Deposit location

Deposit description

Deposit stratigraphy

Associated artefacts

Early work

Sample method

Depth of deposit

¹⁴C ages available

No

Notes

Referred to in Caston (1979) Pg 216.

Subsite details

ID 148

Location

[OX 49716 64204 from map]

Depth

Description

Peat.

ID 149

Location

[OX 63470 93253 from map]

Depth

Description

Peat.

ID 150

Location

[OX 90403 78754 from map]

Depth

Description

Peat.

ID 151

Location

[OS 90655 12350 from map]

Depth

Description

Peat.

Bibliographic reference

Jarke, J. 1956 'Der Boden der sudlichen Nordsee 1. Beitrag: Eine neue Bodenkarte der sudlichen Nordsee', Dtsch Hydrogr. Z., 9, 1-9.

North Sea, North Sea

Record ID 575

Authors

Moodley, L. and van Weering, T.

Year

1993

Location description

Southern North Sea, off Netherlands

Deposit location

Deposit description

Two peat layers within core.

Deposit stratigraphy

Sand on clay on peat.

Associated artefacts

Early work

Sample method

Depth of deposit

Peat layer 213-222 cm in core.

14C ages available

Yes

Notes

Series of 14C dates on the core.

Subsite details

ID 172

Location

Depth

213-222 cm in core

Description

Basal peat.

ID 173

Location

Depth

c.120-121 cm in core

Description

Peat layer.

ID 174

Location

Depth

c.133-136 cm in core.

Description

Peat layer. 14C age from just below this layer was excluded as too old.

14C details

ID 427

Laboratory code Utc-2074

Sample location

Depth of sample

Dated sample description

215 cm in core

Basal peat layer.

Age (uncal)

Age (cal)

Delta 13C

8720 ± 90 BP

Notes

Core M2.

ID 428

Laboratory code Utc-2072

Sample location

Depth of sample

Dated sample description

140 cm in core.

Plant debris.

Age (uncal)

Age (cal)

Delta 13C

9210 ± 90 BP

Notes

Omitted as too old - reworked material.

Bibliographic reference

Moodley, L. and van Weering, T. 1993 'Foraminiferal record of the Holocene development of the marine environment in the southern North Sea', Netherlands Journal of Sea Research, 31(1), 43-52.

North Sea, North Sea

Record ID 576

Authors

Jelgersma, S.

Year

1961

Location description

Deposit location

Deposit description

Dredged peat.

Deposit stratigraphy

Associated artefacts

Early work

Sample method

Depth of deposit

¹⁴C ages available

Yes

Notes

Basal peat deposits found by Jelgersma (1961) are named in Oele and Schuttenhelm 40m below sea level).

¹⁴C details

ID 431

Laboratory code

Sample location

Depth of sample

-26 m NAP

Dated sample description

Moorlog peat

Age (uncal)

8400 ± 300

Age (cal)

10000-8500 cal. year BP

Delta 13C

Notes

Pollen A. Zone IIb Late Boreal. Dredged.

ID 432

Laboratory code

Sample location

Depth of sample

Dated sample description

-35 m NAP

Moorlog peat

Age (uncal)

Age (cal)

Delta 13C

9000 ± 300

10900-9400 cal. year BP

Notes

Pollen B. Zone Ic Late Preboreal. Dredged.

ID 433

Laboratory code

Sample location

Depth of sample

Dated sample description

-33 m NAP

Moorlog peat

Age (uncal)

Age (cal)

Delta 13C

8700 ± 300

10300-9000 cal. year BP

Notes

Pollen C. Zone IIa Early Boreal. Dredged.

ID 434

Laboratory code

Sample location

Depth of sample

Dated sample description

-28 m NAP

Moorlog peat

Age (uncal)

Age (cal)

Delta 13C

8500 ± 300

10000-8600 cal. year BP

Notes

Pollen D. Zone IIa Early Boreal (younger than sample Pollen C). Dredged.

ID 436

Laboratory code GrN-2274

Sample location

Off IJmuiden, Netherlands

Depth of sample

-21.5 to -21.52 NAP

Dated sample description

Base of Lower peat.

Age (uncal)

8070 ± 100

Age (cal)

Delta 13C

Notes

Bored. Pollen Zone II Late Boreal. (Page 30).

Bibliographic reference

Jelgersma, S. 1961 'Holocene sea level changes in the Netherlands', Mededelingen van de Geologische Stichting, C-VI, 1-101.

North Sea, North Sea

Record ID 577

Authors

Jelgersma, S., Oele, E. and Wiggers, A.

Year

1979

Location description

Deposit location

Deposit description

Peat.

Deposit stratigraphy

Associated artefacts

Early work

Sample method

Depth of deposit

¹⁴C ages available

Yes

Notes

Pg 133 and Fig IV-28 (Pg 117).

Subsite details

ID 209

Location

Depth

Description

Block A18. Peat deposit.

ID 210

Location

Depth

Description

Block B13. Peat deposit.

ID 211

Location

Depth

Description

Block E11. Peat deposit.

ID 212

Location

Depth

Description

Block K7. Peat deposit.

ID 213

Location

Depth

Description

Block K12. Peat deposit.

ID 214

Location

Depth

Description

Block K14. Peat deposit.

ID 215

Location

Depth

-51m below mean sea level.

Description

Block E13. Peat deposit.

14C details

ID 429

Laboratory code GrN-5758

Sample location	Depth of sample	Dated sample description
	-46 m below MSL	Phragmites peat

Age (uncal)

9935 ± 55

Age (cal)

11667-10993 cal. years
BP

Delta 13C

-28.95

Notes

Block F15.

ID 430

Laboratory code GrN-5759

Sample location	Depth of sample	Dated sample description
	-47 m below MSL	Phragmites peat

Age (uncal)

9445 ± 80

Age (cal)

10894-10214 cal. years
BP

Delta 13C

-29.64

Notes

Block F14.

Bibliographic reference

Jelgersma, S., Oele, E. and Wiggers, A. 1979 'Depositional history and coastal development in the Netherlands and the adjacent North Sea since the Eemian' in 'The Quaternary history of the North Sea', (ed.s) Oele, E., Schuttenhelm, R. and Wiggers, A., 115-142, University of Uppsala.

North Sea, North Sea

Record ID 578

Authors

Vermeer-Louman, G.

Year

1934

Location description

Doggersbank

Deposit location

Deposit description

Peat.

Deposit stratigraphy

Associated artefacts

Early work

Sample method

Depth of deposit

-39 m below MSL

¹⁴C ages available

No

Notes

9300 ± 100. Zone Ib. Pollen. Late Pre-Boreal.

Bibliographic reference

Vermeer-Louman, G. 1934 'Pollenanalytisch onderzoek van den West-Nederlandschen bodem', Unpublished PhD thesis, University of Amsterdam.

North Sea, North Sea

Record ID 579

Authors

Oele, E.

Year

1971a

Location description

Deposit location

Deposit description

Peat.

Deposit stratigraphy

Associated artefacts

Early work

Sample method

Depth of deposit

14C ages available

No

Notes

[Referred to in Louwe Kooijmans 1970-71].

14C details

ID 437

Laboratory code

Sample location

Depth of sample

-24.5 NAP

Dated sample description

Peat.

Age (uncal)

Age (cal)

Delta 13C

Notes

Boreal. (Goeree Light vessel).

Bibliographic reference

Oele, E. 1971a 'The Quaternary geology of the southern area of the Dutch part of the North Sea', *Geologie en Mijnbouw*, 50(3), 461-474.

North Sea, North Sea

Record ID 580

Authors

Oele, E.

Year

1969

Location description

NW of Frisian Isles

Deposit location

Deposit description

Peat Early Preboreal.

Deposit stratigraphy

Associated artefacts

Early work

Sample method

Bored.

Depth of deposit

-47 m OD

¹⁴C ages available

No

Notes

Bibliographic reference

Oele, E. 1969 'The Quaternary geology of the Dutch part of the North Sea, north of the Frisian Isles', *Geologie en Mijnbouw*, 48, 467-480.

North Sea, North Sea

Record ID 582

Authors

Behre, K., Menke, B. and Streif, H.

Year

1979

Location description

German Bight

Deposit location

Deposit description

Deposit stratigraphy

Associated artefacts

Early work

Sample method

Depth of deposit

14C ages available

Yes

Notes

14C details

ID 439

Laboratory code Hv7095

Sample location

Depth of sample

-38.09 m below MSL

Dated sample description

Basal peat - brackish.

Age (uncal)

8190 ± 140

Age (cal)

9450-8618

Delta 13C

-29.80

Notes

Borehole 235.

ID 440

Laboratory code Hv7094

Sample location

Depth of sample

Dated sample description

-38.19 m below MSL

Basal peat - brackish.

Age (uncal)

Age (cal)

Delta 13C

8485 ± 125

9822-9210

-29.40

Notes

Borehole 235.

Bibliographic reference

Behre, K., Menke, B. and Streif, H. 1979 'The Quaternary geological development of the German part of the North Sea' in 'The Quaternary history of the North Sea', (ed.s) Oele, E., Schuttenhelm, R. and Wiggers, A., 85-113.

off North Norfolk, North Sea

Record ID 343

Authors

Shennan, I., Lambeck, K., Horton, B.,
Innes, J., L

Year

2000a

Location description

Deposit location

Deposit description

Deposit stratigraphy

Associated artefacts

Early work

Sample method

LOIS cores.

Depth of deposit

14C ages available

Yes

Notes

Subsite details

ID 83

Location

Depth

Description

14C details

ID 250

Laboratory code AA27142

Sample location

52.99183, 1.10683
[TG 08492 48383
converted]

Depth of sample

-19.89 m OD (15 m water
depth)

Dated sample description

Top of peat.

Age (uncal)

7580 ± 70 14C years BP

Age (cal)

Delta 13C

Notes

11 cm of silt peat overlain by 5 m clay, in Core 52/+01/2699. Contact is positive sea-level index point.

ID 514

Laboratory code AA27148

Sample location

53.04183, 1.10583
[TG 08184 53940
converted]

Depth of sample

-22.87 m OD

Dated sample description

Age (uncal)

7975 ± 55 14C years BP

Age (cal)

Delta 13C

Notes

Core 53/+01/1530. Limiting sea-level tendency.

Bibliographic reference

Shennan, I., Lambeck, K., Horton, B., Innes, J., L 2000a 'Modelling western North Sea palaeogeographies and tidal changes during the Holocene' in 'Holocene land-ocean interaction and environmental change around the North Sea', (ed.s) Shennan, I. and Andrews, J., 299-319, The Geological Society Special Publication No. 166.

off North Norfolk, North Sea

Record ID 419

Authors

Balson, P.

Year

1999

Location description

Deposit location

Deposit description

LOIS cores - show basal peat overlain by up to 14 m thick of silts and clayey silts. Peat is often thin (a few cms) and contains *Pediastrum alga* (freshwater).

Deposit stratigraphy

Some cores the peat is truncated (eroded). Not truncated where show gradual upward transition through saltmarsh peats and intertidal muds.

Associated artefacts

Early work

Sample method

Depth of deposit

14C ages available

No

Notes

i.e. flooding of land surface with freshwater ponds and marshes in shallow depressions, by the rapidly advancing sea. Occurred 9000-7500 BP, at c. 12 mm/yr.

Bibliographic reference

Balson, P. 1999 'The Holocene coastal evolution of eastern England: evidence from the southern offshore North Sea' in 'Procs. 4th Intern. Symp. Coastal Eng. Sci. of Coastal Sedim. Proc.', (ed.s) Kraus, N., 1284-1294.

Sandettie-Fairy Bank, North Sea

Record ID 98

Authors

Kirby, R. and Oele, E.

Year

1975

Location description

Deposit location

[c. TR 901 606]

Deposit description

One core retrieved early Holocene deposit (with basal transgressive Pre-Boreal peat layer), on top of Weichselian fluvatile layer, on cold-water marine Eemian sediments

Deposit stratigraphy

Associated artefacts

Early work

Sample method

vibrocore

Depth of deposit

14C ages available

No

Notes

Bibliographic reference

Kirby, R. and Oele, E. 1975 'The geological history of the Sandettie-Fairy Bank area, southern North Sea', Philosophical Transactions of the Royal Society of London, Series A, 279, 257-267.

Sandettie-Fairy Bank, North Sea

Record ID 99

Authors

Kirby, R. and Oele, E.

Year

1975

Location description

Deposit location

Deposit description

Two peat blocks, thought to be from same horizon as layer (Record 98)

Deposit stratigraphy

Associated artefacts

Early work

Sample method

Depth of deposit

14C ages available

Yes

Notes

14C details

ID 50

Laboratory code

Sample location

Depth of sample

Dated sample description

Peat block

Age (uncal)

9374 ± 90 BP

Age (cal)

Delta 13C

Notes

ID 51

Laboratory code

Sample location

Depth of sample

Dated sample description

Peat block

Age (uncal)

Age (cal)

Delta 13C

9949 ± 125 BP

Notes

Bibliographic reference

Kirby, R. and Oele, E. 1975 'The geological history of the Sandettie-Fairy Bank area, southern North Sea', Philosophical Transactions of the Royal Society of London, Series A, 279, 257-267.

Sheringham Shoal, North Sea

Record ID 478

Authors

Wessex Archaeology

Year

Jan 2006

Location description

Deposit location

Deposit description

Offshore windfarm site - vibrocores contain peat.

Deposit stratigraphy

Associated artefacts

Early work

Sample method

Vibrocore.

Depth of deposit

14C ages available

No

Notes

Also reference to possible peat deposits in Brew (2005) for Royal Haskoning.

Subsite details

ID 110

Location

Depth

21.33 to 21.42 m below sea level.

Description

VC7 - black peat, occasional roots. Below is sand, and above is clay.

ID 111

Location

Depth

16.60-16.66 m below sea level.

Description

VC9 - black peat. Above is silty clay, below is clay and sands.

ID 112

Location

Depth

24.33-24.43 m below sea level

Description

VC15 - black peat with estuarine molluscs. Above is sand, below is silty clay. (Also, above is peaty sand layer).

ID 113

Location

Depth

17.93-18.02 m below sea level.

Description

VCB - homogeneous black peat.

ID 114

Location

Depth

20.11-20.13 m below sea level.

Description

VCD - black peat. Frequent Phragmites. Above is sand, below is silty clay.

ID 115

Location

Depth

19.51-19.67 m below sea level.

Description

VCE7 - very dark brown peat. Occasional Phragmites.

ID 116

Location

Depth

27.10-27.71 m below sea level.

Description

VCG - black peat. Frequent Phragmites stems.

Bibliographic reference

Wessex Archaeology Jan 2006 'Sheringham Shoal offshore windfarm. Stage 2 Archaeological recording and sampling of vibrocores. Ref 61032.02', Report publically available online through COWRIE website..

Well Bank, North Sea

Record ID 91

Authors

Shennan, I., Lambeck, K., Horton, B.,
Innes, J., L

Year

2000a

Location description

Deposit location

[c. TG 780 305, from map]

Deposit description

Suite of cores containing organic deposits
at similar depths.

Deposit stratigraphy

Organic silts are overlain by clastic
sediments.

Associated artefacts

Early work

Sample method

LOIS cores.

Depth of deposit

Between -37 and -39 m (varies between
cores).

¹⁴C ages available

Yes

Notes

[Core codes should be checked; 52 or 53 - inconsistencies between text, table and Figure 1].

¹⁴C details

ID 39

Laboratory code AA27143

Sample location

Depth of sample

Dated sample description

-37.52 m OD

Upper contact

Age (uncal)

9145 ± 60 ¹⁴C
years BP

Age (cal)

-28.47

Delta ¹³C

Notes

Silt limus overlain by sand, in Core 52/+02/1398 (Well Bank 4). Positive sea-level indicator.

ID 40

Laboratory code AA27144

Sample location **Depth of sample** **Dated sample description**

-37.92 m OD

Age (uncal)

Age (cal)

Delta 13C

8995 ± 60 14C years BP

-28.01

Notes

Core 52/+02/1399 (Well Bank 4a). Positive sea-level index point.

ID 41

Laboratory code AA27145

Sample location **Depth of sample** **Dated sample description**

-38.61 m OD

Age (uncal)

Age (cal)

Delta 13C

9045 ± 65 14C years BP

-28.63

Notes

Core 52/+02/1400 (Well Bank 3). Positive sea-level index point.

ID 42

Laboratory code AA27146

Sample location **Depth of sample** **Dated sample description**

-38.88 m OD

Age (uncal)

Age (cal)

Delta 13C

9155 ± 70 14C years BP

-28.96

Notes

Core 53/+02/1496 (Well Bank 7). Positive sea-level index point.

ID 43 **Laboratory code** AA27147

Sample location **Depth of sample** **Dated sample description**
-37.59 m OD

Age (uncal) **Age (cal)** **Delta 13C**
9155 ± 75 14C years BP -28.70

Notes

Core 53/+02/1497 (Well Bank 8). Positive sea-level index point.

ID 515 **Laboratory code** AA23944

Sample location **Depth of sample** **Dated sample description**
-38.53 m OD

Age (uncal) **Age (cal)** **Delta 13C**
9270 ± 75 14C years BP

Notes

Core 53/+02/1495 (Well Bank 1). Positive sea-level index point.

ID 516 **Laboratory code** AA23945

Sample location **Depth of sample** **Dated sample description**
-38.97 m OD

Age (uncal) **Age (cal)** **Delta 13C**
11325 ± 85 14C years BP

Notes

Core 53/+01/1495 (Well Bank 1). Limiting sea-level indicator.

Bibliographic reference

Shennan, I., Lambeck, K., Horton, B., Innes, J., L 2000a 'Modelling western North Sea palaeogeographies and tidal changes during the Holocene' in 'Holocene land-ocean interaction and environmental change around the North Sea', (ed.s) Shennan, I. and Andrews, J., 299-319, The Geological Society Special Publication No. 166.

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