

Director: Professor R M Ellam

Rankine Avenue, Scottish Enterprise Technology Park, East Kilbride, Glasgow G75 0QF, Scotland, UK

Tel: +44 (0)1355 223332 Fax: +44 (0)1355 229898 www.glasgow.ac.uk/suerc

RADIOCARBON DATING CERTIFICATE

17 December 2013

Laboratory Code	SUERC-49725	(GU32420)
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Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABNL13 **Context Reference** 2102 **Sample Reference** 2060

Charcoal: Corylus avellana Material

δ¹³C relative to VPDB -23.9 ‰

Radiocarbon Age BP 3035 ± 32

The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, N.B. modern reference standard and blank and the random machine error.

The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

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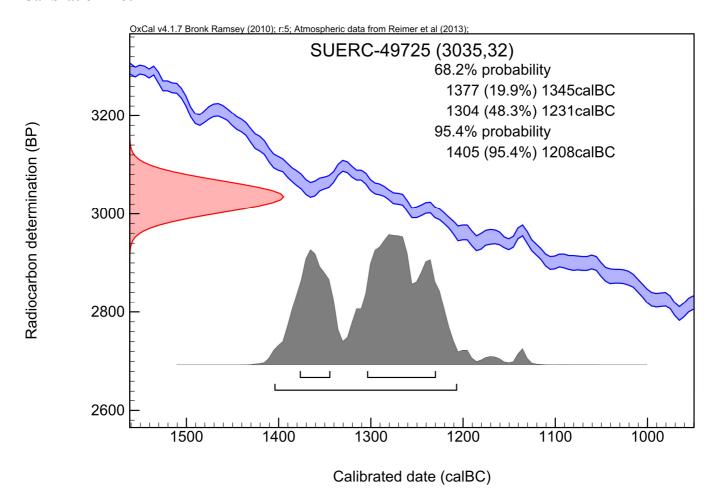
Conventional age and calibration age ranges calculated by:-	Date :-



Checked and signed off by:-



Date:-





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RADIOCARBON DATING CERTIFICATE

17 December 2013

Laboratory Code	SUERC-49726	(GU32421)
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Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site ReferenceABNL13Context Reference104Sample Reference44

Material Nutshell: Corylus avellana

 δ^{13} C relative to VPDB -23.8 %

Radiocarbon Age BP 8026 ± 38

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

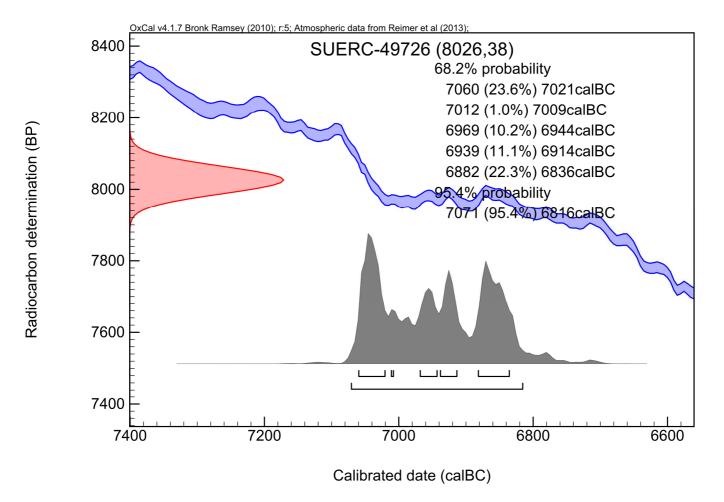
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Conventional age and calibration age ranges calculated by :-	Date :-
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RADIOCARBON DATING CERTIFICATE

17 December 2013

Laboratory Code	SUERC-49727 ((GU32422)
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Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh **EH6 5HE**

Site Reference ABNL13 **Context Reference** 106 **Sample Reference** 45

Charcoal: Alnus glutinosa Material

δ¹³C relative to VPDB -27.7 %

Radiocarbon Age BP 3718 ± 31

The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, N.B. modern reference standard and blank and the random machine error.

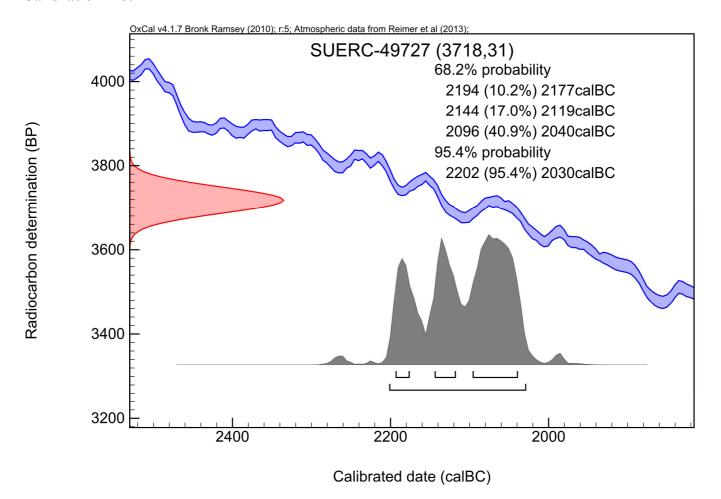
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RADIOCARBON DATING CERTIFICATE

17 December 2013

Laboratory Code	SUERC-49728 (GU32423)	
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Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site ReferenceABNL13Context Reference2134Sample Reference2065

Material Charcoal: Quercus sp

 δ^{13} C relative to VPDB -25.9 %

Radiocarbon Age BP 1591 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

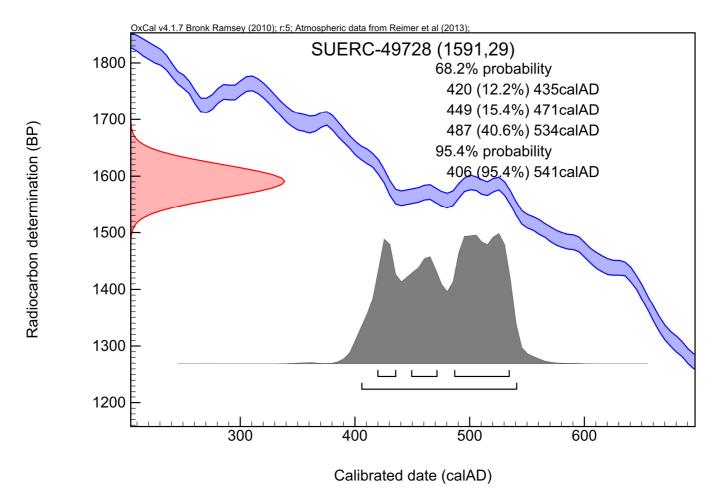
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Checked and signed off by :-	Date :-









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RADIOCARBON DATING CERTIFICATE

23 July 2014

Laboratory Code SUERC-54050 (GU34861)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL13- 002c

Context Reference 147 **Sample Reference** 1088

Material Charcoal: Salix sp

 δ^{13} C relative to VPDB -26.5 %

Radiocarbon Age BP 8657 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

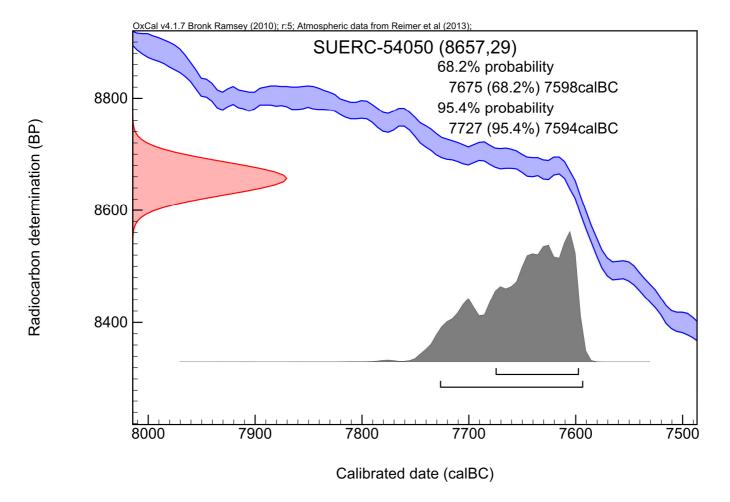
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Conventional age and calibration age ranges calculated by :- B Tag -- Date :- 23/07/2014

Checked and signed off by:- Dubar Date: - 23/07/2014









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RADIOCARBON DATING CERTIFICATE

23 July 2014

Laboratory Code SUERC-54051 (GU34862)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL13- 002d

Context Reference 8
Sample Reference 4

Material Charcoal: Ilex aquifolium

 δ^{13} C relative to VPDB -26.3 %

Radiocarbon Age BP 7963 ± 27

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

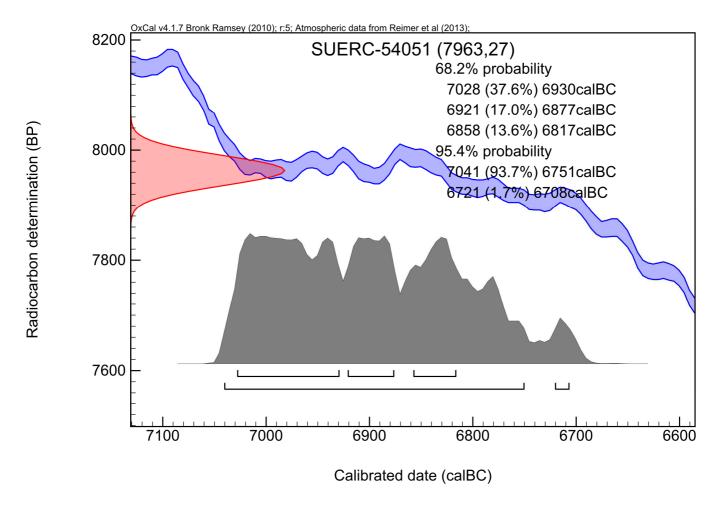
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Conventional age and calibration age ranges calculated by :- B Tag -- Date :- 23/07/2014

Checked and signed off by:- Dubar Date: - 23/07/2014









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RADIOCARBON DATING CERTIFICATE

23 July 2014

Laboratory Code SUERC-54055 (GU34863)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL13-002c

Context Reference 19 Sample Reference 1009

Material Charcoal: Corylus avellana

 δ^{13} C relative to VPDB -26.1 %

Radiocarbon Age BP 3851 ± 26

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

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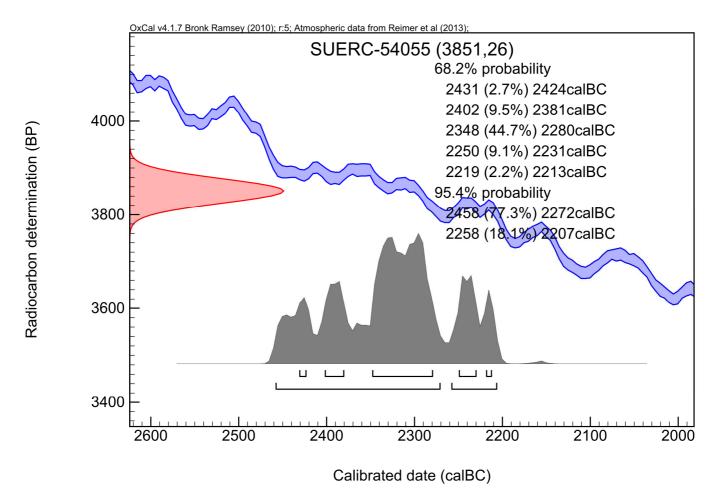
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Conventional age and calibration age ranges calculated by :- B Tay Date :- 23/07/2014

Checked and signed off by :- Dubar Date :- 23/07/2014









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RADIOCARBON DATING CERTIFICATE

23 July 2014

Laboratory Code SUERC-54056 (GU34864)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL13-002c

Context Reference 128 Sample Reference 1070

Material Charcoal: Corylus avellana

 δ^{13} C relative to VPDB -28.2 %

Radiocarbon Age BP 3041 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

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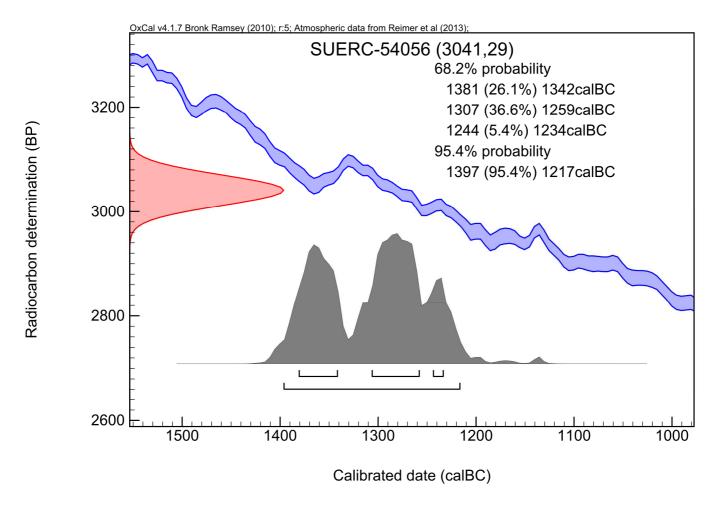
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Conventional age and calibration age ranges calculated by :- B Tag -- Date :- 23/07/2014

Checked and signed off by:- Dubar Date: - 23/07/2014









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RADIOCARBON DATING CERTIFICATE

05 August 2014

Laboratory Code SUERC-54187 (GU34969)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL-SL002A

Context Reference 116 **Sample Reference** 1088

Material Charcoal: Ulmus sp

 δ^{13} C relative to VPDB -23.9 %

Radiocarbon Age BP 1960 ± 30

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

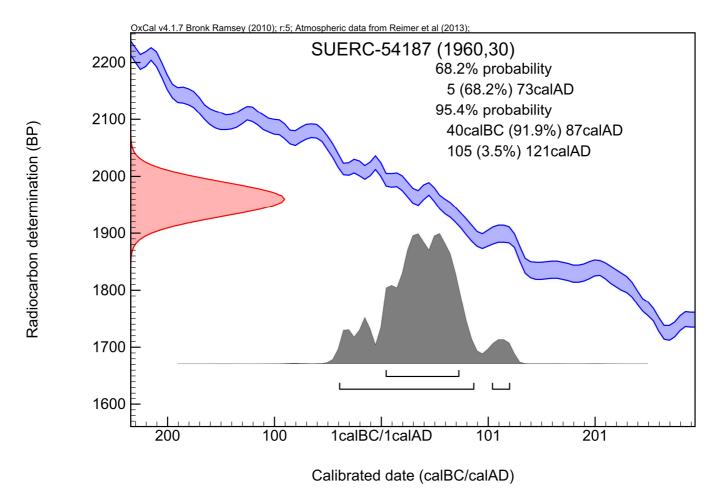
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Conventional age and calibration age ranges calculated by :- B Tay Date :- 05/08/2014

Checked and signed off by:- P. Nayont Date: -05/08/2014









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RADIOCARBON DATING CERTIFICATE

05 August 2014

Laboratory Code SUERC-54188 (GU34970)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL-SL002A

Context Reference 62 Sample Reference 1046

Material Charcoal: Alnus glutinosa

 δ^{13} C relative to VPDB -25.1 %

Radiocarbon Age BP 1995 ± 30

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

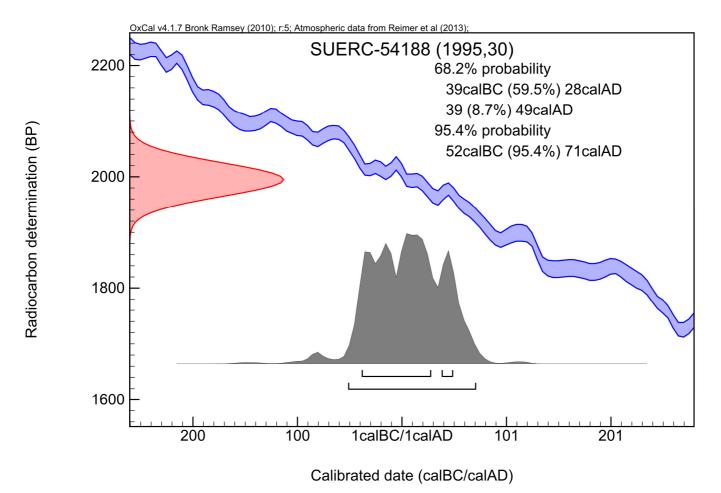
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Conventional age and calibration age ranges calculated by :- B Tay Date :- 05/08/2014

Checked and signed off by:- P. Nayont Date: -05/08/2014









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RADIOCARBON DATING CERTIFICATE

05 August 2014

Laboratory Code SUERC-54189 (GU34971)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL-SL002A

Context Reference 18 Sample Reference 1008

Material Charcoal: Alnus glutinosa

 δ^{13} C relative to VPDB -25.7 %

Radiocarbon Age BP 1957 ± 30

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

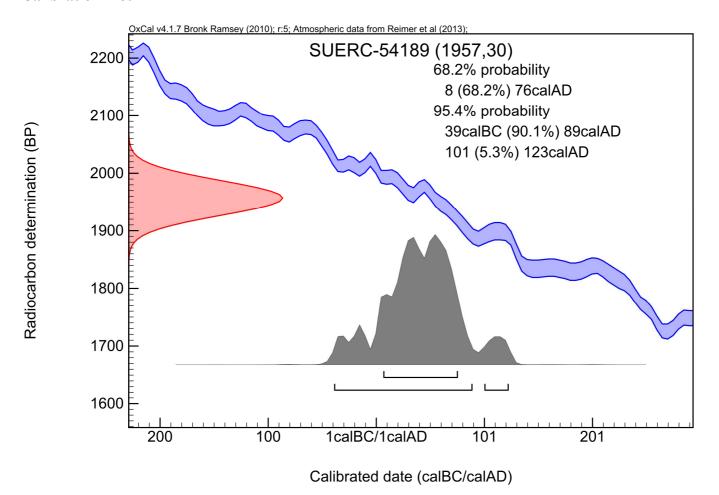
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Conventional age and calibration age ranges calculated by :- B Tay Date :- 05/08/2014

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RADIOCARBON DATING CERTIFICATE

25 November 2014

Laboratory Code SUERC-56395 (GU35889)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL- SL002C

Context Reference 1058 **Sample Reference** 108

Material Charcoal: Calluna vulgaris

 δ^{13} C relative to VPDB -26.2 %

Radiocarbon Age BP 1975 ± 38

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

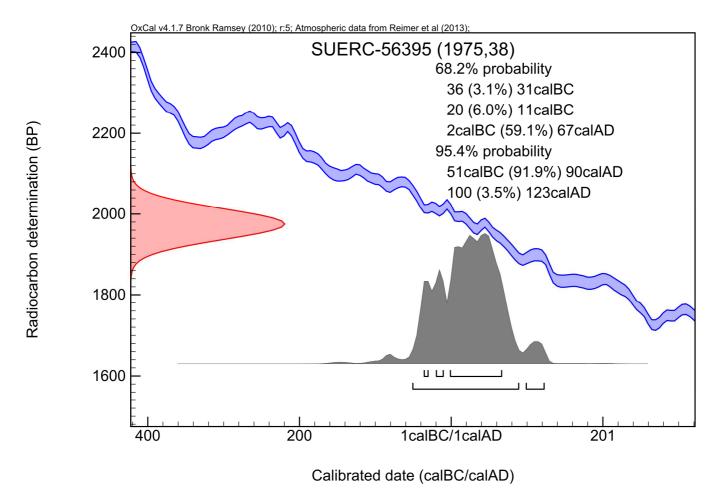
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Checked and signed off by:- P. Nayont Date: -25/11/2014









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RADIOCARBON DATING CERTIFICATE

17 February 2015

Laboratory Code SUERC-57928 (GU36354)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABNL006A

Context Reference 50 **Sample Reference** 99

Material Charcoal: Prunus avium

 δ^{13} C relative to VPDB -25.2 %

Radiocarbon Age BP 1908 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

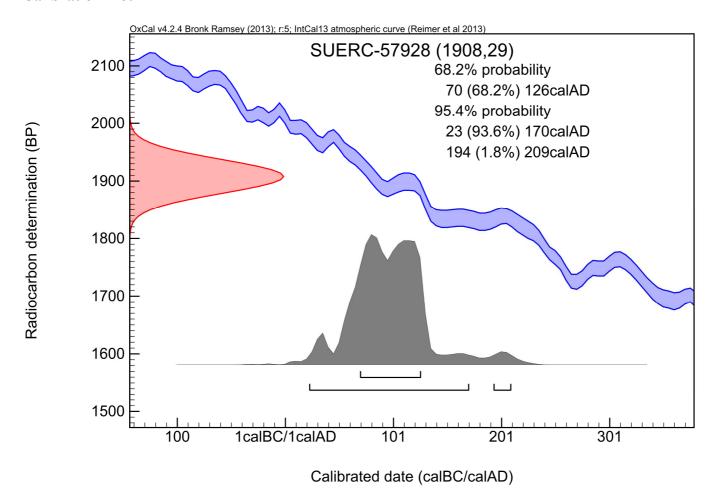
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Checked and signed off by :- P. Nayont Date :- 17/02/2015









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RADIOCARBON DATING CERTIFICATE

17 February 2015

Laboratory Code SUERC-57929 (GU36355)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABNL006A

Context Reference 69 Sample Reference 38

Material Charcoal: Corylus avellana

 δ^{13} C relative to VPDB -27.7 %

Radiocarbon Age BP 3035 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

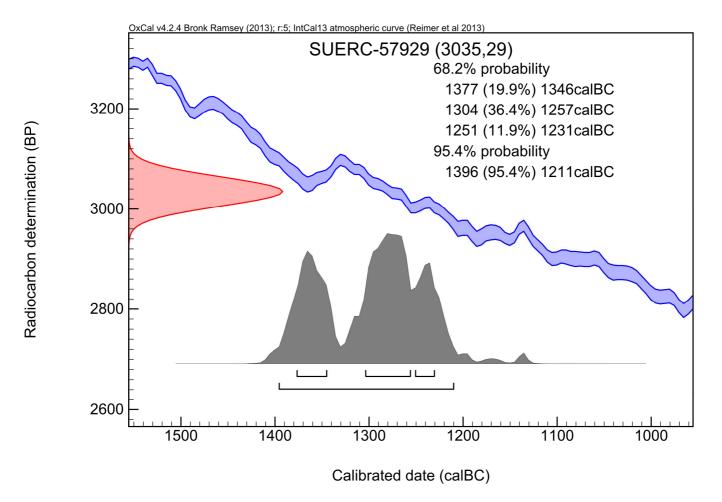
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RADIOCARBON DATING CERTIFICATE

17 February 2015

Laboratory Code SUERC-57930 (GU36356)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABNL006A

Context Reference 124 Sample Reference 70

Material Charcoal: Corylus avellana

 δ^{13} C relative to VPDB -24.9 %

Radiocarbon Age BP 1930 ± 26

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

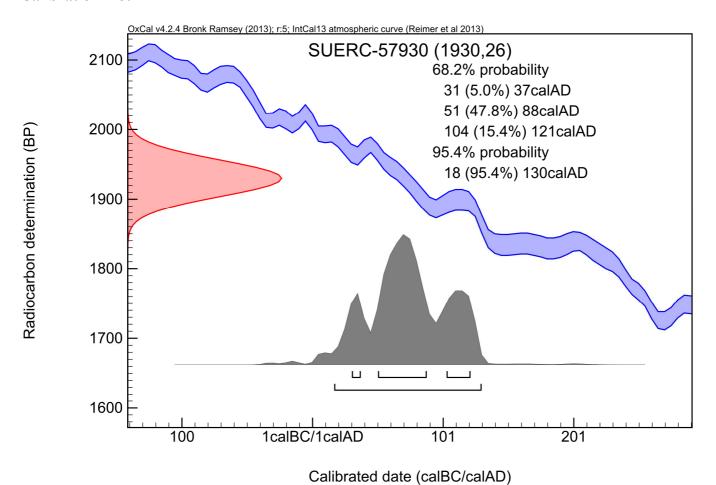
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RADIOCARBON DATING CERTIFICATE

17 February 2015

Laboratory Code SUERC-57931 (GU36357)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABNL006B

Context Reference 4
Sample Reference 1

Material Charcoal: Alnus glutinosa

 δ^{13} C relative to VPDB -29.3 %

Radiocarbon Age BP 1336 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

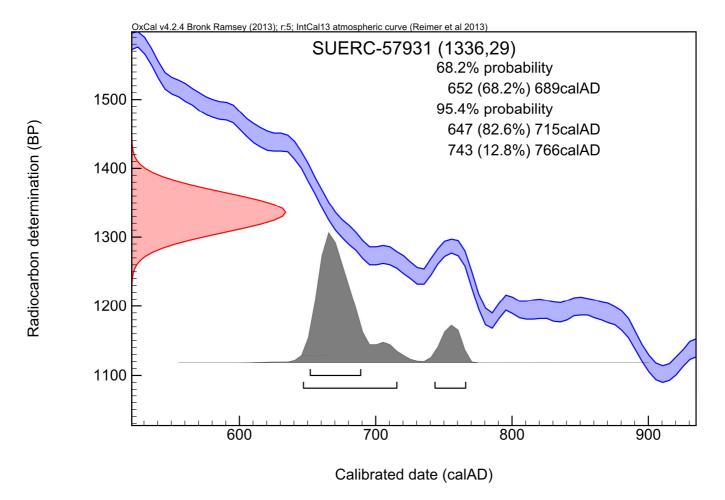
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RADIOCARBON DATING CERTIFICATE

17 February 2015

Laboratory Code SUERC-57932 (GU36358)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABNL001C

Context Reference 3
Sample Reference 60

Material Charcoal: Hazel

 δ^{13} C relative to VPDB -25.6 %

Radiocarbon Age BP 1878 ± 26

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

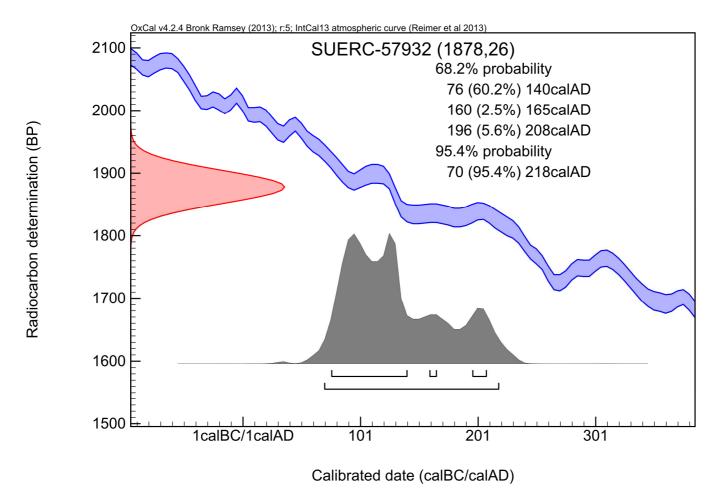
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RADIOCARBON DATING CERTIFICATE

17 February 2015

Laboratory Code SUERC-57933 (GU36359)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABNL001C

Context Reference 95 **Sample Reference** 56

Material Charcoal: Birch

 δ^{13} C relative to VPDB -25.0 %

Radiocarbon Age BP 3074 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

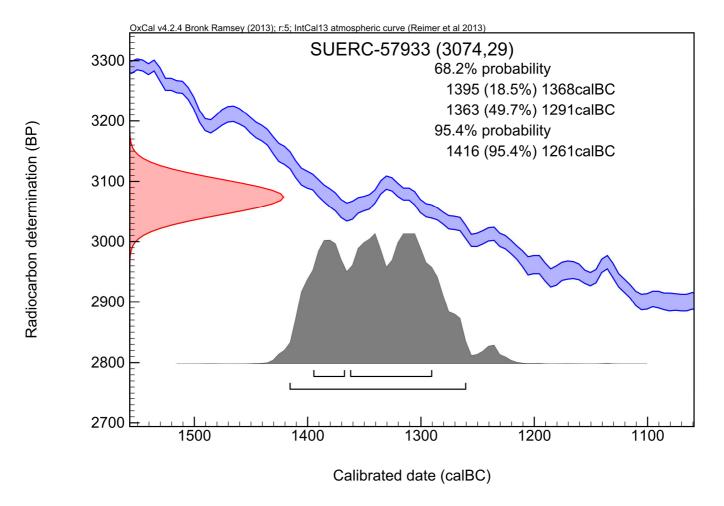
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

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Checked and signed off by :- P. Nayont Date :- 17/02/2015









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RADIOCARBON DATING CERTIFICATE

17 February 2015

Laboratory Code SUERC-57937 (GU36360)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABNL003B

Context Reference 18
Sample Reference 9

Material Nutshell: Hazel

 δ^{13} C relative to VPDB -25.2 %

Radiocarbon Age BP 7825 ± 30

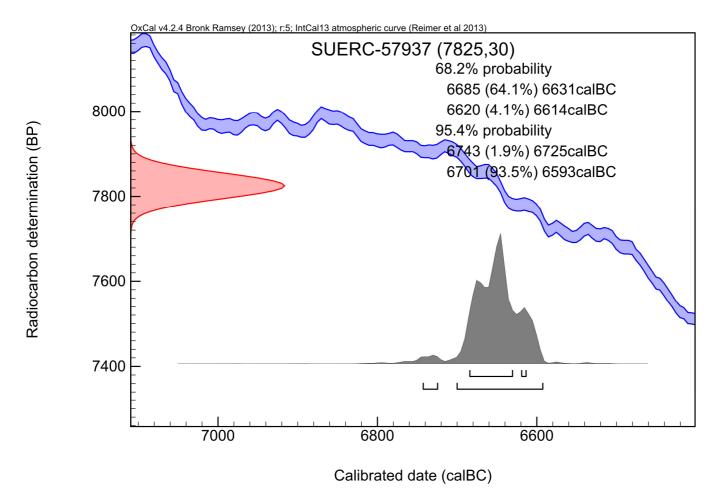
N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

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RADIOCARBON DATING CERTIFICATE

17 February 2015

Laboratory Code SUERC-57938 (GU36361)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABNL003B

Context Reference 28 Sample Reference 25

Material Nutshell: Hazel

 δ^{13} C relative to VPDB -23.3 %

Radiocarbon Age BP 7985 ± 25

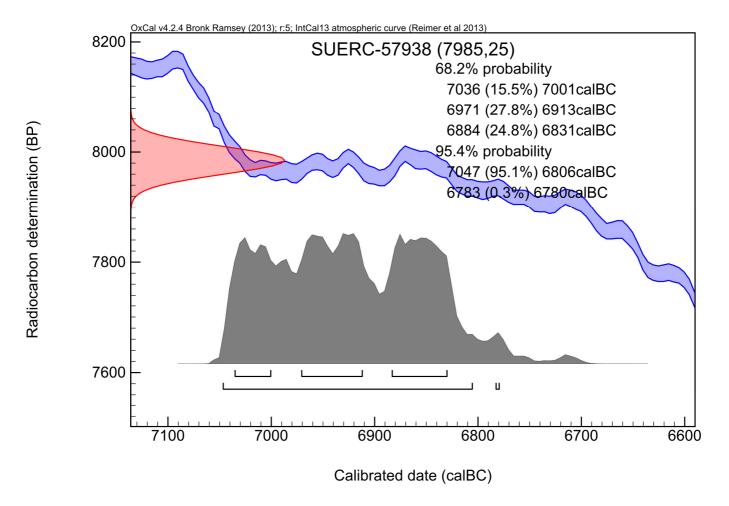
N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

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RADIOCARBON DATING CERTIFICATE

20 February 2015

Laboratory Code SUERC-58021 (GU36362)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL-002D

Context Reference 1035 **Sample Reference** 1023

Material Charcoal: Betula sp

 δ^{13} C relative to VPDB -25.6 %

Radiocarbon Age BP 8054 ± 30

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

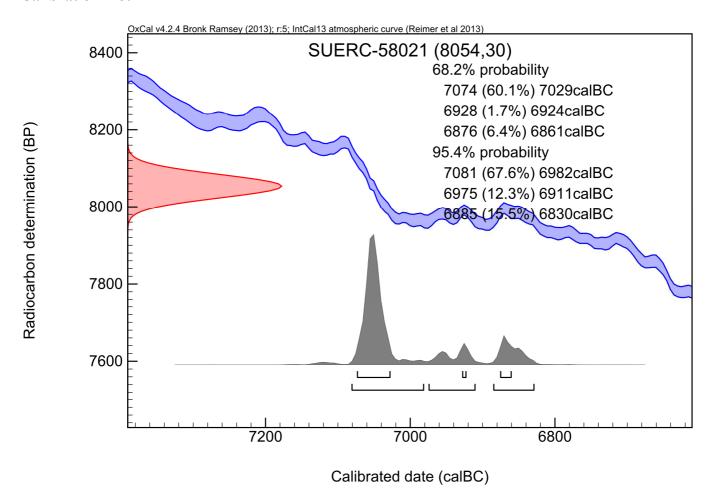
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Conventional age and calibration age ranges calculated by :- Dubar Date :- 20/02/2015









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RADIOCARBON DATING CERTIFICATE

20 February 2015

Laboratory Code SUERC-58022 (GU36363)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL-002D

Context Reference 1149 **Sample Reference** 1089

Material Charcoal: Corylus avellana

 δ^{13} C relative to VPDB -23.3 %

Radiocarbon Age BP 4534 ± 30

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

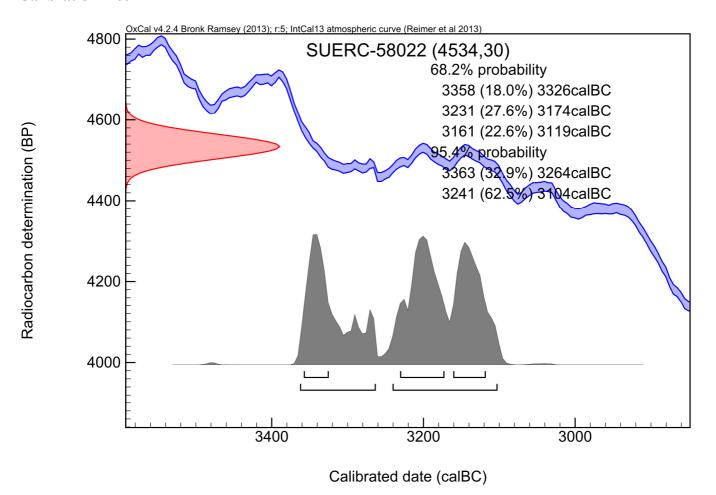
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Conventional age and calibration age ranges calculated by :- Dubar Date :- 20/02/2015









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RADIOCARBON DATING CERTIFICATE

20 February 2015

Laboratory Code SUERC-58023 (GU36364)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL-002D

Context Reference 1467 Sample Reference 1200

Material Charcoal: Corylus avellana

 δ^{13} C relative to VPDB -26.7 %

Radiocarbon Age BP 5091 ± 30

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

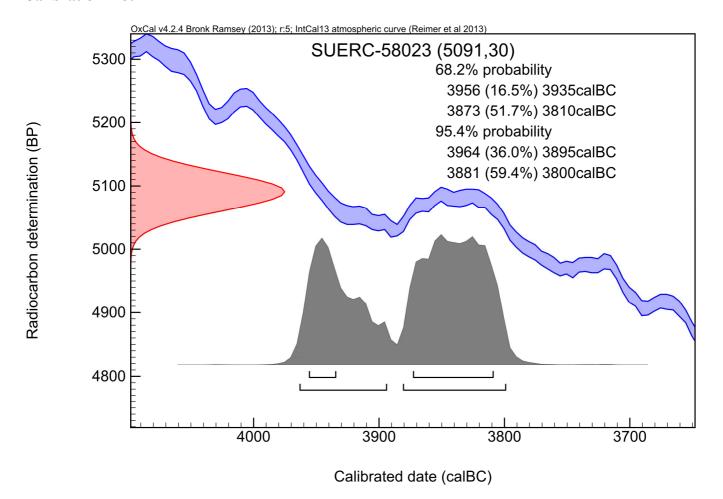
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Conventional age and calibration age ranges calculated by :- Dubar Date :- 20/02/2015









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RADIOCARBON DATING CERTIFICATE

20 February 2015

Laboratory Code SUERC-58025 (GU36366)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL-004A

Context Reference 3
Sample Reference 1009

Material Charcoal: Alnus glutinosa

 δ^{13} C relative to VPDB -28.1 %

Radiocarbon Age BP 3634 ± 30

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

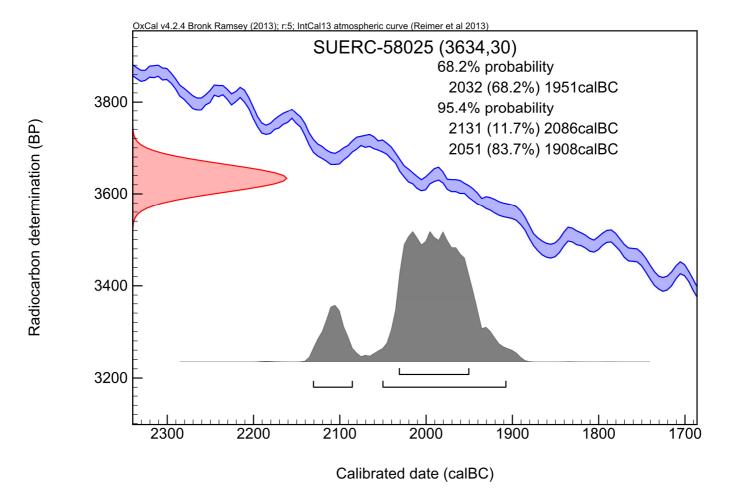
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Conventional age and calibration age ranges calculated by :- Dubar Date :- 20/02/2015









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RADIOCARBON DATING CERTIFICATE

20 February 2015

Laboratory Code SUERC-58026 (GU36367)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL-004A

Context Reference 14 Sample Reference 24

Material Waterlogged wood : Alnus glutinosa

 δ^{13} C relative to VPDB -29.5 %

Radiocarbon Age BP 3642 ± 30

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

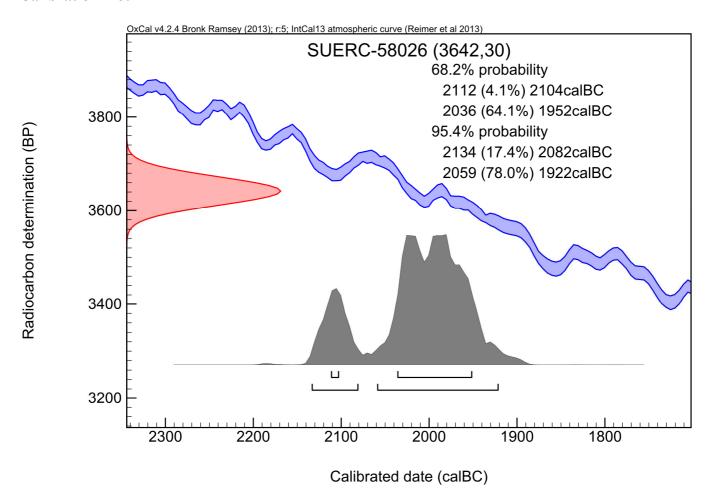
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Conventional age and calibration age ranges calculated by :- Dubar Date :- 20/02/2015









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RADIOCARBON DATING CERTIFICATE

20 February 2015

Laboratory Code SUERC-58030 (GU36368)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL-004D

Context Reference 30 **Sample Reference** 9

Material Charcoal: Corylus avellana

 δ^{13} C relative to VPDB -26.4 %

Radiocarbon Age BP 2850 ± 30

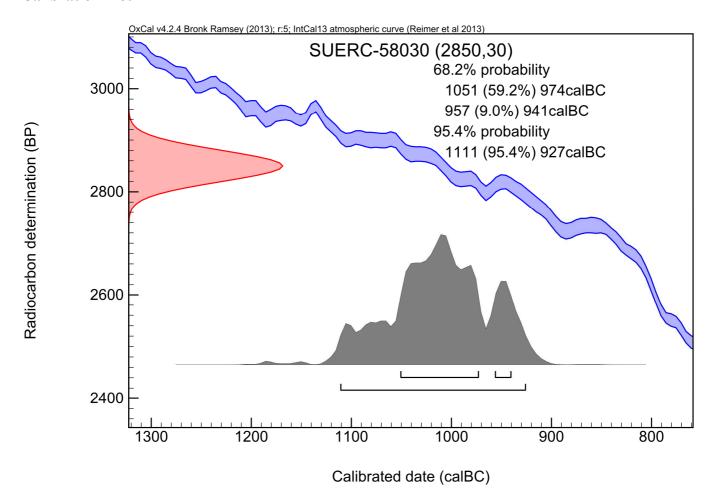
N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

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RADIOCARBON DATING CERTIFICATE

20 February 2015

Laboratory Code SUERC-58031 (GU36369)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL-004D

Context Reference 210 **Sample Reference** 107

Material Charcoal: Alnus glutinosa

 δ^{13} C relative to VPDB -27.8 %

Radiocarbon Age BP 2867 ± 30

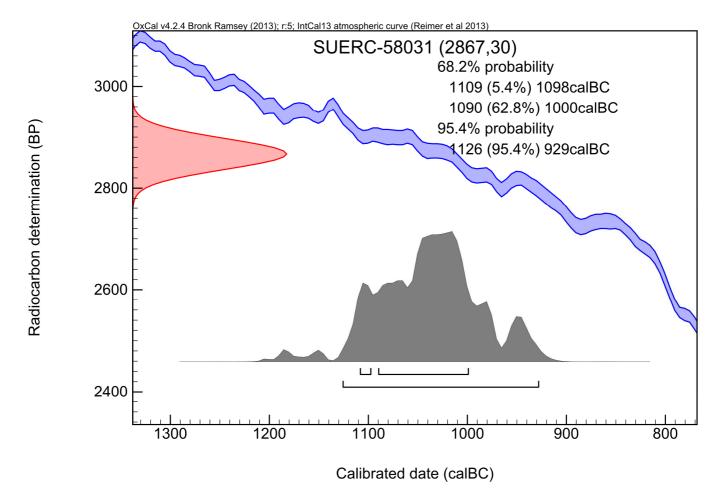
N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

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RADIOCARBON DATING CERTIFICATE

20 February 2015

Laboratory Code SUERC-58032 (GU36370)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL-004D

Context Reference 213 Sample Reference 92

Material Charcoal: Corylus avellana

 δ^{13} C relative to VPDB -26.2 %

Radiocarbon Age BP 2819 ± 30

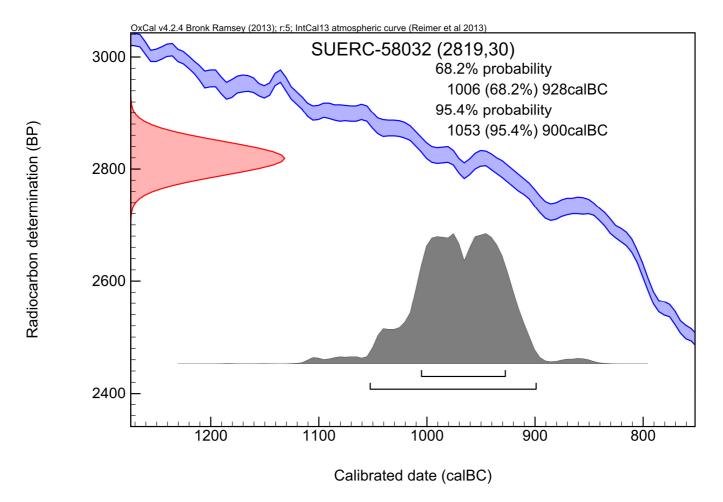
N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

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RADIOCARBON DATING CERTIFICATE

20 February 2015

Laboratory Code SUERC-58033 (GU36371)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL-004D

Context Reference 403 **Sample Reference** 161

Material Charcoal: Corylus avellana

 δ^{13} C relative to VPDB -27.3 %

Radiocarbon Age BP 2852 ± 30

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

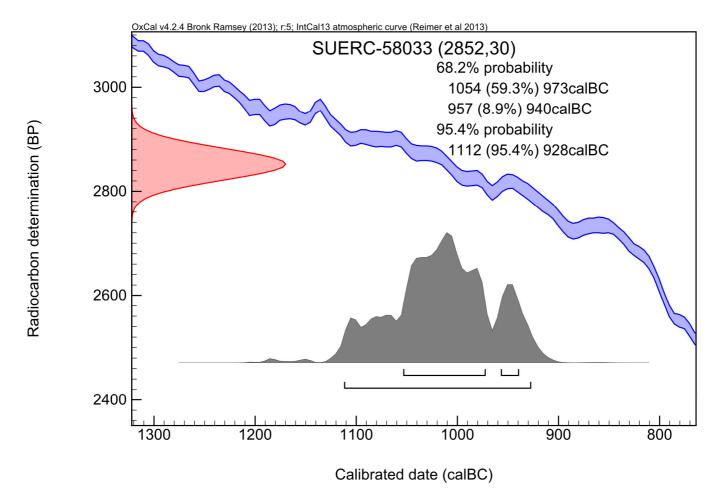
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Conventional age and calibration age ranges calculated by :- Dubar Date :- 20/02/2015









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RADIOCARBON DATING CERTIFICATE

20 February 2015

Laboratory Code SUERC-58034 (GU36372)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL-004D

Context Reference 502 **Sample Reference** 247

Material Charcoal: Pomoideae sp

 δ^{13} C relative to VPDB -26.8 %

Radiocarbon Age BP 2772 ± 30

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

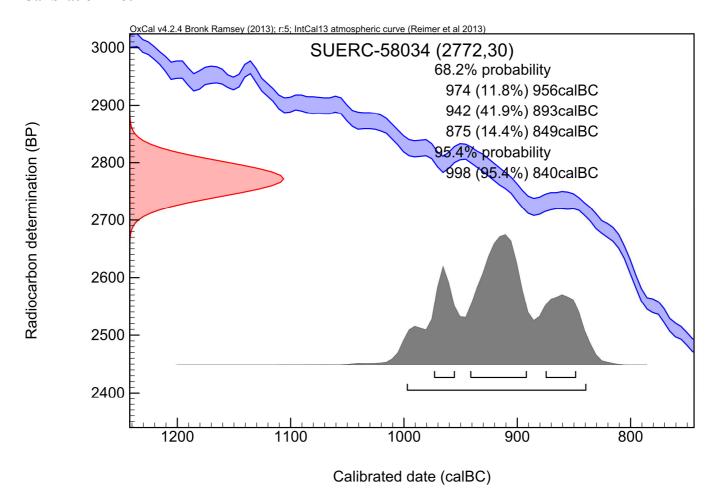
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Conventional age and calibration age ranges calculated by :- Dubar Date :- 20/02/2015









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RADIOCARBON DATING CERTIFICATE

20 February 2015

Laboratory Code SUERC-58035 (GU36373)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL-004D

Context Reference 514 **Sample Reference** 251

Material Charcoal: Betula sp

 δ^{13} C relative to VPDB -27.6 %

Radiocarbon Age BP 2986 ± 30

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

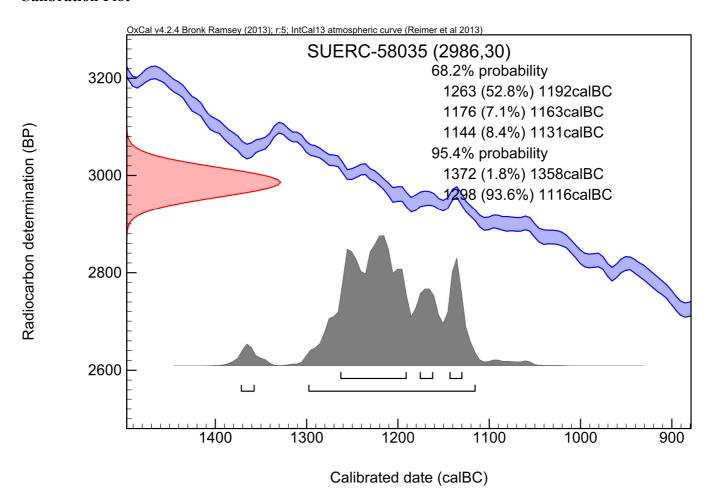
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Conventional age and calibration age ranges calculated by :- Dubar Date :- 20/02/2015









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RADIOCARBON DATING CERTIFICATE

20 February 2015

Laboratory Code SUERC-58036 (GU36374)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL-004D

Context Reference 550 **Sample Reference** 260

Material Charcoal: Alnus glutinosa

 δ^{13} C relative to VPDB -27.9 %

Radiocarbon Age BP 2876 ± 30

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

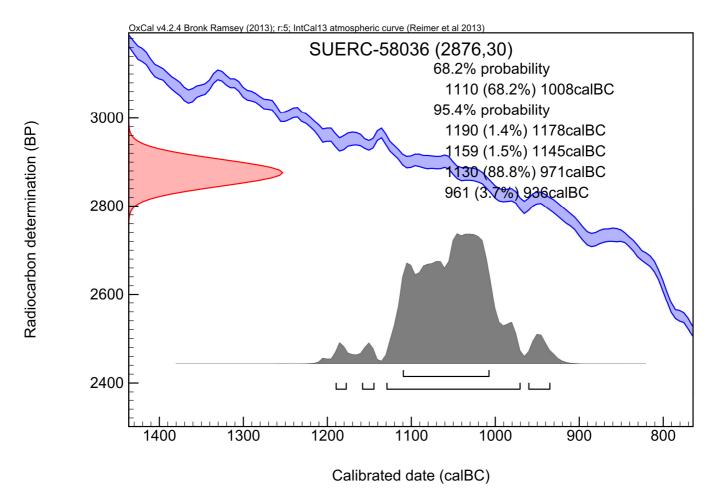
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Conventional age and calibration age ranges calculated by :- Dubar Date :- 20/02/2015









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RADIOCARBON DATING CERTIFICATE

23 February 2015

Laboratory Code SUERC-58187 (GU36506)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL001

Context Reference 14 Sample Reference 110

Material Cereal: Hordeum vulgare

 δ^{13} C relative to VPDB -22.8 %

Radiocarbon Age BP 1613 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

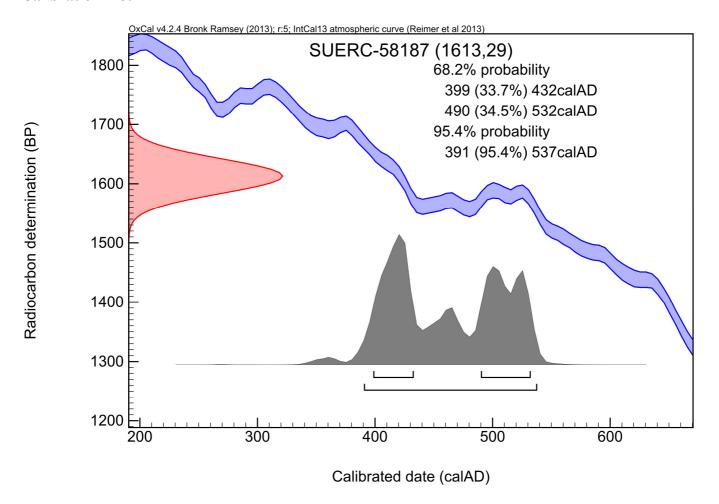
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Conventional age and calibration age ranges calculated by :- Dubar Date :- 23/02/2015









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RADIOCARBON DATING CERTIFICATE

23 February 2015

Laboratory Code SUERC-58188 (GU36507)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL-002D

Context Reference 1435 **Sample Reference** 1187

Material Nutshell : Corylus avellana

 δ^{13} C relative to VPDB -24.2 %

Radiocarbon Age BP 5092 ± 29

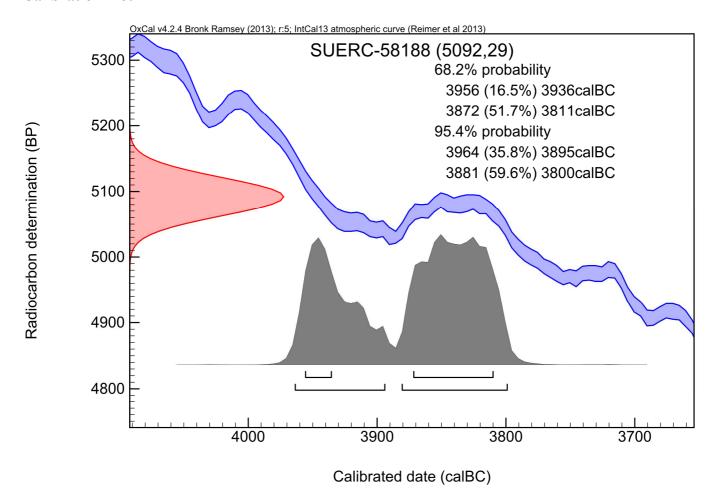
N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

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RADIOCARBON DATING CERTIFICATE

23 February 2015

Laboratory Code SUERC-58189 (GU36508)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL-002D

Context Reference 1716 **Sample Reference** 1230

Material Charcoal: Corylus avellana

 δ^{13} C relative to VPDB -26.2 %

Radiocarbon Age BP 6843 ± 31

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

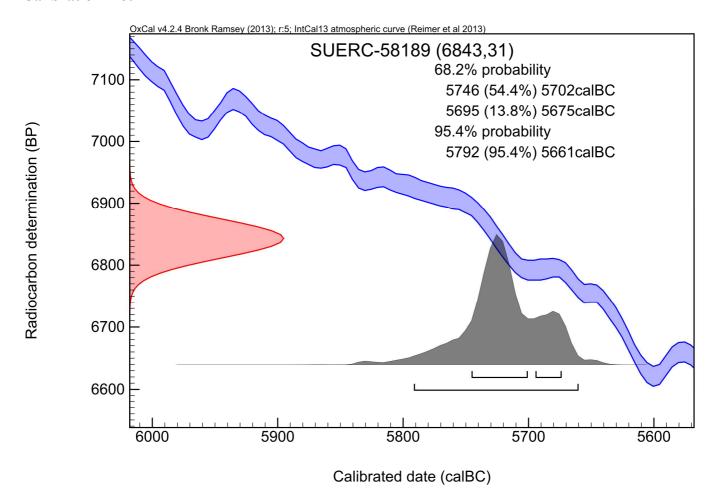
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

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Conventional age and calibration age ranges calculated by :- Dubar Date :- 23/02/2015









Director: Professor R M Ellam

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RADIOCARBON DATING CERTIFICATE

23 February 2015

Laboratory Code SUERC-58193 (GU36509)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL-002D

Context Reference 1509 **Sample Reference** 1207

Material Charcoal: Corylus avellana

 δ^{13} C relative to VPDB -25.4 %

Radiocarbon Age BP 5017 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

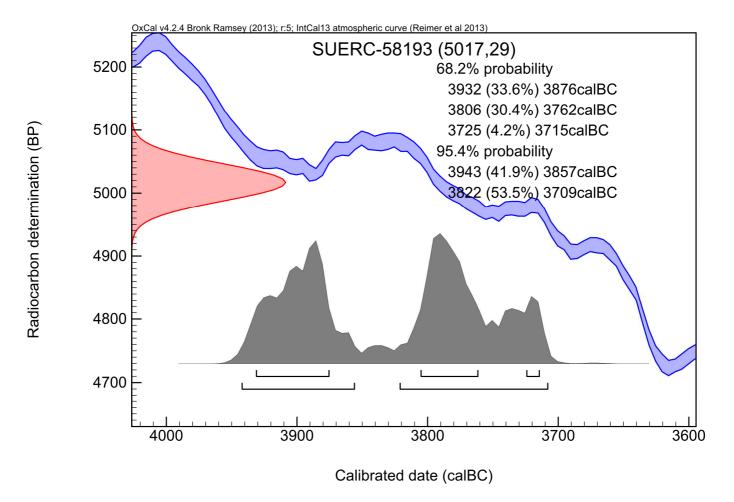
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

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Conventional age and calibration age ranges calculated by :- Dubar Date :- 23/02/2015









Director: Professor R M Ellam

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RADIOCARBON DATING CERTIFICATE

23 February 2015

Laboratory Code SUERC-58194 (GU36510)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL-002D

Context Reference 1636 Sample Reference 1265

Material Charcoal: Corylus avellana

 δ^{13} C relative to VPDB -27.2 %

Radiocarbon Age BP 5081 ± 30

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

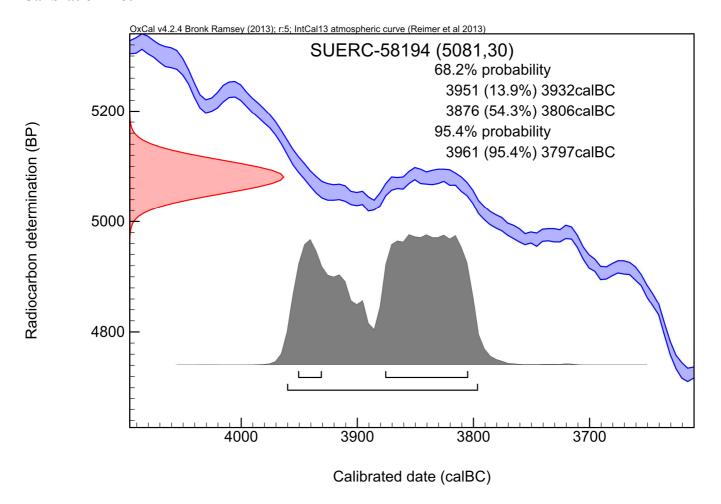
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Conventional age and calibration age ranges calculated by :- Dubar Date :- 23/02/2015









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RADIOCARBON DATING CERTIFICATE

16 March 2015

Laboratory Code SUERC-58495 (GU36813)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL003B

Context Reference 60 **Sample Reference** 1026

Material Charcoal: Alnus glutinosa

 δ^{13} C relative to VPDB -27.4 %

Radiocarbon Age BP 3223 ± 29

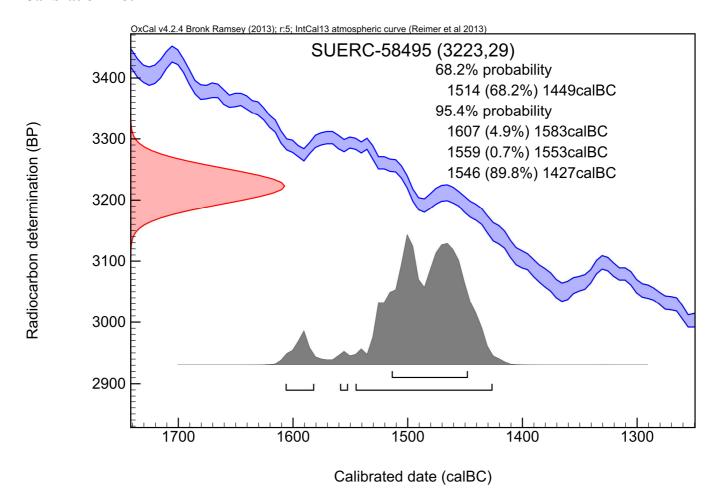
N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

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RADIOCARBON DATING CERTIFICATE

16 March 2015

Laboratory Code SUERC-58496 (GU36814)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL004B

Context Reference 39 **Sample Reference** 1019

Material Charcoal: Corylus avellana

 δ^{13} C relative to VPDB -25.3 %

Radiocarbon Age BP 3084 ± 29

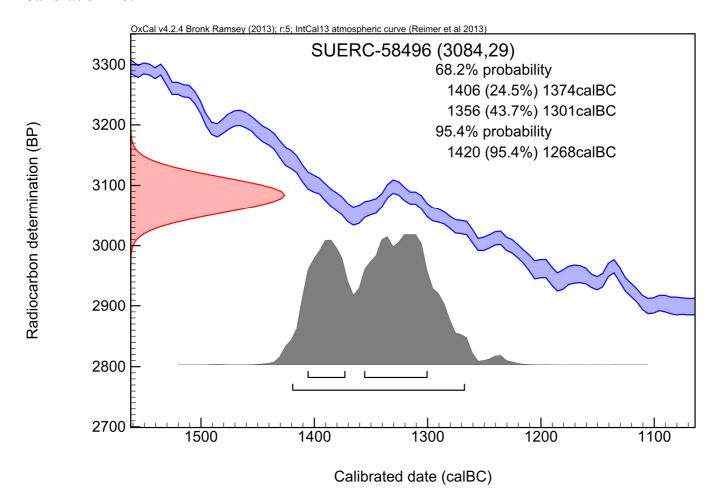
N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

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RADIOCARBON DATING CERTIFICATE

16 March 2015

Laboratory Code SUERC-58497 (GU36511)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL002AB

Context Reference 2261 **Sample Reference** 1220

Material Charcoal: Calluna vulgaris

 δ^{13} C relative to VPDB -28.1 %

Radiocarbon Age BP 1931 ± 29

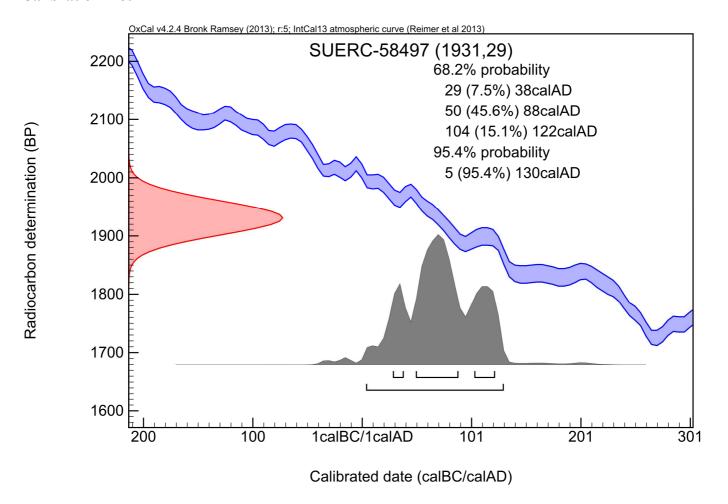
N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

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RADIOCARBON DATING CERTIFICATE

16 March 2015

Laboratory Code SUERC-58498 (GU36512)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL002AB

Context Reference 2180 **Sample Reference** 1113

Material Charcoal: Calluna vulgaris

 δ^{13} C relative to VPDB -24.4 %

Radiocarbon Age BP 2003 ± 29

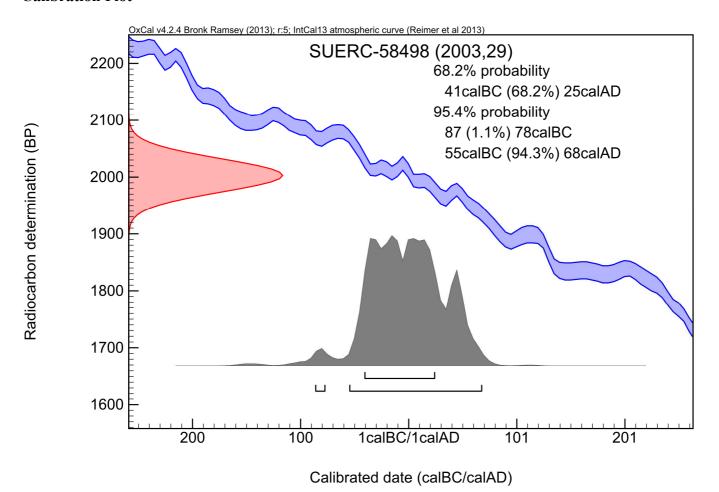
N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

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RADIOCARBON DATING CERTIFICATE

16 March 2015

Laboratory Code SUERC-58499 (GU36513)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL002B

Context Reference 2003 **Sample Reference** 1073

Material Charcoal: Calluna vulgaris

 δ^{13} C relative to VPDB -26.4 %

Radiocarbon Age BP 1883 ± 28

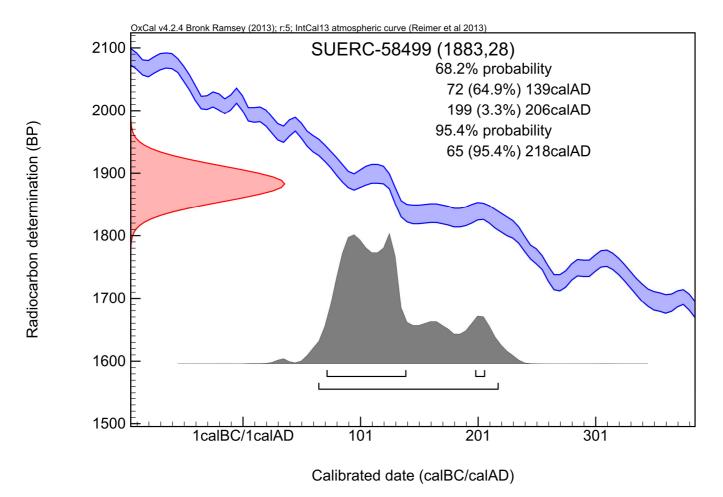
N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

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RADIOCARBON DATING CERTIFICATE

16 March 2015

Laboratory Code SUERC-58500 (GU36514)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL002AB

Context Reference 2277 **Sample Reference** 1088

Material Charcoal: Calluna vulgaris

 δ^{13} C relative to VPDB -25.9 %

Radiocarbon Age BP 1970 ± 29

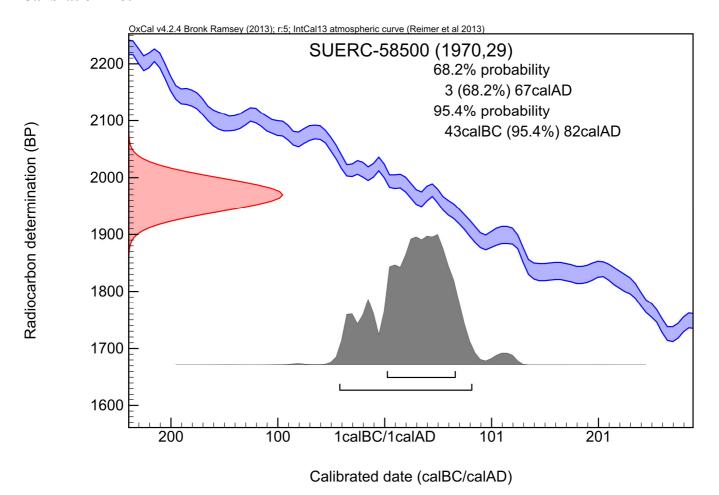
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RADIOCARBON DATING CERTIFICATE

16 March 2015

Laboratory Code SUERC-58504 (GU36515)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL002AB

Context Reference 2038 **Sample Reference** 1070

Material Charcoal: Alnus glutinosa

 δ^{13} C relative to VPDB -25.5 %

Radiocarbon Age BP 1911 ± 28

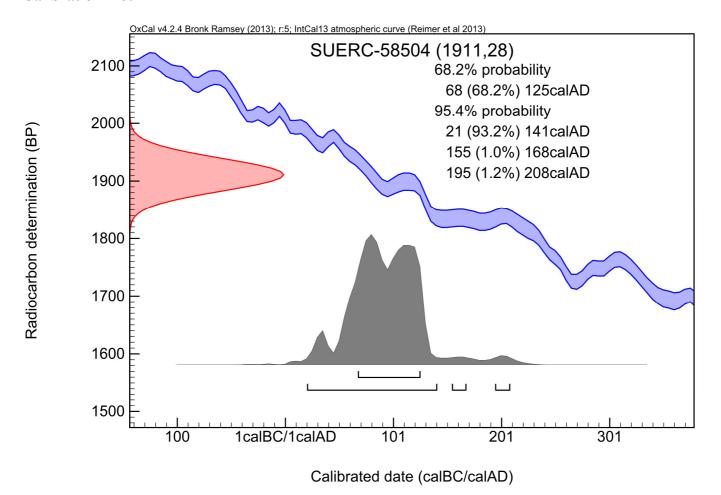
N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

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RADIOCARBON DATING CERTIFICATE

16 March 2015

Laboratory Code SUERC-58505 (GU36516)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL002AB

Context Reference 2111 **Sample Reference** 1110

Material Charcoal: Quercus sp

 δ^{13} C relative to VPDB -26.7 %

Radiocarbon Age BP 2067 ± 28

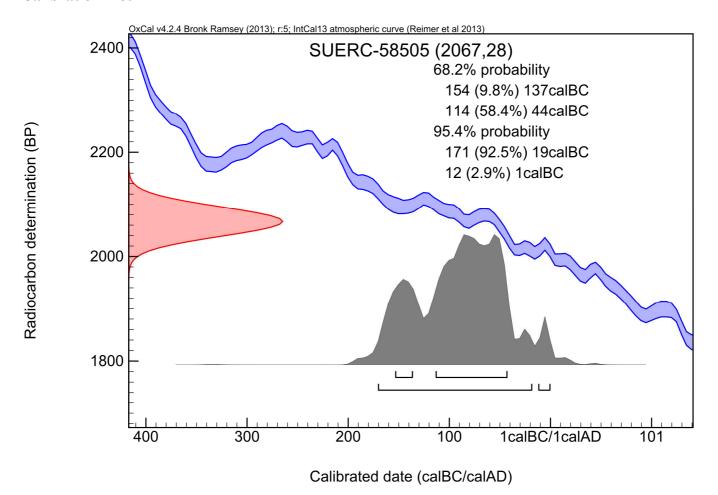
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RADIOCARBON DATING CERTIFICATE

16 March 2015

Laboratory Code SUERC-58506 (GU36517)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL002B

Context Reference 90 Sample Reference 1040

Material Nutshell : Corylus avellana

 δ^{13} C relative to VPDB -28.1 %

Radiocarbon Age BP 1051 ± 28

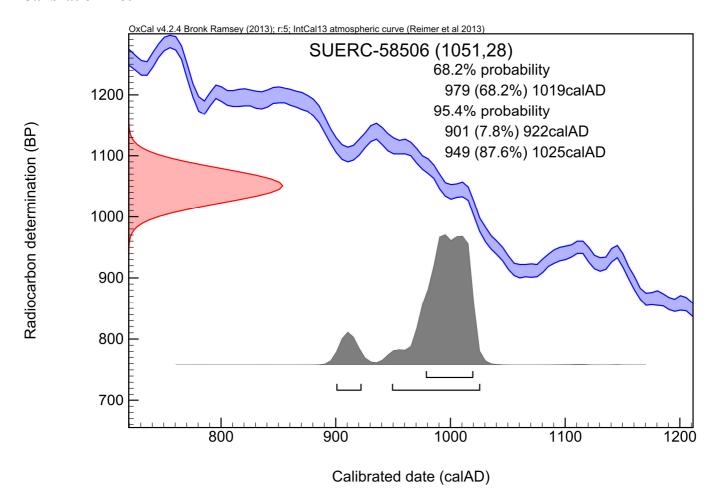
N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

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RADIOCARBON DATING CERTIFICATE

16 March 2015

Laboratory Code SUERC-58507 (GU36518)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL002AB

Context Reference 2448 **Sample Reference** 1134

Material Cereal: Hordeum vulgare

 δ^{13} C relative to VPDB -23.4 %

Radiocarbon Age BP 1334 ± 29

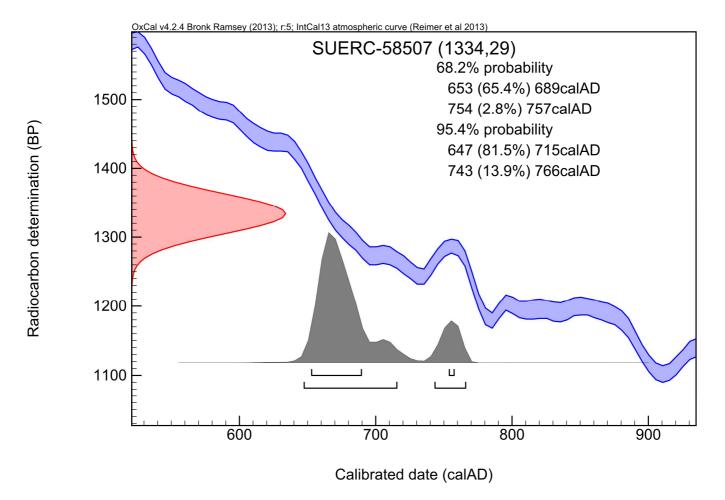
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RADIOCARBON DATING CERTIFICATE

16 March 2015

Laboratory Code SUERC-58508 (GU36519)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL002AB

Context Reference 2331 **Sample Reference** 1107

Material Nutshell : Corylus avellana

 δ^{13} C relative to VPDB -26.4 %

Radiocarbon Age BP 314 ± 29

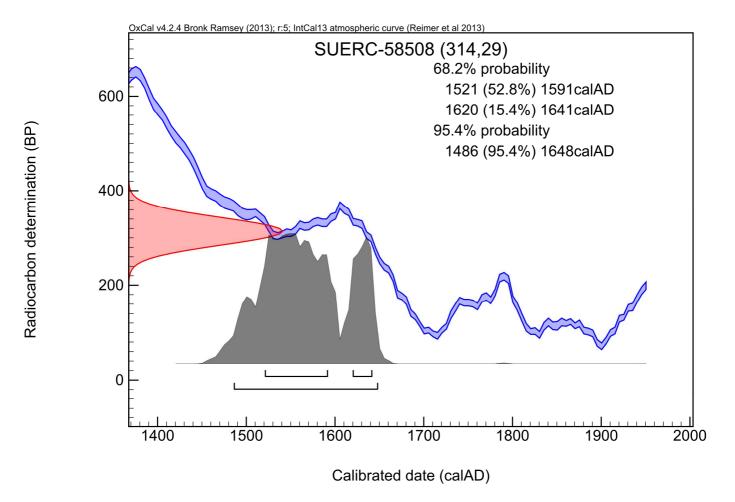
N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

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RADIOCARBON DATING CERTIFICATE

16 March 2015

Laboratory Code SUERC-58509 (GU36520)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL002A

Context Reference 49 Sample Reference 1021

Material Charcoal: Ilex aquifolium

 δ^{13} C relative to VPDB -24.7 %

Radiocarbon Age BP 1897 ± 28

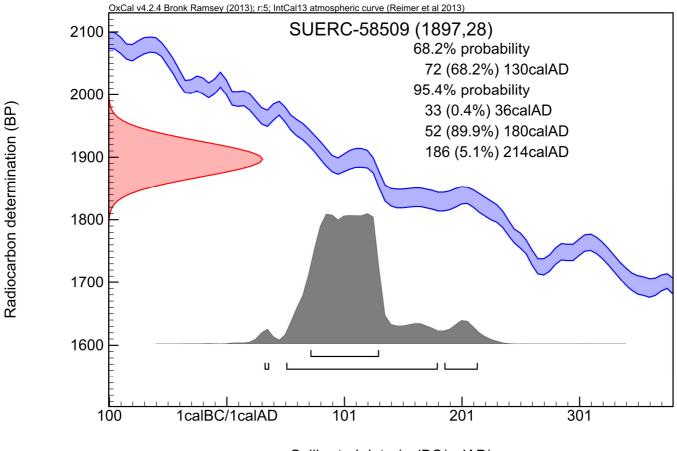
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Calibrated date (calBC/calAD)



Director: Professor R M Ellam

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RADIOCARBON DATING CERTIFICATE

16 March 2015

Laboratory Code SUERC-58510 (GU36522)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL003B

Context Reference 127 Sample Reference 1057

Material Charcoal: Corylus avellana

 δ^{13} C relative to VPDB -26.3 %

Radiocarbon Age BP 3183 ± 29

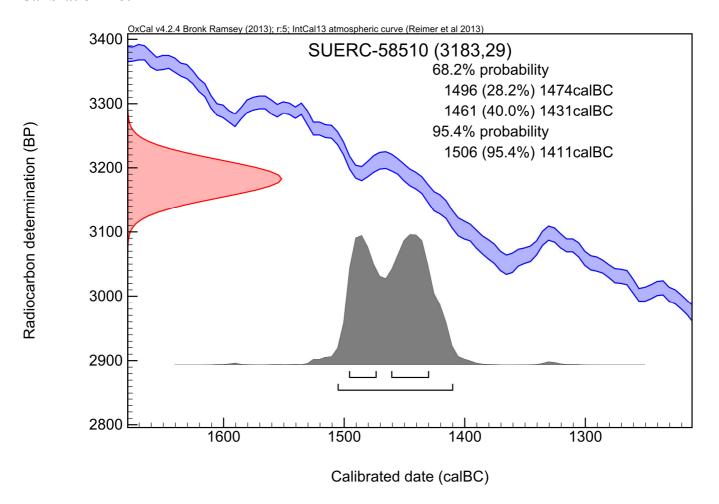
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RADIOCARBON DATING CERTIFICATE

16 March 2015

Laboratory Code SUERC-58514 (GU36523)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL003B

Context Reference 16 Sample Reference 1059

Material Charcoal: Salix sp

 δ^{13} C relative to VPDB -24.8 %

Radiocarbon Age BP 3136 ± 29

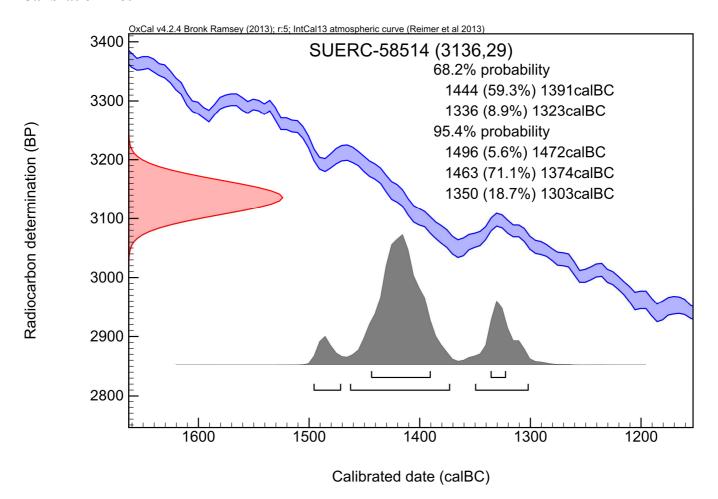
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RADIOCARBON DATING CERTIFICATE

16 March 2015

Laboratory Code SUERC-58515 (GU36525)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL003B

Context Reference 127 **Sample Reference** 1097

Material Charcoal: Corylus avellana

 δ^{13} C relative to VPDB -26.5 %

Radiocarbon Age BP 3134 ± 29

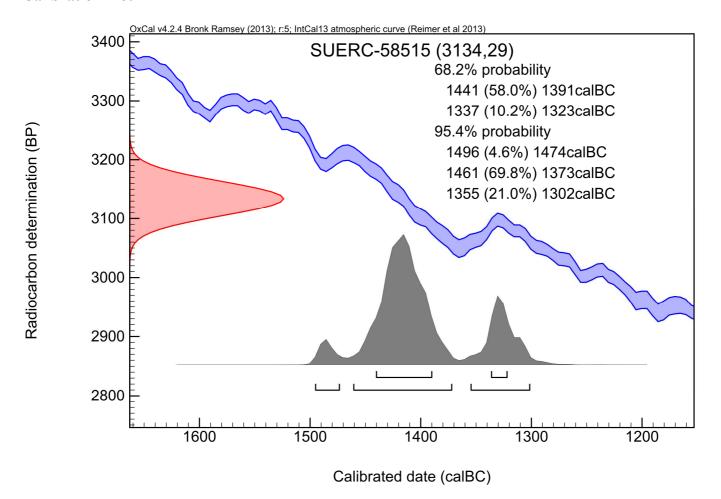
N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

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RADIOCARBON DATING CERTIFICATE

16 March 2015

Laboratory Code SUERC-58516 (GU36527)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL002C

Context Reference 17 Sample Reference 1008

Material Charcoal: Coryuls avellana

 δ^{13} C relative to VPDB -26.6 %

Radiocarbon Age BP 3886 ± 29

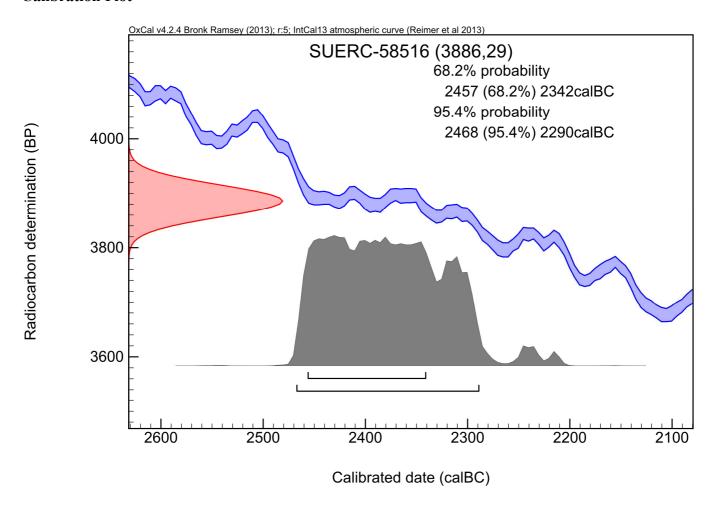
N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

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RADIOCARBON DATING CERTIFICATE

16 March 2015

Laboratory Code SUERC-58517 (GU36529)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL002C

Context Reference 160 Sample Reference 1096

Material Charcoal: Quercus sp

 δ^{13} C relative to VPDB -27.0 %

Radiocarbon Age BP 3909 ± 28

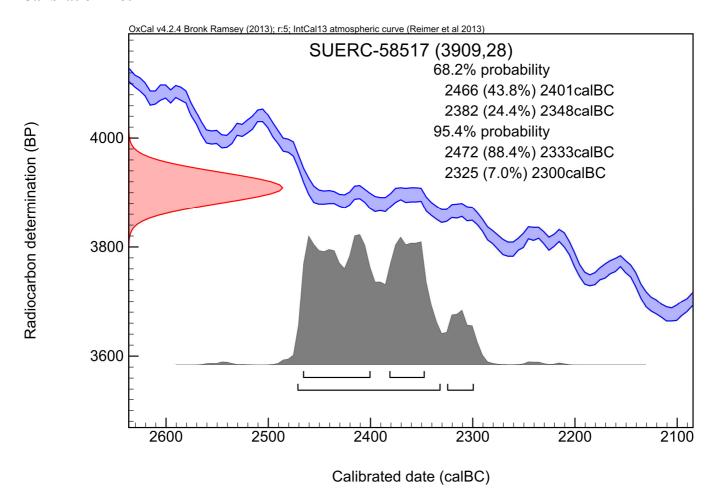
N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

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Tel: +44 (0)1355 223332 Fax: +44 (0)1355 229898 www.glasgow.ac.uk/suerc

RADIOCARBON DATING CERTIFICATE

16 March 2015

Laboratory Code SUERC-58518 (GU36530)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL004B

Context Reference 13 Sample Reference 1014

Material Nutshell : Corylus avellana

 δ^{13} C relative to VPDB -26.2 %

Radiocarbon Age BP 3124 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

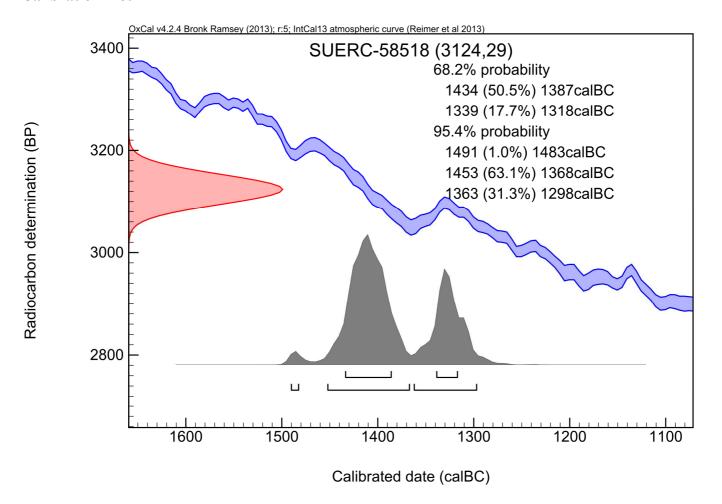
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

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Checked and signed off by :- P. Nayont Date :- 16/03/2015









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RADIOCARBON DATING CERTIFICATE

16 March 2015

Laboratory Code SUERC-58599 (GU36683)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABNL 0012

Context Reference 18 Sample Reference 4

Material Charcoal: Quercus sp

 δ^{13} C relative to VPDB -24.2 %

Radiocarbon Age BP 5111 ± 28

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

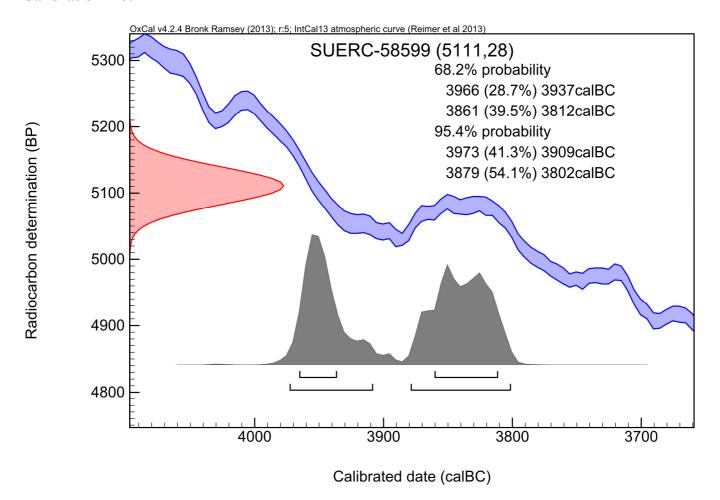
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

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Checked and signed off by :- P. Nayont Date :- 16/03/2015









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RADIOCARBON DATING CERTIFICATE

16 March 2015

Laboratory Code SUERC-58600 (GU36684)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABNL 0012

Context Reference 25 Sample Reference 13

Material Charcoal: Alnus glutinosa

 δ^{13} C relative to VPDB -26.9 %

Radiocarbon Age BP 4744 ± 28

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

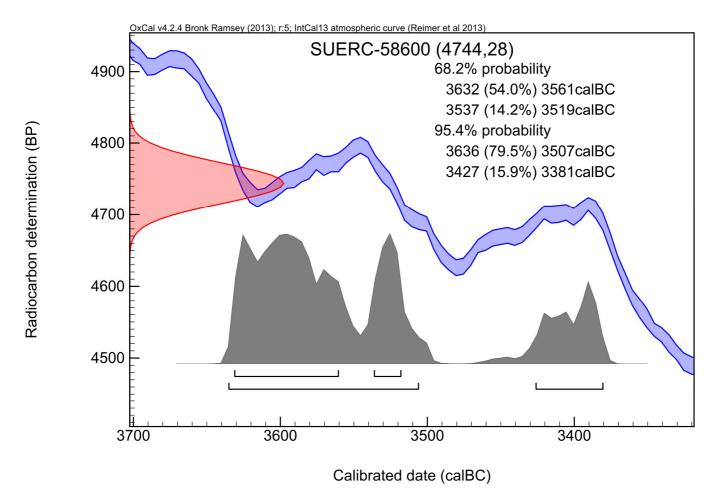
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

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Checked and signed off by :- P. Nayont Date :- 16/03/2015









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RADIOCARBON DATING CERTIFICATE

16 March 2015

Laboratory Code SUERC-58604 (GU36685)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL 002D

Context Reference 1214 **Sample Reference** 1120

Material Charcoal: Corylus avellana

 δ^{13} C relative to VPDB -28.0 %

Radiocarbon Age BP 4633 ± 28

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

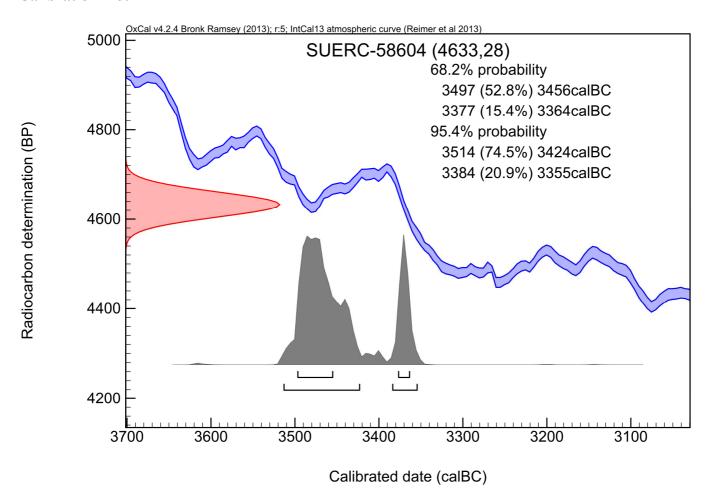
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

Samples with a SUERC coding are measured at the Scottish Universities Environmental Research Centre AMS Facility and should be quoted as such in any reports within the scientific literature. Any questions directed to the Radiocarbon Laboratory should also quote the GU coding given in parentheses after the SUERC code. The contact details for the laboratory are email Gordon.Cook@glasgow.ac.uk or telephone 01355 270136 direct line.

Checked and signed off by :- P. Nayont Date :- 16/03/2015









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RADIOCARBON DATING CERTIFICATE

16 March 2015

Laboratory Code SUERC-58605 (GU36686)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL 002D

Context Reference 1235 Sample Reference 1113

Material Charcoal: Corylus avellana

 δ^{13} C relative to VPDB -25.8 %

Radiocarbon Age BP 4494 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

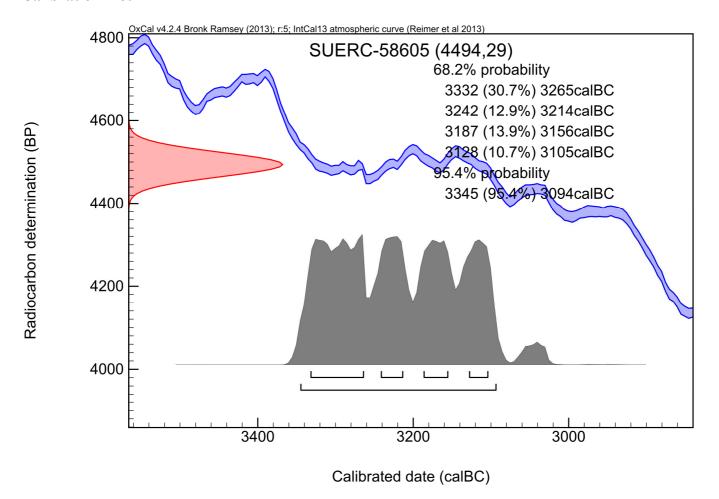
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Checked and signed off by :- P. Nayont Date :- 16/03/2015









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RADIOCARBON DATING CERTIFICATE

18 March 2015

Laboratory Code SUERC-58617 (GU36365R)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL-002D

Context Reference 1898 **Sample Reference** 1267

Material Charcoal: Salix sp

 δ^{13} C relative to VPDB -24.9 %

Radiocarbon Age BP 5097 ± 28

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

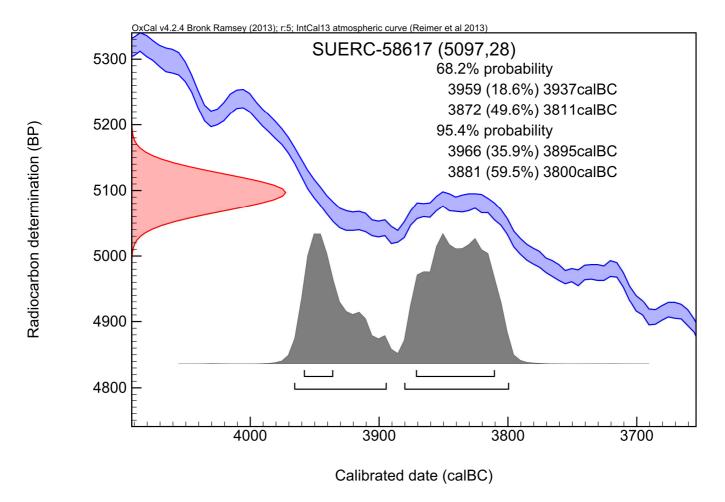
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

Samples with a SUERC coding are measured at the Scottish Universities Environmental Research Centre AMS Facility and should be quoted as such in any reports within the scientific literature. Any questions directed to the Radiocarbon Laboratory should also quote the GU coding given in parentheses after the SUERC code. The contact details for the laboratory are email Gordon.Cook@glasgow.ac.uk or telephone 01355 270136 direct line.

Checked and signed off by :- P. Nayont Date :- 18/03/2015









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RADIOCARBON DATING CERTIFICATE

23 March 2015

Laboratory Code SUERC-58844 (GU36812)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL003B

Context Reference 303 **Sample Reference** 1130

Material Bone: Burnt bone

 δ^{13} C relative to VPDB -22.6 %

Radiocarbon Age BP 3105 ± 30

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

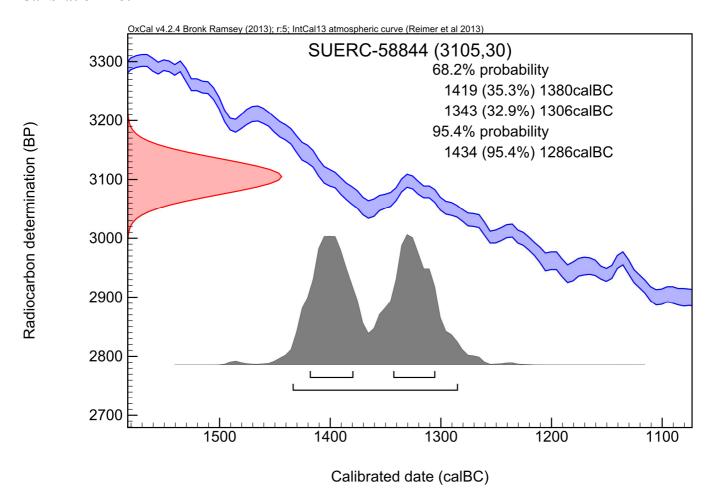
Samples with a SUERC coding are measured at the Scottish Universities Environmental Research Centre AMS Facility and should be quoted as such in any reports within the scientific literature. Any questions directed to the Radiocarbon Laboratory should also quote the GU coding given in parentheses after the SUERC code. The contact details for the laboratory are email Gordon.Cook@glasgow.ac.uk or telephone 01355 270136 direct line.

Conventional age and calibration age ranges calculated by :- Dubar Date :- 23/03/2015

Checked and signed off by:- P. Nayont Date: - 23/03/2015









Director: Professor R M Ellam

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RADIOCARBON DATING CERTIFICATE

30 March 2015

Laboratory Code SUERC-59043 (GU36863)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL SL002AB

Context Reference 2113 **Sample Reference** 1109

Material Charcoal: Ilex aquifolium

 δ^{13} C relative to VPDB -23.7 %

Radiocarbon Age BP 1936 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

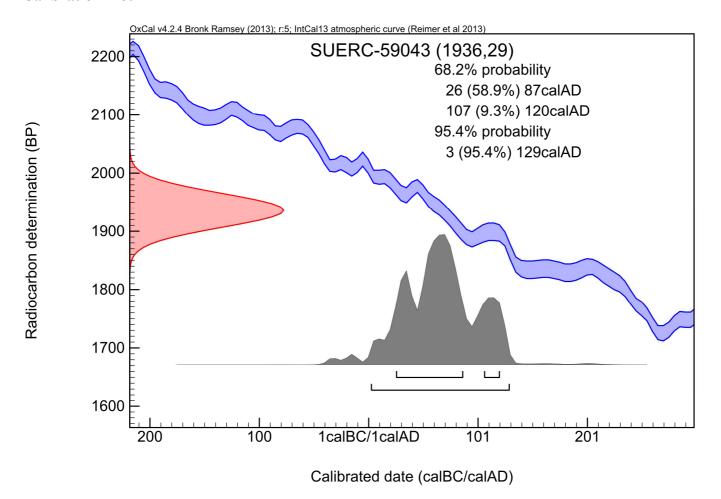
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

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Checked and signed off by:- P. Nayont Date: -30/03/2015









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RADIOCARBON DATING CERTIFICATE

30 March 2015

Laboratory Code SUERC-59044 (GU36864)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL SL002AB

Context Reference 2429 Sample Reference 1124

Material Charcoal: Alnus glutinosa

 δ^{13} C relative to VPDB -26.0 %

Radiocarbon Age BP 3080 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

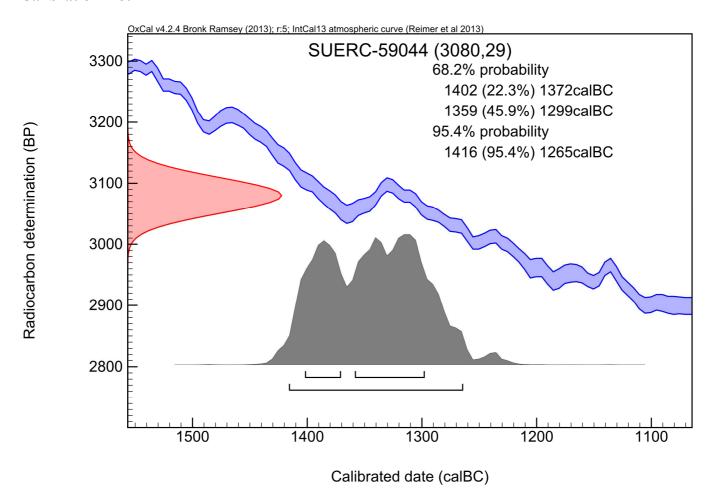
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Checked and signed off by:- P. Nayont Date: -30/03/2015









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RADIOCARBON DATING CERTIFICATE

13 April 2015

Laboratory Code SUERC-59290 (GU37159)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL003B

Context Reference 4
Sample Reference 1007

Material Charcoal: Corylus avellana

 δ^{13} C relative to VPDB -27.7 %

Radiocarbon Age BP 3059 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

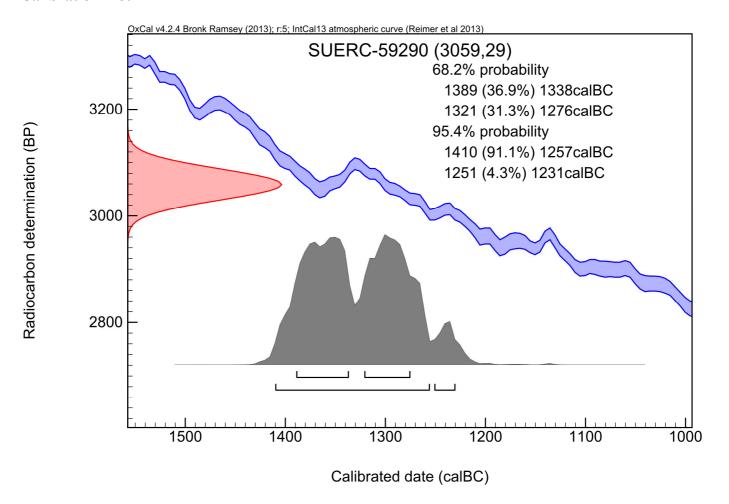
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Checked and signed off by :- P. Nayont Date :- 13/04/2015









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RADIOCARBON DATING CERTIFICATE

13 April 2015

Laboratory Code SUERC-59291 (GU37160)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL002C

Context Reference 10 Sample Reference 1005

Material Charcoal: Alnus glutinosa

 δ^{13} C relative to VPDB -28.5 %

Radiocarbon Age BP 1532 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

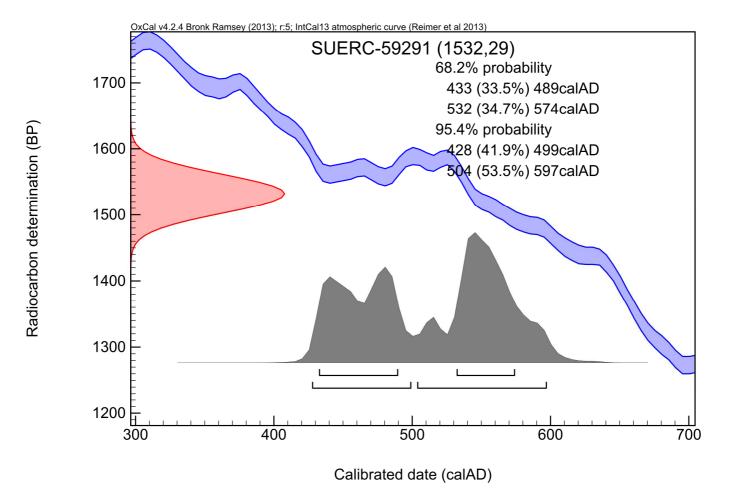
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

Samples with a SUERC coding are measured at the Scottish Universities Environmental Research Centre AMS Facility and should be quoted as such in any reports within the scientific literature. Any questions directed to the Radiocarbon Laboratory should also quote the GU coding given in parentheses after the SUERC code. The contact details for the laboratory are email Gordon.Cook@glasgow.ac.uk or telephone 01355 270136 direct line.

Checked and signed off by :- P. Nayont Date :- 13/04/2015









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RADIOCARBON DATING CERTIFICATE

08 April 2015

Laboratory Code SUERC-59296 (GU37194)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL002B

Context Reference 1033 **Sample Reference** 59

Material Charcoal: Pinus sp

 δ^{13} C relative to VPDB -26.9 %

Radiocarbon Age BP 104 ± 26

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

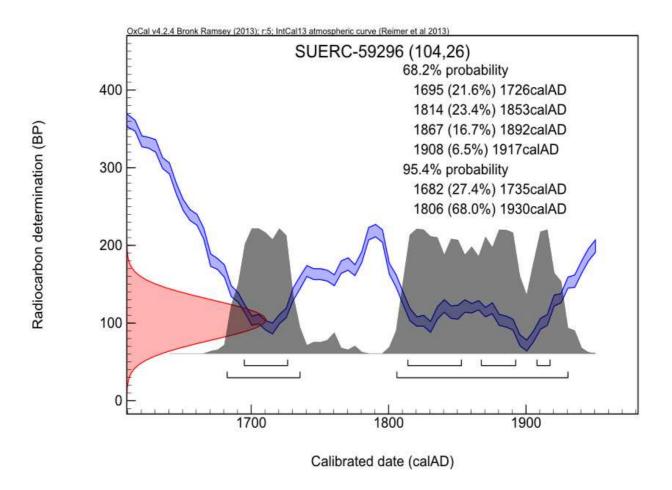
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Conventional age and calibration age ranges calculated by :- P. Nayont Date :- 08/04/2015

Checked and signed off by:- Bate: -08/04/2015











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68060 (GU41210)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL-002AB - Oven A05

Context Reference2AB-2019Sample Reference2AB-1219

Material Charcoal: Calluna vulgaris

 δ ¹³C relative to VPDB -27.2 %

Radiocarbon Age BP 1960 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

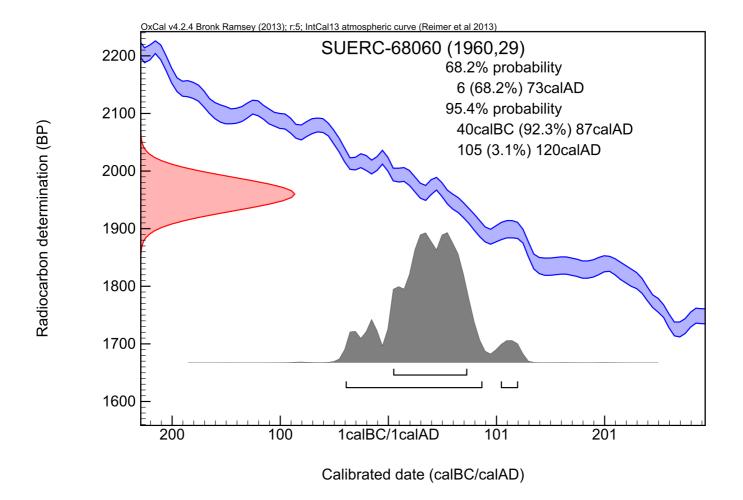
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Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68061 (GU41211)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL-002AB - Oven A07

Context Reference 2AB-2227 Sample Reference 2AB- 1093

Material Charcoal: Calluna vulgaris

 δ ¹³C relative to VPDB -25.9 %

Radiocarbon Age BP 1838 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

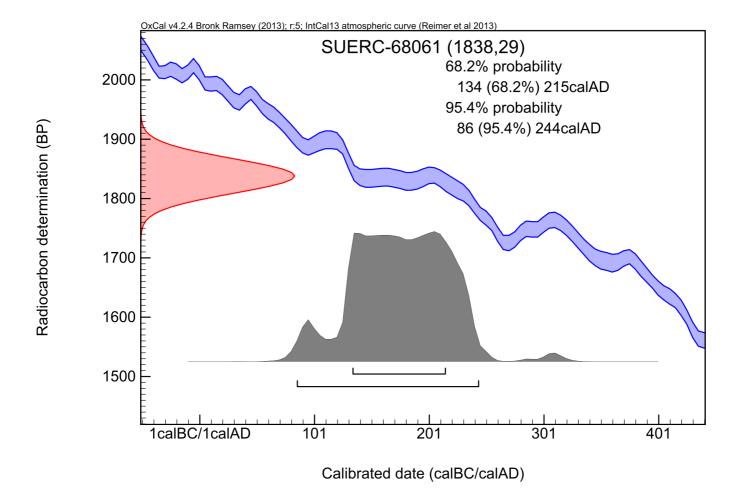
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Samples with a SUERC coding are measured at the Scottish Universities Environmental Research Centre AMS Facility and should be quoted as such in any reports within the scientific literature. Any questions directed to the Radiocarbon Laboratory should also quote the GU coding given in parentheses after the SUERC code. The contact details for the laboratory are email Gordon.Cook@glasgow.ac.uk or telephone 01355 270136 direct line.

Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68062 (GU41212)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL-002AB - Oven A08

Context Reference 2AB-2272 Sample Reference 2AB-1086

Material Charcoal: Calluna vulgaris

 δ ¹³C relative to VPDB -25.9 %

Radiocarbon Age BP 1942 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

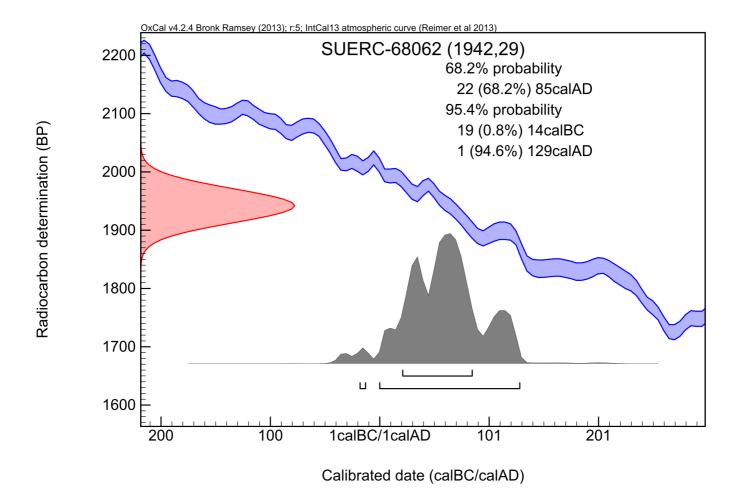
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Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68063 (GU41213)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL-002A - Oven B09

Context Reference 2A-0083 Sample Reference 2A-1048

Material Charcoal: Calluna vulgaris

 δ ¹³C relative to VPDB -27.0 %

Radiocarbon Age BP 1902 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

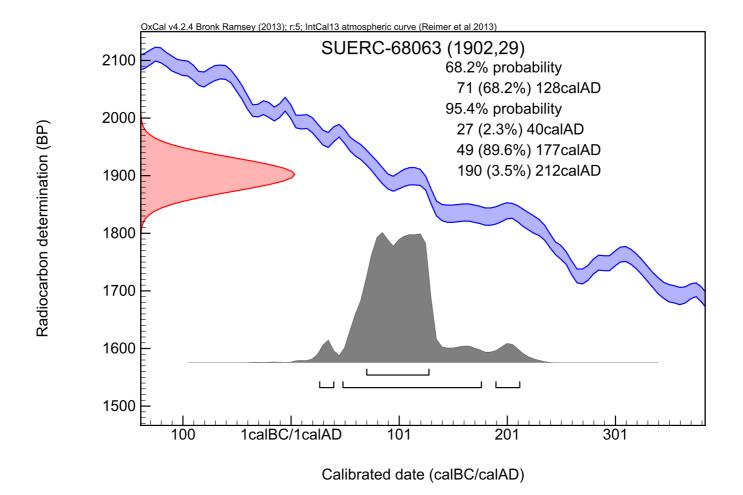
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Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68064 (GU41214)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL-002A - Oven B21

Context Reference 2A-0108 **Sample Reference** 2A-1071

Material Charcoal: Betula sp.

δ ¹³C relative to VPDB -29.8 ‰

Radiocarbon Age BP 2067 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

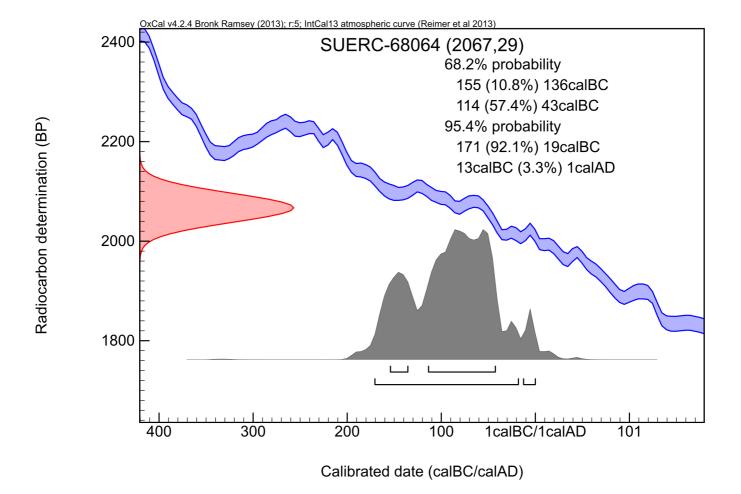
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Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68065 (GU41215)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL-002A - Oven C01

Context Reference 2A-0073 Sample Reference 2A-1036

Material Charcoal: Alnus glutinosa

 δ ¹³C relative to VPDB -27.0 %

Radiocarbon Age BP 1901 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

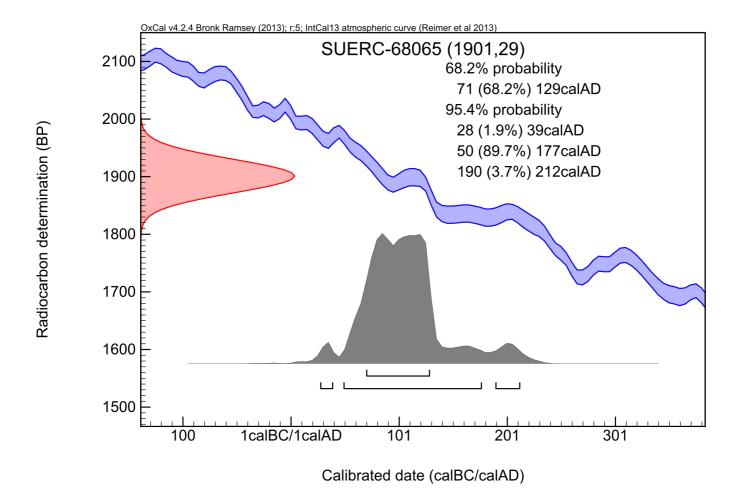
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

Samples with a SUERC coding are measured at the Scottish Universities Environmental Research Centre AMS Facility and should be quoted as such in any reports within the scientific literature. Any questions directed to the Radiocarbon Laboratory should also quote the GU coding given in parentheses after the SUERC code. The contact details for the laboratory are email Gordon.Cook@glasgow.ac.uk or telephone 01355 270136 direct line.

Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68066 (GU41216)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL-002AB - Oven C04

Context Reference 2AB-2629 Sample Reference 2AB-1235

Material Charcoal: Betula sp.

 δ ¹³C relative to VPDB -25.8 %

Radiocarbon Age BP 1984 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

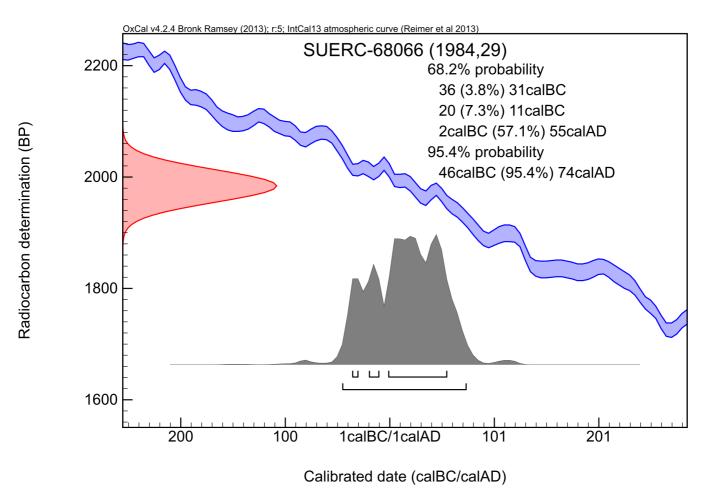
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

Samples with a SUERC coding are measured at the Scottish Universities Environmental Research Centre AMS Facility and should be quoted as such in any reports within the scientific literature. Any questions directed to the Radiocarbon Laboratory should also quote the GU coding given in parentheses after the SUERC code. The contact details for the laboratory are email Gordon.Cook@glasgow.ac.uk or telephone 01355 270136 direct line.

Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68070 (GU41217)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL-002A - Oven C08

Context Reference 2A-0090 Sample Reference 2A-1056

Material Charcoal: Alnus glutinosa

 δ ¹³C relative to VPDB -26.8 %

Radiocarbon Age BP 1937 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

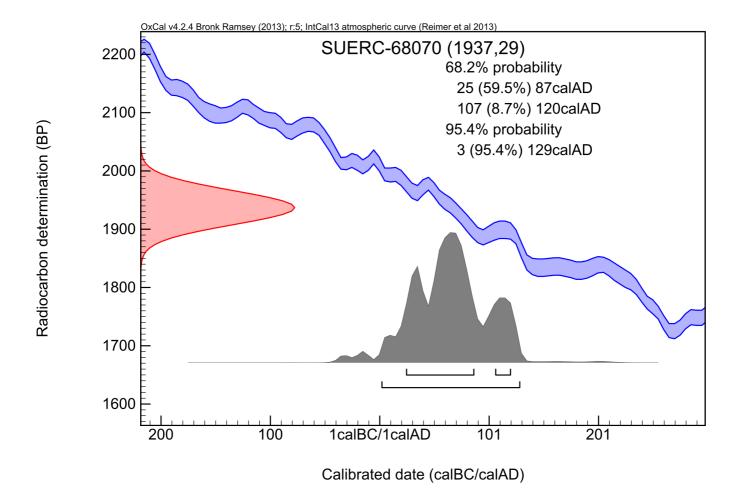
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

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Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68071 (GU41218)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL-002AB - Oven D04 (rake-out)

Context Reference 2AB-2294 **Sample Reference** 2AB-1090

Material Charcoal: Alnus glutinosa

 δ ¹³C relative to VPDB -27.3 %

Radiocarbon Age BP 1947 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

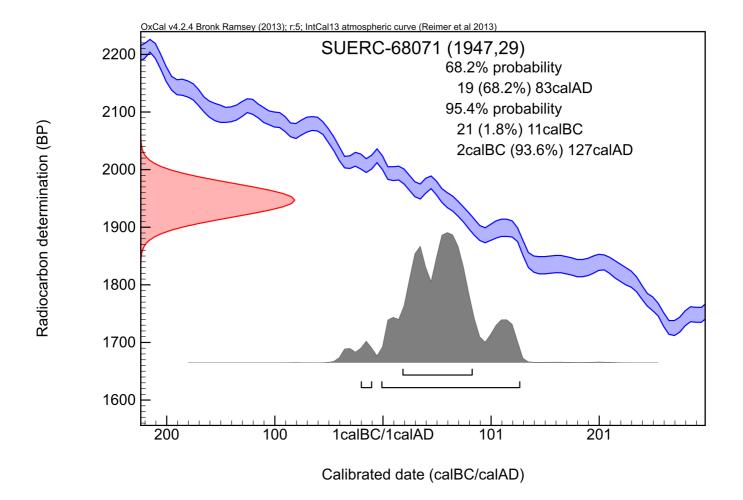
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

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Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68072 (GU41219)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL-002AB - Oven E01

Context Reference 2AB-2083 Sample Reference 2AB-1103

Material Charcoal: Alnus glutinosa

 δ ¹³C relative to VPDB -29.2 %

Radiocarbon Age BP 1903 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

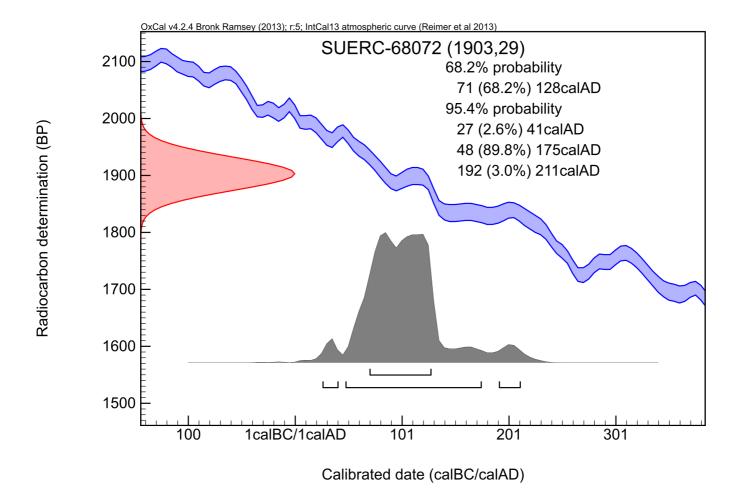
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Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68073 (GU41220)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL-002AB - Oven E04

Context Reference 2AB-2078 Sample Reference 2AB-1121

Material Charcoal: Alnus glutinosa

 δ ¹³C relative to VPDB -26.4 %

Radiocarbon Age BP 1870 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

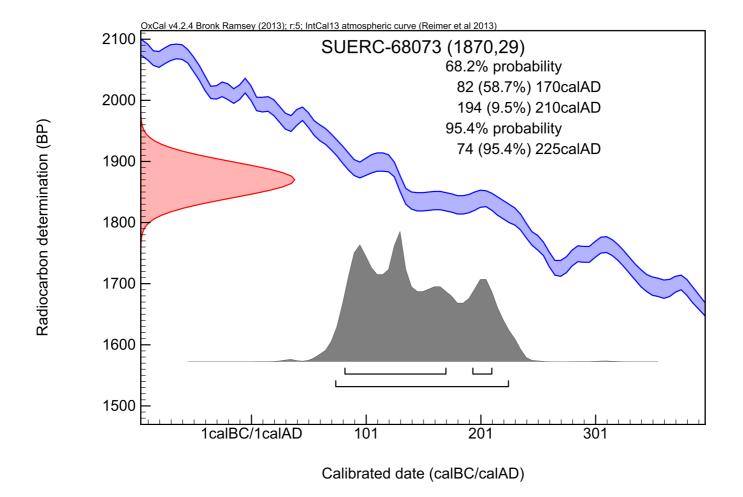
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

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Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68074 (GU41221)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL-002AB - Oven E09

Context Reference 2AB-2028 **Sample Reference** 2AB-1118

Material Charcoal: Salix sp.

 δ ¹³C relative to VPDB -28.7 %

Radiocarbon Age BP 1938 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

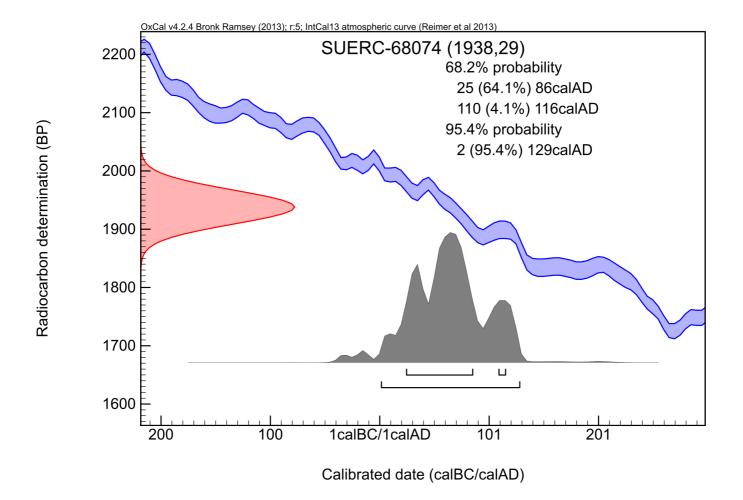
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

Samples with a SUERC coding are measured at the Scottish Universities Environmental Research Centre AMS Facility and should be quoted as such in any reports within the scientific literature. Any questions directed to the Radiocarbon Laboratory should also quote the GU coding given in parentheses after the SUERC code. The contact details for the laboratory are email Gordon.Cook@glasgow.ac.uk or telephone 01355 270136 direct line.

Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68075 (GU41222)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL-002AB - Oven F13

Context Reference2AB-2119Sample Reference2AB-1084

Material Charcoal: Corylus avellana

 δ ¹³C relative to VPDB -27.0 %

Radiocarbon Age BP 1917 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

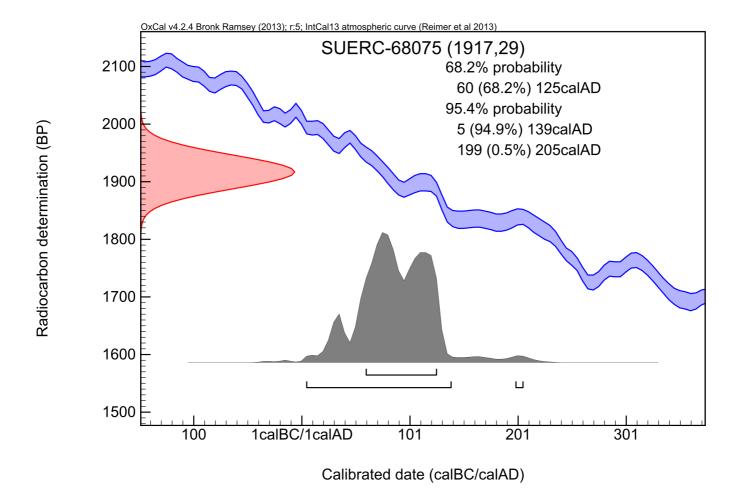
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

Samples with a SUERC coding are measured at the Scottish Universities Environmental Research Centre AMS Facility and should be quoted as such in any reports within the scientific literature. Any questions directed to the Radiocarbon Laboratory should also quote the GU coding given in parentheses after the SUERC code. The contact details for the laboratory are email Gordon.Cook@glasgow.ac.uk or telephone 01355 270136 direct line.

Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68076 (GU41223)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL-002AB - Oven G07

Context Reference 2AB-2191 Sample Reference 2AB-1215

Material Charcoal: Calluna vulgaris

 δ ¹³C relative to VPDB -25.9 %

Radiocarbon Age BP 1900 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

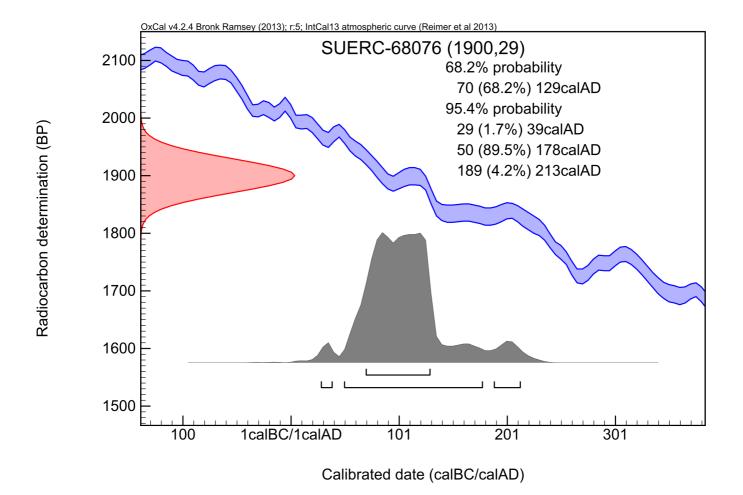
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

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Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68080 (GU41224)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL-002AB - Oven G08

Context Reference 2AB-2433 Sample Reference 2AB-1251

Material Charcoal: Ilex aquifolium

 δ ¹³C relative to VPDB -24.5 %

Radiocarbon Age BP 1885 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

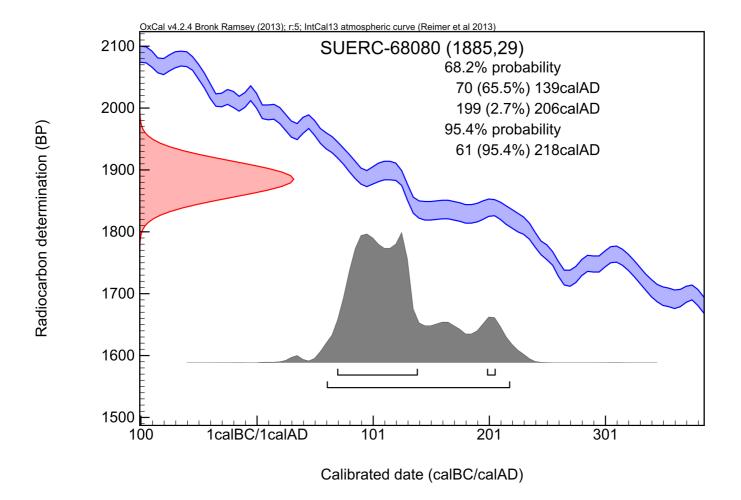
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

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Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68081 (GU41225)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL-002AB - Oven A11

Context Reference 2AB-1080 Sample Reference 2AB-2049

Material Charcoal: Calluna vulgaris

 δ ¹³C relative to VPDB -27.9 %

Radiocarbon Age BP 1818 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

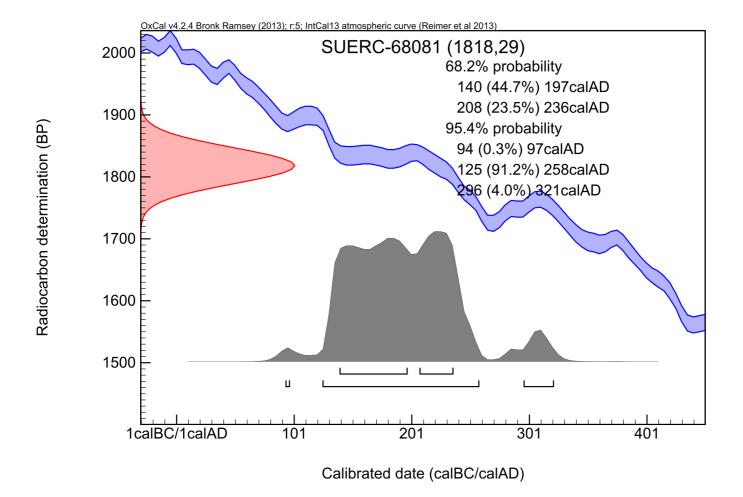
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Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68082 (GU41226)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL-002A - Oven B15

Context Reference 2AB-0141 **Sample Reference** 2AB-1098

Material Charcoal: Calluna vulgaris

 δ ¹³C relative to VPDB -27.0 %

Radiocarbon Age BP 1842 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

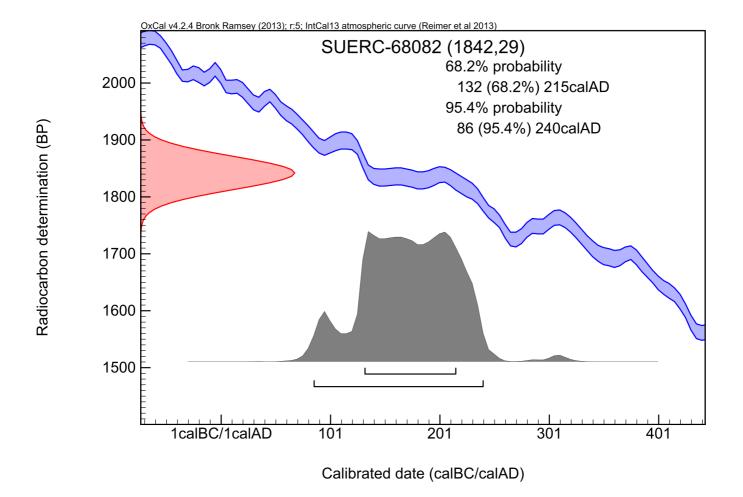
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

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Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68083 (GU41227)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL-002A - Oven B16

Context Reference 2A-0122 Sample Reference 2A-1111

Material Charcoal: Betula sp.

δ ¹³C relative to VPDB -25.8 %

Radiocarbon Age BP 1928 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

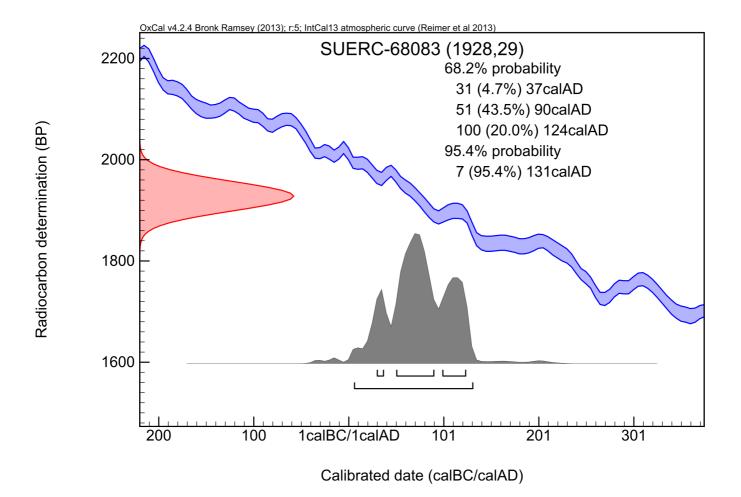
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

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Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68084 (GU41228)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL-002AB - Oven F06

Context Reference 2AB-2242 Sample Reference 2AB-1136

Material Charcoal: Calluna vulgaris

 δ ¹³C relative to VPDB -27.9 %

Radiocarbon Age BP 1875 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

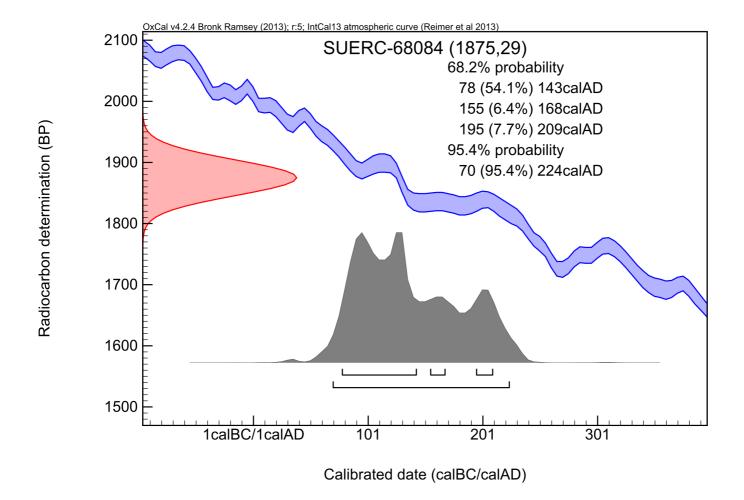
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Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68085 (GU41229)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL-002AB - Oven F08

Context Reference 2AB-2094 Sample Reference 2AB-1096

Material Charcoal: Alnus glutinosa

 δ ¹³C relative to VPDB -27.6 %

Radiocarbon Age BP 1894 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

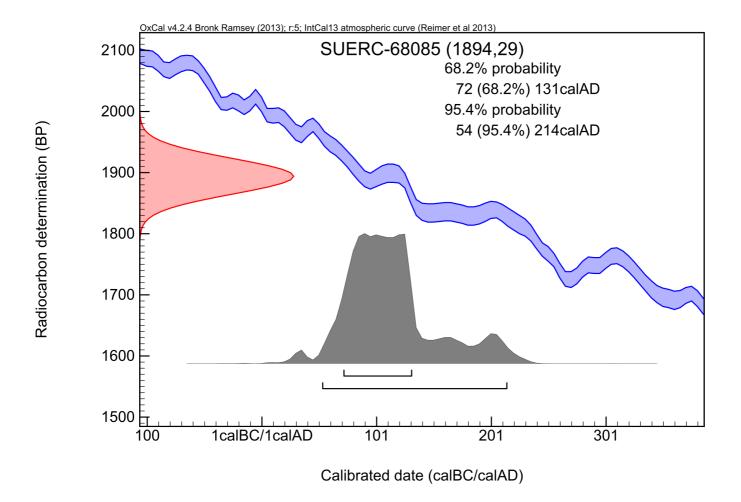
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Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68086 (GU41230)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL-002AB - Oven F19

Context Reference 2AB-2180 **Sample Reference** 2AB-1113

Material Charcoal: Calluna vulgaris

 δ ¹³C relative to VPDB -23.6 %

Radiocarbon Age BP 1873 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

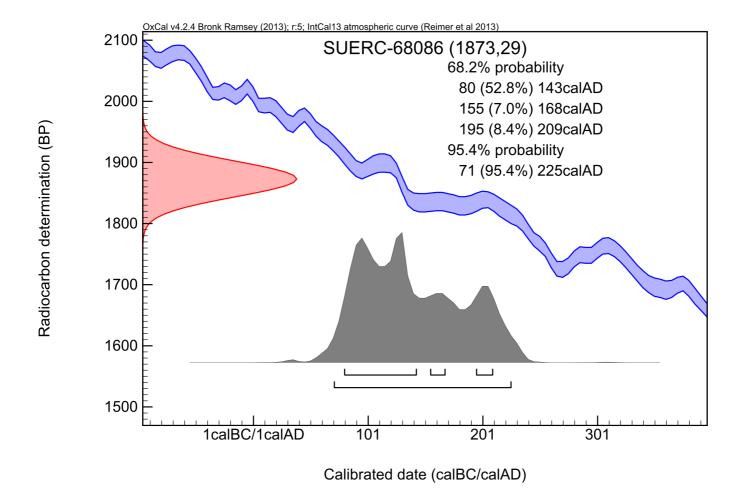
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

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Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68090 (GU41231)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL-002AB - Oven D02 (Rake-out)

Context Reference 2AB-2200 **Sample Reference** 2AB-1125

Material Charcoal: Calluna vulgaris

 δ ¹³C relative to VPDB -25.7 %

Radiocarbon Age BP 1877 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

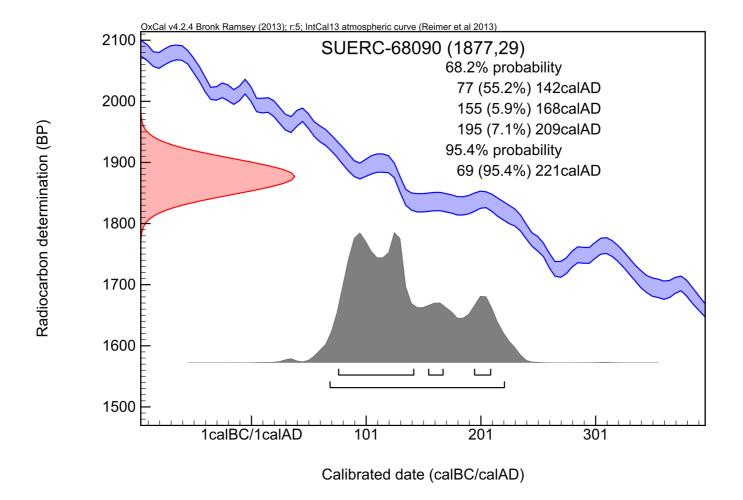
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

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Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68091 (GU41232)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site ReferenceABSL 002BContext Reference2B-0044Sample Reference2B-1023

Material Charcoal: Corylus avellana

 δ ¹³C relative to VPDB -28.4 %

Radiocarbon Age BP 2951 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

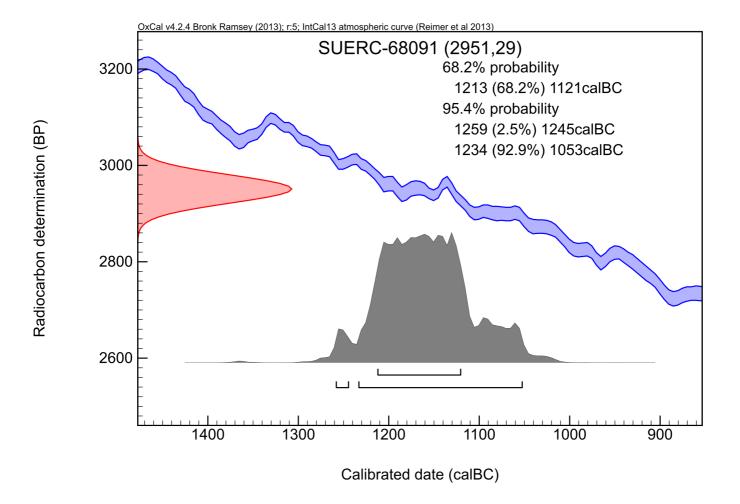
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

Samples with a SUERC coding are measured at the Scottish Universities Environmental Research Centre AMS Facility and should be quoted as such in any reports within the scientific literature. Any questions directed to the Radiocarbon Laboratory should also quote the GU coding given in parentheses after the SUERC code. The contact details for the laboratory are email Gordon.Cook@glasgow.ac.uk or telephone 01355 270136 direct line.

Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68092 (GU41233)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site ReferenceABSL 002BContext Reference2B-0081Sample Reference2B-1038

Material Charcoal: Alnus glutinosa

 δ ¹³C relative to VPDB -26.4 %

Radiocarbon Age BP 1066 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

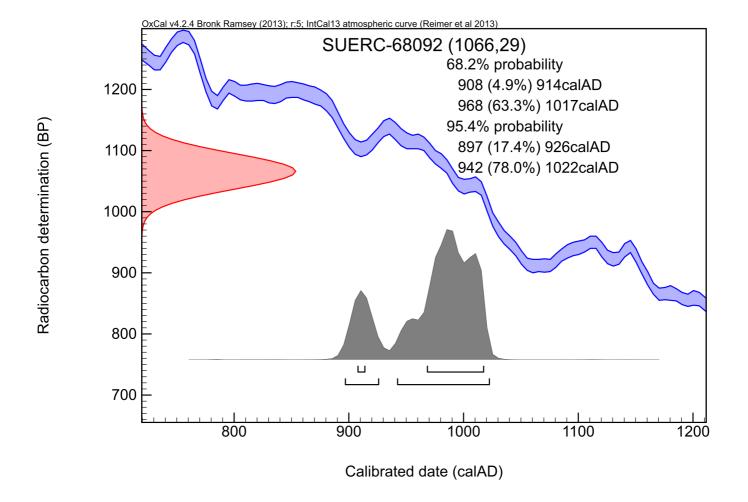
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

Samples with a SUERC coding are measured at the Scottish Universities Environmental Research Centre AMS Facility and should be quoted as such in any reports within the scientific literature. Any questions directed to the Radiocarbon Laboratory should also quote the GU coding given in parentheses after the SUERC code. The contact details for the laboratory are email Gordon.Cook@glasgow.ac.uk or telephone 01355 270136 direct line.

Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68093 (GU41234)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site ReferenceABSL 002BContext Reference2B-0110Sample Reference2B-1053

Material Charcoal: Corylus avellana

 δ ¹³C relative to VPDB -26.6 %

Radiocarbon Age BP 1112 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

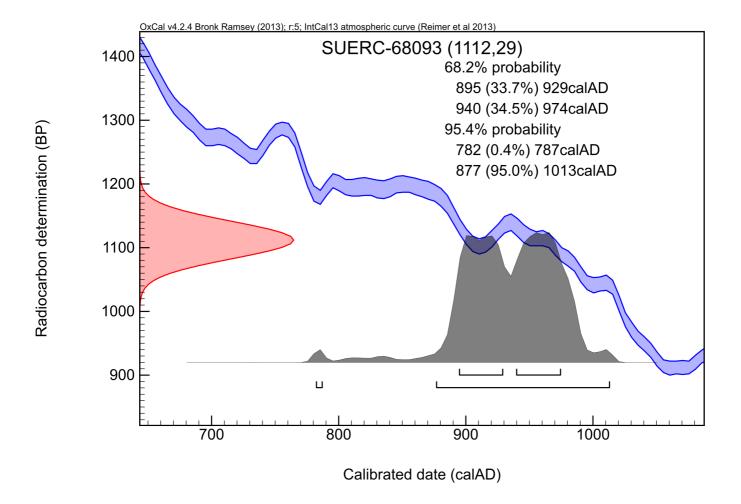
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

Samples with a SUERC coding are measured at the Scottish Universities Environmental Research Centre AMS Facility and should be quoted as such in any reports within the scientific literature. Any questions directed to the Radiocarbon Laboratory should also quote the GU coding given in parentheses after the SUERC code. The contact details for the laboratory are email Gordon.Cook@glasgow.ac.uk or telephone 01355 270136 direct line.

Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68094 (GU41236)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site ReferenceABSL 002CContext Reference2C-0070Sample Reference2C-1032

Material Charcoal: Corylus avellana

 δ ¹³C relative to VPDB -25.4 %

Radiocarbon Age BP 2990 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

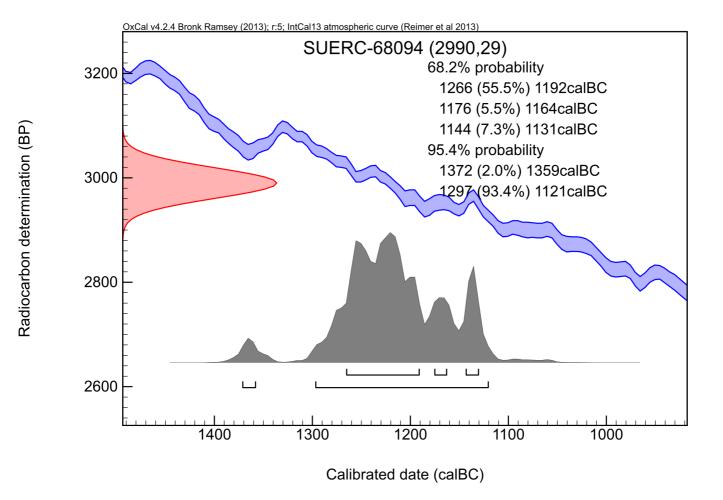
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

Samples with a SUERC coding are measured at the Scottish Universities Environmental Research Centre AMS Facility and should be quoted as such in any reports within the scientific literature. Any questions directed to the Radiocarbon Laboratory should also quote the GU coding given in parentheses after the SUERC code. The contact details for the laboratory are email Gordon.Cook@glasgow.ac.uk or telephone 01355 270136 direct line.

Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68095 (GU41237)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site ReferenceABSL 002DContext Reference2D-1489Sample Reference2D-1194

Material Charcoal: Corylus avellana

 δ ¹³C relative to VPDB -25.7 %

Radiocarbon Age BP 8142 ± 30

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

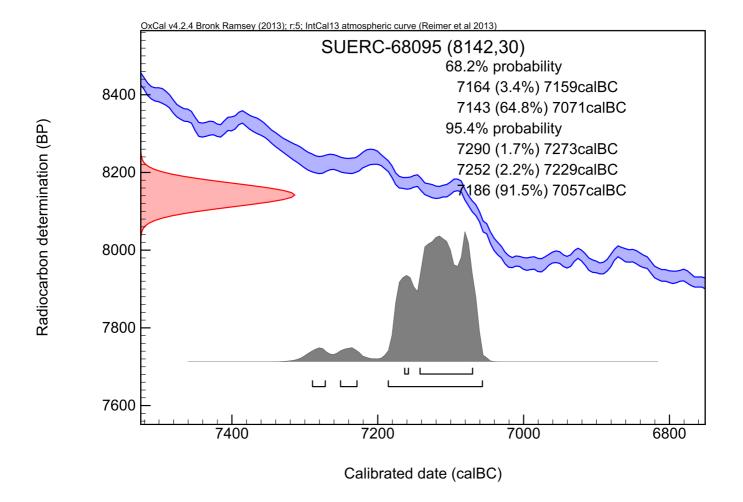
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

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Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68096 (GU41238)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site ReferenceABSL 002DContext Reference2D-1028Sample Reference2D-1015

Material Charcoal: Corylus avellana

 δ ¹³C relative to VPDB -26.7 %

Radiocarbon Age BP 8620 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

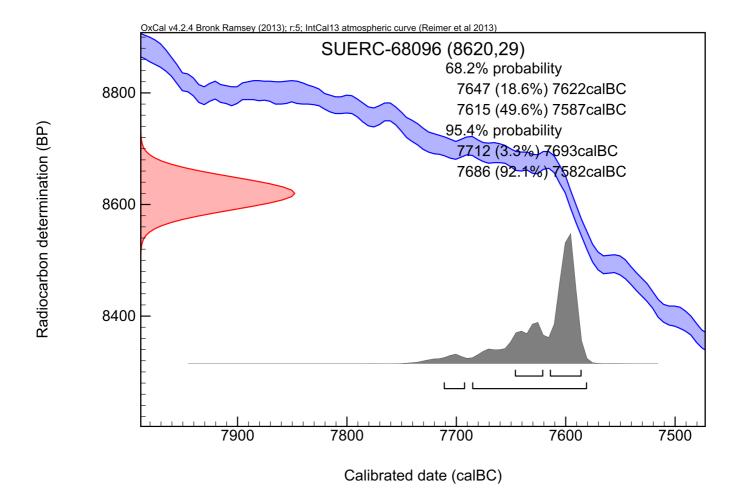
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

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Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68100 (GU41239)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site ReferenceABSL 002DContext Reference2D-1015Sample Reference2D-1008

Material Charcoal: Pomoideae sp.

 δ ¹³C relative to VPDB -25.3 %

Radiocarbon Age BP 8313 ± 30

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

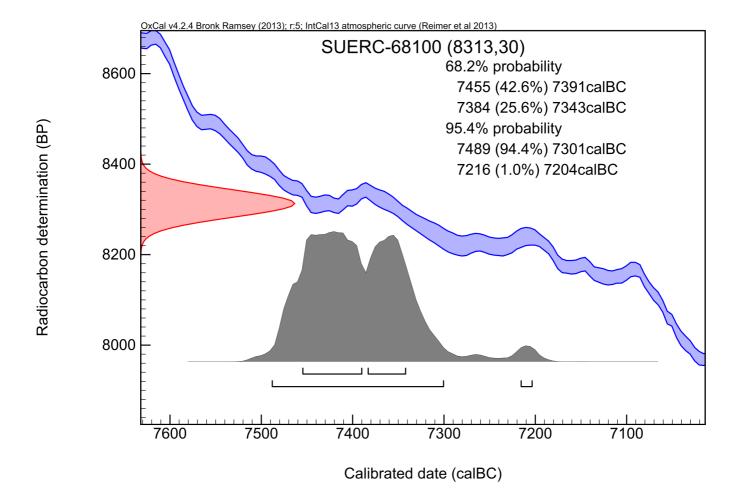
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

Samples with a SUERC coding are measured at the Scottish Universities Environmental Research Centre AMS Facility and should be quoted as such in any reports within the scientific literature. Any questions directed to the Radiocarbon Laboratory should also quote the GU coding given in parentheses after the SUERC code. The contact details for the laboratory are email Gordon.Cook@glasgow.ac.uk or telephone 01355 270136 direct line.

Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68101 (GU41240)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site ReferenceABSL 002DContext Reference2D-1777Sample Reference2D-1245

Material Nutshell: Corylus avellana

 δ ¹³C relative to VPDB -25.3 %

Radiocarbon Age BP 8897 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

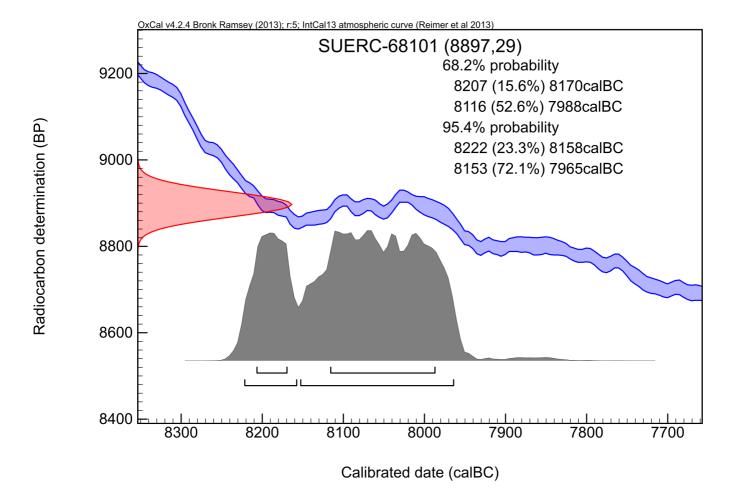
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

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Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68102 (GU41241)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site ReferenceABSL 002DContext Reference2D-1881Sample Reference2D-1255

Material Charcoal: Corylus avellana

 δ ¹³C relative to VPDB -26.9 %

Radiocarbon Age BP 5026 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

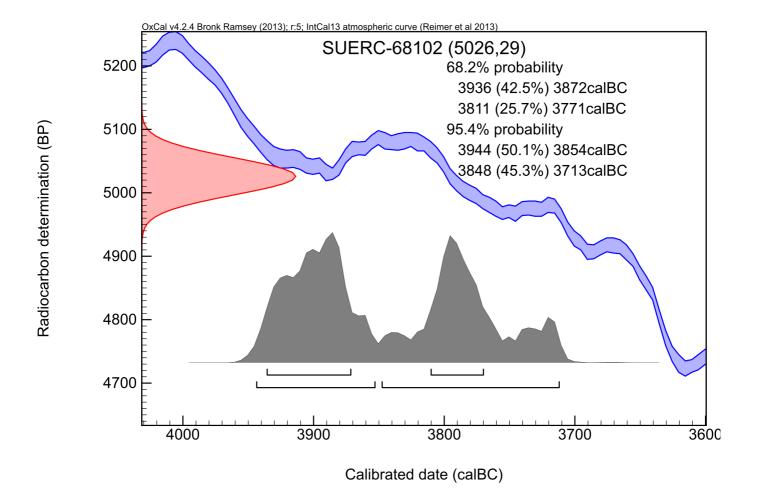
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

Samples with a SUERC coding are measured at the Scottish Universities Environmental Research Centre AMS Facility and should be quoted as such in any reports within the scientific literature. Any questions directed to the Radiocarbon Laboratory should also quote the GU coding given in parentheses after the SUERC code. The contact details for the laboratory are email Gordon.Cook@glasgow.ac.uk or telephone 01355 270136 direct line.

Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68103 (GU41242)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site ReferenceABSL 002DContext Reference2D-1613Sample Reference2D-1215

Material Charcoal: Corylus avellana

 δ ¹³C relative to VPDB -24.3 %

Radiocarbon Age BP 3154 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

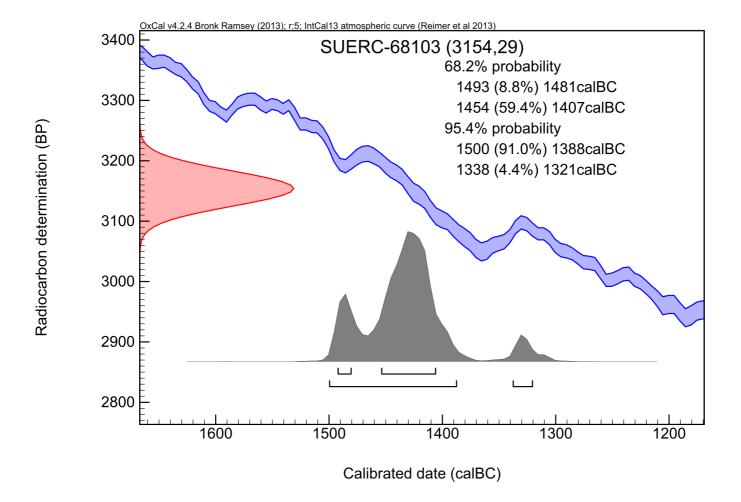
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

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Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68104 (GU41243)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site ReferenceABSL 002DContext Reference2D-1266Sample Reference2D-1127

Material Charcoal: Ilex aquifolium

 δ ¹³C relative to VPDB -26.3 %

Radiocarbon Age BP 5036 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

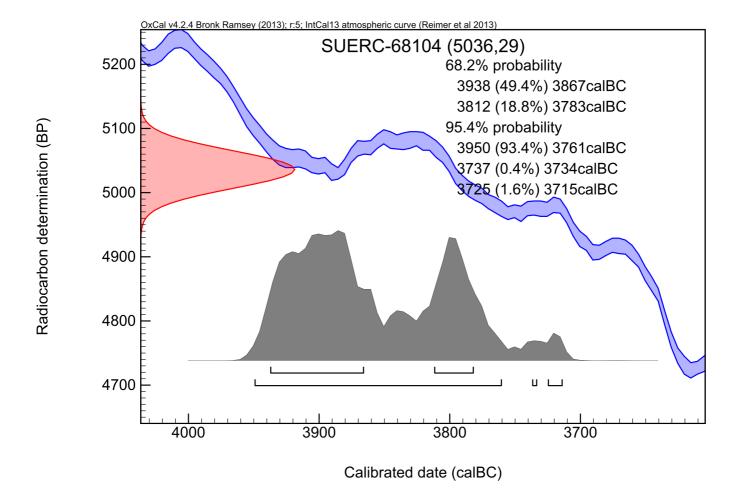
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

Samples with a SUERC coding are measured at the Scottish Universities Environmental Research Centre AMS Facility and should be quoted as such in any reports within the scientific literature. Any questions directed to the Radiocarbon Laboratory should also quote the GU coding given in parentheses after the SUERC code. The contact details for the laboratory are email Gordon.Cook@glasgow.ac.uk or telephone 01355 270136 direct line.

Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68105 (GU41244)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site ReferenceABSL 002DContext Reference2D-1786Sample Reference2D-1253

Material Charcoal: Ilex aquifolium

 δ ¹³C relative to VPDB -25.0 %

Radiocarbon Age BP 5024 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

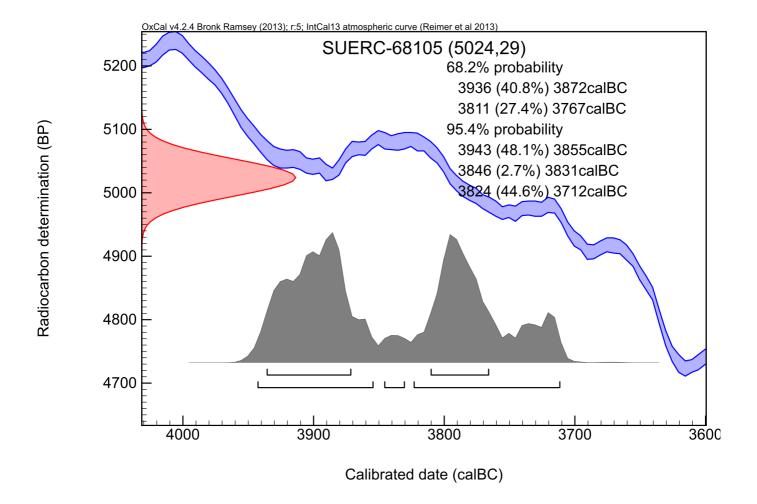
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

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Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68106 (GU41245)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site ReferenceABSL 002DContext Reference2D-1119Sample Reference2D-1062

Material Charcoal: Salix sp.

 δ ¹³C relative to VPDB -27.8 %

Radiocarbon Age BP 8848 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

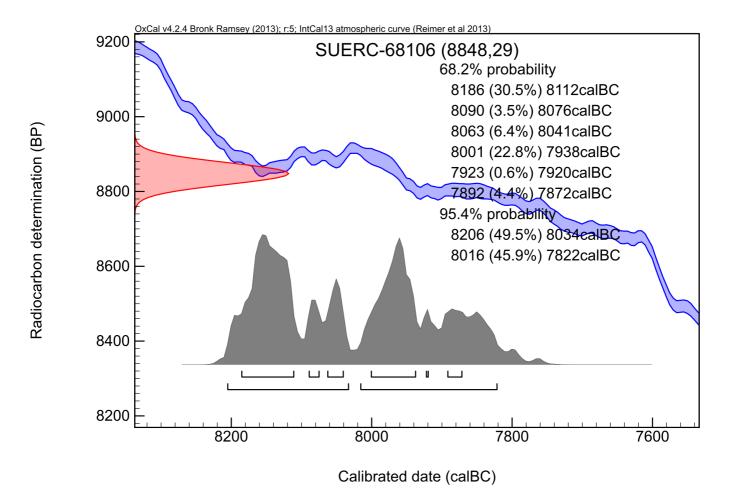
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

Samples with a SUERC coding are measured at the Scottish Universities Environmental Research Centre AMS Facility and should be quoted as such in any reports within the scientific literature. Any questions directed to the Radiocarbon Laboratory should also quote the GU coding given in parentheses after the SUERC code. The contact details for the laboratory are email Gordon.Cook@glasgow.ac.uk or telephone 01355 270136 direct line.

Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68110 (GU41246)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site ReferenceABSL 002DContext Reference2D-1128Sample Reference2D-1076

Material Nutshell: Corylus avellana

 δ ¹³C relative to VPDB -25.0 %

Radiocarbon Age BP 5737 ± 30

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

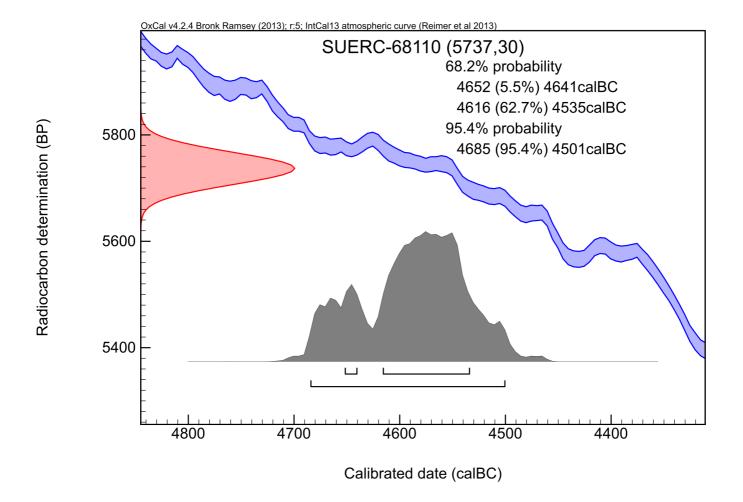
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

Samples with a SUERC coding are measured at the Scottish Universities Environmental Research Centre AMS Facility and should be quoted as such in any reports within the scientific literature. Any questions directed to the Radiocarbon Laboratory should also quote the GU coding given in parentheses after the SUERC code. The contact details for the laboratory are email Gordon.Cook@glasgow.ac.uk or telephone 01355 270136 direct line.

Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68111 (GU41247)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site ReferenceABSL 002DContext Reference2D-1576Sample Reference2D-1226

Material Charcoal: Betula sp.

 δ ¹³C relative to VPDB -27.3 %

Radiocarbon Age BP 2948 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

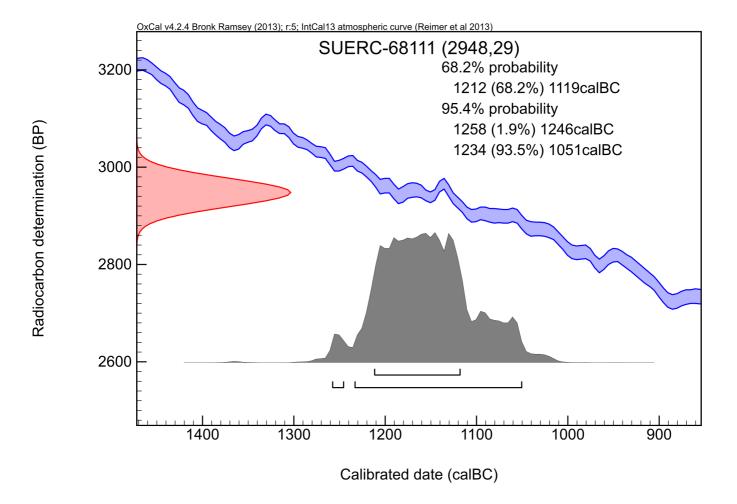
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

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Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68112 (GU41248)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site ReferenceABSL 002DContext Reference2D-1259Sample Reference2D-1124

Material Charcoal: Corylus avellana

 δ ¹³C relative to VPDB -26.3 %

Radiocarbon Age BP 5076 ± 30

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

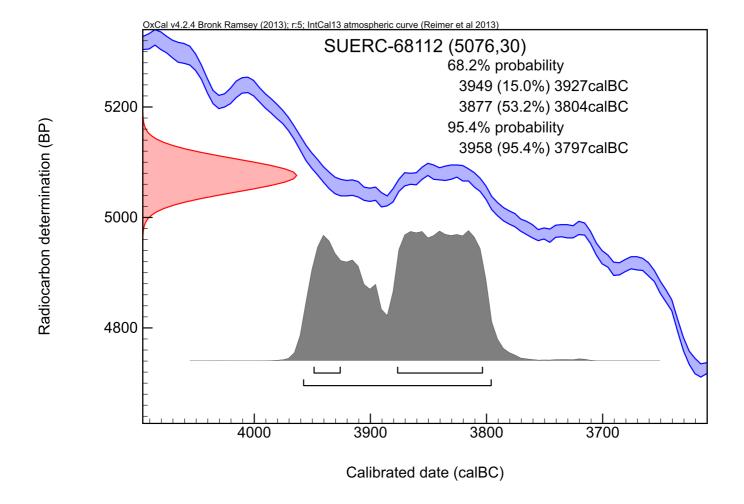
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

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Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68113 (GU41249)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site ReferenceABSL 002DContext Reference2D-1144Sample Reference2D-1229

Material Charcoal: Corylus avellana

 δ ¹³C relative to VPDB -26.3 %

Radiocarbon Age BP 6251 ± 30

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

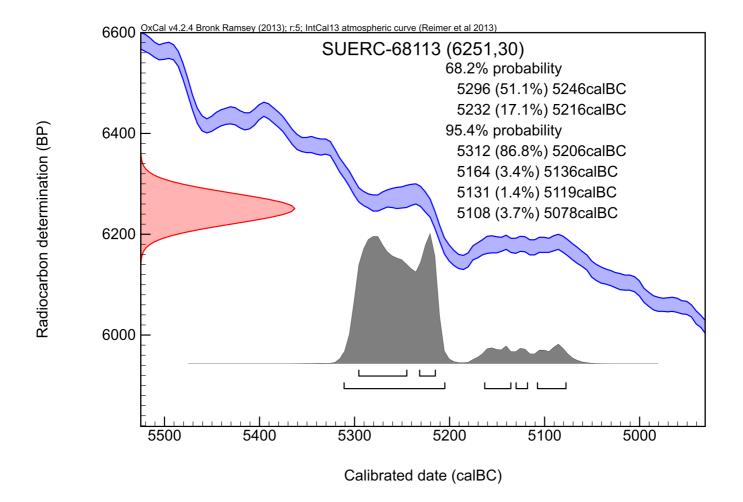
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

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Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68114 (GU41250)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site ReferenceABSL 002DContext Reference2D-1824Sample Reference2D-1251

Material Charcoal: Corylus avellana

 δ ¹³C relative to VPDB -27.3 %

Radiocarbon Age BP 5030 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

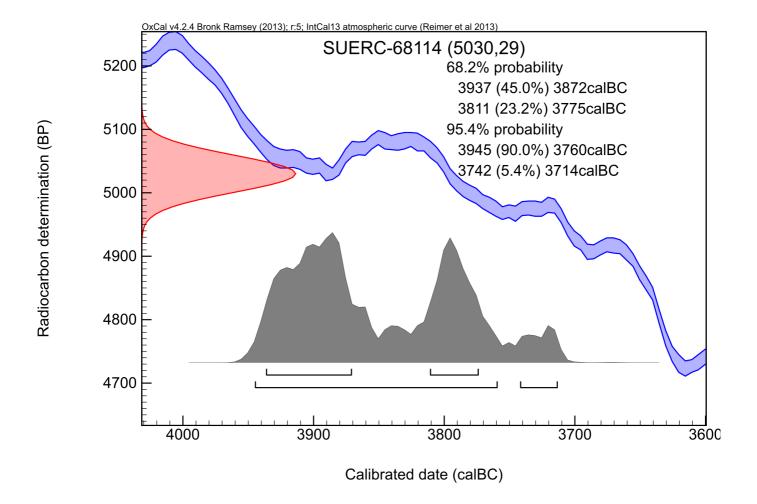
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

Samples with a SUERC coding are measured at the Scottish Universities Environmental Research Centre AMS Facility and should be quoted as such in any reports within the scientific literature. Any questions directed to the Radiocarbon Laboratory should also quote the GU coding given in parentheses after the SUERC code. The contact details for the laboratory are email Gordon.Cook@glasgow.ac.uk or telephone 01355 270136 direct line.

Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68115 (GU41251)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site ReferenceABSL 002DContext Reference2D-1274Sample Reference2D-1132

Material Charcoal: Corylus avellana

 δ ¹³C relative to VPDB -25.7 %

Radiocarbon Age BP 5962 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

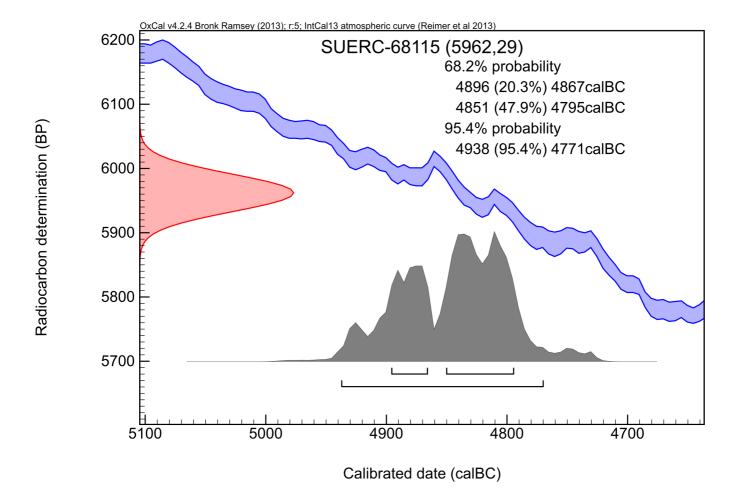
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

Samples with a SUERC coding are measured at the Scottish Universities Environmental Research Centre AMS Facility and should be quoted as such in any reports within the scientific literature. Any questions directed to the Radiocarbon Laboratory should also quote the GU coding given in parentheses after the SUERC code. The contact details for the laboratory are email Gordon.Cook@glasgow.ac.uk or telephone 01355 270136 direct line.

Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68116 (GU41252)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site ReferenceABSL 002DContext Reference2D-1226Sample Reference2D-1099

Material Charcoal: Corylus avellana

 δ ¹³C relative to VPDB -27.9 %

Radiocarbon Age BP 5780 ± 30

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

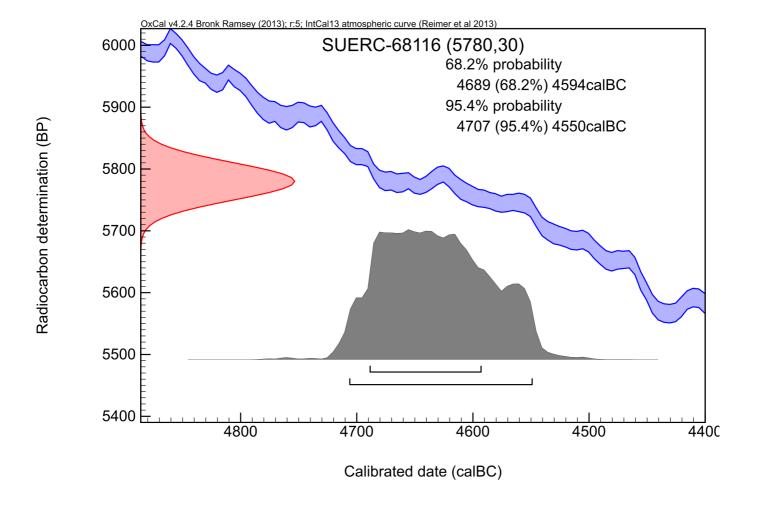
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

Samples with a SUERC coding are measured at the Scottish Universities Environmental Research Centre AMS Facility and should be quoted as such in any reports within the scientific literature. Any questions directed to the Radiocarbon Laboratory should also quote the GU coding given in parentheses after the SUERC code. The contact details for the laboratory are email Gordon.Cook@glasgow.ac.uk or telephone 01355 270136 direct line.

Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68120 (GU41253)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site ReferenceABSL 002DContext Reference2D-1408Sample Reference2D-1177

Material Charcoal: Corylus avellana

 δ ¹³C relative to VPDB -28.1 %

Radiocarbon Age BP 5014 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

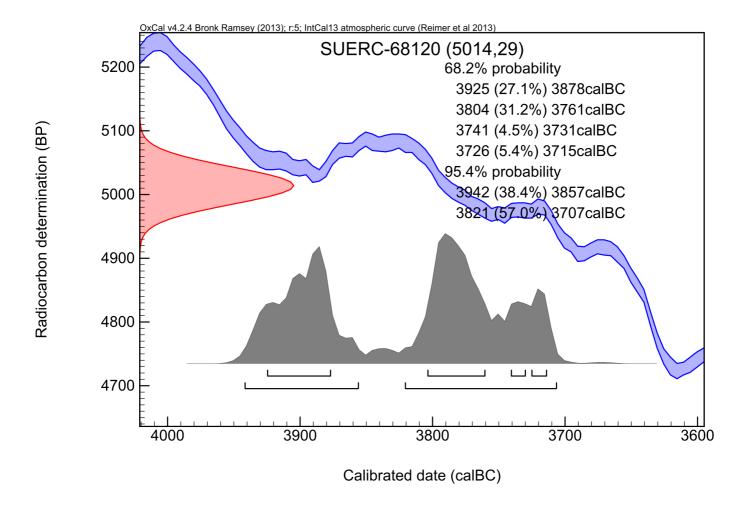
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

Samples with a SUERC coding are measured at the Scottish Universities Environmental Research Centre AMS Facility and should be quoted as such in any reports within the scientific literature. Any questions directed to the Radiocarbon Laboratory should also quote the GU coding given in parentheses after the SUERC code. The contact details for the laboratory are email Gordon.Cook@glasgow.ac.uk or telephone 01355 270136 direct line.

Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68121 (GU41254)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABNL13- NL013

Context Reference 13-0012 **Sample Reference** 13-0005

Material Charcoal: Corylus avellana

 δ ¹³C relative to VPDB -26.0 %

Radiocarbon Age BP 3744 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

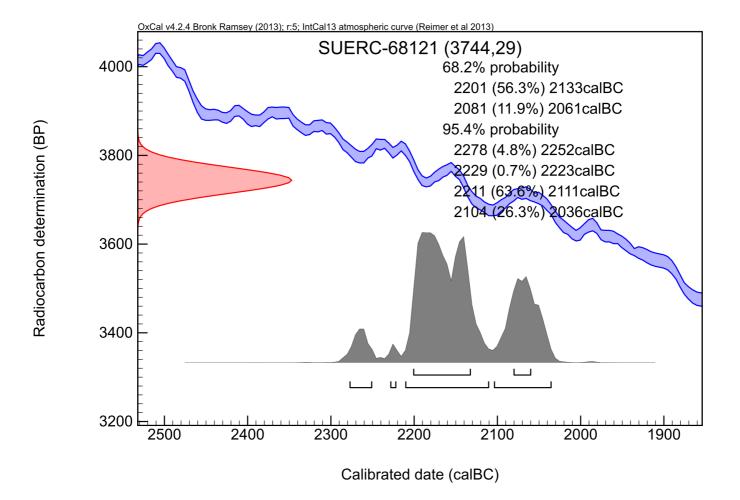
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

Samples with a SUERC coding are measured at the Scottish Universities Environmental Research Centre AMS Facility and should be quoted as such in any reports within the scientific literature. Any questions directed to the Radiocarbon Laboratory should also quote the GU coding given in parentheses after the SUERC code. The contact details for the laboratory are email Gordon.Cook@glasgow.ac.uk or telephone 01355 270136 direct line.

Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68122 (GU41255)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABNL13- NL012

Context Reference 12-0019 **Sample Reference** 12-0009

Material Charcoal: Corylus avellana

 δ ¹³C relative to VPDB -26.8 %

Radiocarbon Age BP 4996 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

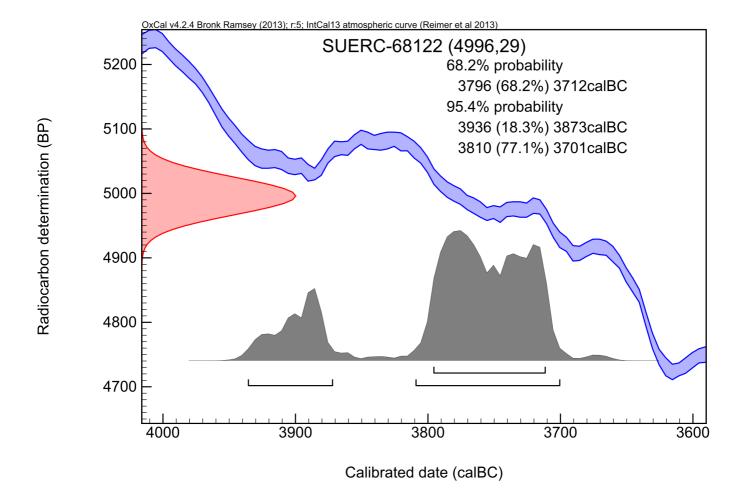
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

Samples with a SUERC coding are measured at the Scottish Universities Environmental Research Centre AMS Facility and should be quoted as such in any reports within the scientific literature. Any questions directed to the Radiocarbon Laboratory should also quote the GU coding given in parentheses after the SUERC code. The contact details for the laboratory are email Gordon.Cook@glasgow.ac.uk or telephone 01355 270136 direct line.

Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68123 (GU41256)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABNL13- NL012

Context Reference 12-0007 **Sample Reference** 12-0018

Material Nutshell: Corylus avellana

 δ ¹³C relative to VPDB -25.9 %

Radiocarbon Age BP 5373 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

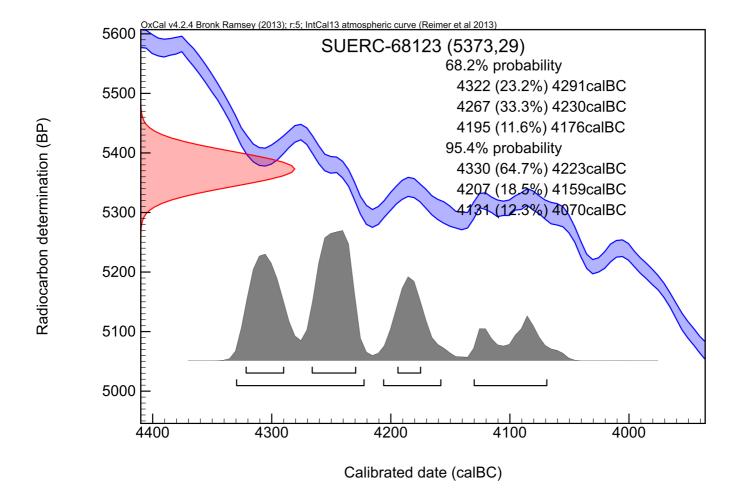
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

Samples with a SUERC coding are measured at the Scottish Universities Environmental Research Centre AMS Facility and should be quoted as such in any reports within the scientific literature. Any questions directed to the Radiocarbon Laboratory should also quote the GU coding given in parentheses after the SUERC code. The contact details for the laboratory are email Gordon.Cook@glasgow.ac.uk or telephone 01355 270136 direct line.

Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68124 (GU41258)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABNL13-003B

Context Reference 3B-0019 **Sample Reference** 3B-0019

Material Nutshell: Corylus avellana

 δ ¹³C relative to VPDB -26.0 %

Radiocarbon Age BP 7960 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

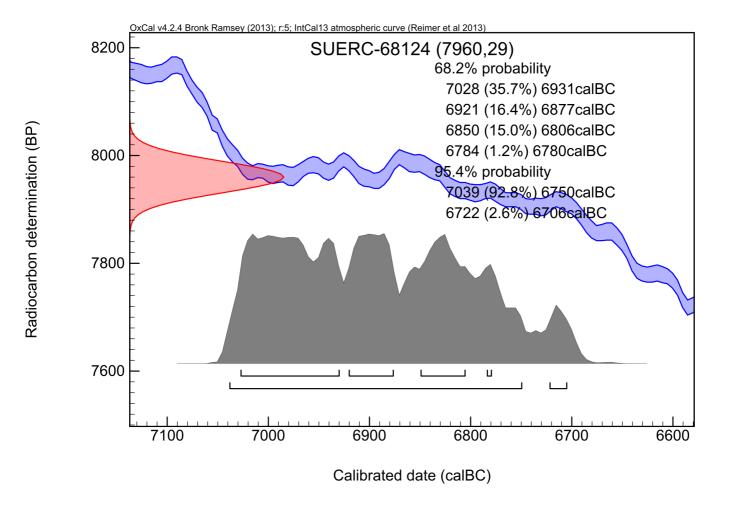
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

Samples with a SUERC coding are measured at the Scottish Universities Environmental Research Centre AMS Facility and should be quoted as such in any reports within the scientific literature. Any questions directed to the Radiocarbon Laboratory should also quote the GU coding given in parentheses after the SUERC code. The contact details for the laboratory are email Gordon.Cook@glasgow.ac.uk or telephone 01355 270136 direct line.

Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68125 (GU41259)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABNL13-003B

Context Reference 3B-0017 **Sample Reference** 3B-0015

Material Nutshell: Corylus avellana

 δ ¹³C relative to VPDB -25.5 %

Radiocarbon Age BP 7988 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

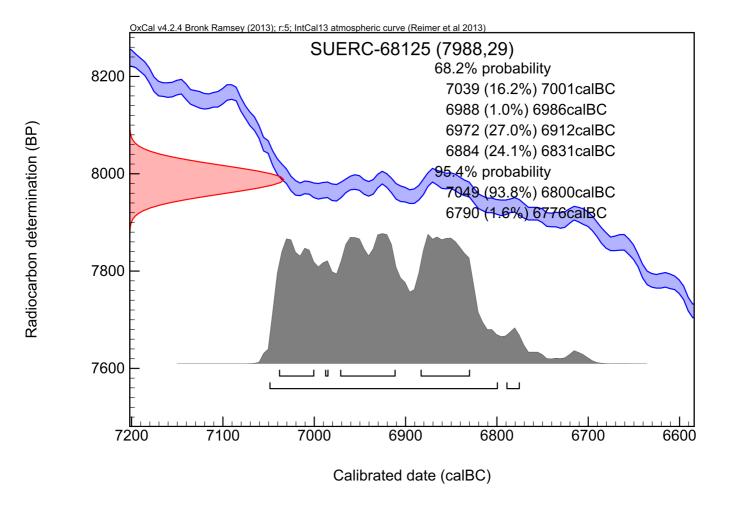
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

Samples with a SUERC coding are measured at the Scottish Universities Environmental Research Centre AMS Facility and should be quoted as such in any reports within the scientific literature. Any questions directed to the Radiocarbon Laboratory should also quote the GU coding given in parentheses after the SUERC code. The contact details for the laboratory are email Gordon.Cook@glasgow.ac.uk or telephone 01355 270136 direct line.

Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68126 (GU41260)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABNL13-003B

Context Reference 3B-0026 **Sample Reference** 3B-0017

Material Nutshell: Corylus avellana

 δ ¹³C relative to VPDB -26.5 %

Radiocarbon Age BP 7967 ± 30

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

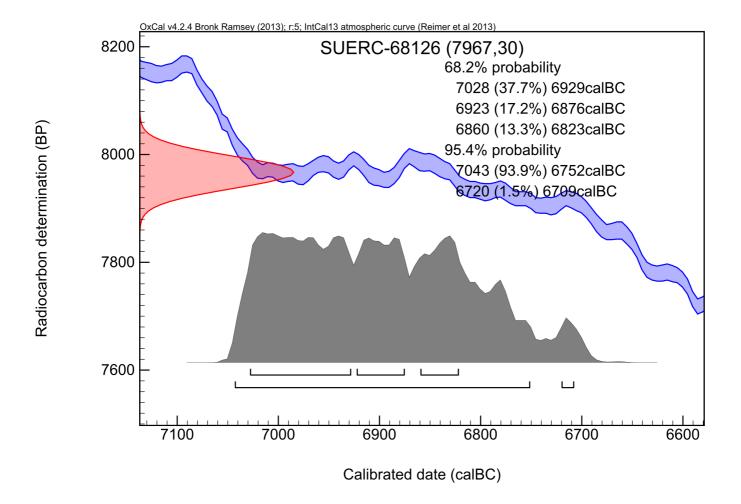
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

Samples with a SUERC coding are measured at the Scottish Universities Environmental Research Centre AMS Facility and should be quoted as such in any reports within the scientific literature. Any questions directed to the Radiocarbon Laboratory should also quote the GU coding given in parentheses after the SUERC code. The contact details for the laboratory are email Gordon.Cook@glasgow.ac.uk or telephone 01355 270136 direct line.

Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68130 (GU41261)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site ReferenceABNL 006AContext Reference6A-0177Sample Reference6A-0092

Material Nutshell: Corylus avellana

 δ ¹³C relative to VPDB -26.7 %

Radiocarbon Age BP 1885 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

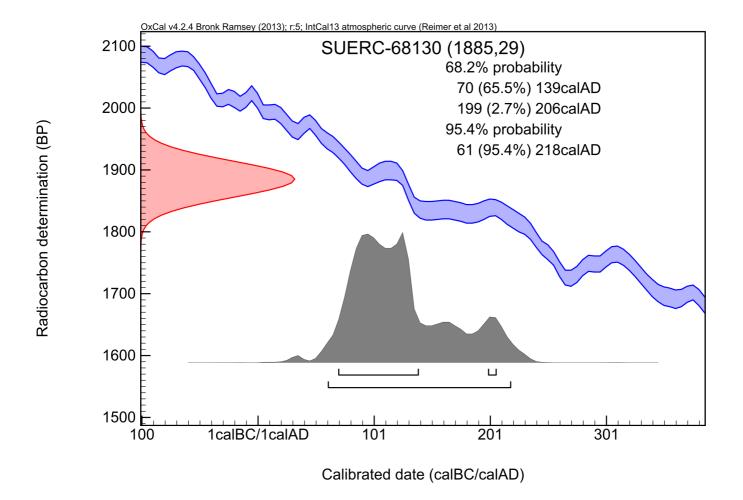
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

Samples with a SUERC coding are measured at the Scottish Universities Environmental Research Centre AMS Facility and should be quoted as such in any reports within the scientific literature. Any questions directed to the Radiocarbon Laboratory should also quote the GU coding given in parentheses after the SUERC code. The contact details for the laboratory are email Gordon.Cook@glasgow.ac.uk or telephone 01355 270136 direct line.

Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68131 (GU41262)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site ReferenceABNL 006AContext Reference6A-0157Sample Reference6A-0081

Material Charcoal: Corylus avellana

 δ ¹³C relative to VPDB -26.3 %

Radiocarbon Age BP 1894 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

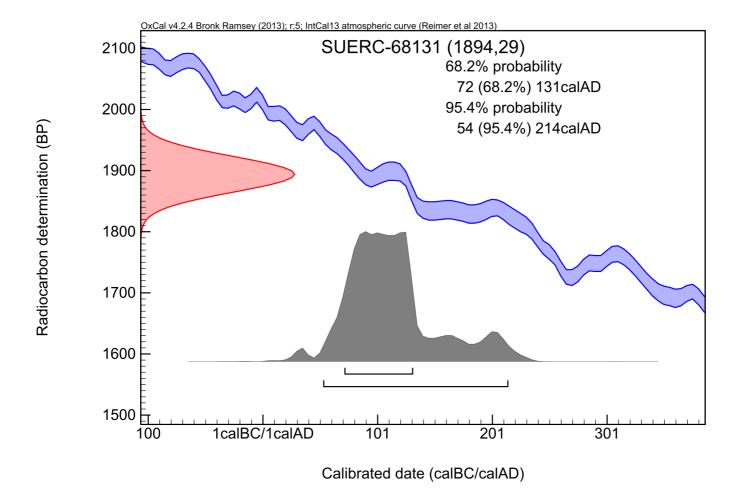
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

Samples with a SUERC coding are measured at the Scottish Universities Environmental Research Centre AMS Facility and should be quoted as such in any reports within the scientific literature. Any questions directed to the Radiocarbon Laboratory should also quote the GU coding given in parentheses after the SUERC code. The contact details for the laboratory are email Gordon.Cook@glasgow.ac.uk or telephone 01355 270136 direct line.

Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68132 (GU41263)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site ReferenceABNL 006AContext Reference6A-0101Sample Reference6A-0050

Material Charcoal: Corylus avellana

 δ ¹³C relative to VPDB -26.5 %

Radiocarbon Age BP 1725 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

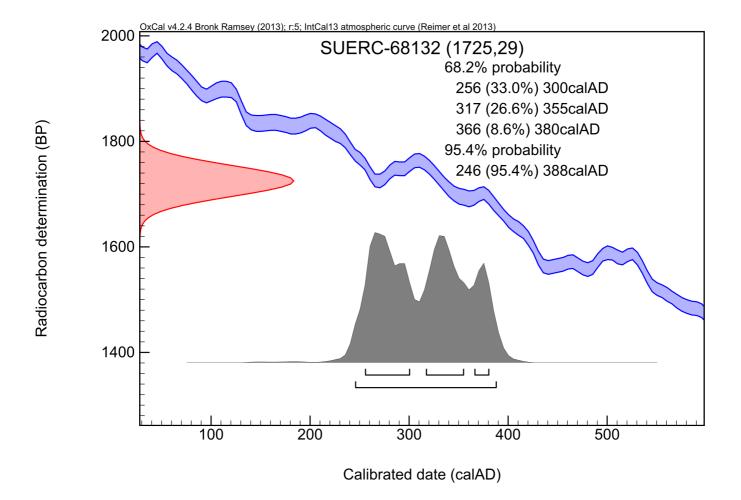
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

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Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68133 (GU41264)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABNL 006A Context Reference 6A-0042

Material Pottery residue

 δ ¹³C relative to VPDB -26.6 %

Radiocarbon Age BP 4619 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

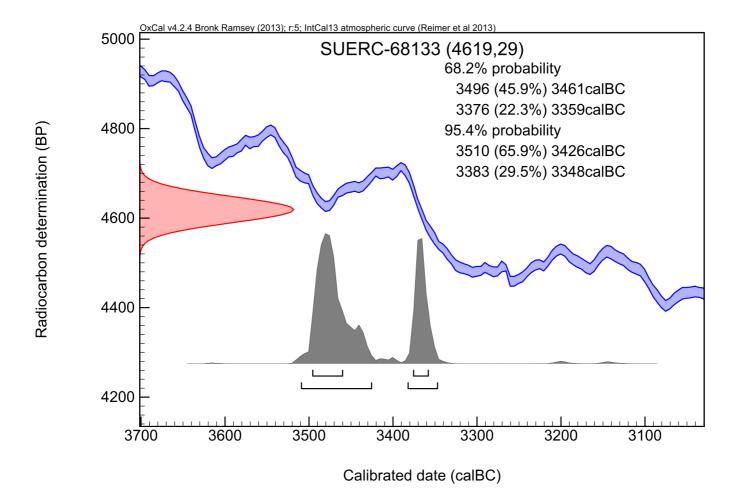
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

Samples with a SUERC coding are measured at the Scottish Universities Environmental Research Centre AMS Facility and should be quoted as such in any reports within the scientific literature. Any questions directed to the Radiocarbon Laboratory should also quote the GU coding given in parentheses after the SUERC code. The contact details for the laboratory are email Gordon.Cook@glasgow.ac.uk or telephone 01355 270136 direct line.

Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68134 (GU41265)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site ReferenceABSL 004DContext Reference4D-0050Sample Reference4D-0020

Material Charcoal: Corylus avellana

 δ ¹³C relative to VPDB -27.5 %

Radiocarbon Age BP 2857 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

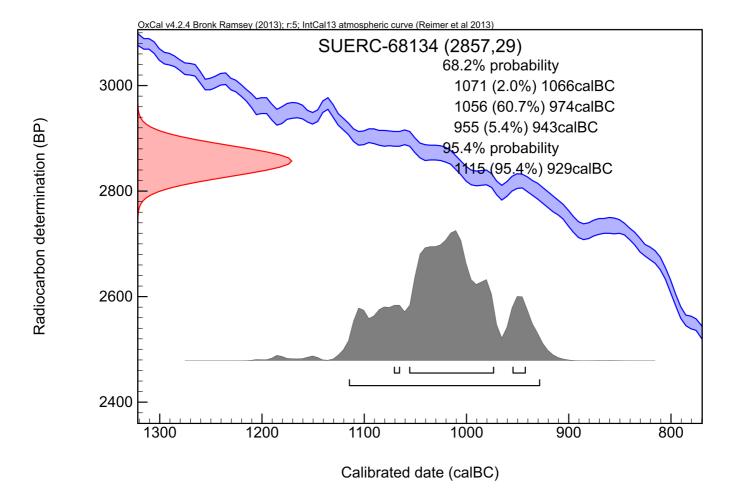
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

Samples with a SUERC coding are measured at the Scottish Universities Environmental Research Centre AMS Facility and should be quoted as such in any reports within the scientific literature. Any questions directed to the Radiocarbon Laboratory should also quote the GU coding given in parentheses after the SUERC code. The contact details for the laboratory are email Gordon.Cook@glasgow.ac.uk or telephone 01355 270136 direct line.

Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68135 (GU41266)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site ReferenceABSL 004DContext Reference4D-0103Sample Reference4D-0045

Material Charcoal: Corylus avellana

 δ ¹³C relative to VPDB -26.4 %

Radiocarbon Age BP 2792 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

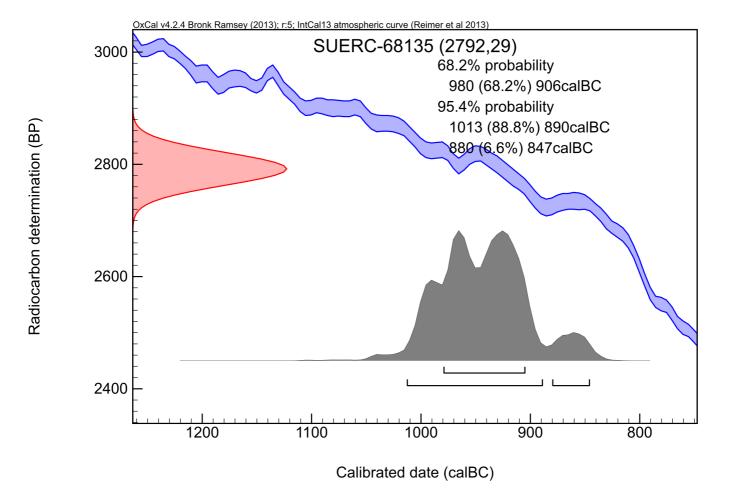
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

Samples with a SUERC coding are measured at the Scottish Universities Environmental Research Centre AMS Facility and should be quoted as such in any reports within the scientific literature. Any questions directed to the Radiocarbon Laboratory should also quote the GU coding given in parentheses after the SUERC code. The contact details for the laboratory are email Gordon.Cook@glasgow.ac.uk or telephone 01355 270136 direct line.

Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68136 (GU41267)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL 004D Context Reference 4D-0067 Sample Reference 4D-0027

Material Charcoal: Corylus avellana

 δ ¹³C relative to VPDB -26.1 %

Radiocarbon Age BP 2841 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

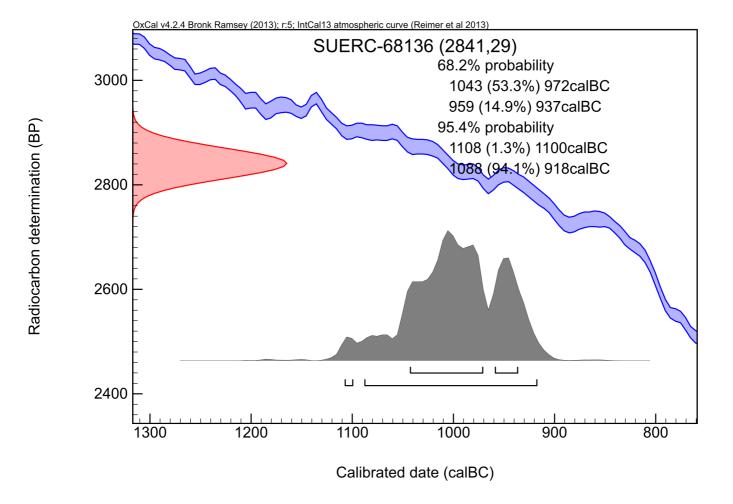
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

Samples with a SUERC coding are measured at the Scottish Universities Environmental Research Centre AMS Facility and should be quoted as such in any reports within the scientific literature. Any questions directed to the Radiocarbon Laboratory should also quote the GU coding given in parentheses after the SUERC code. The contact details for the laboratory are email Gordon.Cook@glasgow.ac.uk or telephone 01355 270136 direct line.

Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68140 (GU41268)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site ReferenceABSL 004DContext Reference4D-0018Sample Reference4D-0012

Material Charcoal: Betula sp.

 δ ¹³C relative to VPDB -24.6 %

Radiocarbon Age BP 2760 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

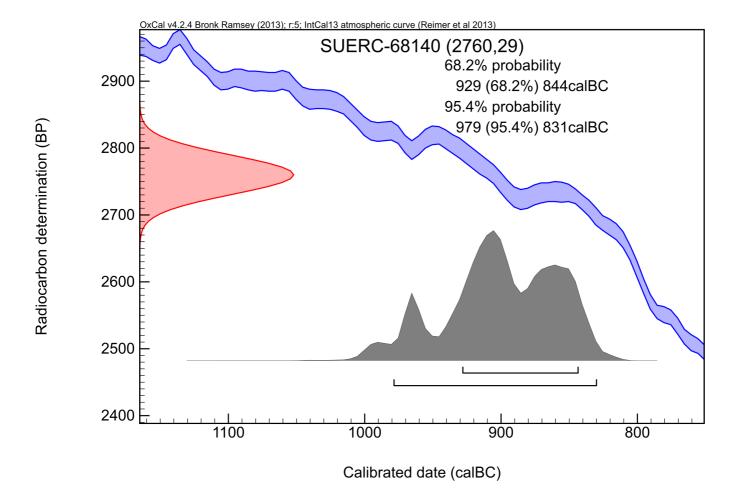
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

Samples with a SUERC coding are measured at the Scottish Universities Environmental Research Centre AMS Facility and should be quoted as such in any reports within the scientific literature. Any questions directed to the Radiocarbon Laboratory should also quote the GU coding given in parentheses after the SUERC code. The contact details for the laboratory are email Gordon.Cook@glasgow.ac.uk or telephone 01355 270136 direct line.

Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68141 (GU41269)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site ReferenceABSL 004DContext Reference4D-0538Sample Reference4D-0257

Material Charcoal: Betula sp.

 δ ¹³C relative to VPDB -27.0 %

Radiocarbon Age BP 2864 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

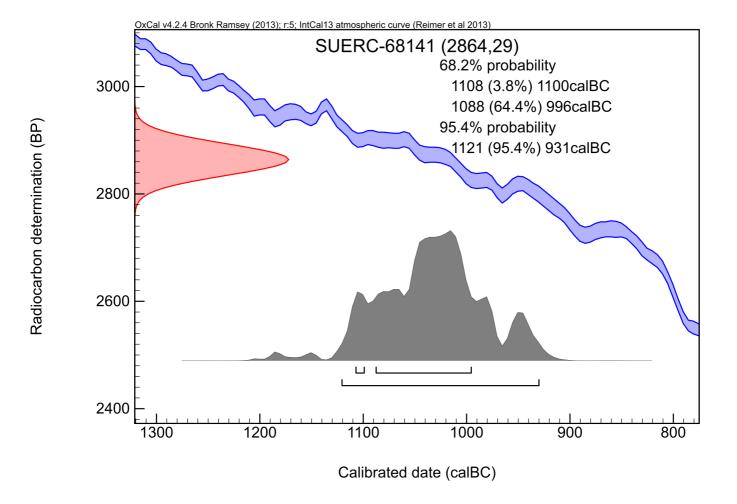
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

Samples with a SUERC coding are measured at the Scottish Universities Environmental Research Centre AMS Facility and should be quoted as such in any reports within the scientific literature. Any questions directed to the Radiocarbon Laboratory should also quote the GU coding given in parentheses after the SUERC code. The contact details for the laboratory are email Gordon.Cook@glasgow.ac.uk or telephone 01355 270136 direct line.

Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code SUERC-68142 (GU41270)

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site ReferenceABSL 004DContext Reference4D-0361Sample Reference4D-0131

Material Charcoal: Alnus glutinosa

 δ ¹³C relative to VPDB -27.7 %

Radiocarbon Age BP 2746 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

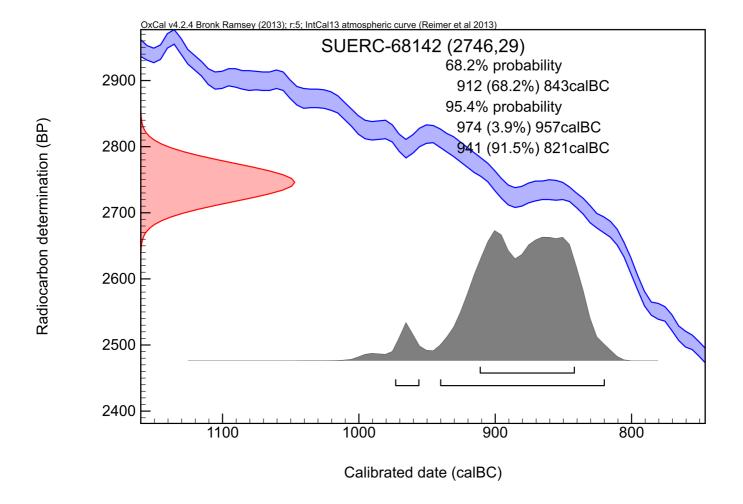
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

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Conventional age and calibration age ranges calculated by :- B Tay Date :- 15/07/2016











RADIOCARBON DATING CERTIFICATE

08 June 2017

Laboratory Code SUERC-73583 (GU44046)

Submitter Angela Walker

Headland Archaeology Ltd

13 Jane Street

Leith Edinburgh EH6 5HE

Site Reference ABYP
Context Reference 6239

Material pottery residue

 δ ¹³C relative to VPDB -26.4 %

Radiocarbon Age BP 3372 ± 31

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

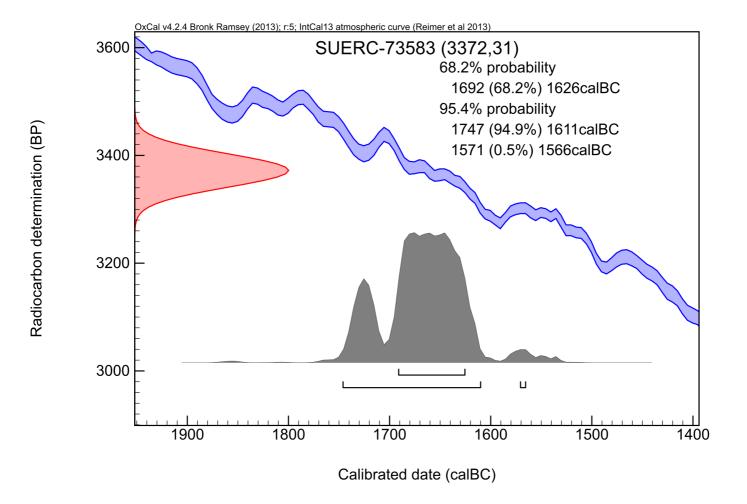
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Conventional age and calibration age ranges calculated by :- Dubbar Date :- 08/06/2017

Checked and signed off by:- Date: - 08/06/2017











RADIOCARBON DATING CERTIFICATE

08 June 2017

Laboratory Code SUERC-73584 (GU44048)

Submitter Angela Walker

Headland Archaeology Ltd

13 Jane Street

Leith Edinburgh EH6 5HE

Site ReferenceABYPContext Reference6181Sample Reference6560

Material cereal grain

 δ ¹³C relative to VPDB -25.0 % assumed

Radiocarbon Age BP 2995 ± 31

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

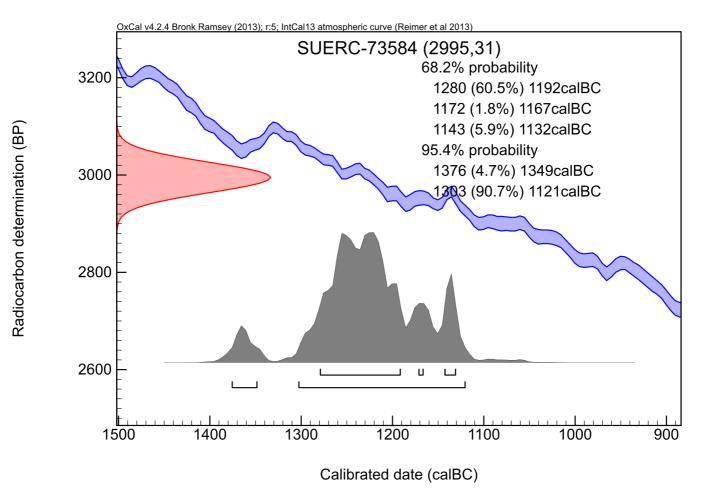
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

Samples with a SUERC coding are measured at the Scottish Universities Environmental Research Centre AMS Facility and should be quoted as such in any reports within the scientific literature. Any questions directed to the Radiocarbon Laboratory should also quote the GU coding given in parentheses after the SUERC code. The contact details for the laboratory are email Gordon.Cook@glasgow.ac.uk or telephone 01355 270136 direct line.

Conventional age and calibration age ranges calculated by :- Dubbar Date :- 08/06/2017











RADIOCARBON DATING CERTIFICATE

08 June 2017

Laboratory Code SUERC-73585 (GU44049)

Submitter Angela Walker

Headland Archaeology Ltd

13 Jane Street

Leith Edinburgh EH6 5HE

Site Reference ABYP
Context Reference 6025

Material pottery residue

 δ ¹³C relative to VPDB -27.4 %

Radiocarbon Age BP 2916 ± 31

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

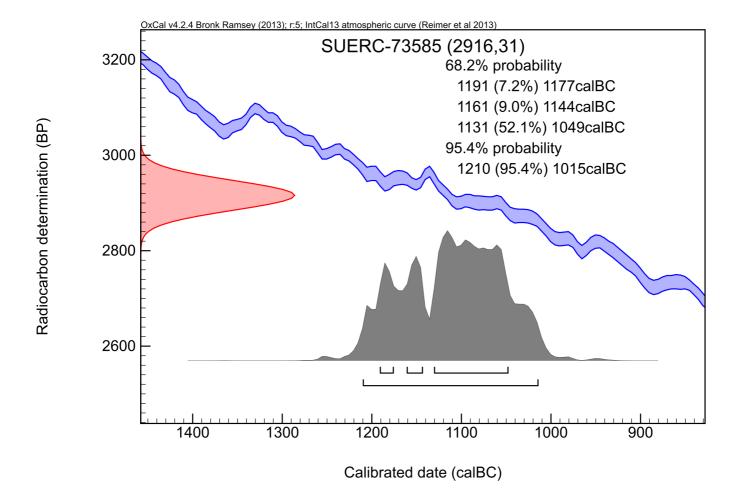
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

Samples with a SUERC coding are measured at the Scottish Universities Environmental Research Centre AMS Facility and should be quoted as such in any reports within the scientific literature. Any questions directed to the Radiocarbon Laboratory should also quote the GU coding given in parentheses after the SUERC code. The contact details for the laboratory are email Gordon.Cook@glasgow.ac.uk or telephone 01355 270136 direct line.

Conventional age and calibration age ranges calculated by :- Dubbar Date :- 08/06/2017











RADIOCARBON DATING CERTIFICATE

08 June 2017

Laboratory Code SUERC-73586 (GU44050)

Submitter Angela Walker

Headland Archaeology Ltd

13 Jane Street

Leith Edinburgh EH6 5HE

Site Reference ABYP Context Reference 6028

Material pottery residue

 δ ¹³C relative to VPDB -27.0 %

Radiocarbon Age BP 2946 ± 31

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

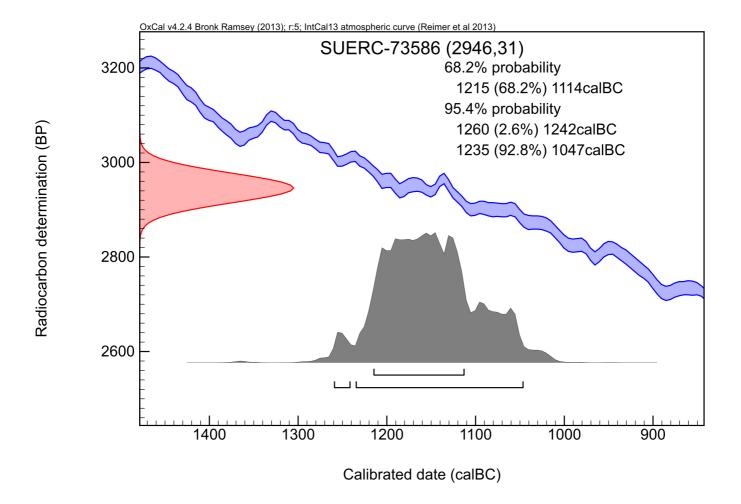
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

Samples with a SUERC coding are measured at the Scottish Universities Environmental Research Centre AMS Facility and should be quoted as such in any reports within the scientific literature. Any questions directed to the Radiocarbon Laboratory should also quote the GU coding given in parentheses after the SUERC code. The contact details for the laboratory are email Gordon.Cook@glasgow.ac.uk or telephone 01355 270136 direct line.

Conventional age and calibration age ranges calculated by :- Dubbar Date :- 08/06/2017











RADIOCARBON DATING CERTIFICATE

08 June 2017

Laboratory Code SUERC-73587 (GU44051)

Submitter Angela Walker

Headland Archaeology Ltd

13 Jane Street

Leith Edinburgh EH6 5HE

Site ReferenceABYPContext Reference6119Sample Reference6541

Material charcoal

 δ ¹³C relative to VPDB -25.1 %

Radiocarbon Age BP 2851 ± 31

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

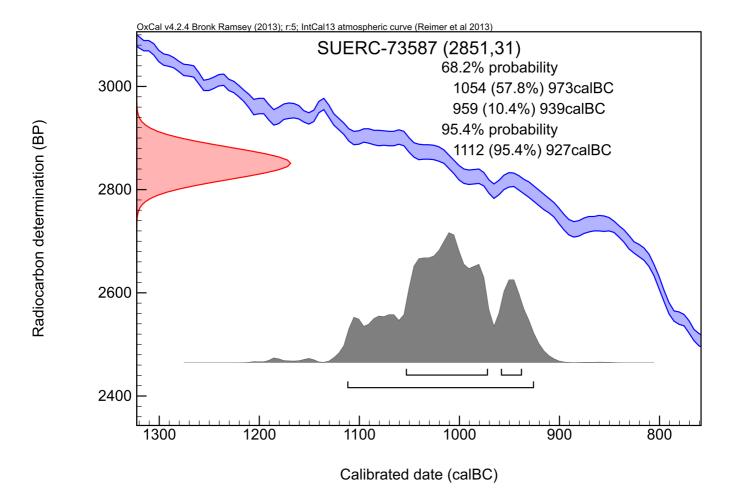
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

Samples with a SUERC coding are measured at the Scottish Universities Environmental Research Centre AMS Facility and should be quoted as such in any reports within the scientific literature. Any questions directed to the Radiocarbon Laboratory should also quote the GU coding given in parentheses after the SUERC code. The contact details for the laboratory are email Gordon.Cook@glasgow.ac.uk or telephone 01355 270136 direct line.

Conventional age and calibration age ranges calculated by :- Dubbar Date :- 08/06/2017











RADIOCARBON DATING CERTIFICATE

08 June 2017

Laboratory Code SUERC-73591 (GU44054)

Submitter Angela Walker

Headland Archaeology Ltd

13 Jane Street

Leith Edinburgh EH6 5HE

Site ReferenceABYPContext Reference6166Sample Reference6558

Material cereal grain

 δ ¹³C relative to VPDB -25.0 % assumed

Radiocarbon Age BP 3037 ± 31

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

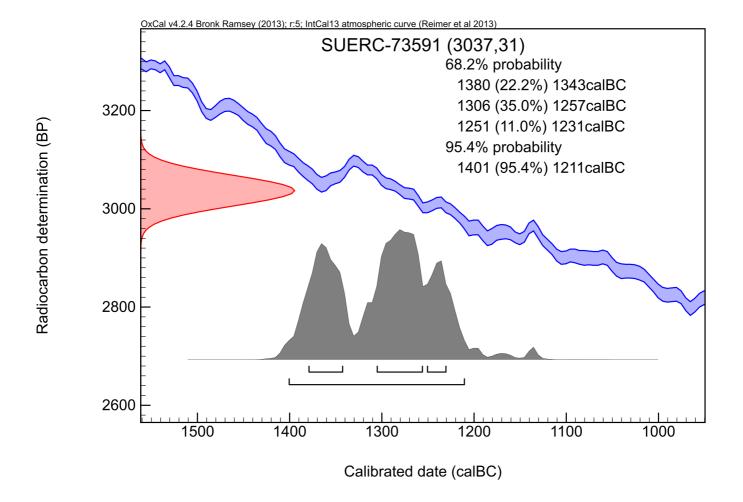
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

Samples with a SUERC coding are measured at the Scottish Universities Environmental Research Centre AMS Facility and should be quoted as such in any reports within the scientific literature. Any questions directed to the Radiocarbon Laboratory should also quote the GU coding given in parentheses after the SUERC code. The contact details for the laboratory are email Gordon.Cook@glasgow.ac.uk or telephone 01355 270136 direct line.

Conventional age and calibration age ranges calculated by :- Dubbar Date :- 08/06/2017











RADIOCARBON DATING CERTIFICATE

08 June 2017

Laboratory Code SUERC-73592 (GU44055)

Submitter Angela Walker

Headland Archaeology Ltd

13 Jane Street

Leith Edinburgh EH6 5HE

Site ReferenceABYPContext Reference2244Sample Reference2073

Material hazel nutshell

 δ ¹³C relative to VPDB -27.0 %

Radiocarbon Age BP 5280 ± 31

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

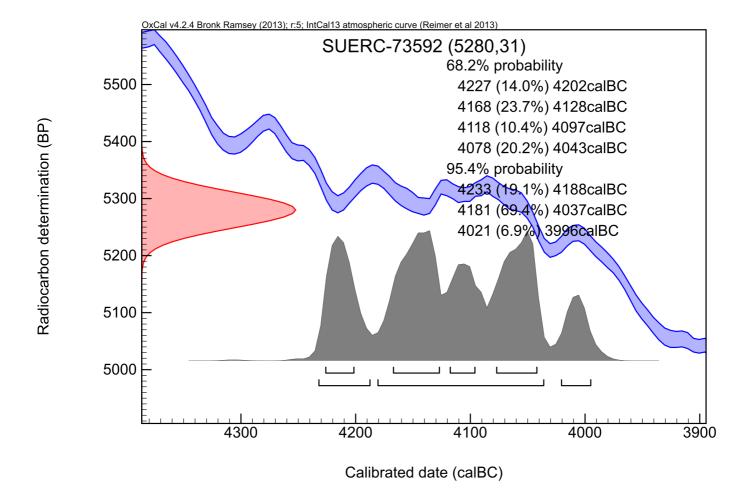
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

Samples with a SUERC coding are measured at the Scottish Universities Environmental Research Centre AMS Facility and should be quoted as such in any reports within the scientific literature. Any questions directed to the Radiocarbon Laboratory should also quote the GU coding given in parentheses after the SUERC code. The contact details for the laboratory are email Gordon.Cook@glasgow.ac.uk or telephone 01355 270136 direct line.

Conventional age and calibration age ranges calculated by :- Dubbar Date :- 08/06/2017











RADIOCARBON DATING CERTIFICATE

08 June 2017

Laboratory Code SUERC-73593 (GU44057)

Submitter Angela Walker

Headland Archaeology Ltd

13 Jane Street

Leith Edinburgh EH6 5HE

Site ReferenceABYPContext Reference2014Sample Reference2006

Material charcoal

 δ ¹³C relative to VPDB -25.3 %

Radiocarbon Age BP 3664 ± 31

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

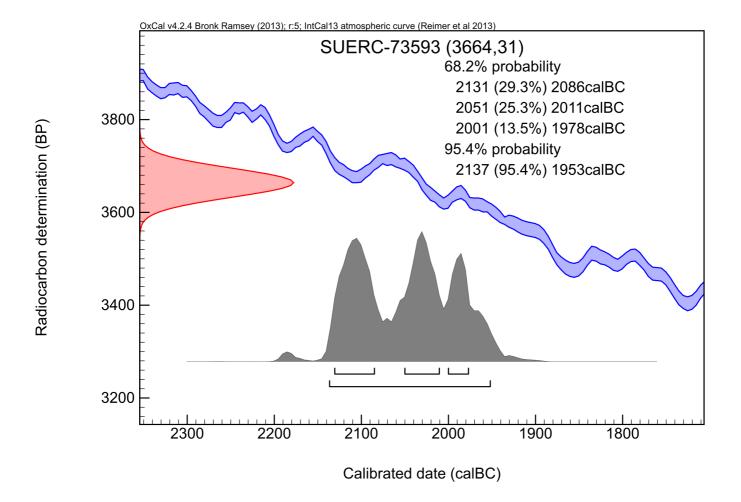
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

Samples with a SUERC coding are measured at the Scottish Universities Environmental Research Centre AMS Facility and should be quoted as such in any reports within the scientific literature. Any questions directed to the Radiocarbon Laboratory should also quote the GU coding given in parentheses after the SUERC code. The contact details for the laboratory are email Gordon.Cook@glasgow.ac.uk or telephone 01355 270136 direct line.

Conventional age and calibration age ranges calculated by :- Dubbar Date :- 08/06/2017











RADIOCARBON DATING CERTIFICATE

08 June 2017

Laboratory Code SUERC-73594 (GU44058)

Submitter Angela Walker

Headland Archaeology Ltd

13 Jane Street

Leith Edinburgh EH6 5HE

Site ReferenceABYPContext Reference2217Sample Reference2056

Material hazel nutshell

 δ ¹³C relative to VPDB -26.3 %

Radiocarbon Age BP 8176 ± 31

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD). The error, which is expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

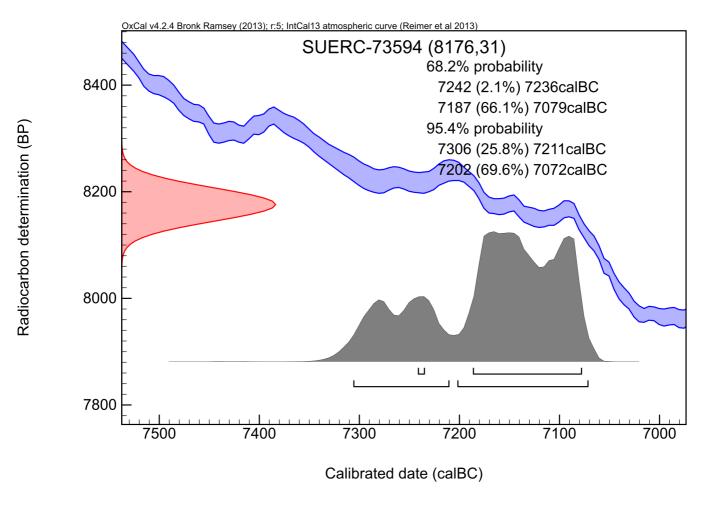
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

Samples with a SUERC coding are measured at the Scottish Universities Environmental Research Centre AMS Facility and should be quoted as such in any reports within the scientific literature. Any questions directed to the Radiocarbon Laboratory should also quote the GU coding given in parentheses after the SUERC code. The contact details for the laboratory are email Gordon.Cook@glasgow.ac.uk or telephone 01355 270136 direct line.

Conventional age and calibration age ranges calculated by :- Dubbar Date :- 08/06/2017











RADIOCARBON DATING CERTIFICATE 16 August 2017

Laboratory Code SUERC-74399 (GU44840)

Submitter Angela Walker

Headland Archaeology Ltd

13 Jane Street

Leith Edinburgh EH6 5HE

Site ReferenceABYPContext Reference9271Sample Reference6594

Material charred hazelnut shell fragment

 δ^{13} C relative to VPDB -24.5 %

Radiocarbon Age BP 4416 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD) and requires calibration to the calendar timescale. The error, expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

Samples with a SUERC coding are measured at the Scottish Universities Environmental Research Centre AMS Facility and should be quoted as such in any reports within the scientific literature. The laboratory GU coding should also be given in parentheses after the SUERC code.

Detailed descriptions of the methods employed by the SUERC Radiocarbon Laboratory can be found in Dunbar et al. (2016) *Radiocarbon 58(1) pp.9-23*.

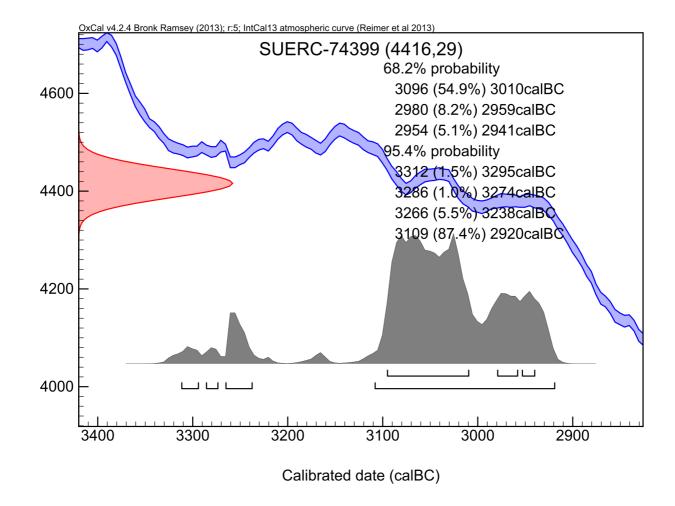
For any queries relating to this certificate, the laboratory can be contacted at suerc-c14lab@glasgow.ac.uk.

Conventional age and calibration age ranges calculated by:

Checked and signed off by: P. Nayont







The radiocarbon age given overleaf is calibrated to the calendar timescale using the Oxford Radiocarbon Accelerator Unit calibration program OxCal 4.*

The above date ranges have been calibrated using the IntCal13 atmospheric calibration curve!

Please contact the laboratory if you wish to discuss this further.





RADIOCARBON DATING CERTIFICATE 16 August 2017

Laboratory Code SUERC-74400 (GU44841)

Submitter Angela Walker

Headland Archaeology Ltd

13 Jane Street

Leith Edinburgh EH6 5HE

Site ReferenceABYPContext Reference6052Sample Reference6500

Material charred hazelnut shell fragment

 δ^{13} C relative to VPDB -25.6 %

Radiocarbon Age BP 4492 ± 27

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD) and requires calibration to the calendar timescale. The error, expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

Samples with a SUERC coding are measured at the Scottish Universities Environmental Research Centre AMS Facility and should be quoted as such in any reports within the scientific literature. The laboratory GU coding should also be given in parentheses after the SUERC code.

Detailed descriptions of the methods employed by the SUERC Radiocarbon Laboratory can be found in Dunbar et al. (2016) *Radiocarbon 58(1) pp.9-23*.

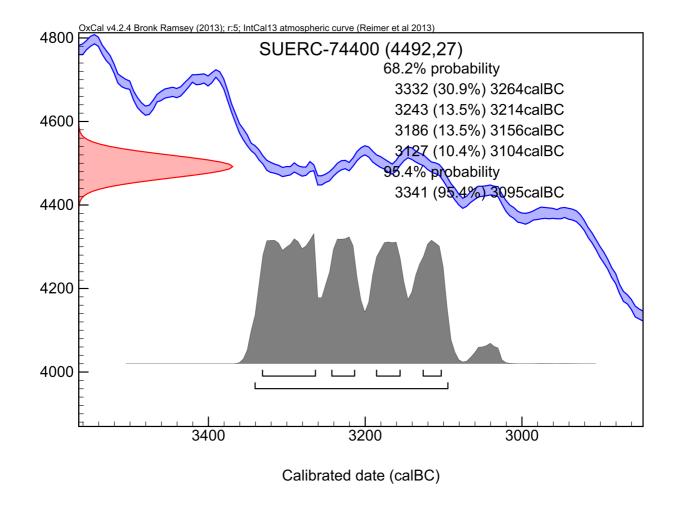
For any queries relating to this certificate, the laboratory can be contacted at suerc-c14lab@glasgow.ac.uk.

Conventional age and calibration age ranges calculated by:

Checked and signed off by: P. Nayont







The radiocarbon age given overleaf is calibrated to the calendar timescale using the Oxford Radiocarbon Accelerator Unit calibration program OxCal 4.*

The above date ranges have been calibrated using the IntCal13 atmospheric calibration curve!

Please contact the laboratory if you wish to discuss this further.





RADIOCARBON DATING CERTIFICATE 16 August 2017

Laboratory Code SUERC-74401 (GU44842)

Submitter Angela Walker

Headland Archaeology Ltd

13 Jane Street

Leith Edinburgh EH6 5HE

Site ReferenceABYPContext Reference6187Sample Reference6566

Material charred barley grain

 δ^{13} C relative to VPDB -23.1 %

Radiocarbon Age BP 3203 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD) and requires calibration to the calendar timescale. The error, expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

Samples with a SUERC coding are measured at the Scottish Universities Environmental Research Centre AMS Facility and should be quoted as such in any reports within the scientific literature. The laboratory GU coding should also be given in parentheses after the SUERC code.

Detailed descriptions of the methods employed by the SUERC Radiocarbon Laboratory can be found in Dunbar et al. (2016) *Radiocarbon 58(1) pp.9-23*.

For any queries relating to this certificate, the laboratory can be contacted at suerc-c14lab@glasgow.ac.uk.

Conventional age and calibration age ranges calculated by:

Checked and signed off by: P. Nayont





The radiocarbon age given overleaf is calibrated to the calendar timescale using the Oxford Radiocarbon Accelerator Unit calibration program OxCal 4.*

The above date ranges have been calibrated using the IntCal13 atmospheric calibration curve?

Please contact the laboratory if you wish to discuss this further.





RADIOCARBON DATING CERTIFICATE 16 August 2017

Laboratory Code SUERC-74402 (GU44843)

Submitter Angela Walker

Headland Archaeology Ltd

13 Jane Street

Leith Edinburgh EH6 5HE

Site ReferenceABYPContext Reference2090Sample Reference2021

Material charcoal fragment

 δ^{13} C relative to VPDB -27.2 %

Radiocarbon Age BP 2158 ± 29

N.B. The above ¹⁴C age is quoted in conventional years BP (before 1950 AD) and requires calibration to the calendar timescale. The error, expressed at the one sigma level of confidence, includes components from the counting statistics on the sample, modern reference standard and blank and the random machine error.

Samples with a SUERC coding are measured at the Scottish Universities Environmental Research Centre AMS Facility and should be quoted as such in any reports within the scientific literature. The laboratory GU coding should also be given in parentheses after the SUERC code.

Detailed descriptions of the methods employed by the SUERC Radiocarbon Laboratory can be found in Dunbar et al. (2016) *Radiocarbon 58(1) pp.9-23*.

For any queries relating to this certificate, the laboratory can be contacted at suerc-c14lab@glasgow.ac.uk.

Conventional age and calibration age ranges calculated by:

Checked and signed off by: P. Nayont





OxCal v4.2.4 Bronk Ramsey (2013); r:5; IntCal13 atmospheric curve (Reimer et al 2013)

The radiocarbon age given overleaf is calibrated to the calendar timescale using the Oxford Radiocarbon Accelerator Unit calibration program OxCal 4.*

Calibrated date (calBC/calAD)

The above date ranges have been calibrated using the IntCal13 atmospheric calibration curve!

Please contact the laboratory if you wish to discuss this further.



Director: Professor R M Ellam

Rankine Avenue, Scottish Enterprise Technology Park, East Kilbride, Glasgow G75 0QF, Scotland, UK

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RADIOCARBON DATING CERTIFICATE

20 February 2015

Laboratory Code GU36365

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL-002D

Context Reference 1898 **Sample Reference** 1267

Material Charcoal: Salix sp

Result Failed on AMS.

N.B. Any questions directed to the Radiocarbon Laboratory should quote the GU coding given above.

The contact details for the laboratory are email <u>g.cook@suerc.gla.ac.uk</u> or telephone 01355 270136 direct line.

Checked and signed off by :- P. Nayont





Date: - 20/02/2015



Director: Professor R M Ellam

Rankine Avenue, Scottish Enterprise Technology Park, East Kilbride, Glasgow G75 0QF, Scotland, UK

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RADIOCARBON DATING CERTIFICATE

16 March 2015

Laboratory Code GU36521

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL003B

Context Reference 4
Sample Reference 1007

Material Bone: Burnt bone

Result Failed: insufficient carbon.

N.B. Any questions directed to the Radiocarbon Laboratory should quote the GU coding given above.

The contact details for the laboratory are email <u>g.cook@suerc.gla.ac.uk</u> or telephone 01355 270136 direct line.

Checked and signed off by :- P. Nayont







Director: Professor R M Ellam

Rankine Avenue, Scottish Enterprise Technology Park, East Kilbride, Glasgow G75 0QF, Scotland, UK

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RADIOCARBON DATING CERTIFICATE

16 March 2015

Laboratory Code GU36524

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL003B

Context Reference 205 Sample Reference 1086

Material Bone: Burnt bone

Result Failed: insufficient carbon.

N.B. Any questions directed to the Radiocarbon Laboratory should quote the GU coding given above.

The contact details for the laboratory are email <u>g.cook@suerc.gla.ac.uk</u> or telephone 01355 270136 direct line.

Checked and signed off by:- P. Nayonto







Director: Professor R M Ellam

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RADIOCARBON DATING CERTIFICATE

16 March 2015

Laboratory Code GU36526

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL003B

Context Reference 303 **Sample Reference** 1130

Material Bone: Burnt bone

Result Failed: insufficient carbon.

N.B. Any questions directed to the Radiocarbon Laboratory should quote the GU coding given above.

The contact details for the laboratory are email <u>g.cook@suerc.gla.ac.uk</u> or telephone 01355 270136 direct line.

Checked and signed off by :- P. Nayont







Director: Professor R M Ellam

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RADIOCARBON DATING CERTIFICATE

16 March 2015

Laboratory Code GU36528

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL002C

Context Reference 12 Sample Reference 7

Material Burnt bone

Result Failed: insufficient carbon.

N.B. Any questions directed to the Radiocarbon Laboratory should quote the GU coding given above.

The contact details for the laboratory are email <u>g.cook@suerc.gla.ac.uk</u> or telephone 01355 270136 direct line.

Checked and signed off by :- P. Nayont







Director: Professor R M Ellam

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RADIOCARBON DATING CERTIFICATE

16 March 2015

Laboratory Code GU36531

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL004B

Context Reference 39 Sample Reference 1019

Material Burnt bone

Result Failed: insufficient carbon.

N.B. Any questions directed to the Radiocarbon Laboratory should quote the GU coding given above.

The contact details for the laboratory are email <u>g.cook@suerc.gla.ac.uk</u> or telephone 01355 270136 direct line.

Checked and signed off by :- P. Nayont







Scottish Universities Environmental Research Centre

Director: Professor R M Ellam

Rankine Avenue, Scottish Enterprise Technology Park, East Kilbride, Glasgow G75 0QF, Scotland, UK

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RADIOCARBON DATING CERTIFICATE

16 March 2015

Laboratory Code GU36810

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL002C

Context Reference 12 Sample Reference 7

Material Burnt bone

Result Failed: insufficient carbon.

N.B. Any questions directed to the Radiocarbon Laboratory should quote the GU coding given above.

The contact details for the laboratory are email <u>g.cook@suerc.gla.ac.uk</u> or telephone 01355 270136 direct line.

Checked and signed off by :- P. Nayont





Date :- 16/03/2015



Scottish Universities Environmental Research Centre

Director: Professor R M Ellam

Rankine Avenue, Scottish Enterprise Technology Park, East Kilbride, Glasgow G75 0QF, Scotland, UK

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RADIOCARBON DATING CERTIFICATE

16 March 2015

Laboratory Code GU36811

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABSL003B

Context Reference 4
Sample Reference 1007

Material Bone: Burnt bone

Result Failed: insufficient carbon.

N.B. Any questions directed to the Radiocarbon Laboratory should quote the GU coding given above.

The contact details for the laboratory are email <u>g.cook@suerc.gla.ac.uk</u> or telephone 01355 270136 direct line.

Checked and signed off by :- P. Nayont





Date: - 16/03/2015





RADIOCARBON DATING CERTIFICATE

08 June 2017

Laboratory Code GU44047

Submitter Angela Walker

Headland Archaeology Ltd

13 Jane Street

Leith Edinburgh EH6 5HE

Site ReferenceABYPContext Reference6270

Material pottery residue

Result Failed: insufficient carbon.

N.B. Any questions directed to the Radiocarbon Laboratory should quote the GU coding given above.

The contact details for the laboratory are email <u>Gordon.Cook@glasgow.ac.uk</u> or telephone 01355 270136 direct line.









RADIOCARBON DATING CERTIFICATE

08 June 2017

Laboratory Code GU44052

Submitter Angela Walker

Headland Archaeology Ltd

13 Jane Street

Leith Edinburgh EH6 5HE

Site ReferenceABYPContext Reference6052

Material pottery residue

Result Failed: insufficient carbon.

N.B. Any questions directed to the Radiocarbon Laboratory should quote the GU coding given above.

The contact details for the laboratory are email <u>Gordon.Cook@glasgow.ac.uk</u> or telephone 01355 270136 direct line.









RADIOCARBON DATING CERTIFICATE

08 June 2017

Laboratory Code GU44053

Submitter Angela Walker

Headland Archaeology Ltd

13 Jane Street

Leith Edinburgh EH6 5HE

Site ReferenceABYPContext Reference6187

Material pottery residue

Result Failed: insufficient carbon.

N.B. Any questions directed to the Radiocarbon Laboratory should quote the GU coding given above.

The contact details for the laboratory are email Gordon.Cook@glasgow.ac.uk or telephone 01355 270136 direct line.









RADIOCARBON DATING CERTIFICATE

08 June 2017

Laboratory Code GU44056

Submitter Angela Walker

Headland Archaeology Ltd

13 Jane Street

Leith Edinburgh EH6 5HE

Site ReferenceABYPContext Reference2090

Material pottery residue

Result Failed: insufficient carbon.

N.B. Any questions directed to the Radiocarbon Laboratory should quote the GU coding given above.

The contact details for the laboratory are email <u>Gordon.Cook@glasgow.ac.uk</u> or telephone 01355 270136 direct line.









RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code GU41235

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site ReferenceABSL 002CContext Reference2C-0076Sample Reference2C-1047

Material Burnt bone

Result Failed: insufficient carbon.

N.B. Any questions directed to the Radiocarbon Laboratory should quote the GU coding given above.

The contact details for the laboratory are email Gordon.Cook@glasgow.ac.uk or telephone 01355 270136 direct line.

Checked and signed off by:- C. Dunbar





Date :- 15/07/2016





RADIOCARBON DATING CERTIFICATE

15 July 2016

Laboratory Code GU41257

Submitter Laura Bailey

Headland Archaeology

13 Jane Street Edinburgh EH6 5HE

Site Reference ABNL13- NL012

Context Reference 12-0003

Material Pottery residue

Result Failed: insufficient carbon.

N.B. Any questions directed to the Radiocarbon Laboratory should quote the GU coding given above.

The contact details for the laboratory are email <u>Gordon.Cook@glasgow.ac.uk</u> or telephone 01355 270136 direct line.

Checked and signed off by :- @ Dunbar





Date :- 15/07/2016