Scottish Universities Environmental Research Centre

Director: Professor R M Ellam

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RADIOCARBON DATING CERTIFICATE

03 April 2014

Laboratory Code	SUERC-51280 (GU33072)
Submitter	Olaf Bayer Department for Continuing Education University of Oxford Rewley House, 1 Wellington Square Oxford, OX1 2JA
Site Reference	DR13
Context Reference	2035
Sample Reference	8
Material	carbonised hazel nut shell : hazel (Corylus avellana)
$\delta^{13}C$ relative to VPDB	-24.7 ‰
Radiocarbon Age BP	4325 ± 35

N.B. The above ^{14}C 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.

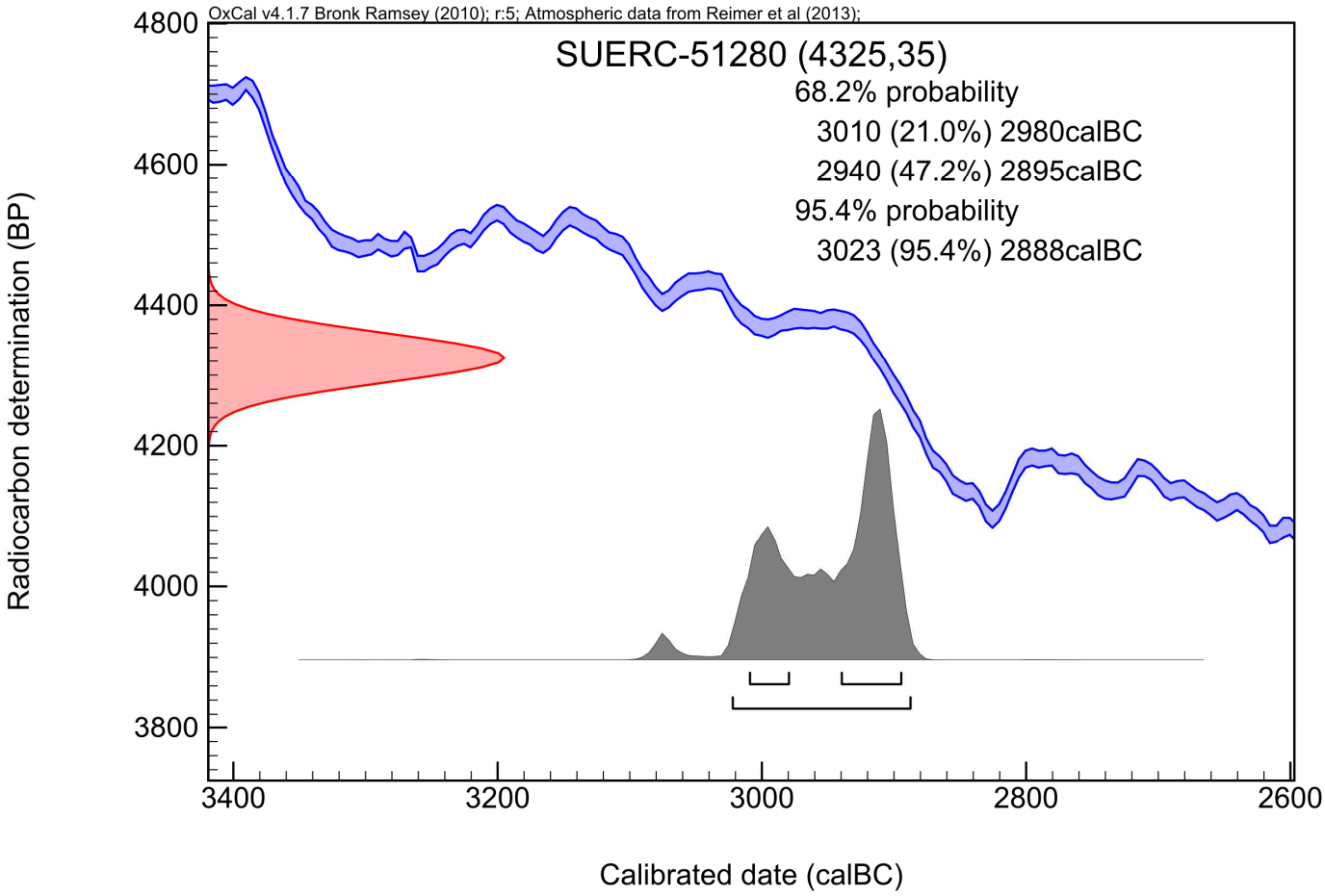
The calibrated age ranges are determined from the University of Oxford Radiocarbon Accelerator Unit calibration program (OxCal4).

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 g.cook@suerc.gla.ac.uk or telephone 01355 270136 direct line.

Conventional age and calibration age ranges calculated by :- E. Dunbar Date :- 03/04/2014

Checked and signed off by :- N. Rudd Date :- 03/04/2014

Calibration Plot



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RADIOCARBON DATING CERTIFICATE

03 April 2014

Laboratory Code	SUERC-51281 (GU33073)
Submitter	Olaf Bayer Department for Continuing Education University of Oxford Rewley House, 1 Wellington Square Oxford, OX1 2JA
Site Reference	DR13
Context Reference	2035
Sample Reference	7
Material	carbonised hazel nut shell : hazel (Corylus avellana)
$\delta^{13}C$ relative to VPDB	-26.4 ‰
Radiocarbon Age BP	4338 ± 35

N.B. The above ^{14}C 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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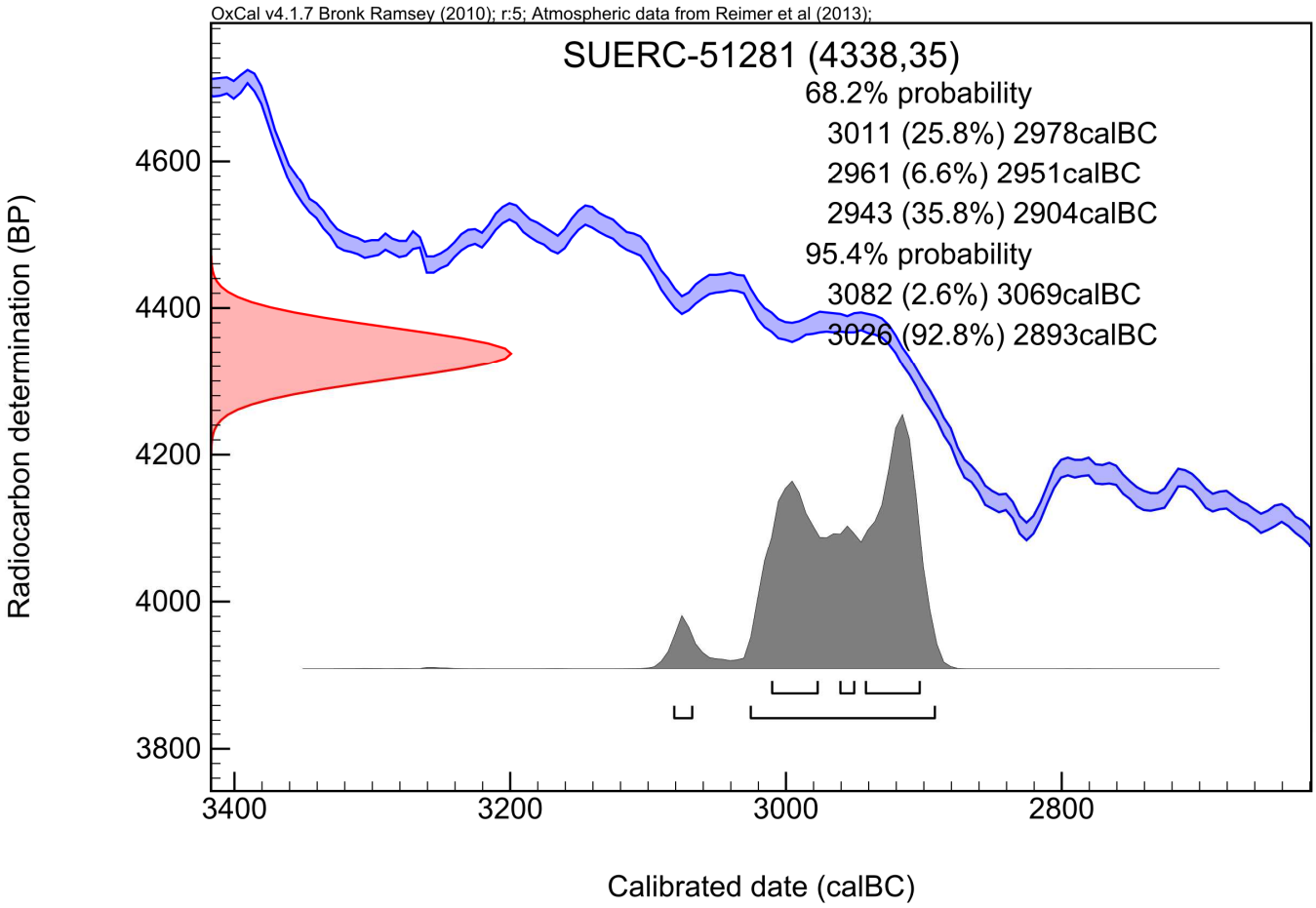
Calibration Plot



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RADIOCARBON DATING CERTIFICATE

03 April 2014

Laboratory Code	SUERC-51282 (GU33074)
Submitter	Olaf Bayer Department for Continuing Education University of Oxford Rewley House, 1 Wellington Square Oxford, OX1 2JA
Site Reference	DR13
Context Reference	2032
Sample Reference	5
Material	carbonised barley grain : barley (Hordeum vulgare sl.)
$\delta^{13}C$ relative to VPDB	-23.6 ‰
Radiocarbon Age BP	1926 ± 35

N.B. The above ^{14}C 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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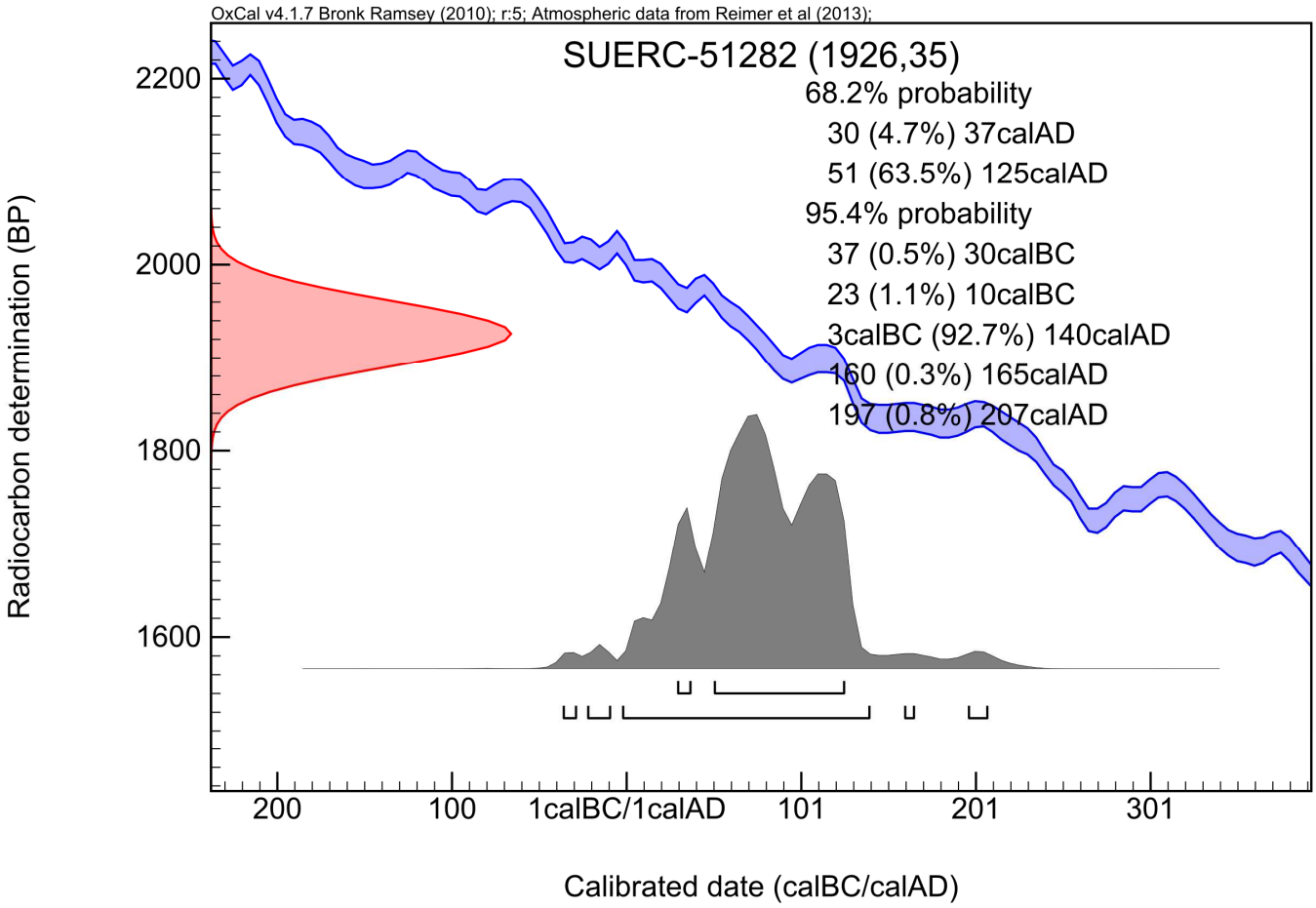
Conventional age and calibration age ranges calculated by :- E. Dunbar Date :- 03/04/2014

Checked and signed off by :- N. Rudd Date :- 03/04/2014

Calibration Plot



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RADIOCARBON DATING CERTIFICATE

03 April 2014

Laboratory Code	SUERC-51283 (GU33075)
Submitter	Olaf Bayer Department for Continuing Education University of Oxford Rewley House, 1 Wellington Square Oxford, OX1 2JA
Site Reference	DR13
Context Reference	2025
Sample Reference	1
Material	hazel charcoal : hazel (Corylus)
$\delta^{13}C$ relative to VPDB	-25.4 ‰
Radiocarbon Age BP	4459 ± 35

N.B. The above ^{14}C 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 g.cook@suerc.gla.ac.uk or telephone 01355 270136 direct line.

Conventional age and calibration age ranges calculated by :- E. Dunbar Date :- 03/04/2014

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Calibration Plot