

Appendix C  
Radiocarbon Laboratory Reports



## REPORT OF RADIOCARBON DATING ANALYSES

Mr. Curtis M. Hudak

Report Date: 5/27/2009

Foth Infrastructure & Environment, LLC

Material Received: 4/24/2009

Sample Data	Measured Radiocarbon Age	<sup>13</sup> C/ <sup>12</sup> C Ratio	Conventional Radiocarbon Age(*)
Beta - 258834 SAMPLE : 09AN-01 (393-410) ANALYSIS : AMS-Standard delivery MATERIAL/PRETREATMENT : (peat): acid/alkali/acid Comment: Result is outside of calibration range	30 +/- 40 BP	-26.8 o/oo	0 +/- 40 BP
Beta - 258835 SAMPLE : 09AN-03 (366-371) ANALYSIS : AMS-Standard delivery MATERIAL/PRETREATMENT : (organic sediment): acid washes 2 SIGMA CALIBRATION : Cal BC 8530 to 8520 (Cal BP 10480 to 10460) AND Cal BC 8480 to 8290 (Cal BP 10430 to 10240)	9150 +/- 40 BP	-23.6 o/oo	9170 +/- 40 BP
Beta - 258836 SAMPLE : 09AN-03 (525-567) ANALYSIS : AMS-Standard delivery MATERIAL/PRETREATMENT : (charred material): acid/alkali/acid COMMENT: The <sup>14</sup> C activity was extremely low and almost identical to the background signal. In such cases, indeterminant errors associated with the background add non-measurable uncertainty to the result. Always, the result should be considered along with other lines of evidence. The most conservative interpretation of age is infinite (i.e. greater than). COMMENT: A Measured Radiocarbon Age is not reported for infinite dates since corrections may imply a greater level of confidence than is appropriate.	NA	-22.4 o/oo	> 45000 BP
Beta - 258837 SAMPLE : 09AN-06 (490-530) ANALYSIS : AMS-Standard delivery MATERIAL/PRETREATMENT : (charred material): acid/alkali/acid	32320 +/- 340 BP	-22.8 o/oo	32360 +/- 340 BP
Beta - 258838 SAMPLE : 09AN-11 (261-278) ANALYSIS : AMS-Standard delivery MATERIAL/PRETREATMENT : (peat): acid/alkali/acid 2 SIGMA CALIBRATION : Cal BC 2570 to 2290 (Cal BP 4520 to 4240)	3970 +/- 50 BP	-26.9 o/oo	3940 +/- 50 BP

Dates are reported as RCYBP (radiocarbon years before present, "present" = AD 1950). By international convention, the modern reference standard was 95% the <sup>14</sup>C activity of the National Institute of Standards and Technology (NIST) Oxalic Acid (SRM 4990C) and calculated using the Libby <sup>14</sup>C half-life (5568 years). Quoted errors represent 1 relative standard deviation statistics (68% probability) counting errors based on the combined measurements of the sample, background, and modern reference standards. Measured <sup>13</sup>C/<sup>12</sup>C ratios (delta <sup>13</sup>C) were calculated relative to the PDB-1 standard.

The Conventional Radiocarbon Age represents the Measured Radiocarbon Age corrected for isotopic fractionation, calculated using the delta <sup>13</sup>C. On rare occasion where the Conventional Radiocarbon Age was calculated using an assumed delta <sup>13</sup>C, the ratio and the Conventional Radiocarbon Age will be followed by "\*". The Conventional Radiocarbon Age is not calendar calibrated. When available, the Calendar Calibrated result is calculated from the Conventional Radiocarbon Age and is listed as the "Two Sigma Calibrated Result" for each sample.



# REPORT OF RADIOCARBON DATING ANALYSES

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Sample Data	Measured Radiocarbon Age	<sup>13</sup> C/ <sup>12</sup> C Ratio	Conventional Radiocarbon Age(*)
Beta - 258839 SAMPLE : 09IA-04 (646-648) ANALYSIS : AMS-Standard delivery MATERIAL/PRETREATMENT : (wood): acid/alkali/acid COMMENT: The <sup>14</sup> C activity was extremely low and almost identical to the background signal. In such cases, indeterminate errors associated with the background add non-measurable uncertainty to the result. Always, the result should be considered along with other lines of evidence. The most conservative interpretation of age is infinite (i.e. greater than). COMMENT: A Measured Radiocarbon Age is not reported for infinite dates since corrections may imply a greater level of confidence than is appropriate.	NA	-24.4 o/oo	> 45000 BP
Beta - 258840 SAMPLE : 09IA-05 (439-451) ANALYSIS : AMS-Standard delivery MATERIAL/PRETREATMENT : (peat): acid/alkali/acid 2 SIGMA CALIBRATION : Cal BC 11110 to 10890 (Cal BP 13060 to 12840)	11000 +/- 60 BP	-26.1 o/oo	10980 +/- 60 BP
Beta - 258841 SAMPLE : 09IA-05 (541-554) ANALYSIS : AMS-Standard delivery MATERIAL/PRETREATMENT : (organic sediment): acid washes 2 SIGMA CALIBRATION : Cal BC 9660 to 9570 (Cal BP 11610 to 11520) AND Cal BC 9550 to 9300 (Cal BP 11500 to 11250)	10010 +/- 40 BP	-27.9 o/oo	9960 +/- 40 BP
Beta - 258842 SAMPLE : 09IA-06 (294-299) ANALYSIS : AMS-Standard delivery MATERIAL/PRETREATMENT : (peat): acid/alkali/acid 2 SIGMA CALIBRATION : Cal BC 4910 to 4720 (Cal BP 6860 to 6660)	5890 +/- 40 BP	-22.7 o/oo	5930 +/- 40 BP

Dates are reported as RCYBP (radiocarbon years before present, "present" = AD 1950). By international convention, the modern reference standard was 95% the <sup>14</sup>C activity of the National Institute of Standards and Technology (NIST) Oxalic Acid (SRM 4990C) and calculated using the Libby <sup>14</sup>C half-life (5568 years). Quoted errors represent 1 relative standard deviation statistics (68% probability) counting errors based on the combined measurements of the sample, background, and modern reference standards. Measured <sup>13</sup>C/<sup>12</sup>C ratios (delta <sup>13</sup>C) were calculated relative to the PDB-1 standard.

The Conventional Radiocarbon Age represents the Measured Radiocarbon Age corrected for isotopic fractionation, calculated using the delta <sup>13</sup>C. On rare occasion where the Conventional Radiocarbon Age was calculated using an assumed delta <sup>13</sup>C, the ratio and the Conventional Radiocarbon Age will be followed by "\*". The Conventional Radiocarbon Age is not calendar calibrated. When available, the Calendar Calibrated result is calculated from the Conventional Radiocarbon Age and is listed as the "Two Sigma Calibrated Result" for each sample.

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Sample Data	Measured Radiocarbon Age	<sup>13</sup> C/ <sup>12</sup> C Ratio	Conventional Radiocarbon Age(*)
Beta - 258843 SAMPLE : 09IA-06 (650-678) ANALYSIS : AMS-Standard delivery MATERIAL/PRETREATMENT : (plant material): acid/alkali/acid 2 SIGMA CALIBRATION : Cal BC 9320 to 9250 (Cal BP 11270 to 11200)	9960 +/- 40 BP	-32.4 o/oo	9840 +/- 40 BP
Beta - 258844 SAMPLE : 09BN-01 (286-290) ANALYSIS : AMS-Standard delivery MATERIAL/PRETREATMENT : (peat): acid/alkali/acid 2 SIGMA CALIBRATION : Cal BC 6330 to 6320 (Cal BP 8280 to 8270) AND Cal BC 6250 to 6080 (Cal BP 8200 to 8030)	7380 +/- 40 BP	-27.4 o/oo	7340 +/- 40 BP
Beta - 258845 SAMPLE : 09ML-01 (189-191) ANALYSIS : AMS-Standard delivery MATERIAL/PRETREATMENT : (organic sediment): acid washes 2 SIGMA CALIBRATION : Cal BC 1440 to 1280 (Cal BP 3390 to 3230)	3120 +/- 40 BP	-26.4 o/oo	3100 +/- 40 BP
Beta - 258846 SAMPLE : 09RA-01 (610-649) ANALYSIS : AMS-Standard delivery MATERIAL/PRETREATMENT : (charred material): acid/alkali/acid COMMENT: The <sup>14</sup> C activity was extremely low and almost identical to the background signal. In such cases, indeterminant errors associated with the background add non-measurable uncertainty to the result. Always, the result should be considered along with other lines of evidence. The most conservative interpretation of age is infinite (i.e. greater than). COMMENT: A Measured Radiocarbon Age is not reported for infinite dates since corrections may imply a greater level of confidence than is appropriate.	NA	-23.4 o/oo	> 45000 BP

Dates are reported as RCYBP (radiocarbon years before present, "present" = AD 1950). By international convention, the modern reference standard was 95% the <sup>14</sup>C activity of the National Institute of Standards and Technology (NIST) Oxalic Acid (SRM 4990C) and calculated using the Libby <sup>14</sup>C half-life (5568 years). Quoted errors represent 1 relative standard deviation statistics (68% probability) counting errors based on the combined measurements of the sample, background, and modern reference standards. Measured <sup>13</sup>C/<sup>12</sup>C ratios (delta <sup>13</sup>C) were calculated relative to the PDB-1 standard.

The Conventional Radiocarbon Age represents the Measured Radiocarbon Age corrected for isotopic fractionation, calculated using the delta <sup>13</sup>C. On rare occasion where the Conventional Radiocarbon Age was calculated using an assumed delta <sup>13</sup>C, the ratio and the Conventional Radiocarbon Age will be followed by "\*\*". The Conventional Radiocarbon Age is not calendar calibrated. When available, the Calendar Calibrated result is calculated from the Conventional Radiocarbon Age and is listed as the "Two Sigma Calibrated Result" for each sample.

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Sample Data	Measured Radiocarbon Age	$^{13}\text{C}/^{12}\text{C}$ Ratio	Conventional Radiocarbon Age(*)
Beta - 258847 SAMPLE : 09SH-03 (366-390) ANALYSIS : AMS-Standard delivery MATERIAL/PRETREATMENT : (peat): acid/alkali/acid 2 SIGMA CALIBRATION : Cal BC 10280 to 10260 (Cal BP 12230 to 12220) AND Cal BC 10220 to 10000 (Cal BP 12170 to 11950) Cal BC 9990 to 9890 (Cal BP 11940 to 11840)	10320 +/- 40 BP	-28.1 o/oo	10270 +/- 40 BP
Beta - 258848 SAMPLE : 09SH-05 (396) ANALYSIS : AMS-Standard delivery MATERIAL/PRETREATMENT : (organic sediment): acid washes	26580 +/- 180 BP	-25.7 o/oo	26570 +/- 180 BP
Beta - 258849 SAMPLE : 09SH-07 (320-330) ANALYSIS : AMS-Standard delivery MATERIAL/PRETREATMENT : (peat): acid/alkali/acid 2 SIGMA CALIBRATION : Cal BC 5970 to 5950 (Cal BP 7920 to 7900) AND Cal BC 5910 to 5670 (Cal BP 7860 to 7620)	6930 +/- 60 BP	-26.0 o/oo	6910 +/- 60 BP

Dates are reported as RCYBP (radiocarbon years before present, "present" = AD 1950). By international convention, the modern reference standard was 95% the  $^{14}\text{C}$  activity of the National Institute of Standards and Technology (NIST) Oxalic Acid (SRM 4990C) and calculated using the Libby  $^{14}\text{C}$  half-life (5568 years). Quoted errors represent 1 relative standard deviation statistics (68% probability) counting errors based on the combined measurements of the sample, background, and modern reference standards. Measured  $^{13}\text{C}/^{12}\text{C}$  ratios (delta  $^{13}\text{C}$ ) were calculated relative to the PDB-1 standard.

The Conventional Radiocarbon Age represents the Measured Radiocarbon Age corrected for isotopic fractionation, calculated using the delta  $^{13}\text{C}$ . On rare occasion where the Conventional Radiocarbon Age was calculated using an assumed delta  $^{13}\text{C}$ , the ratio and the Conventional Radiocarbon Age will be followed by "\*\*". The Conventional Radiocarbon Age is not calendar calibrated. When available, the Calendar Calibrated result is calculated from the Conventional Radiocarbon Age and is listed as the "Two Sigma Calibrated Result" for each sample.

# CALIBRATION OF RADIOCARBON AGE TO CALENDAR YEARS

(Variables: C13/C12=-23.6:lab. mult=1)

Laboratory number: Beta-258835

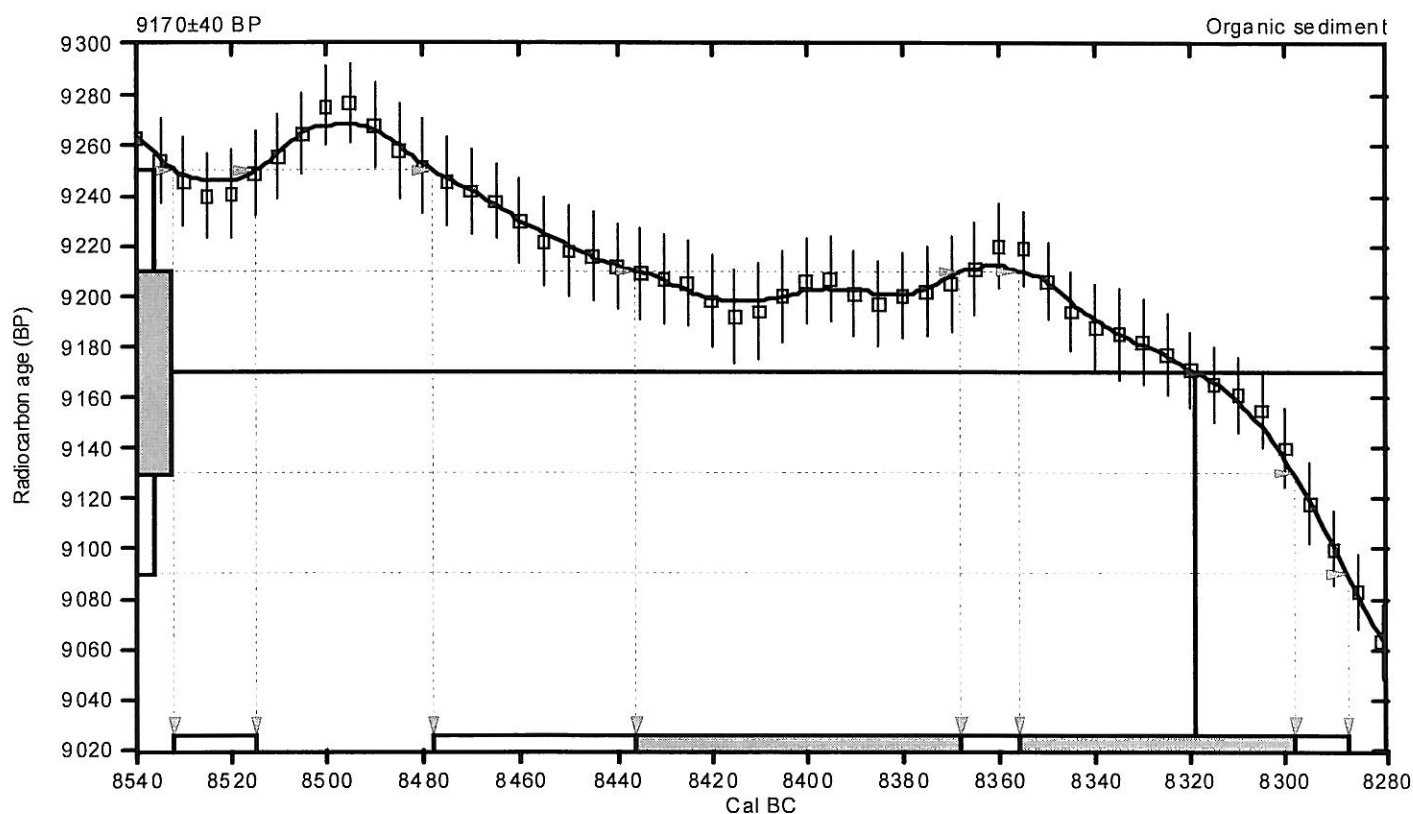
Conventional radiocarbon age: 9170±40 BP

2 Sigma calibrated results: Cal BC 8530 to 8520 (Cal BP 10480 to 10460) and  
(95% probability) Cal BC 8480 to 8290 (Cal BP 10430 to 10240)

Intercept data

Intercept of radiocarbon age  
with calibration curve: Cal BC 8320 (Cal BP 10270)

1 Sigma calibrated results: Cal BC 8440 to 8370 (Cal BP 10390 to 10320) and  
(68% probability) Cal BC 8360 to 8300 (Cal BP 10310 to 10250)



## References:

*Database used*

*INTCAL04*

*Calibration Database*

*INTCAL04 Radiocarbon Age Calibration*

*IntCal04: Calibration Issue of Radiocarbon (Volume 46, nr 3, 2004).*

*Mathematics*

*A Simplified Approach to Calibrating C14 Dates*

*Talma, A. S., Vogel, J. C., 1993, Radiocarbon 35(2), p317-322*

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# CALIBRATION OF RADIOCARBON AGE TO CALENDAR YEARS

(Variables: C13/C12=-26.9:lab. mult=1)

Laboratory number: **Beta-258838**

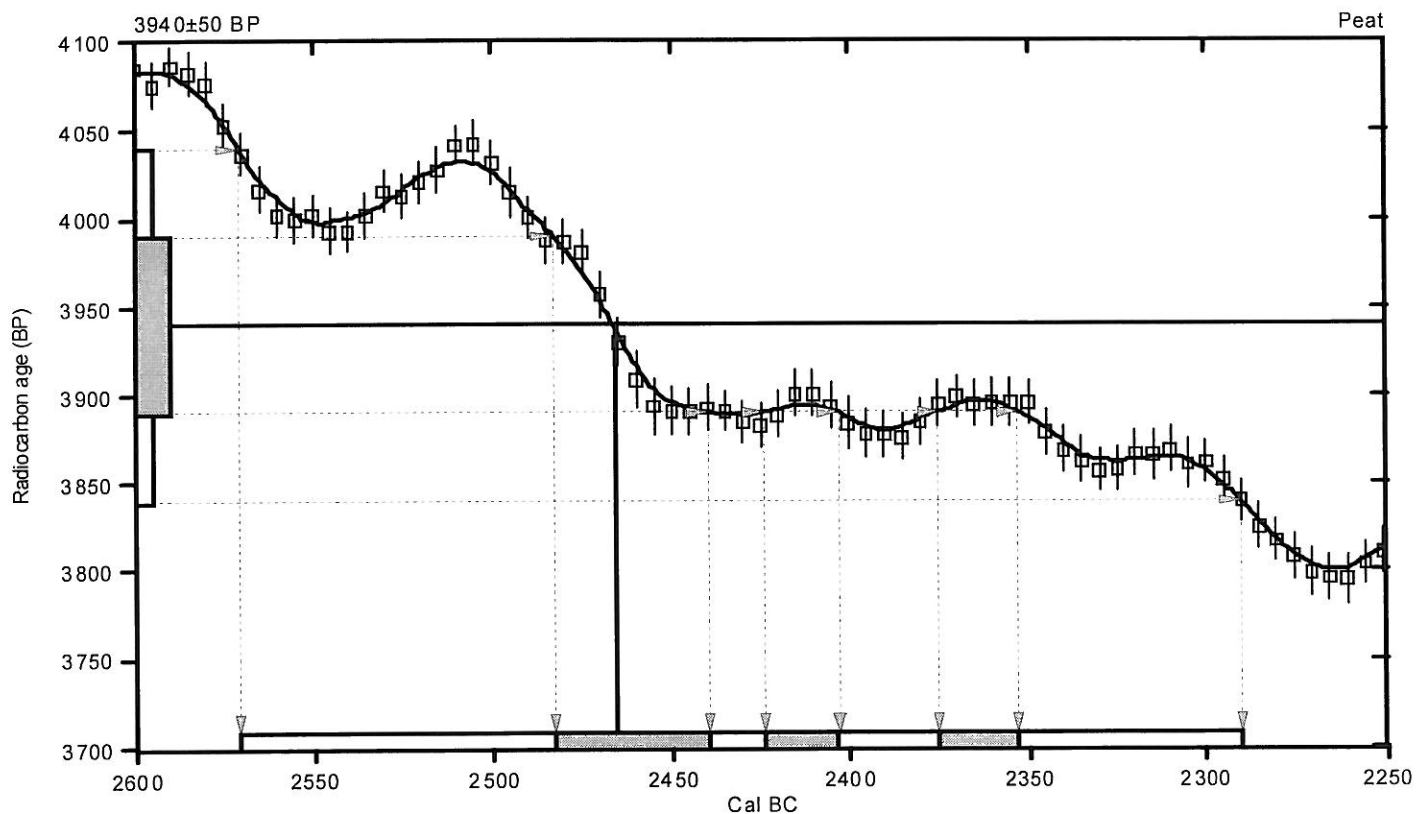
Conventional radiocarbon age: **3940±50 BP**

2 Sigma calibrated result: **Cal BC 2570 to 2290 (Cal BP 4520 to 4240)**  
(95% probability)

Intercept data

Intercept of radiocarbon age  
with calibration curve: **Cal BC 2470 (Cal BP 4420)**

1 Sigma calibrated results: **Cal BC 2480 to 2440 (Cal BP 4430 to 4390) and**  
**Cal BC 2420 to 2400 (Cal BP 4370 to 4350) and**  
**Cal BC 2380 to 2350 (Cal BP 4320 to 4300)**



## References:

### Database used

INTCAL04

### Calibration Database

INTCAL04 Radiocarbon Age Calibration

IntCal04: Calibration Issue of Radiocarbon (Volume 46, nr 3, 2004).

### Mathematics

A Simplified Approach to Calibrating C14 Dates

Talma, A. S., Vogel, J. C., 1993, Radiocarbon 35(2), p317-322

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# CALIBRATION OF RADIOCARBON AGE TO CALENDAR YEARS

(Variables: C13/C12=-26.1:lab. mult=1)

Laboratory number: **Beta-258840**

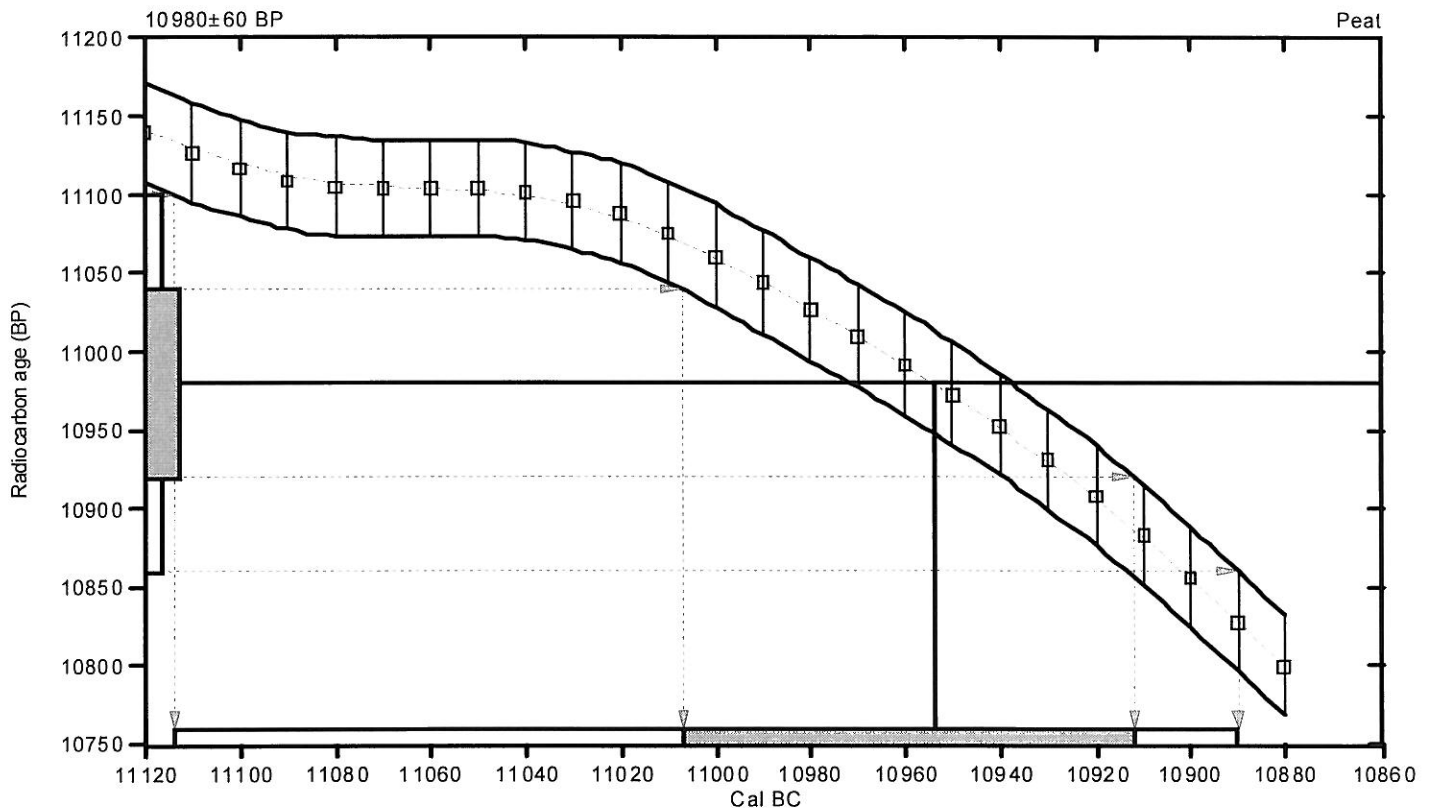
Conventional radiocarbon age: **10980±60 BP**

**2 Sigma calibrated result: Cal BC 11110 to 10890 (Cal BP 13060 to 12840)**  
(95% probability)

Intercept data

Intercept of radiocarbon age  
with calibration curve: Cal BC 10950 (Cal BP 12900)

**1 Sigma calibrated result: Cal BC 11010 to 10910 (Cal BP 12960 to 12860)**  
(68% probability)



## References:

*Database used*

*INTCAL04*

*Calibration Database*

*INTCAL04 Radiocarbon Age Calibration*

*IntCal04: Calibration Issue of Radiocarbon (Volume 46, nr 3, 2004).*

*Mathematics*

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# CALIBRATION OF RADIOCARBON AGE TO CALENDAR YEARS

(Variables: C13/C12=-27.9:lab. mult=1)

Laboratory number: **Beta-258841**

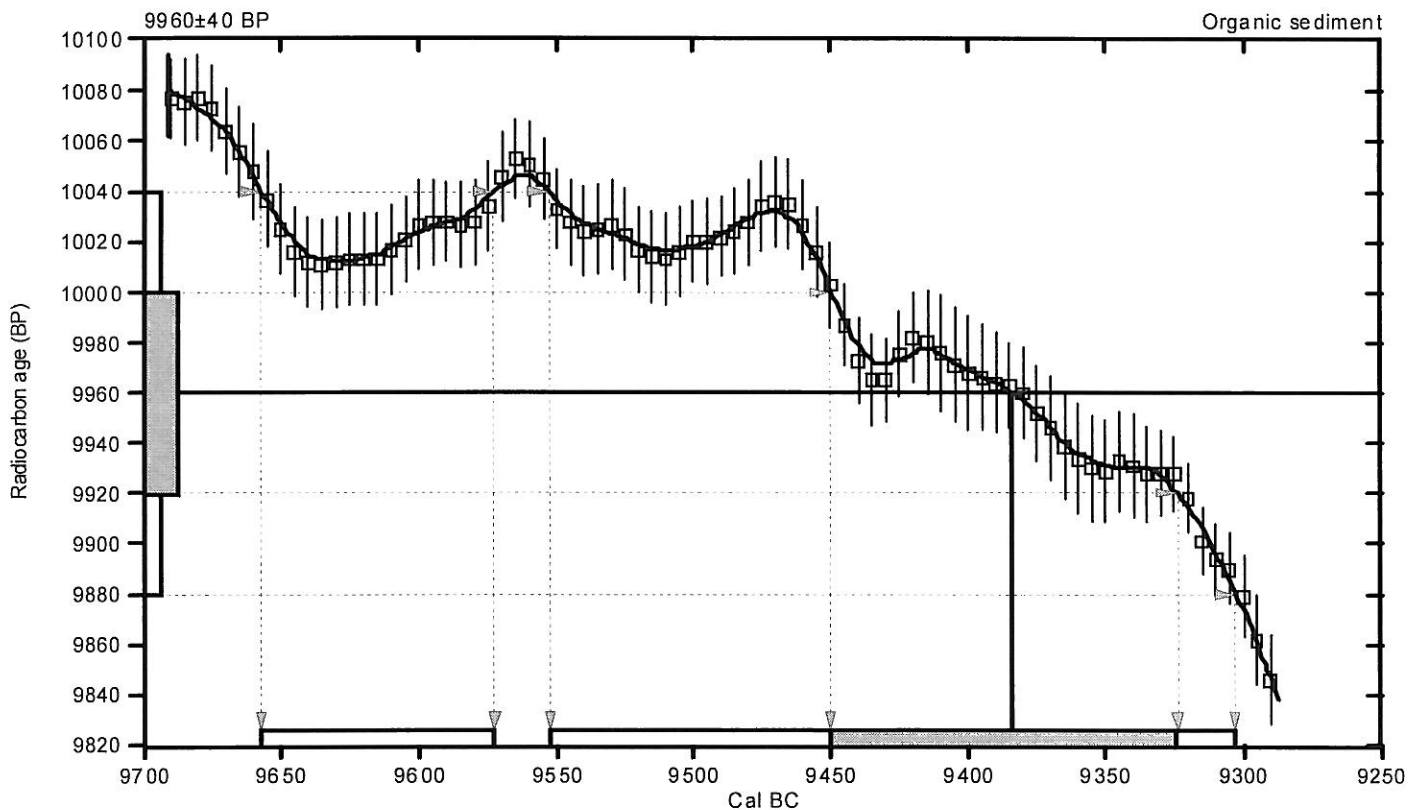
Conventional radiocarbon age: **9960±40 BP**

2 Sigma calibrated results: **Cal BC 9660 to 9570 (Cal BP 11610 to 11520) and  
(95% probability) Cal BC 9550 to 9300 (Cal BP 11500 to 11250)**

Intercept data

Intercept of radiocarbon age  
with calibration curve: **Cal BC 9380 (Cal BP 11330)**

1 Sigma calibrated result: **Cal BC 9450 to 9320 (Cal BP 11400 to 11270)**  
(68% probability)



## References:

*Database used*

*INTCAL04*

*Calibration Database*

*INTCAL04 Radiocarbon Age Calibration*

*IntCal04: Calibration Issue of Radiocarbon (Volume 46, nr 3, 2004).*

*Mathematics*

*A Simplified Approach to Calibrating C14 Dates*

*Talma, A. S., Vogel, J. C., 1993, Radiocarbon 35(2), p317-322*

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# CALIBRATION OF RADIOCARBON AGE TO CALENDAR YEARS

(Variables: C13/C12=-22.7:lab. mult=1)

Laboratory number: Beta-258842

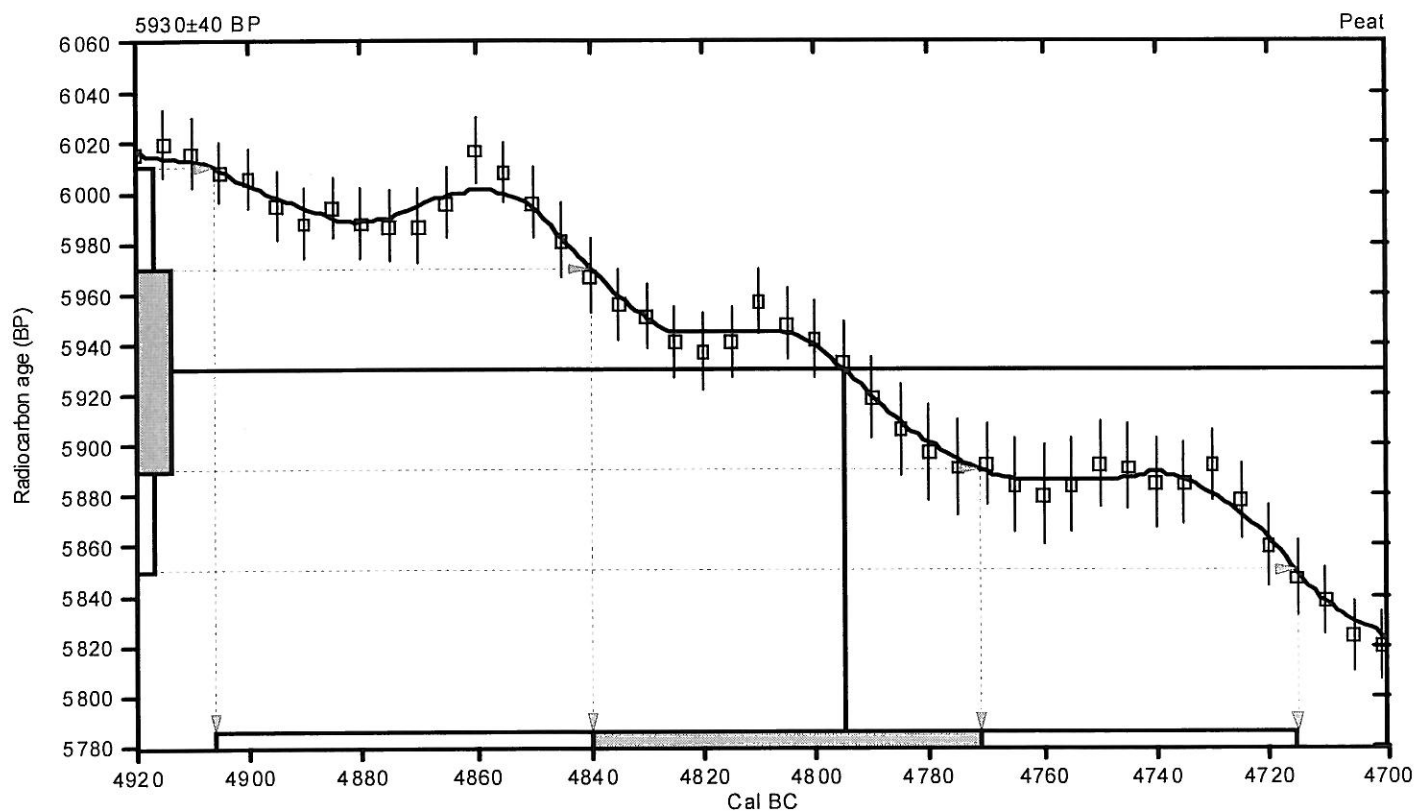
Conventional radiocarbon age: 5930±40 BP

2 Sigma calibrated result: Cal BC 4910 to 4720 (Cal BP 6860 to 6660)  
(95% probability)

Intercept data

Intercept of radiocarbon age  
with calibration curve: Cal BC 4800 (Cal BP 6740)

1 Sigma calibrated result: Cal BC 4840 to 4770 (Cal BP 6790 to 6720)  
(68% probability)



## References:

*Database used*

*INTCAL04*

*Calibration Database*

*INTCAL04 Radiocarbon Age Calibration*

*IntCal04: Calibration Issue of Radiocarbon (Volume 46, nr 3, 2004).*

*Mathematics*

*A Simplified Approach to Calibrating C14 Dates*

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# CALIBRATION OF RADIOCARBON AGE TO CALENDAR YEARS

(Variables: C13/C12=-32.4:lab. mult=1)

Laboratory number: **Beta-258843**

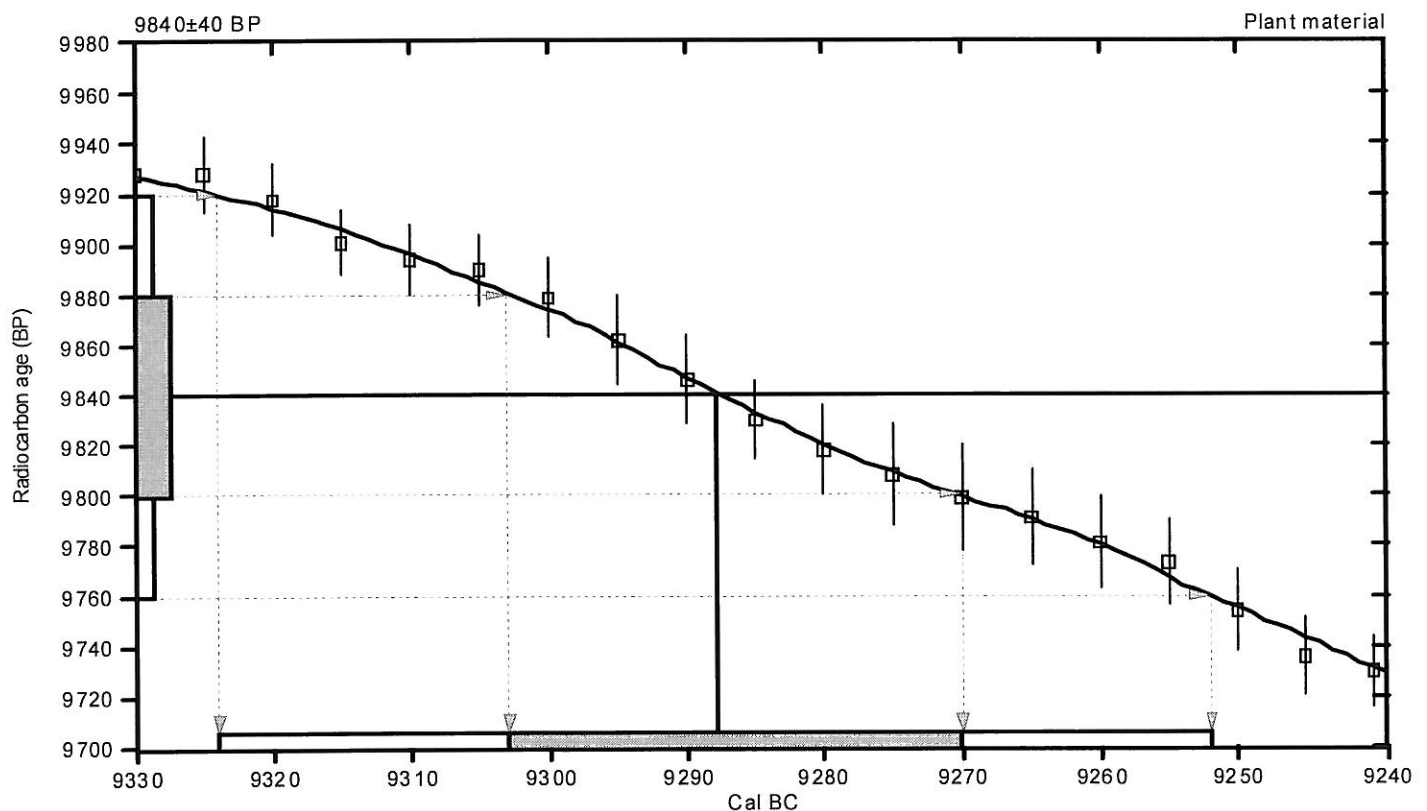
Conventional radiocarbon age: **9840±40 BP**

2 Sigma calibrated result: **Cal BC 9320 to 9250 (Cal BP 11270 to 11200)**  
(95% probability)

Intercept data

Intercept of radiocarbon age  
with calibration curve: **Cal BC 9290 (Cal BP 11240)**

1 Sigma calibrated result: **Cal BC 9300 to 9270 (Cal BP 11250 to 11220)**  
(68% probability)



## References:

*Database used*

*INTCAL04*

*Calibration Database*

*INTCAL04 Radiocarbon Age Calibration*

*IntCal04: Calibration Issue of Radiocarbon (Volume 46, nr 3, 2004).*

*Mathematics*

*A Simplified Approach to Calibrating C14 Dates*

*Talma, A. S., Vogel, J. C., 1993, Radiocarbon 35(2), p317-322*

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# CALIBRATION OF RADIOCARBON AGE TO CALENDAR YEARS

(Variables: C13/C12=-27.4:lab. mult=1)

Laboratory number: **Beta-258844**

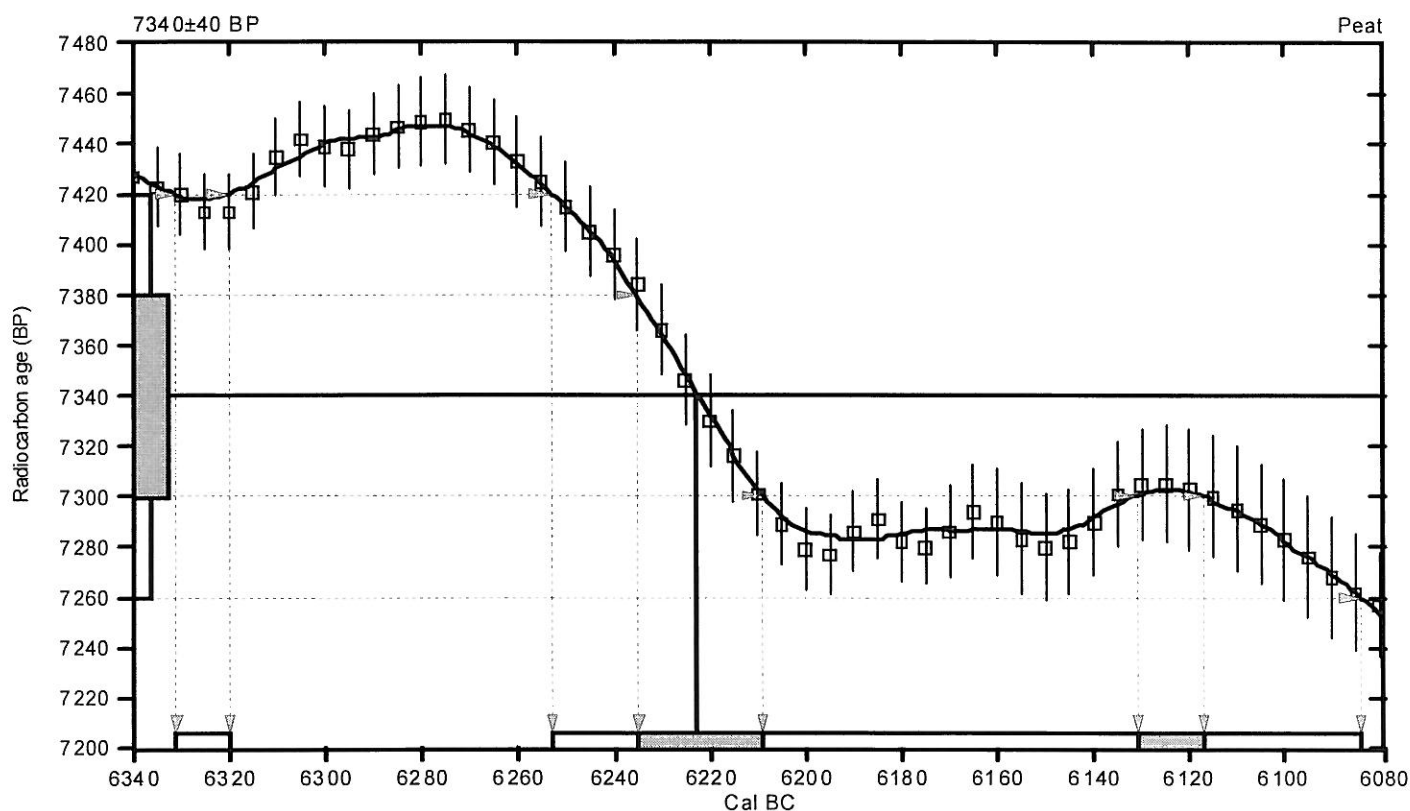
Conventional radiocarbon age: **7340±40 BP**

2 Sigma calibrated results: **Cal BC 6330 to 6320 (Cal BP 8280 to 8270) and  
(95% probability) Cal BC 6250 to 6080 (Cal BP 8200 to 8030)**

Intercept data

Intercept of radiocarbon age  
with calibration curve: **Cal BC 6220 (Cal BP 8170)**

1 Sigma calibrated results: **Cal BC 6240 to 6210 (Cal BP 8180 to 8160) and  
(68% probability) Cal BC 6130 to 6120 (Cal BP 8080 to 8070)**



## References:

### Database used

*INTCAL04*

### Calibration Database

*INTCAL04 Radiocarbon Age Calibration*

*IntCal04: Calibration Issue of Radiocarbon (Volume 46, nr 3, 2004).*

### Mathematics

*A Simplified Approach to Calibrating C14 Dates*

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# CALIBRATION OF RADIOCARBON AGE TO CALENDAR YEARS

(Variables: C13/C12=-26.4:lab. mult=1)

**Laboratory number: Beta-258845**

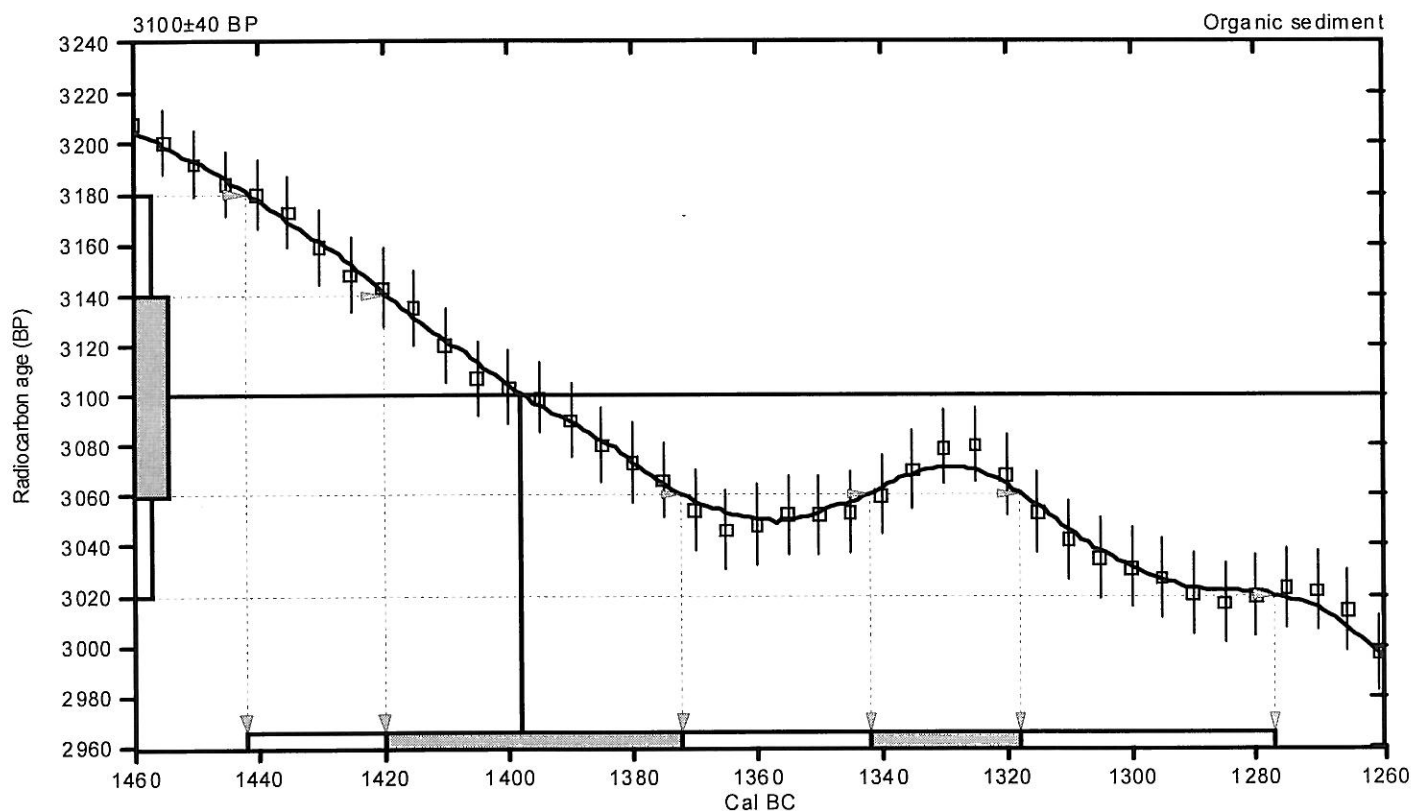
**Conventional radiocarbon age: 3100±40 BP**

**2 Sigma calibrated result: Cal BC 1440 to 1280 (Cal BP 3390 to 3230)  
(95% probability)**

Intercept data

Intercept of radiocarbon age  
with calibration curve: Cal BC 1400 (Cal BP 3350)

1 Sigma calibrated results: Cal BC 1420 to 1370 (Cal BP 3370 to 3320) and  
(68% probability) Cal BC 1340 to 1320 (Cal BP 3290 to 3270)



## References:

### Database used

*INTCAL04*

### Calibration Database

*INTCAL04 Radiocarbon Age Calibration*

*IntCal04: Calibration Issue of Radiocarbon (Volume 46, nr 3, 2004).*

### Mathematics

*A Simplified Approach to Calibrating C14 Dates*

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# CALIBRATION OF RADIOCARBON AGE TO CALENDAR YEARS

(Variables: C13/C12=-28.1:lab. mult=1)

Laboratory number: **Beta-258847**

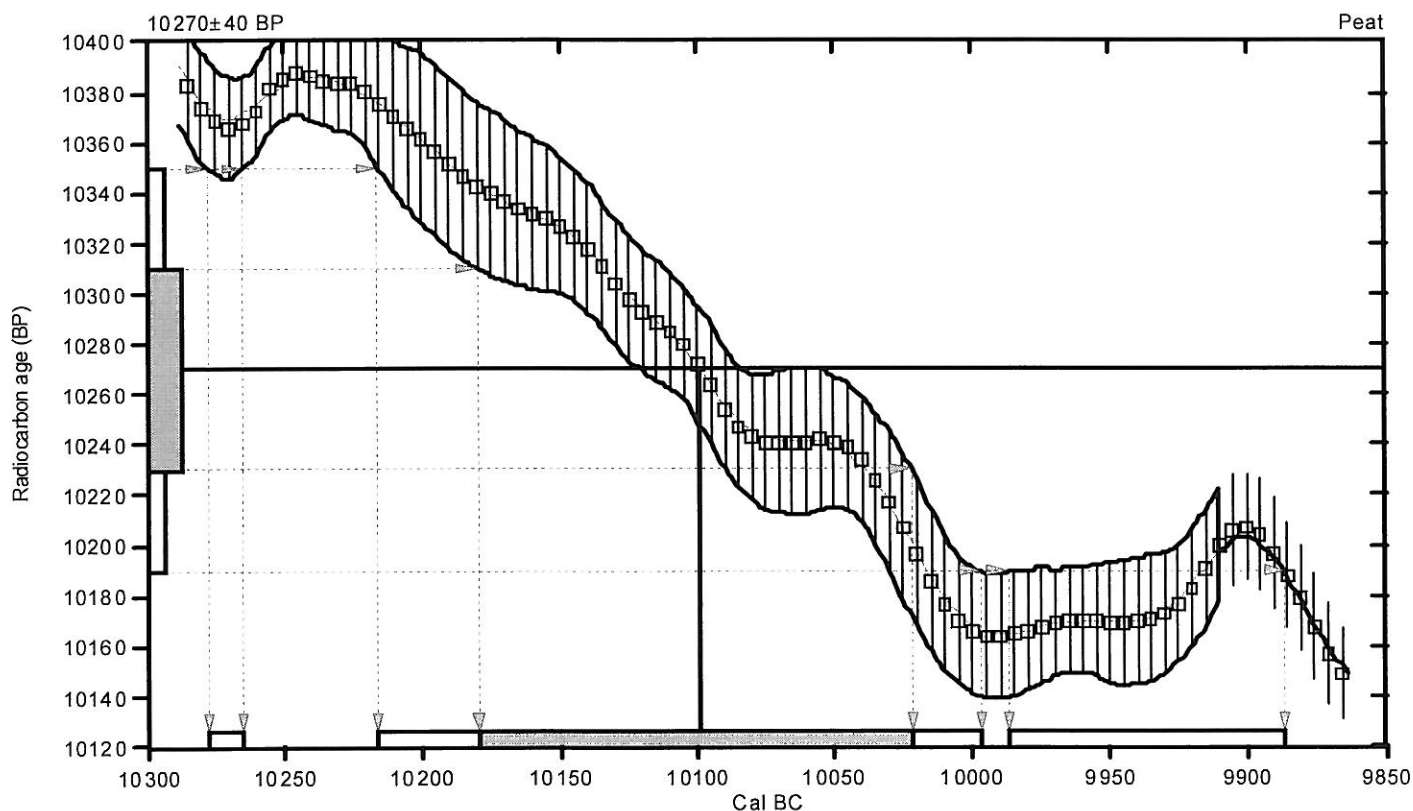
Conventional radiocarbon age: **10270±40 BP**

2 Sigma calibrated results: **Cal BC 10280 to 10260 (Cal BP 12230 to 12220) and  
(95% probability) Cal BC 10220 to 10000 (Cal BP 12170 to 11950) and  
Cal BC 9990 to 9890 (Cal BP 11940 to 11840)**

Intercept data

Intercept of radiocarbon age  
with calibration curve: **Cal BC 10100 (Cal BP 12050)**

1 Sigma calibrated result: **Cal BC 10180 to 10020 (Cal BP 12130 to 11970)**  
(68% probability)



## References:

*Database used*

*INTCAL04*

*Calibration Database*

*INTCAL04 Radiocarbon Age Calibration*

*IntCal04: Calibration Issue of Radiocarbon (Volume 46, nr 3, 2004).*

*Mathematics*

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# CALIBRATION OF RADIOCARBON AGE TO CALENDAR YEARS

(Variables: C13/C12=-26:lab. mult=1)

Laboratory number: **Beta-258849**

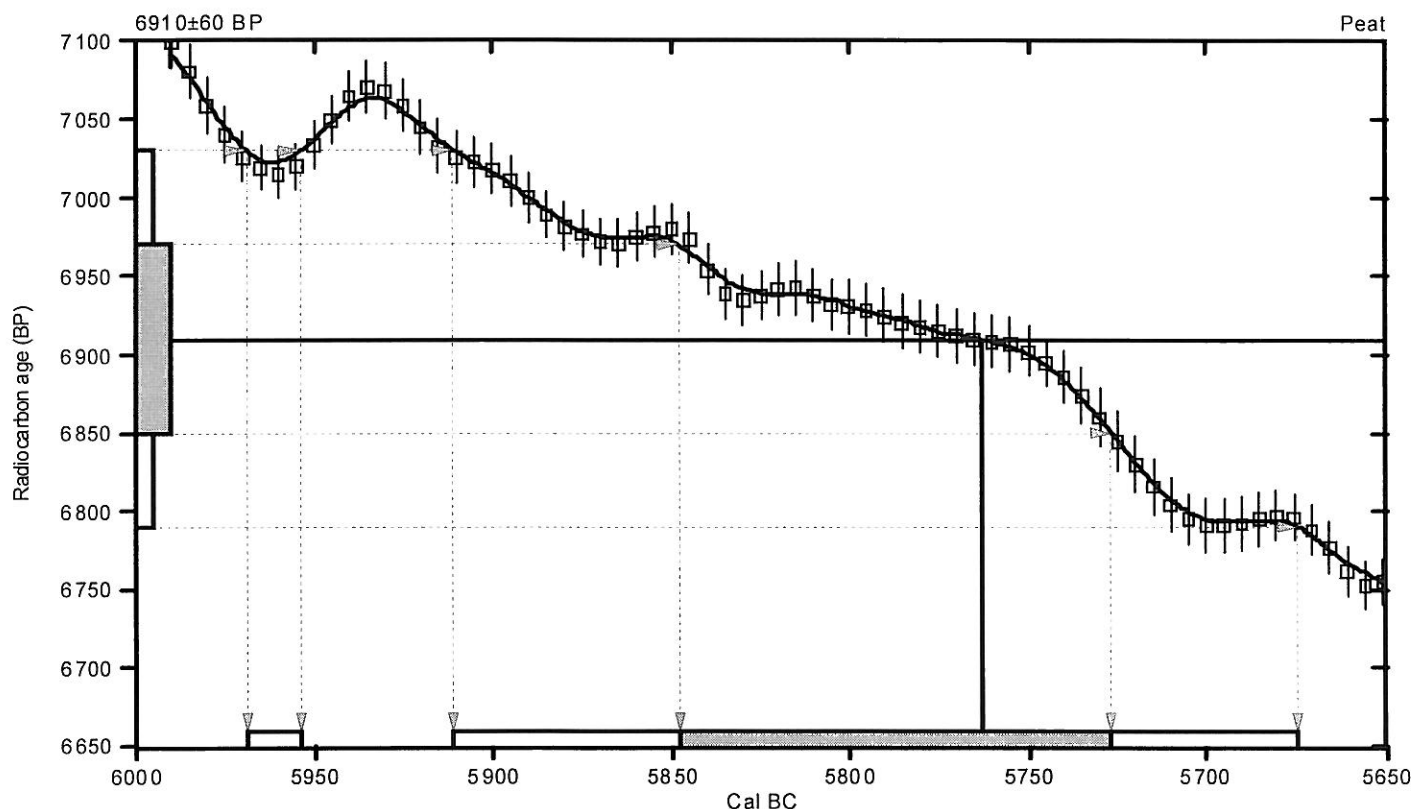
Conventional radiocarbon age: **6910±60 BP**

2 Sigma calibrated results: **Cal BC 5970 to 5950 (Cal BP 7920 to 7900) and**  
**(95% probability) Cal BC 5910 to 5670 (Cal BP 7860 to 7620)**

Intercept data

Intercept of radiocarbon age  
with calibration curve: **Cal BC 5760 (Cal BP 7710)**

1 Sigma calibrated result: **Cal BC 5850 to 5730 (Cal BP 7800 to 7680)**  
**(68% probability)**



## References:

*Database used*

*INTCAL04*

*Calibration Database*

*INTCAL04 Radiocarbon Age Calibration*

*IntCal04: Calibration Issue of Radiocarbon (Volume 46, nr 3, 2004).*

*Mathematics*

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*Talma, A. S., Vogel, J. C., 1993, Radiocarbon 35(2), p317-322*

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