

UBANo	Sample ID	Material Type	¹⁴ C Age	±	F14C	±	mg Graphite
UBA-48359	20E0407: SK03	bone	333	19	0.9594	0.0023	0.996
UBA-48360	20E0407: SK04	bone	320	20	0.9610	0.0024	0.996
UBA-48361	20E0407: SK08	bone	341	21	0.9585	0.0025	0.979
UBA-48362	20E0407: SK15	bone	323	21	0.9605	0.0025	0.980
UBA-48363	20E0407: SK16	bone	247	21	0.9698	0.0025	0.985

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Radiocarbon Date Certificate

Laboratory Identification: UBA-48359
Date of Measurement: 2023-02-09
Site: Dunkellin, Co. Galway
Sample ID: 20E0407: SK03
Material Dated: bone, antler or tooth root
Pretreatment: Collagen
mg Graphite: 0.996
Submitted by: Dominic Delaney

Conventional ¹⁴C
Age: 333±19 BP
using AMS
Fraction corrected δ¹³C

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Radiocarbon Date Certificate

Laboratory Identification: UBA-48360
Date of Measurement: 2023-02-14
Site: Dunkellin, Co. Galway
Sample ID: 20E0407: SK04
Material Dated: bone, antler or tooth root
Pretreatment: Collagen
mg Graphite: 0.996
Submitted by: Dominic Delaney

Conventional ¹⁴C
Age: 320±20 BP
using AMS
Fraction corrected δ¹³C

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Radiocarbon Date Certificate

Laboratory Identification: UBA-48361
Date of Measurement: 2023-02-14
Site: Dunkellin, Co. Galway
Sample ID: 20E0407: SK08
Material Dated: bone, antler or tooth root
Pretreatment: Collagen
mg Graphite: 0.979
Submitted by: Dominic Delaney

Conventional ¹⁴C
Age: 341±21 BP
using AMS
Fraction corrected δ¹³C

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Radiocarbon Date Certificate

Laboratory Identification: UBA-48362
Date of Measurement: 2023-02-14
Site: Dunkellin, Co. Galway
Sample ID: 20E0407: SK15
Material Dated: bone, antler or tooth root
Pretreatment: Collagen
mg Graphite: 0.980
Submitted by: Dominic Delaney

Conventional ¹⁴C
Age: 323±21 BP
using AMS
Fraction corrected δ¹³C

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Radiocarbon Date Certificate

Laboratory Identification: UBA-48363
Date of Measurement: 2023-02-14
Site: Dunkellin, Co. Galway
Sample ID: 20E0407: SK16
Material Dated: bone, antler or tooth root
Pretreatment: Collagen
mg Graphite: 0.985
Submitted by: Dominic Delaney

Conventional ¹⁴C
Age: 247±21 BP
using AMS
Fraction corrected δ¹³C

Marine samples will require re-calibration with the marine calibration curve

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RADIOCARBON CALIBRATION PROGRAM*

CALIB REV8.2

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*To be used in conjunction with:

Stuiver, M., and Reimer, P.J., 1993, Radiocarbon, 35, 215-230.

UBA-48359

48359

Radiocarbon Age BP 333 +/- 19

Calibration data set: intcal20.14c

% area enclosed cal AD age ranges

Reimer et al. 2020

relative area under
probability distribution

68.3 (1 sigma) cal AD 1504- 1527 0.263

1553- 1597 0.537

1617- 1633 0.200

95.4 (2 sigma) cal AD 1489- 1532 0.286

1536- 1637 0.714

Median Probability: 1566

UBA-48360

48360

Radiocarbon Age BP 320 +/- 20

Calibration data set: intcal20.14c

% area enclosed cal AD age ranges

Reimer et al. 2020

relative area under
probability distribution

68.3 (1 sigma) cal AD 1520- 1530 0.141

1537- 1589 0.665

1621- 1636 0.194

95.4 (2 sigma) cal AD 1496- 1601 0.804

1614- 1641 0.196

Median Probability: 1562

UBA-48361

48361

Radiocarbon Age BP 341 +/- 21

Calibration data set: intcal20.14c

% area enclosed cal AD age ranges

Reimer et al. 2020

relative area under
probability distribution

68.3 (1 sigma) cal AD 1495- 1524 0.347

1559- 1565 0.050

1570- 1602 0.361

1610- 1631 0.241

95.4 (2 sigma) cal AD 1477- 1529 0.346

1539- 1635 0.654

Median Probability: 1565

UBA-48362

48362

Radiocarbon Age BP 323 +/- 21

Calibration data set: intcal20.14c

% area enclosed cal AD age ranges

Reimer et al. 2020

relative area under
probability distribution

68.3 (1 sigma) cal AD 1513- 1515 0.020

1517- 1529 0.146

1539- 1590 0.644

1620- 1635 0.190

95.4 (2 sigma) cal AD 1494- 1602 0.793

1609- 1640 0.207

Median Probability: 1562

UBA-48363

48363

Radiocarbon Age BP 247 +/- 21

Calibration data set: intcal20.14c

% area enclosed cal AD age ranges

Reimer et al. 2020

relative area under

		probability distribution
68.3 (1 sigma)	cal AD 1643- 1662	0.828
	1787- 1793	0.172
95.4 (2 sigma)	cal AD 1529- 1539	0.026
	1635- 1670	0.717
	1780- 1797	0.243
	1944- 1950*	0.014
Median Probability:	1655	

References for calibration datasets:

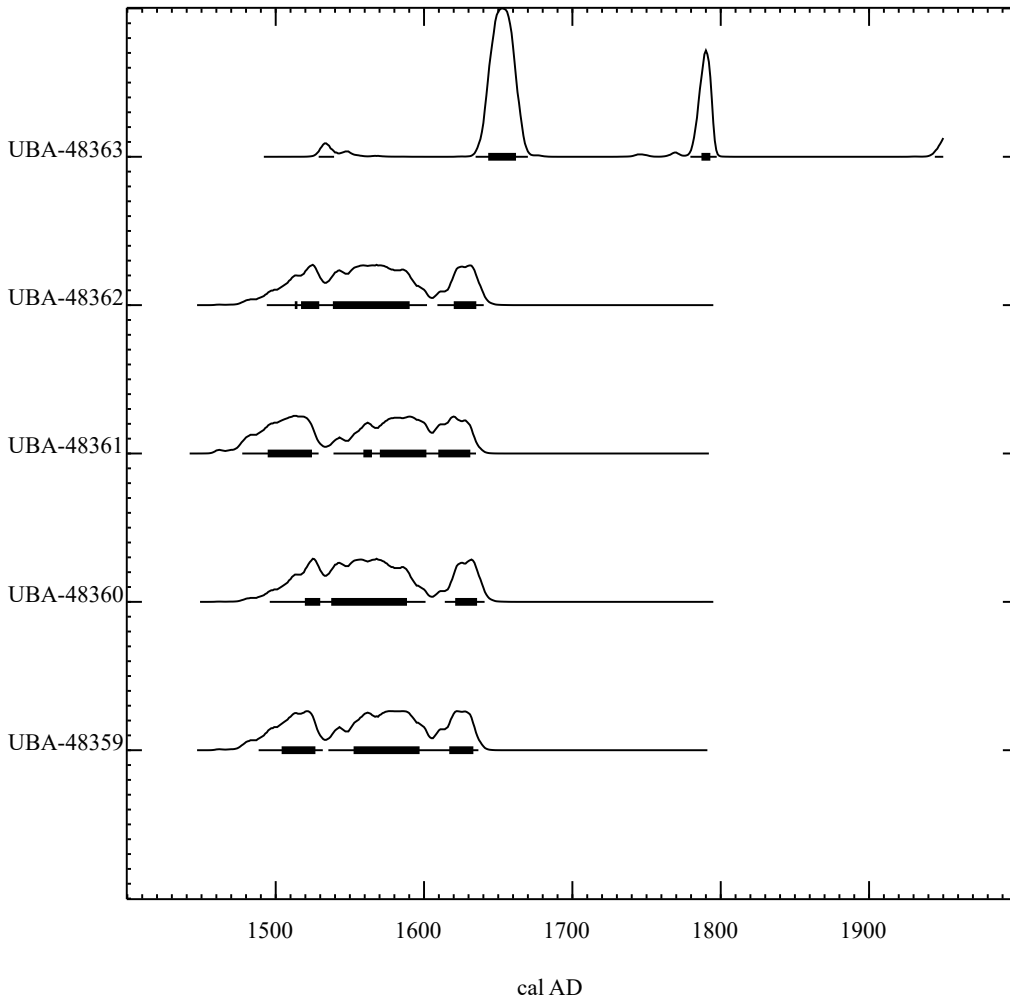
Reimer P, Austin WEN, Bard E, Bayliss A, Blackwell PG, Bronk Ramsey C, Butzin M, Edwards RL, Friedrich M, Grootes PM, Guilderson TP, Hajdas I, Heaton TJ, Hogg A, Kromer B, Manning SW, Muscheler R, Palmer JG, Pearson C, van der Plicht J, Reim Richards DA, Scott EM, Southon JR, Turney CSM, Wacker L, Adolphi F, BÄ¼ntgen U, Fahrni S, Fogtmann-Schulz A, Friedrich R, KÄ¼hler P, Kudsk S, Miyake F, Olsen J, Sakamoto M, Sookdeo A, Talamo S. 2020. The IntCal20 Northern Hemisphere radiocarbon age calibration curve (0-55 cal kB Radiocarbon 62. doi: 10.1017/RDC.2020.41.

Comments:

* This standard deviation (error) includes a lab error multiplier.
 ** 1 sigma = square root of (sample std. dev.^2 + curve std. dev.^2)
 ** 2 sigma = 2 x square root of (sample std. dev.^2 + curve std. dev.^2)
 where ^2 = quantity squared.
 [] = calibrated range impinges on end of calibration data set
 0* represents a "negative" age BP
 1955* or 1960* denote influence of nuclear testing C-14

NOTE: Cal ages and ranges are rounded to the nearest year which may be too precise in many instances. Users are advised to round results to the nearest 10 yr for samples with standard deviation in the radiocarbon age greater than 50 yr.

Posterior Probability Distributions



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