

October 31, 2000

Ms. Melanie Van Twest
SHARP
Moonstones
8 Rose Court, Docking Road
Sedgeford
Hunstanton, Norfolk PE32 1JS, UK

RE: Radiocarbon Dating Result For Sample S5001

Dear Ms. Twest:

Enclosed is the radiocarbon dating result for one sample recently sent to us. It provided plenty of carbon for an accurate measurement and the analysis went normally. The report sheet contains the method used, material type, applied pretreatments and, where applicable, the two sigma calendar calibration range.

As always, this report has been both mailed and sent electronically. All results (excluding some inappropriate material types) which are less than about 20,000 years BP and more than about ~250 BP include this calendar calibration page (also digitally available in Windows metafile (.wmf) format upon request). Calibration is calculated using the newest (1998) calibration database with references quoted on the bottom of the page. Multiple probability ranges may appear in some cases, due to short-term variations in the atmospheric ^{14}C contents at certain time periods. Examining the calibration graph will help you understand this phenomenon. Don't hesitate to contact us if you have questions about calibration.

We analyzed this sample on a sole priority basis. No students or intern researchers who would necessarily be distracted with other obligations and priorities were used in the analysis. We analyzed it with the combined attention of our entire professional staff.

Information pages are also enclosed with the mailed copy of this report. If you have any specific questions about the analysis, please do not hesitate to contact us.

Our invoice is enclosed. Please, forward it to the appropriate officer or send VISA change authorization. Thank you. As always, if you have any questions or would like to discuss the results, don't hesitate to contact me.

Sincerely,

A handwritten signature in cursive script that reads "Darden Hood". The signature is written in black ink and is positioned below the typed name "Darden Hood".

Ms. Melanie Van Twest

Report Date: 10/31/00

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Material Received: 8/18/00

Sample Data	Measured Radiocarbon Age	$^{13}\text{C}/^{12}\text{C}$ Ratio	Conventional Radiocarbon Age(*)
Beta - 146084 SAMPLE : S5001 ANALYSIS : AMS-Standard delivery MATERIAL/PRETREATMENT : (bone collagen): collagen extraction: with alkali 2 SIGMA CALIBRATION : Cal AD 1010 to 1180 (Cal BP 940 to 760)	870 +/- 40 BP	-20.4 o/oo	950 +/- 40 BP

CALIBRATION OF RADIOCARBON AGE TO CALENDAR YEARS

(Variables: C13/C12=-20.4:lab. mult=1)

Laboratory number: **Beta-146084**

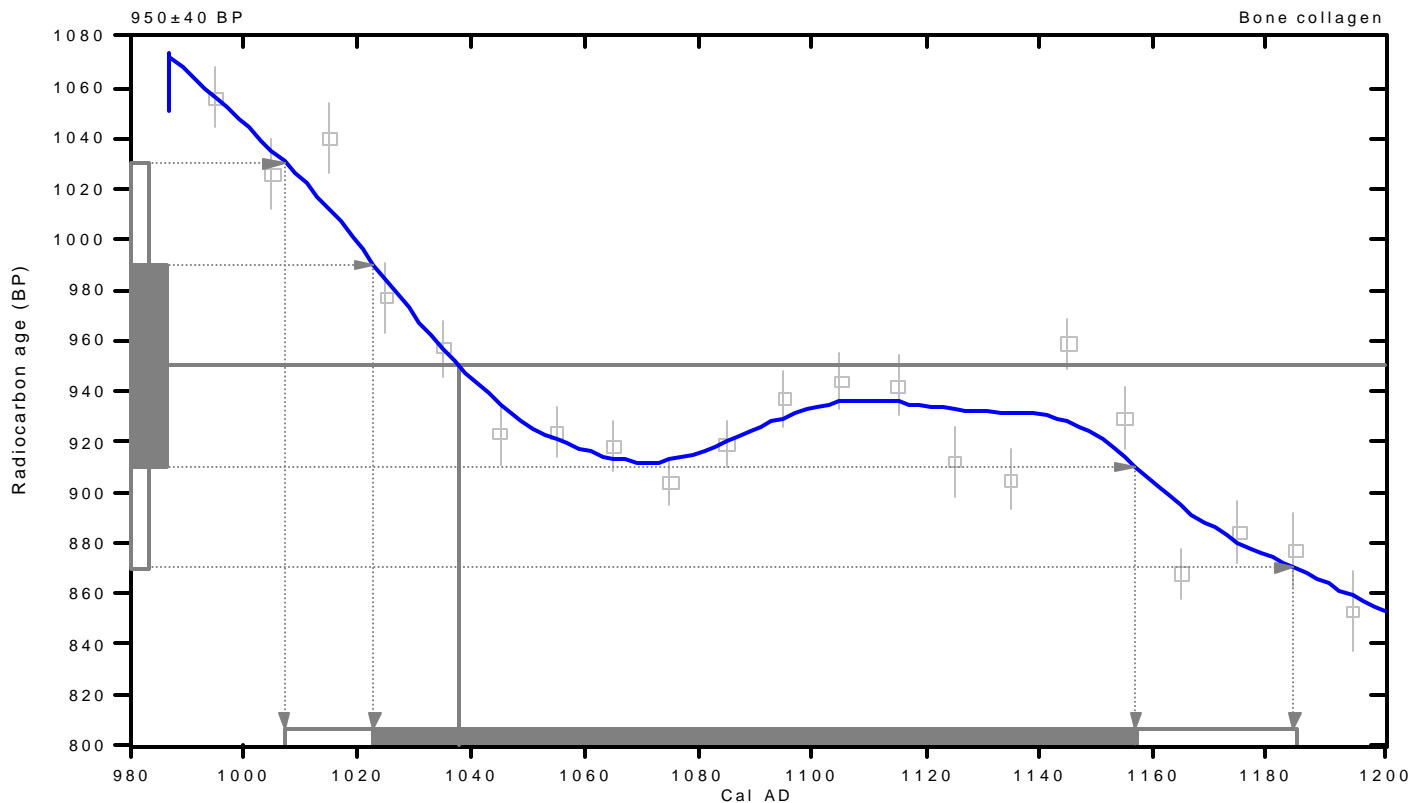
Conventional radiocarbon age: **950±40 BP**

2 Sigma calibrated result: **Cal AD 1010 to 1180 (Cal BP 940 to 760)**
(95% probability)

Intercept data

Intercept of radiocarbon age
with calibration curve: **Cal AD 1040 (Cal BP 910)**

1 Sigma calibrated result: **Cal AD 1020 to 1160 (Cal BP 930 to 790)**
(68% probability)



References:

Database used

Calibration Database

Editorial Comment

Stuiver, M., van der Plicht, H., 1998, Radiocarbon 40(3), pxii-xiii

INTCAL98 Radiocarbon Age Calibration

Stuiver, M., et. al., 1998, Radiocarbon 40(3), p1041-1083

Mathematics

A Simplified Approach to Calibrating C14 Dates

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

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