4/D1 - 1							
*Title:	Supplementary Data for Khayarmara						
	Paleoearthquake Study, Eastern Nepal						
*Authors:	Steven G. Wesnousky ¹						
	wesnousky@unr.edu						
	Yasuhiro Kumahara ²						
	kumakuma@hiroshima-u.ac.jp						
	Deepak Chamlagain ^{1,3}						
	deepakchamlagain73@gmail.com						
	Praiwal Chandra Neupane ³						
	praiwalneupanes123@gmail.com						
	<u>p</u>						
*Affiliations:	¹ Center for Neotectonic Studies and Seismological						
i i i i i i i i i i i i i i i i i i i	Laboratory University of Nevada Reno NV						
	2 Craduate School of Education Uiroshime						
	Graduate School of Education, Hiroshima						
	University, 1-1-1, Kagamiyama, Higashi-						
	Hiroshima, Hiroshima 739-8524, Japan						
	³ Department of Geology, Tri-Chandra M.						
	Campus, Tribhuvan University, Nepal						
*Contact email:	wesnousky@unr.edu						
*Co-authors:	full names and e-mails.						
	,						
	See Authors and Affiliations above						
*CATECODV.	Earth and Dianatamy Sciences, Coolers, and						
	Earth and Planetary Sciences: Geology and						
	Geophysics						

Supplementary Data for Khayarmara Paleoearthquake Study, Eastern Nepal

Wesnousky, S. G.¹, Y. Kumahara², D. Chamlagain^{1,3} and P. C. Neupane³

- ¹ Center for Neotectonic Studies and Seismological Laboratory, University of Nevada, Reno, NV 89557, USA.
- ² Graduate School of Education, Hiroshima University, 1-1-1, Kagamiyama, Higashi-Hiroshima, Hiroshima 739-8524, Japan

³ Department of Geology, Tri-Chandra M. Campus, Tribhuvan University, Nepal

Corresponding Author and Email: wesnousky@unr.edu

Abstract

The data here includes photos of the trenches, alternative Oxcal radiocarbon models, and a complete analytical report of the Radiocarbon data cited in the analysis of Wesnousky et al. (2018).

Value of the Data

- Provide a basis to examine the observations and analyses of Wesnousky et al. (2018) in greater rigor.
- Serve as further support for statements and conclusions put forth in Wesnousky et al. (2018).
- Provide documentation of radiocarbon data used in Wesnousky et al. (2018).

Data

Specifically included are a sequence of four figures and 1 data table.

Figure S1. Photos of west wall of Khayarmara trench.

Figure S2. Photos of east wall of Khayarmara trench

- Figure S3. Corrected and modeled Radiocarbon ages and event horizon for Khayarmara after removal of low-yield (LY) samples.
- Figure S4. Radiocarbon data and discussion of uncertainties and Oxcal model at Hokse site.

Table S1. Radiocarbon Analytical Report from University of Arizona AMS lab.

Acknowledgements: Data collections supported by of NSF Grant EAR 1345036

References: Wesnousky, S. G., Kumahara, Y., Chamlagain, D., and P. C. Neupane (2018, in press) Large Himalayan Frontal Thrust Paleoearthquake at Khyarmara in Eastern Nepal, Journal of Asian Earth Sciences.



Figures S1. Photos of west wall of Khayarmara trench.

Grid is 1m x 1m.



Figure S1 (cont.) Enlargement of lower portion of preceding photo of entire western trench wall.

small for AMS sample later lab for Samples to withstand insufficient analysis or to be too preparation in field and were judged dating. Many considered charcoal detrital locations of preparation. radiocarbon Flags mark



Figure S2. Photo of east wall of Khayarmara trench exposure. Grid is 1 m x 1 m. See Figure S1 caption for explanation of colored flags. Enlargements of lower portion of photo shown in following two images.







Figure S2 (cont.) Enlargement of lower portion of preceding image.

Figures S3. Corrected and modeled Radiocarbon ages and event horizon for Khayarmara after removal of low-yield (LY) samples.

Name Show all	Unmodelled (BC/AD)			Modelled (BC/AD)			Indices A _{model} =102.4 A _{overall} =102.4				Select All	Page break	
Show structure		from	to	%	from	to	%	A _{comb}	A	LP	c	Visible	
Boundary Ground Surface					1536	2259	95.4				96.1	1 3	
R_Date KL_East Wall - unit 3c		1646		95.3	1527	1953	95.4		96.7		99.2	1 2	
		Warning! Date may Warning! Date pro	Varning! Date may extend out of range - 185+/-40BF Varning! Date probably out of range - 185+/-40BP										
R_Date K6_West Wall - unit 3a		1044	1210	95.4	1073	1215	95.4		92.6		99.8	11	
R_Date KA_East Wall - unit 3a		1036	1157	95.4	1079	1165	95.4		99.5		99.8	1 0	
A Phase faulted in unit 3a												9	
Kharmaya Event Horizon					1059	1150	95.4				99.9	<mark>2</mark> 8	
R_Date K12_West Wall - unit 2		1041	1205	95.4	1036	1132	95.4		114.2		99.9	7	
R_Date KD-East Wall - unit 2		1032	1164	95.4	1028	1125	95.4		102.8		99.8	<mark>2</mark> 6	
R_Date K9_West Wall - unit 2		973	1025	95.4	977	1025	95.4		101.1	Π	99.6	<mark>∕</mark> 5	
A Phase faulted												■4	
Boundary old					565	1024	95.4				97.2	<mark>2</mark> 3	
A Sequence												2	

OxCal v4.3.2 Bronk Ramsey (2017); r:5 IntCal13 atmospheric curve (Reimer et al 2013)



Modelled date (AD)

Figures S4. Radiocarbon data, trench logs and Oxcal models for Hokse site.

The trench logs and sample locations of the Hokse Site . Upper log is log of west wall of trench as presented in Upreti et al. (2000 and 2007). Lower east wall log provided by Kumahara-san on June 6, 2016.



Figure 4. Log of west-wall at the Hokse Trench across the HFT Folded sand and gravel beds overriding late Holocene overbank deposits along a low-angle fault surface.



		AA#	lab #	sample ID	δ13C(‰)	14C age (yrs BP)	±1c	ca
1	1	29293	T8527	NP98-HE05	-25.6	925	45	
			T8527B	HEAF		895	55	
				mid avg wtd avg		(910	35	
t	2	29294	T8528	MP98-HE07	-25.2	410	45	
			T8528B	HE07		385	45	
				widavg		395	30	
F	3	29295	T8529	NPSB-HE10	-25.5	735	45	
			T8529B	11510		785	50	
			Contraction of the	HEIU		755	35	
F	4	29296	T8530	NP98-HWC0	-25.0	70	45	
			T8530B			90	40	
				with avg		80	30	
F	5	29297	T8531	NP98-HW04	-23.2	865	45	
1			T8531B	HIMOA MAYBE FAULTED-SGW		960	50	
1				HW04 wtd avg		905	45	
F	6	29298	T8532	NP98-HW08	-26.6	855	45	
	Ĩ		T8532B	HWOR		875	45	
1				WID BHG		865	30	
-	-							

Figure S4 (cont.) Copy of the original radiocarbon ages for Hokse Site provided by Kumahara-san

The Oxcal model presented for this site in the main text of the paper is for the stratigraphic sequence of ages as presented in Upreti et al. (2007). The analysis results in a displacement horizon at between 1146 AD and 1282 AD (Figure 9 of main text). The analysis is critically dependent on the interpretation that sample HW04 is unfaulted. Examination of the log shows the sample is located very close to the fault and nose of the dip panel. As presented, it may be reasonably be questioned that the sample is actually in faulted deposit or derived from erosion of the faulted dip panel material. The results of applying Oxcal with the assumption that HW04 is in a faulted deposit or derived from the faulted deposit are shown below and yield a broader window for the displacement horizon between 1078 and 1239 AD. It may also be noted that the age of the sample HE04 falls within 900 to 950 AD, within the portion of the atmospheric curve that is flat and exhibits changes in slope (Figure 7 of main text).

Name Show all		Unmodelled (BC/AD)		Modelled (BC/AD)			Indices A _{model} =80.3 A _{overall} =86.5				Select All	Page break	
Show structure		from	to	%	from	to	%	Acomb	Α	LP	C	Visible	
Boundary young					1439	1796	95.4				97.6	<mark>2</mark> 10	
R_Date HE07w-not faulted	≣≣	1439	1628	95.4	1433	1615	95.4		115.6		99.8	<mark>2</mark> 9	
R_Date HE10w-not faulted	≣≣	1216	1291	95.4	1219	1289	95.4		103.1		99.7	<mark>2</mark> 8	
R_Date HW04w-not faulted	≣≣	1030	1215	95.4	1129	1260	95.4		63		99.8	<mark>7</mark>	
Event Horizon					1078	1239	95.4				99.8	<mark>⊘</mark> 6	
R_Date HW08w-faulted		1047	1255	95.4	1050	1215	95.4		91.3		99.6	<mark>∕</mark> 5	
R_Date HE05w-faulted		1032	1206	95.4	1031	1180	95.4		105.3		99.4	✓ ⁴	
Boundary old					779	1183	95.4				97.1	<mark>⁄</mark> 3	
Sequence												<mark>2</mark> 2	

OxCal v4.3.2 Bronk Ramsey (2017); r:5 IntCal13 atmospheric curve (Reimer et al 2013)



Modelled date (AD)



UNIVERSITY OF ARIZONA AMS LABORATORY

RADIOCARBON ANALYTICAL REPORT

Wesnousky, S. (AA111179 - AA111192 and AA111380 - AA111381)

Order #2089

Summary Page

The following analytical report contains 14C analysis from the University of Arizona. This report contains:

- 1. Summary page, includes data qualifiers and non-conformances (page 1)
- 2. Data summary (page 2)
- 3. Individual sample reports (pages 3-18)

Data Qualifiers: Fraction Modern Carbon and Radiocarbon Age were calculated as weighted averages of combined machine runs to reduce overall error. A small sample correction is applied to samples with a carbon mass less than 0.50 mg.

Non-Conformances: Two samples did not yield results. AA111179 dissolved during the 2nd NaOH rinse of pretreatment. AA111188 was too small to process. Two other samples are included in this suite as replacements (AA111380 and AA111381).

Report generated by: Richard Cruz Reviewer: Greg Hodgins Signature: Report Generation Date: 6/4/2018 Date: 6/4/2018

۵۵	lah #	sample ID	MATERIAL	MASS (mg)	d13C	Fraction Modern	14C age BP
		Sample ID		(iiig)	value		
AA111179	X32865	K2	charcoal	x	x	Dissolved	in base
AA111180	X32866	КЗ	charcoal	1.68	-24.5	0.8876 +- 0.0023	958 +- 21
AA111181	X32867	K5	charcoal	1.38	-24.5	0.8923 +- 0.0022	916 +- 19
AA111182	X32868	К6	charcoal	2.05	-27.2	0.8946 +- 0.0023	895 +- 21
AA111183	X32869	K7	charcoal	0.34	-25.6	0.8962 +- 0.0034	880 +- 31
AA111184	X32870	К10	charcoal	0.49	-27.6	0.8858 +- 0.0046	974 +- 41
AA111185	X32871	K12	charcoal	1.45	-25.8	0.8938 +- 0.0022	902 +- 20
AA111186	X32872	KA	charcoal	1.78	-26.9	0.8908 +- 0.0022	929 +- 20
AA111187	X32873	KD	charcoal	1.28	-25.4	0.8916 +- 0.0026	922 +- 24
AA111188	X32874	КJ	charcoal	x	x	Too small to	process
AA111189	X32875	P1	charcoal	1.69	-27.3	0.8512 +- 0.0021	1294 +- 20
AA111190	X32876	P3	charcoal	0.22	-26.0	0.897 +- 0.006	873 +- 54
AA111191	X32877	KL	charcoal	1.73	-25.9	0.9277 +- 0.0023	603 +- 20
AA111192	X32878	КК	charcoal	0.60	-23.8	0.9056 +- 0.0023	796 +- 21
AA111380	X33068R	KB	charcoal	0.59	-25.8	0.8901 +- 0.0022	935 +- 20
AA111381	X33069R	К9	charcoal	1.46	-26.3	0.8785 +- 0.0023	1041 +- 21

<u>Data Summary</u>

Data Report (1 of 14)

User Information	Laboratory Information
Submitter: Wesnousky, S.	<u>AA-number</u> : AA111179
User ID: K2	Laboratory number: X32865
Expected age: 1000 AD	Sample type: charcoal
Sample origin: Nepal	Pretreatment: ABA
	<u>Carbon yield</u> : <mark>NA</mark>
	<u>Carbon mass</u> : <mark>NA</mark>

Results					
δ ¹³ C (± 0.1‰, 1σ):	NA				
Fraction of modern carbon (±1σ):	NA				
Uncalibrated ¹⁴ C Age (±1σ):	NA				
Calibration Program / Dataset:	NA				
Calendar Age Range (68%):	NA				
Calendar Age Range (95%):	NA				

"Sample dissolved in pretreatment during 2nd NaOH rinse"

Data Report (2 of 14)

User Information	Laboratory Information
Submitter: Wesnousky, S.	AA-number: AA111180
User ID: K3	Laboratory number: X32866
Expected age: 1000 AD	Sample type: charcoal
Sample origin: Nepal	Pretreatment: ABA
	Carbon yield: 70%
	Carbon mass: 1.68 mg

Results						
δ ¹³ C (± 0.1‰, 1σ):	-24.5 ‰					
Fraction of modern carbon (±1σ):	0.8876 +- 0.0023					
Uncalibrated ¹⁴ C Age (±1σ):	958 +- 21 14C years BP					
Calibration Program / Dataset:	OxCal 4.2 / IntCal13 atmospheric					
Calendar Age Range (68%):	1027 calAD to 1148 calAD					
Calendar Age Range (95%):	1021 calAD to 1155 calAD					



Data Report (3 of 14)

User Information	Laboratory Information
Submitter: Wesnousky, S.	AA-number: AA111181
User ID: K5	Laboratory number: X32867
Expected age: 1000 AD	Sample type: charcoal
Sample origin: Nepal	Pretreatment: ABA
	Carbon yield: 59%
	Carbon mass: 1.38 mg

Results						
δ ¹³ C (± 0.1‰, 1σ):	-24.5 ‰					
Fraction of modern carbon (±1σ):	0.8923 +- 0.0022					
Uncalibrated ¹⁴ C Age (±1σ):	916 +- 19 14C years BP					
Calibration Program / Dataset:	OxCal 4.2 / IntCal13 atmospheric					
Calendar Age Range (68%):	1046 calAD to 1159 calAD					
Calendar Age Range (95%):	1039 calAD to 1163 calAD					



Data Report (4 of 14)

User Information	Laboratory Information
Submitter: Wesnousky, S.	AA-number: AA111182
<u>User ID</u> : K6	Laboratory number: X32868
Expected age: 1000 AD	Sample type: charcoal
Sample origin: Nepal	Pretreatment: ABA
	Carbon yield: 66%
	Carbon mass: 2.05 mg

Results	
δ ¹³ C (± 0.1‰, 1σ):	-27.2 ‰
Fraction of modern carbon (±1σ):	0.8946 +- 0.0023
Uncalibrated ¹⁴ C Age (±1σ):	895 +- 21 14C years BP
Calibration Program / Dataset:	OxCal 4.2 / IntCal13 atmospheric
Calendar Age Range (68%):	1050 calAD to 1185 calAD
Calendar Age Range (95%):	1044 calAD to 1210 calAD



Data Report (5 of 14)

User Information	Laboratory Information
Submitter: Wesnousky, S.	AA-number: AA111183
<u>User ID</u> : K7	Laboratory number: X32869
Expected age: 1000 AD	Sample type: charcoal
Sample origin: Nepal	Pretreatment: ABA
	Carbon yield: 28%
	Carbon mass: 0.34 mg

Results	
δ ¹³ C (± 0.1‰, 1σ):	-25.6 ‰
Fraction of modern carbon (±1σ):	0.8962 +- 0.0034
Uncalibrated ¹⁴ C Age (±1σ):	880 +- 31 14C years BP
Calibration Program / Dataset:	OxCal 4.2 / IntCal13 atmospheric
Calendar Age Range (68%):	1054 calAD to 1213 calAD
Calendar Age Range (95%):	1041 calAD to 1223 calAD



Data Report (6 of 14)

User Information	Laboratory Information
Submitter: Wesnousky, S.	AA-number: AA111184
User ID: K10	Laboratory number: X32870
Expected age: 1000 AD	Sample type: charcoal
Sample origin: Nepal	Pretreatment: ABA
	Carbon yield: 22%
	Carbon mass: 0.49 mg

Results	
δ ¹³ C (± 0.1‰, 1σ):	-27.6 ‰
Fraction of modern carbon (±1σ):	0.8858 +- 0.0046
Uncalibrated ¹⁴ C Age (±1σ):	974 +- 41 14C years BP
Calibration Program / Dataset:	OxCal 4.2 / IntCal13 atmospheric
Calendar Age Range (68%):	1018 calAD to 1151 calAD
Calendar Age Range (95%):	994 calAD to 1157 calAD



Data Report (7 of 14)

User Information	Laboratory Information
Submitter: Wesnousky, S.	AA-number: AA111185
User ID: K12	Laboratory number: X32871
Expected age: 1000 AD	Sample type: charcoal
Sample origin: Nepal	Pretreatment: ABA
	Carbon yield: 59%
	Carbon mass: 1.45 mg

Results	
δ ¹³ C (± 0.1‰, 1σ):	-25.8 ‰
Fraction of modern carbon (±1σ):	0.8938 +- 0.0022
Uncalibrated ¹⁴ C Age (±1σ):	902 +- 20 14C years BP
Calibration Program / Dataset:	OxCal 4.2 / IntCal13 atmospheric
Calendar Age Range (68%):	1048 calAD to 1165 calAD
Calendar Age Range (95%):	1041 calAD to 1205 calAD



Data Report (8 of 14)

User Information	Laboratory Information
Submitter: Wesnousky, S.	AA-number: AA111186
<u>User ID</u> : KA	Laboratory number: X32872
Expected age: 1000 AD	Sample type: charcoal
Sample origin: Nepal	Pretreatment: ABA
	Carbon yield: 73%
	Carbon mass: 1.78 mg

Results	
δ ¹³ C (± 0.1‰, 1σ):	-26.9 ‰
Fraction of modern carbon (±1σ):	0.8908 +- 0.0022
Uncalibrated ¹⁴ C Age (±1σ):	929 +- 20 14C years BP
Calibration Program / Dataset:	OxCal 4.2 / IntCal13 atmospheric
Calendar Age Range (68%):	1043 calAD to 1153 calAD
Calendar Age Range (95%):	1036 calAD to 1157 calAD



Data Report (9 of 14)

User Information	Laboratory Information
Submitter: Wesnousky, S.	AA-number: AA111187
<u>User ID</u> : KD	Laboratory number: X32873
Expected age: 1000 AD	Sample type: charcoal
Sample origin: Nepal	Pretreatment: ABA
	Carbon yield: 64%
	Carbon mass: 1.28 mg

Results	
δ ¹³ C (± 0.1‰, 1σ):	-25.4 ‰
Fraction of modern carbon (±1σ):	0.8916 +- 0.0026
Uncalibrated ¹⁴ C Age (±1σ):	922 +- 24 14C years BP
Calibration Program / Dataset:	OxCal 4.2 / IntCal13 atmospheric
Calendar Age Range (68%):	1045 calAD to 1156 calAD
Calendar Age Range (95%):	1032 calAD to 1164 calAD



Data Report (10 of 14)

User Information	Laboratory Information
Submitter: Wesnousky, S.	AA-number: AA111188
<u>User ID</u> : KJ	Laboratory number: X32874
Expected age: 1000 AD	Sample type: charcoal
Sample origin: Nepal	Pretreatment: ABA
	<u>Carbon yield</u> : <mark>NA</mark>
	<u>Carbon mass</u> : <mark>NA</mark>

Results	
δ ¹³ C (± 0.1‰, 1σ):	NA
Fraction of modern carbon (±1σ):	NA
Uncalibrated ¹⁴ C Age (±1σ):	NA
Calibration Program / Dataset:	NA
Calendar Age Range (68%):	NA
Calendar Age Range (95%):	NA

"Too small to date"

Data Report (11 of 14)

User Information	Laboratory Information
Submitter: Wesnousky, S.	AA-number: AA111189
User ID: P1	Laboratory number: X32875
Expected age: 1000 AD	Sample type: charcoal
Sample origin: Nepal	Pretreatment: ABA
	Carbon yield: 79%
	Carbon mass: 1.69 mg

Results	
δ ¹³ C (± 0.1‰, 1σ):	-27.3 ‰
Fraction of modern carbon (±1σ):	0.8512 +- 0.0021
Uncalibrated ¹⁴ C Age (±1σ):	1294 +- 20 14C years BP
Calibration Program / Dataset:	OxCal 4.2 / IntCal13 atmospheric
Calendar Age Range (68%):	674 calAD to 764 calAD
Calendar Age Range (95%):	666 calAD to 769 calAD



Data Report (12 of 14)

User Information	Laboratory Information
Submitter: Wesnousky, S.	AA-number: AA111190
User ID: P3	Laboratory number: X32876
Expected age: 1000 AD	Sample type: charcoal
Sample origin: Nepal	Pretreatment: ABA
	Carbon yield: 33%
	Carbon mass: 0.22 mg

Results	
δ ¹³ C (± 0.1‰, 1σ):	-26.0 ‰
Fraction of modern carbon (±1σ):	0.897 +- 0.006
Uncalibrated ¹⁴ C Age (±1σ):	873 +- 54 14C years BP
Calibration Program / Dataset:	OxCal 4.2 / IntCal13 atmospheric
Calendar Age Range (68%):	1049 calAD to 1222 calAD
Calendar Age Range (95%):	1038 calAD to 1256 calAD



Data Report (13 of 14)

User Information	Laboratory Information
Submitter: Wesnousky, S.	AA-number: AA111191
User ID: KL	Laboratory number: X32877
Expected age: 1500 AD	Sample type: charcoal
Sample origin: Nepal	Pretreatment: ABA
	Carbon yield: 69%
	Carbon mass: 1.73 mg

Results	
δ ¹³ C (± 0.1‰, 1σ):	-25.9 ‰
Fraction of modern carbon (±1σ):	0.9277 +- 0.0023
Uncalibrated ¹⁴ C Age (±1σ):	603 +- 20 14C years BP
Calibration Program / Dataset:	OxCal 4.2 / IntCal13 atmospheric
Calendar Age Range (68%):	1308 calAD to 1397 calAD
Calendar Age Range (95%):	1299 calAD to 1405 calAD



Data Report (14 of 14)

User Information	Laboratory Information
Submitter: Wesnousky, S.	AA-number: AA111192
<u>User ID</u> : KK	Laboratory number: X32878
Expected age: 1000 AD	Sample type: charcoal
Sample origin: Nepal	Pretreatment: ABA
	Carbon yield: 37%
	Carbon mass: 0.60 mg

Results	
δ ¹³ C (± 0.1‰, 1σ):	-23.8 ‰
Fraction of modern carbon (±1σ):	0.9056 +- 0.0023
Uncalibrated ¹⁴ C Age (±1σ):	796 +- 21 14C years BP
Calibration Program / Dataset:	OxCal 4.2 / IntCal13 atmospheric
Calendar Age Range (68%):	1224 calAD to 1259 calAD
Calendar Age Range (95%):	1215 calAD to 1271 calAD



Data Report (1 of 2)

User Information	Laboratory Information
Submitter: Wesnousky, S.	AA-number: AA111380
<u>User ID</u> : KB	Laboratory number: X33068R
Expected age: Not provided	Sample type: charcoal
Sample origin: Not provided	Pretreatment: ABA
	Carbon yield: 28%
	Carbon mass: 0.59 mg

Results	
δ ¹³ C (± 0.1‰, 1σ):	-25.8 ‰
Fraction of modern carbon (±1σ):	0.8901 +- 0.0022
Uncalibrated ¹⁴ C Age (±1σ):	935 +- 20 14C years BP
Calibration Program / Dataset:	OxCal 4.2 / IntCal13 atmospheric
Calendar Age Range (68%):	1040 calAD to 1152 calAD
Calendar Age Range (95%):	1034 calAD to 1155 calAD



Data Report (2 of 2)

User Information	Laboratory Information
Submitter: Wesnousky, S.	AA-number: AA111381
<u>User ID</u> : K9	Laboratory number: X33069R
Expected age: Not provided	Sample type: charcoal
Sample origin: Not provided	Pretreatment: ABA
	Carbon yield: 69%
	Carbon mass: 1.46 mg

Results	
δ ¹³ C (± 0.1‰, 1σ):	-26.3 ‰
Fraction of modern carbon (±1σ):	0.8785 +- 0.0023
Uncalibrated ¹⁴ C Age (±1σ):	1041 +- 21 14C years BP
Calibration Program / Dataset:	OxCal 4.2 / IntCal13 atmospheric
Calendar Age Range (68%):	992 calAD to 1017 calAD
Calendar Age Range (95%):	973 calAD to 1025 calAD

