
Ancient TL

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Ancient TL SUPPLEMENT

Date List

March 1990 Issue 3

1. This list includes dates for fired materials of archaeological interest, submitted to *Ancient TL* during 1989 for which sufficient information has been supplied. Readers are referred to earlier issues of the Date List for a fuller description of the structure of entries.
2. Application forms are available from the Editor, who will be pleased to advise on data compilation; laboratories wishing to submit dates for which the current date entry specification is not suitable should write to him. The application forms may be supplied on either paper or magnetic media.
3. A separate summary of all Part 1 entries published so far will be available for general archaeological circulation during 1990.
4. A specification for *Luminescence Sediment Age* entries is now being formulated. Suggestions for the form of the Entry Specification are welcomed and should be sent to the Editor by 1st May 1990.

Laboratory: [name]

Date Entry Specification

Entry: [entry number]

PART I

Site: [Name] Location: [Region, country] Grid Ref.: [National map reference]

Site Description: [Brief description of period and nature of site]

Dates/Ages:

Lab. Ref. Material Archaeological Ref.

[Type]	[Type]	[Lab. abbrev.]					
TL	Context	Date	800	AD ± 50	(Dur87TLfg)	100-1/6	pottery ABC-1a
	Single	Age					
			[Overall error]	[Test year]	[Technique]	[Sample ref.]	[Context reference]
						[Dated material]	

— TL Context Components: [Details of component TL dates/ages used to derive Context Date/Age] —

Archaeological Evidence: [Excavator's brief description of context(s)]

Site Director: [Full name and institutional postal address]

Reports: [Details of excavation and laboratory reports]

PART II

Section A. TL Measurements

1. min.([mineral]) tech.([technique]; [grain size range, gsr] μm)
Data tabulated for each sample:
2. $P = [\text{value}] \pm \text{s.e. Gy}$ 2a. $I/P = [\text{value}]$ 3. Slopes [2nd/1st: $[\text{value}] \pm \text{s.e.}$]
4. [Type of plateau] Plateau $[\pm [\text{value}] \%; [T_1 - T_2]]$
- 4a. Peak [@ $[\text{value}] ^\circ\text{C}$; [heating rate] $^\circ/\text{s}$; [pre-heat details if applicable]]
5. Stability[interval, $T_1 - T_2$]; [period] ; [storage $T ^\circ\text{C}$] ; [result ; $[\text{value}] \pm [\text{value}] \%$]
6. a value = $[\text{value}]$, or b value = $[\text{value}]$

Section B. Dose-rate Measurements

Data tabulated for each sample:

1. Total Effective Dose-rate = $[\text{value}] \pm \text{s.e. mGy/a}$ [$\alpha = [\text{value}] \%$ [method] ;
 $\beta = [\text{value}] \%$ [method] ; $\gamma = [\text{value}] \%$ [method] ; $\cos(\text{mic}) = [\text{value}] \%$ [method]]
2. Radon $[\pm [\text{value}] \%$ [method]]
3. Water [Sample ($[\text{value}] \pm \text{s.e.} \%$); (Burial) Environment ($[\text{value}] \pm \text{s.e.} \%$)]

Section C. Error [[Procedure : eA76 or specify other]]

Section D. TL Age

Data tabulated for each sample:

TL Age $[\pm [\text{random error}] ; \pm [\text{overall accuracy}]]$

Special Remarks: [Details of entries
with * or any other additional information]

KEY TO ABBREVIATIONS

STANDARD METHODS/TECHNIQUES/PROCEDURES

i	Inclusion	pd	Pre-dose	a Plat	Age plateau
fg	Fine-grain	MA	Multiple activation	d Plat	Dose plateau
mmi	Multi-mineral	ADD	Additive dose proc.	s Plat	TL Signal plateau
		Sb	Sensitivity baseline		
α -c	Alpha counting	FPh	Flame Photometry	TLD	TL dosimetry
AAS	Atomic absorption	NAA	Neutron Activation Analysis	XRF	X-ray fluorescence
β -c	Beta counting	PXE	PIXIE		
CAP	Capsule	SPEC	Spectrometer (SPEC = portable)		
Non-standard	AutoR	Auto regeneration	PTTL	Photo-transferred TL	

MINERALS & ETC.

cal	Calcite	Nf	Sodium feldspar	*	Other
ft	Flint	p	Polyminal	-	Not applicable
f	Feldspar	q	Quartz	e	Equivalent to
Af	Unsep. alkali feldspar	z	Zircon		(used as prefix)
Kf	Potassium feldspar	por	Porcelain	a	Year

Terms: I, P, a, b, A, S_N , S_0 , TAC: as defined in the literature.

Laboratory: Oxford	Entry: 31
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Site: Orp-le-grand Location: Brabant, Belgium Grid Ref.: 50° 41'40"N 4° 58'23"E.
 Site Description: Open air site, buried in upper part of loess in plateau situation.

Dates	Lab. Ref.	Material	Archaeological Reference
TL Single Ages: 13.7 ±1.7 ka (Ox88TLfg)	245a3	burnt flint	OP145/79
13.1 ±1.4	245a5		OP1164/26
12.9 ±1.5	245b1		OP1221/48
12.1 ±1.3	245b2		OP1133/79
11.8 ±1.2	245b4		OP1185/29

Archaeological Evidence: Magdalenian; as the chronological succession of the different Magdalenian groups in Western Europe is poorly understood these dates can be accepted as a good indication of the age of the Magdalenian of Orp.

Site Director: Prof. Dr P.M. Vermeersch. Catholic University of Leuven, Redingenstraat, 16 bis, 3000 Leuven, Belgium.

Reports: Vermeersch, P.M., Symens, N., Vynckier, P., Gijssels, G., Lauwers, R. (1987) Orp, site Magdalenien de plein air (comm.de Orp Jauche). *Archaeologia Belgica*, 111, 7-56.

PART II
 TECHNICAL SPECIFICATION

Section A. TL Measurements									
1. Min(fit) tech.(fig. 1 - 8µm)									
Sample Ref.	P ± s.e. (Gy)	I/P	Slopes	Plateau	Peak	Stability	a val.		
245a3	22.0 ± 1.5	0	-	± 3%; 300-350°	350°; 5°/s;	300 - 350°; 0.5 a; 18°; 100 ± 3%	0.09		
245a5	22.5 ± 1.5	0	-	± 3%; 325-375°	350°; 5°/s;	325 - 375°;	0.08		
245b1	19.7 ± 1.3	0	-	± 5%; 350-425°	375°; 5°/s;	350 - 425°;	0.06		
245b2	22.6 ± 1.5	0	-	± 3%; 300-375°	350°; 5°/s;	300 - 375°;	0.07		
245b4	20.8 ± 1.3	0	-	± 3%; 300-375°	350°; 5°/s;	300 - 375°;	0.05		

Section B. Dose-rate Measurements									
Sample Ref.	Total Eff. Dose-rate	Dose-rate Components			Radon		Water		
		α	β	γ	cos.	%	Sample	Env.	%
	mGy/a	%	%	%	%	%	%	%	%
245a3	1.60 ± 0.10	12	9	71	8	0 ± 5	0 ± 2	12 ± 3	-
245a5	1.71 ± 0.11	12	13	66	9	-	-	-	-
245b1	1.53 ± 0.10	8	12	71	9	-	-	-	-
245b2	1.86 ± 0.11	16	19	58	7	-	-	-	-
245b4	1.76 ± 0.11	13	18	61	8	-	-	-	-
Method		α-c	α-c	CAP	SpEC	α-c			
		FFH	FFH	SPFC					

Section C. Error [eA76]

Section D. TL Age				
Sample Ref.	TL Age ka	Random ka	Errors ka	Overall ka
245a3	13.7	-	-	1.7
245a5	13.1	-	-	1.4
245b1	12.9	-	-	1.5
245b2	12.1	-	-	1.3
245b4	11.8	-	-	1.2

Laboratory: Oxford	Entry: 32
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Site: Nine Mile Water Location: Nether Wallop, Hampshire, UK. Grid Ref.: SU 307345
 Site Description: Raised mound adjoining Wallop Brook, on westerly edge of water meadow system.

Dates	Lab. Ref.	Material	Archaeological Reference
TL Context Age: 4240 ±380 a (Ox88TLfg)	260f	burnt flint	TL Pit layer 2
TL Context Comps:	4050 ±400		260f1
	4350 ±430		260f3
	4190 ±410		260f6
	4230 ±420		260f9
	4380 ±430		260f13

Archaeological Evidence: Excavation revealed a sequence of topsoil overlying burnt flint sealing a fine grey/white deposit. Pottery at the base of the topsoil has been dated to the 12th/13th Centuries. There are however some L.A. sherds and the extent of burnt flint is unknown. A pre-L.A. date is therefore expected. The molluscan analysis needs to be completed before further comment can be made.

Site Director: Diane Williams, Department of Archaeology, University College, P.O. Box 78, Cardiff CF1 1XL.
 Reports: D. Williams, in preparation.

PART II
 TECHNICAL SPECIFICATION

Section A. TL Measurements									
1. Min(fit) tech.(fig. 1 - 8µm)									
Sample Ref.	P ± s.e. (Gy)	I/P	Slopes	Plateau	Peak	Stability	a val.		
260f1	2.55 ± 0.20	0	-	± 5%; 325-375°	350°; 5°/s;	325 - 375°; 0.5 a; 18°; 100 ± 3%	0.13		
260f3	3.92 ± 0.35	0	-	± 3%; 350-400°	-	350 - 400°;	0.20		
260f6	2.60 ± 0.20	0	-	± 5%; 325-400°	-	325 - 400°;	0.11		
260f9	2.75 ± 0.20	0	-	± 3%; 325-400°	-	325 - 400°;	0.06		
260f13	3.02 ± 0.20	0	-	± 5%; 350-425°	-	350 - 425°;	0.11		

Section B. Dose-rate Measurements									
Sample Ref.	Total Eff. Dose-rate	Dose-rate Components			Radon		Water		
		α	β	γ	cos.	%	Sample	Env.	%
	mGy/a	%	%	%	%	%	%	%	%
260f1	0.63 ± 0.06	14	18	46	22	0 ± 3	0 ± 2	20 ± 5	-
260f3	0.90 ± 0.08	38	14	33	15	-	-	-	-
260f6	0.62 ± 0.06	18	13	47	22	-	-	-	-
260f9	0.65 ± 0.06	12	22	45	21	-	-	-	-
260f13	0.69 ± 0.06	16	22	42	20	-	-	-	-
Method		α-c	α-c	CAP	SpBC	α-c			
		FFH	FFH	SPFC					

Section C. Error [eA76]

Section D. TL Age				
Sample Ref.	TL Age a	Random a	Errors a	Overall a
260f3	4050	-	-	400
260f6	4350	-	-	430
260f9	4190	-	-	410
260f13	4230	-	-	420
	4380	-	-	430

Site: Jels 2
Location: The site is at 'Jels-lakes' near the town of Jels in the southern part of Jutland, Denmark.
Grid Ref.: M3608
Site Description: A small hunters camp belonging to the Hamburgian Culture.

Dates	Lab. Ref.	Material	Archaeological Reference
TL Context Age:	10.2	±0.9 ka	(Ox88TLfg) HAM 1610 Oksensvad sogn 204
TL Context Comps:	9.4	±1.1	600a1 2203
	10.8	±1.0	600a3 2287

Archaeological Evidence: A very artefact-rich hunters camp belonging to the Hamburgian Culture. (12-13000 B.P.) A few Mesolithic artefacts were found within the excavation area. The TL date is not in agreement with the archaeological dating.

Site Director: Jorgen Holm, Haderslev Museum, Dalgade 7, 6100 Haderslev, Denmark.
Flemming Rieck, Skibshistorisk Laboratorium, Frederiksborgvej 63, 4000 Roskilde, Denmark.
Reports: Holm J., and Rieck, F. (1987) Die Hamburger Kultur in Danmark, *Archaeologisches Korrespondenzblatt*, 17, 151-165.

Section A. TL Measurements									
1. Min(fit) tech.(fig : 1 - 8µm)									
Sample Ref.	P ± s.e. (Gy)	I/P	Slps	s Plateau	Peak	Stability	a val.		
600a1	4.25 ± 0.50	0	-	± 5%; 325-400°	375°; 5°/s;	325-400°; 0.5 a; 18°; 100 ±3%	0.15		
600a3	5.50 ± 0.50	0	-	± 5%; 325-400°	375°; 5°/s;	325-400°;	0.04		

Section B. Dose-rate Measurements												
Sample Ref.	Total Eff. Dose-rate	Dose-rate Components					Radon		Water			
		α	β	γ	cos.	%			Sample	Env.		
	mGy/a	%	%	%	%	%	%	%	%	%	%	%
600a1	0.45 ± 0.07	10	10	51	29	0 ± 2	0 ± 5	0 ± 2	18 ± 6			
600a3	0.51 ± 0.07	10	20	45	25							
Method	α-c		α-c		SPEC	SPEC		SPEC		FPH		

Section C. Error [eA76]

Section D. TL Age			
Sample Ref.	TL Age ka	Random ka	Overall ka.
600a1	9.4	-	1.1
600a3	10.8	-	1.0

Site: Jels 1
Location: The site is at 'Jels-lakes' near the town of Jels in the southern part of Jutland, Denmark.
Grid Ref.: M 3608
Site Description: A small hunters camp belonging to the Hamburgian Culture.

Dates	Lab. Ref.	Material	Archaeological Reference
TL Context Age:	12.40	±1.60 ka	(Ox84TLfg) 600g(25) burnt flint HAM 1356
TL Context Comps:	12.85	±1.95	600g(25)ii 47.2
	12.10	±1.80	600g(25)iii 1625
	12.25	±1.80	600g(25)iii 1686

Archaeological Evidence: In N.Germany similar sites are dated by C-14 to the Bolling interstadial, ie 12-13000 B.P.

Site Director: Jorgen Holm, Haderslev Museum, Dalgade 7, 6100 Haderslev, Denmark.
Flemming Rieck, Skibshistorisk Laboratorium, Frederiksborgvej 63, 4000 Roskilde, Denmark.
Reports: Holm J., and Rieck, F. (1987) Die Hamburger Kultur in Danmark, *Archaeologisches Korrespondenzblatt*, 17, 151-165.

Section A. TL Measurements									
1. Min(fit) tech.(fig : 1 - 8µm)									
Sample Ref.	P ± s.e. (Gy)	I/P	Slps	s Plateau	Peak	Stability	a val.		
g(25)ii	8.7 ± 0.5	0	-	± 5%; 325-400°	350°; 5°/s;	325 - 400°; 0.5 a; 18°; 100 ±3%	0.030		
g(25)iii	9.6 ± 0.5	0	-	± 5%; 325-400°	375°; 5°/s;	325 - 400°; 0.5 a; "	0.095		
g(25)iiii	9.7 ± 0.5	0	-	± 5%; 325-400°	375°; 5°/s;	325 - 400°; 0.5 a; "	0.095		

Section B. Dose-rate Measurements												
Sample Ref.	Total Eff. Dose-rate	Dose-rate Components					Radon		Water			
		α	β	γ	cos.	%			%	Sample	Env.	
	mGy/a	%	%	%	%	%	%	%	%	%	%	
g(25)ii	0.68 ± 0.08	4	13	65	18	-	-	0 ± 2	-	-	-	
g(25)iii	0.80 ± 0.10	7	23	55	15	-	-	"	"	"	"	
g(25)iiii	0.80 ± 0.10	7	23	55	15	-	-	"	"	"	"	
Method	α-c		α-c		SPEC	SPEC		FPH				

Section C. Error [eA76]

Section D. TL Age			
Sample Ref.	TL Age ka	Random ka	Overall ka.
g(25)ii	12.85	-	1.95
g(25)iii	12.10	-	1.80
g(25)iiii	12.25	-	1.80

Special Remarks:
• Environmental dose-rate were determined by V. Mejdahl, Risø National Laboratory using a portable gamma-ray spectrometer.

Site: West Overton
Location: River valley bottom in Upper Kennel, North Farm, West Overton, Wiltshire., UK.
Grid Ref.: SU/135686
Site Description: Cremation hearth.

Dates	Lab. Ref.	Material	Archaeological Reference
TL Context Age:	3030 ± 250 a	(Ox88TLfg)	727f burnt flint Long Meadow Pit D
TL Context Comps:	3090 ± 275 2870 ± 270 3130 ± 280	727(I) 727(II) 727(IV)	

Archaeological evidence: Bronze age (probably Deverel-Rimbury) pot, up-turned over a human cremation. It was in a buried soil covered by alluvium. The charcoal in the pot is C-14 dated to 3020 ± 70 BP (OxA-1348).

Site Director: J. G. Evans, Department of Archaeology, University College, PO Box 78, Cardiff CF1 1XL, UK.
Reports: For related C-14 date see *Archaeometry*, 29(2), 1987 pp 294-295 (Also forthcoming date list of AMS lab).

PART II
TECHNICAL SPECIFICATION

Section A. TL Measurements							
1. Min(f) tech.(fg ; 1 - 8µm)							
Sample Ref.	P ± s.e. (Gy)	I/P	Slps	Plateau	Peak	Stability	a val.
727(I)	2.38 ± 0.30	0	-	± 3%; 325-400°	375°; 5°%; -	325 - 400°; 0.5a; 18°; 100 ±3%	0.10
727(II)	2.38 ± 0.30	0	-	± 3%; 325-375°	350°; 5°%; -	325 - 375°; "	0.08
727(IV)	2.38 ± 0.30	0	-	± 3%; 325-375°	350°; 5°%; -	325 - 375°; "	0.10

Section B. Dose-rate Measurements									
Sample Ref.	Total Eff. Dose-rate	Dose-rate Components				Radon	Water Sample	Env.	
		α	β	γ	cos.				
	mGy/a	%	%	%	%	%	%	%	%
727(I)	0.77 ± 0.05	16	12	55	17	0 ± 3	0 ± 2	32 ± 3	
727(II)	0.83 ± 0.05	16	17	51	16	"	"	"	
727(IV)	0.76 ± 0.05	14	12	56	18	"	"	"	
Method		α-c	α-c	CAP	SpEC	α-c			
			FPh		SpEC				

Section C. Error [eA76]

Section D. TL Age			Errors	
Sample Ref.	TL Age a	Random a	Overall a.	
727(I)	3090	-	275	
727(II)	2870	-	270	
727(IV)	3130	-	280	

Site: Bagaggera
Location: Merate village, Lecco region, Lombardy, N. Italy.
Grid Ref.: F 32 Como. 45°42'54" N., 9°23'18" E. 260 m above sea level.
Site Description: Pleistocene terrace.

Dates	Lab. Ref.	Material	Archaeological Reference
TL Single Age:	60.5 ± 7.5 ka	(Ox89TLfg)	750f burnt flint 282

Archaeological Evidence: Burned flint from a Mousterian level at the base of an Upper Pleistocene loess, 40 m thick; at the top of weathered fluvial Middle Pleistocene sand and gravel.

Site Director: Prof. Mauro Cremaschi, Dipartimento di Scienze della Terra, Via Mangiagalli 20133 Milano, Italy.
Reports: Preliminary reports in:
Cremaschi M., Orombelli G., Salloway J.C. (1985) Quaternary stratigraphy and soil development at the S. border of the Central Alps (Italy): the Bagaggera sequence. *Riv. It. Paleont. Strai.*, 90(4), 565 - 603.
Cremaschi M. (1987) Paleosols and Venusols in the central Po Plain (N. Italy). Thesis, University of Amsterdam, Unicopli, Milano, pp1-360. Definitive report in preparation.

PART II
TECHNICAL SPECIFICATION

Section A. TL Measurements							
1. Min(f) tech.(1 - 8 µm)							
Sample Ref.	P ± s.e. (Gy)	I/P	Slps	Plateau	Peak	Stability	a val
750f	99.8 ± 5.0	0	-	± 3%; 375-450°	375°; 5°%; -	375-400°; 0.5a; 18°; 100 ±3%	0.10

Section B. Dose-rate Measurements									
Sample Ref.	Total Eff. Dose-rate	Dose-rate Components				Radon	Water Sample	Env.	
		α	β	γ	cos.				
	mGy/a	%	%	%	%	%	%	%	%
750f	1.65 ± 0.16	7	11	75	7	0 ± 5	0 ± 2	28 ± 7	
Method		α-c	α-c	SPEC	SpEC	α-c			
			FPh						

Section C. Error [eA76]

Section D. TL Age			Errors	
Sample Ref.	TL Age ka	Random ka	Overall ka.	
750f	60.5	-	7.5	

Site: Three Ways Wharf.
Location: 101-105 Oxford Road, Uxbridge, Middlesex, UK.
Grid Ref.: TQ 052 846
Site Description: Multiperiod site composed of a Late Glacial flint and bone scatter and an early Mesolithic flint and bone scatter.

Dates	Lab. Ref.	Material	Archaeological Reference
TL Single Age: 8000 ± 800 a	(Ox89TLfg)	772fl burnt flint	UX88VIII E23/NO2/D/3 343 SF64

Archaeological Evidence: Scatter A contained c.700 pieces of flint with some affinity to the 'Long Blade' late glacial period, with associated fauna of reindeer and horse. This latter dated by C-14 to 10270 ± 100 B.P. (OxA1778) and 10010 ± 120 B.P. (OxA1902). Scatter C produced c.7000 pieces of struck flint and c.2000 fragments of bone. The lithic assemblage is early Mesolithic and fauna is dominated by red deer. The dated sample is from this assemblage contained within argillaceous sediments deposited by gentle overbank flooding. The flint work is dated typologically to the early Mesolithic (expected to date to ca 9000 BP). *JSCl*

Site Director: John S.C. Lewis, Dept. of Greater London Archaeology, Museum of London, Town Mission Hall, Mission Square, Pottery Road, Brentford, Middlesex TW8 0SD, UK.

Reports: Lewis, J. S. C. (1989) Excavations at Three Ways Wharf. *Mesolithic Miscellany*, 10.
Lewis, J. S. C. (1990) Excavations at Three Ways Wharf. Proc. The Late Glacial of N.W. Europe' (ed N. Barton), Dept. External Studies, Oxford University September 1989. In press.

PART II
TECHNICAL SPECIFICATION

Section A. TL Measurements						
1. Min(t) tech. (fig. 1 - 8µm)						
Sample Ref.	P ± s.e. (Gy)	I/P	Slps	Plateau	Peak	Stability
772fl	9.6 ± 0.6	0	-	± 5%; 325-400°	375°; 5°/s;	325-400°; 0.5 ± 18°; 100 ± 3%
						a val
						0.10

Section B. Dose-rate Measurements											
Sample Ref.	Total Eff. Dose-rate	Dose-rate Components						Radon		Water	
		α	β	γ	cos.	%	%	%	%	Sample	Env.
772fl	1.2 ± 0.2	10	8	71	11	0 ± 5	0 ± 2	0 ± 2	30 ± 8		
Method		α-c	α-c	SPEC	SPEC	FPPh	α-c				

Section C. Error [eA76]

Section D. TL Age		
Sample Ref.	TL Age ka	Errors Random Overall ka.
772fl	8.0	- 0.8

Site: Bir Saharn, BS-1
Location: Bir Saharn East Depression in south western Egypt.
Grid Ref.: 22°52' N, 28°50' E
Site Description: Middle Palaeolithic. Samples are from buried layers above an occupation horizon.

Dates	Lab. Ref.	Material	Archaeological Reference
TL Single Ages: 105.4 ± 10.5 ka 108.6 ± 10.6 ka	(Ox88TLqi) (Ox88TLqi)	506a burnt 506b quartz	BS1TR965, V.H.73 upper layer lower layer

Archaeological Evidence: Large concentration of artefacts (approx. 230 per m²) of Levallois technique core and flakes; also highly denudate tool assemblage.

Site Director: Fred Wendorf, Dept of Anthropology, Southern Methodist University, Dallas, Texas 75275, USA.

Reports: Wendorf, F., and Schild, R. (1980) *Prehistory of the Eastern Sahara*. Academic Press, New York.

PART II
TECHNICAL SPECIFICATION

Section A. TL Measurements						
1. Min(q) tech. (inc; 90 - 150µm)						
Sample Ref.	P ± s.e. (Gy)	I/P	Slps	Plateau	Peak	Stability
506a	310 ± 30	0	1.05 ± 0.05	± 3%; 325-375°	350°; 5°/s;	-
506b	304 ± 30	0	1.05 ± 0.05			-

Section B. Dose-rate Measurements											
Sample Ref.	Total Eff. Dose-rate	Dose-rate Components						Radon		Water	
		α	β	γ	cos.	%	%	%	%	Sample	Env.
506a	2.94 ± 0.44	-	62	34	4	0 ± 5%	5 ± 5	7 ± 5			
506b	2.80 ± 0.42	-	57	39	4						
Method		α-c	α-c	SPEC	SPEC	FPPh	α-c				

Section C. Error [eA76]

Section D. TL Age		
Sample Ref.	TL Age a	Errors Random Overall a.
506a	105.4	- 10.5
506b	108.6	- 10.6